

**Attachment C**

Inorganic and Organic

Chemical Test Results

Tables A & B



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

**Trent-Severn Waterway (Northern Sector)**

Attn : Chuck Wilkinson

2023 Kirkfield Road  
Kirkfield, ON  
K0M 2B0,

Phone: 705-438-3153 or 705-887-8390 (cell)  
Fax:705-438-5201

06-September-2013

Date Rec. : 30 August 2013  
LR Report: CA15394-AUG13

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# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Bridge 43
Sample Date & Time								28-Aug-13 09:50
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	21.0
Fluoride [mg/L]	30-Aug-13	20:55	04-Sep-13	11:32	1.5	---	0.06	< 0.06
Antimony [ug/L]	05-Sep-13	12:30	06-Sep-13	11:36	6	---	0.02	0.04
Arsenic [ug/L]	05-Sep-13	12:30	06-Sep-13	11:36	25	---	0.2	0.3
Barium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:36	1000	---	0.01	16.8
Boron [ug/L]	05-Sep-13	12:30	06-Sep-13	11:36	5000	---	0.2	12
Cadmium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:36	5	---	0.003	0.009
Chromium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:36	50	---	0.5	<0.5
Mercury [ug/L]	04-Sep-13	11:43	04-Sep-13	12:26	1	---	0.01	< 0.01
Sodium [mg/L]	05-Sep-13	12:30	06-Sep-13	11:37	20	200	0.01	4.24
Selenium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:37	10	---	1	<1
Uranium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:37	20	---	0.001	0.048
Benzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:47	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:47	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:47	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:47	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:47	14	---	0.33	<0.33

Online LIMS

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LR Report : CA15394-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Bridge 43
1,2-Dichloroethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:47	5	---	0.35	<0.35
Dichloromethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:47	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:47	80	30	0.30	<0.30
Tetrachloroethylene (perchloroethylene) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:47	30	---	0.35	<0.35
Trichloroethylene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:47	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:47	2	---	0.17	<0.17
Diquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:07	70	---	1	<1
Paraquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:07	10	---	1	<1
Glyphosate [ug/L]	03-Sep-13	10:09	06-Sep-13	09:07	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	03-Sep-13	07:51	04-Sep-13	15:13	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	0.01	---	0.004	<0.004
Alachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	5	---	0.02	<0.02
Aldicarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	0.7	---	0.01	<0.01
Aldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	5	---	0.01	0.02
Atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	0.02
Desethyl atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	20	---	0.02	<0.02
Bendiocarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	40	---	0.01	<0.01
Carbaryl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	90	---	0.01	<0.01
Carbofuran [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	90	---	0.01	<0.01
Chlordane (total) [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	7	---	0.01	<0.01
a-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
g-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Oxychlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	90	---	0.02	<0.02
Cyanazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	10	---	0.03	<0.03
Diazinon [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	20	---	0.02	<0.02

Online LIMS

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LR Report : CA15394-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Bridge 43
(DDT) + Metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	30	---	0.01	<0.01
op-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
pp-DDD [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
pp-DDE [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
pp-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Dimethoate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	20	---	0.03	<0.03
Diuron [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	3	---	0.01	<0.01
Heptachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Lindane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	4	---	0.01	<0.01
Malathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	190	---	0.02	<0.02
Methoxychlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	900	---	0.01	<0.01
Metolachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	50	---	0.01	<0.01
Metribuzin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	80	---	0.02	<0.02
Parathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	50	---	0.02	<0.02
Phorate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	2	---	0.01	<0.01
Prometryne [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	1	---	0.03	<0.03
Simazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	10	---	0.01	<0.01
Temephos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	280	---	0.01	<0.01
Terbufos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	1	---	0.01	<0.01
Triallate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	230	---	0.01	<0.01
Trifluralin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:56	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:56	280	20	0.22	<0.22
Bromoxynil [ug/L]	03-Sep-13	07:40	05-Sep-13	11:56	5	---	0.33	<0.33
Dicamba [ug/L]	03-Sep-13	07:40	05-Sep-13	11:56	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	03-Sep-13	07:40	05-Sep-13	11:56	9	---	0.4	<0.40
Dinoseb [ug/L]	03-Sep-13	07:40	05-Sep-13	11:56	10	---	0.36	<0.36
Picloram [ug/L]	03-Sep-13	07:40	05-Sep-13	11:56	190	---	1	<1

Online LIMS

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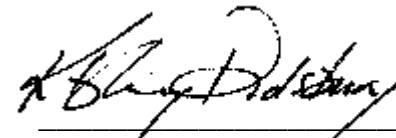
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Bridge 43
2,4-dichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:56	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:56	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:56	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:56	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.



Kimberley Didsbury  
 Project Specialist  
 Environmental Services, Analytical



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06-September-2013

Date Rec. : 30 August 2013  
LR Report: CA15390-AUG13

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Bridge 44
Sample Date & Time								28-Aug-13 10:05
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	19.0
Fluoride [mg/L]	30-Aug-13	20:55	04-Sep-13	11:29	1.5	---	0.06	< 0.06
Antimony [ug/L]	05-Sep-13	12:30	06-Sep-13	11:34	6	---	0.02	0.16
Arsenic [ug/L]	05-Sep-13	12:30	06-Sep-13	11:34	25	---	0.2	0.3
Barium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:34	1000	---	0.01	19.8
Boron [ug/L]	05-Sep-13	12:30	06-Sep-13	11:34	5000	---	0.2	13
Cadmium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:34	5	---	0.003	0.007
Chromium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:34	50	---	0.5	<0.5
Mercury [ug/L]	04-Sep-13	11:43	04-Sep-13	12:26	1	---	0.01	< 0.01
Sodium [mg/L]	05-Sep-13	12:30	06-Sep-13	11:35	20	200	0.01	4.80
Selenium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:35	10	---	1	<1
Uranium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:35	20	---	0.001	0.114
Benzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:41	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:41	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:41	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:41	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:41	14	---	0.33	<0.33

Online LIMS

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Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Bridge 44
1,2-Dichloroethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:41	5	---	0.35	<0.35
Dichloromethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:41	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:41	80	30	0.30	<0.30
Tetrachloroethylene (perchloroethylene) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:41	30	---	0.35	<0.35
Trichloroethylene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:41	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:41	2	---	0.17	<0.17
Diquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:06	70	---	1	<1
Paraquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:06	10	---	1	<1
Glyphosate [ug/L]	03-Sep-13	10:09	06-Sep-13	09:06	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	03-Sep-13	07:51	04-Sep-13	15:13	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	0.01	---	0.004	<0.004
Alachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	5	---	0.02	<0.02
Aldicarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	0.7	---	0.01	<0.01
Aldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	--	---	0.01	<0.01
Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	5	---	0.01	0.05
Atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	--	---	0.01	0.05
Desethyl atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	20	---	0.02	<0.02
Bendiocarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	40	---	0.01	<0.01
Carbaryl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	90	---	0.01	<0.01
Carbofuran [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	90	---	0.01	<0.01
Chlordane (total) [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	7	---	0.01	<0.01
a-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	--	---	0.01	<0.01
g-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	--	---	0.01	<0.01
Oxychlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	90	---	0.02	<0.02
Cyanazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	10	---	0.03	<0.03
Diazinon [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	20	---	0.02	<0.02

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Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Bridge 44
(DDT) + Metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	30	---	0.01	<0.01
op-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	--	---	0.01	<0.01
pp-DDD [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	--	---	0.01	<0.01
pp-DDE [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	--	---	0.01	<0.01
pp-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	--	---	0.01	<0.01
Dimethoate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	20	---	0.03	<0.03
Diuron [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	3	---	0.01	<0.01
Heptachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	--	---	0.01	<0.01
Lindane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	4	---	0.01	<0.01
Malathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	190	---	0.02	<0.02
Methoxychlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	900	---	0.01	<0.01
Metolachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	50	---	0.01	<0.01
Metribuzin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	80	---	0.02	<0.02
Parathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	50	---	0.02	<0.02
Phorate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	2	---	0.01	<0.01
Prometryne [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	1	---	0.03	<0.03
Simazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	10	---	0.01	<0.01
Temephos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	280	---	0.01	<0.01
Terbufos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	1	---	0.01	<0.01
Triallate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	230	---	0.01	<0.01
Trifluralin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:02	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:50	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:50	280	20	0.22	<0.22
Bromoxynil [ug/L]	03-Sep-13	07:40	05-Sep-13	11:50	5	---	0.33	<0.33
Dicamba [ug/L]	03-Sep-13	07:40	05-Sep-13	11:50	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	03-Sep-13	07:40	05-Sep-13	11:50	9	---	0.4	<0.40
Dinoseb [ug/L]	03-Sep-13	07:40	05-Sep-13	11:50	10	---	0.36	<0.36
Picloram [ug/L]	03-Sep-13	07:40	05-Sep-13	11:50	190	---	1	<1

Online LIMS

0000015197



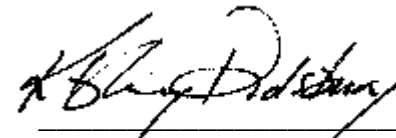
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Bridge 44
2,4-dichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:50	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:50	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:50	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:50	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.



\_\_\_\_\_  
 Kimberley Didsbury  
 Project Specialist  
 Environmental Services, Analytical



SGS Canada Inc.

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**Trent-Severn Waterway (Northern Sector)**

Attn : Chuck Wilkinson

2023 Kirkfield Road  
Kirkfield, ON  
K0M 2B0,

Phone: 705-438-3153 or 705-887-8390 (cell)  
Fax:705-438-5201

06-September-2013

Date Rec. : 30 August 2013  
LR Report: CA15405-AUG13

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# CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Bridge 50
Sample Date & Time								28-Aug-13 11:55
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	20.0
Fluoride [mg/L]	30-Aug-13	20:55	04-Sep-13	11:34	1.5	---	0.06	< 0.06
Antimony [ug/L]	05-Sep-13	12:30	06-Sep-13	11:44	6	---	0.02	0.07
Arsenic [ug/L]	05-Sep-13	12:30	06-Sep-13	11:44	25	---	0.2	0.3
Barium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:44	1000	---	0.01	19.0
Boron [ug/L]	05-Sep-13	12:30	06-Sep-13	11:44	5000	---	0.2	19
Cadmium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:44	5	---	0.003	0.005
Chromium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:44	50	---	0.5	<0.5
Mercury [ug/L]	04-Sep-13	11:43	04-Sep-13	12:27	1	---	0.01	0.02
Sodium [mg/L]	05-Sep-13	12:30	06-Sep-13	11:44	20	200	0.01	6.57
Selenium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:44	10	---	1	<1
Uranium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:44	20	---	0.001	0.091
Benzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	14	---	0.33	<0.33

Online LIMS

0000015168



SGS Canada Inc.

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LR Report : CA15405-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Bridge 50
1,2-Dichloroethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	5	---	0.35	<0.35
Dichloromethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	80	30	0.30	<0.30
Tetrachloroethylene (perchloroethylene) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	30	---	0.35	<0.35
Trichloroethylene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	2	---	0.17	<0.17
Diquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:18	70	---	1	<1
Paraquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:18	10	---	1	<1
Glyphosate [ug/L]	03-Sep-13	10:09	06-Sep-13	09:18	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	03-Sep-13	07:51	04-Sep-13	15:15	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	0.01	---	0.004	<0.004
Alachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	5	---	0.02	<0.02
Aldicarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	0.7	---	0.01	<0.01
Aldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	5	---	0.01	0.04
Atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	0.04
Desethyl atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	20	---	0.02	<0.02
Bendiocarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	40	---	0.01	<0.01
Carbaryl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	90	---	0.01	<0.01
Carbofuran [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	90	---	0.01	<0.01
Chlordane (total) [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	7	---	0.01	<0.01
a-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
g-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Oxychlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	90	---	0.02	<0.02
Cyanazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	10	---	0.03	<0.03
Diazinon [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	20	---	0.02	<0.02

Online LIMS

0000015168



SGS Canada Inc.

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA15405-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Bridge 50
(DDT) + Metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	30	---	0.01	<0.01
op-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
pp-DDD [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
pp-DDE [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
pp-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Dimethoate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	20	---	0.03	<0.03
Diuron [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	3	---	0.01	<0.01
Heptachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Lindane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	4	---	0.01	<0.01
Malathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	190	---	0.02	<0.02
Methoxychlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	900	---	0.01	<0.01
Metolachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	50	---	0.01	<0.01
Metribuzin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	80	---	0.02	<0.02
Parathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	50	---	0.02	<0.02
Phorate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	2	---	0.01	<0.01
Prometryne [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	1	---	0.03	<0.03
Simazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	10	---	0.01	<0.01
Temephos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	280	---	0.01	<0.01
Terbufos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	1	---	0.01	<0.01
Triallate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	230	---	0.01	<0.01
Trifluralin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	03-Sep-13	07:40	05-Sep-13	12:00	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	03-Sep-13	07:40	05-Sep-13	12:00	280	20	0.22	<0.22
Bromoxynil [ug/L]	03-Sep-13	07:40	05-Sep-13	12:00	5	---	0.33	<0.33
Dicamba [ug/L]	03-Sep-13	07:40	05-Sep-13	12:00	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	03-Sep-13	07:40	05-Sep-13	12:00	9	---	0.4	<0.40
Dinoseb [ug/L]	03-Sep-13	07:40	05-Sep-13	12:00	10	---	0.36	<0.36
Picloram [ug/L]	03-Sep-13	07:40	05-Sep-13	12:00	190	---	1	<1

Online LIMS

0000015168

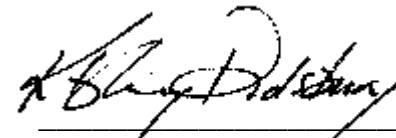
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Bridge 50
2,4-dichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	12:00	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	12:00	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	12:00	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	12:00	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.



Kimberley Didsbury  
 Project Specialist  
 Environmental Services, Analytical



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**Trent-Severn Waterway (Northern Sector)**

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K0M 2B0,

Phone: 705-438-3153 or 705-887-8390 (cell)  
Fax:705-438-5201

06-September-2013

Date Rec. : 30 August 2013  
LR Report: CA15392-AUG13

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Hamlet
Sample Date & Time								29-Aug-13 09:50
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	20.0
Fluoride [mg/L]	30-Aug-13	20:55	04-Sep-13	11:31	1.5	---	0.06	< 0.06
Antimony [ug/L]	05-Sep-13	12:30	06-Sep-13	11:35	6	---	0.02	0.06
Arsenic [ug/L]	05-Sep-13	12:30	06-Sep-13	11:35	25	---	0.2	0.5
Barium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:35	1000	---	0.01	28.3
Boron [ug/L]	05-Sep-13	12:30	06-Sep-13	11:35	5000	---	0.2	20
Cadmium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:35	5	---	0.003	<0.002
Chromium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:35	50	---	0.5	<0.5
Mercury [ug/L]	04-Sep-13	11:43	04-Sep-13	12:26	1	---	0.01	< 0.01
Sodium [mg/L]	05-Sep-13	12:30	06-Sep-13	11:36	20	200	0.01	23.9
Selenium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:36	10	---	1	<1
Uranium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:36	20	---	0.001	0.198
Benzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	14	---	0.33	<0.33

Online LIMS

0000015192



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LR Report : CA15392-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Hamlet
1,2-Dichloroethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	5	---	0.35	<0.35
Dichloromethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	80	30	0.30	<0.30
Tetrachloroethylene (perchloroethylene) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	30	---	0.35	<0.35
Trichloroethylene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	2	---	0.17	<0.17
Diquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:07	70	---	1	<1
Paraquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:07	10	---	1	<1
Glyphosate [ug/L]	03-Sep-13	10:09	06-Sep-13	09:07	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	03-Sep-13	07:51	04-Sep-13	15:13	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	0.01	---	0.004	<0.004
Alachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	5	---	0.02	<0.02
Aldicarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	0.7	---	0.01	<0.01
Aldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	5	---	0.01	0.01
Atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	0.01
Desethyl atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	20	---	0.02	<0.02
Bendiocarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	40	---	0.01	<0.01
Carbaryl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	90	---	0.01	<0.01
Carbofuran [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	90	---	0.01	<0.01
Chlordane (total) [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	7	---	0.01	<0.01
a-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
g-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Oxychlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	90	---	0.02	<0.02
Cyanazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	10	---	0.03	<0.03
Diazinon [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	20	---	0.02	<0.02

Online LIMS

0000015192



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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA15392-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Hamlet
(DDT) + Metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	30	---	0.01	<0.01
op-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
pp-DDD [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
pp-DDE [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
pp-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Dimethoate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	20	---	0.03	<0.03
Diuron [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	3	---	0.01	<0.01
Heptachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Lindane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	4	---	0.01	<0.01
Malathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	190	---	0.02	<0.02
Methoxychlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	900	---	0.01	<0.01
Metolachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	50	---	0.01	<0.01
Metribuzin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	80	---	0.02	<0.02
Parathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	50	---	0.02	<0.02
Phorate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	2	---	0.01	<0.01
Prometryne [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	1	---	0.03	<0.03
Simazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	10	---	0.01	<0.01
Temephos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	280	---	0.01	<0.01
Terbufos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	1	---	0.01	<0.01
Triallate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	230	---	0.01	<0.01
Trifluralin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:51	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:51	280	20	0.22	<0.22
Bromoxynil [ug/L]	03-Sep-13	07:40	05-Sep-13	11:51	5	---	0.33	<0.33
Dicamba [ug/L]	03-Sep-13	07:40	05-Sep-13	11:51	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	03-Sep-13	07:40	05-Sep-13	11:51	9	---	0.4	<0.40
Dinoseb [ug/L]	03-Sep-13	07:40	05-Sep-13	11:51	10	---	0.36	<0.36
Picloram [ug/L]	03-Sep-13	07:40	05-Sep-13	11:51	190	---	1	<1

Online LIMS

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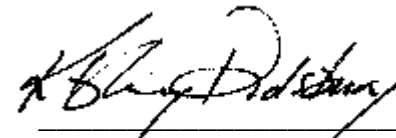
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Hamlet
2,4-dichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:51	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:51	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:51	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:51	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.



\_\_\_\_\_  
 Kimberley Didsbury  
 Project Specialist  
 Environmental Services, Analytical



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**Trent-Severn Waterway (Southern Area)**

Attn : Trevor Tinney

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K0L 1L0,

Phone: 705-653-3240 or 705-772-9655 (cell)  
Fax:705-653-2053

16-August-2013

Date Rec. : 09 August 2013  
LR Report: CA14272-AUG13

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# CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR BR Bridge
Sample Date & Time								08-Aug-13 10:45
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	20.0
Fluoride [mg/L]	12-Aug-13	12:33	13-Aug-13	14:26	1.5	---	0.06	0.15
Antimony [ug/L]	12-Aug-13	12:14	12-Aug-13	16:39	6	---	0.02	0.30
Arsenic [ug/L]	12-Aug-13	12:14	12-Aug-13	16:39	25	---	0.2	0.5
Barium [ug/L]	12-Aug-13	12:14	12-Aug-13	16:39	1000	---	0.01	110
Boron [ug/L]	12-Aug-13	12:14	12-Aug-13	16:39	5000	---	0.2	40
Cadmium [ug/L]	12-Aug-13	12:14	12-Aug-13	16:39	5	---	0.003	0.011
Chromium [ug/L]	12-Aug-13	12:14	12-Aug-13	16:39	50	---	0.5	1.1
Mercury [ug/L]	14-Aug-13	11:30	14-Aug-13	13:23	1	---	0.01	<0.01
Sodium [mg/L]	12-Aug-13	12:14	12-Aug-13	16:39	20	200	0.01	66.3
Selenium [ug/L]	12-Aug-13	12:14	12-Aug-13	16:39	10	---	1	< 1
Uranium [ug/L]	12-Aug-13	12:14	12-Aug-13	16:39	20	---	0.001	1.55
Benzene [ug/L]	09-Aug-13	16:11	14-Aug-13	12:09	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	09-Aug-13	16:11	14-Aug-13	12:09	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	09-Aug-13	16:11	14-Aug-13	12:09	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	09-Aug-13	16:11	14-Aug-13	12:09	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	09-Aug-13	16:11	14-Aug-13	12:09	14	---	0.33	<0.33

Online LIMS

0000011433



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LR Report : CA14272-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR BR Bridge
1,2-Dichloroethane [ug/L]	09-Aug-13	16:11	14-Aug-13	12:09	5	---	0.35	<0.35
Dichloromethane [ug/L]	09-Aug-13	16:11	14-Aug-13	12:09	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	09-Aug-13	16:11	14-Aug-13	12:09	80	30	0.30	<0.3
Tetrachloroethylene (perchloroethylene) [ug/L]	09-Aug-13	16:11	14-Aug-13	12:09	30	---	0.35	<0.35
Trichloroethylene [ug/L]	09-Aug-13	16:11	14-Aug-13	12:09	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	09-Aug-13	16:11	14-Aug-13	12:09	2	---	0.17	<0.17
Diquat [ug/L]	12-Aug-13	10:21	13-Aug-13	12:46	70	---	1	<1
Paraquat [ug/L]	12-Aug-13	10:21	13-Aug-13	12:46	10	---	1	<1
Glyphosate [ug/L]	12-Aug-13	10:20	13-Aug-13	10:56	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	13-Aug-13	07:42	14-Aug-13	10:01	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	0.01	---	0.004	<0.004
Alachlor [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	5	---	0.02	<0.02
Aldicarb [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	0.7	---	0.01	<0.01
Aldrin [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
Dieldrin [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	5	---	0.01	<0.01
Atrazine [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
Desethyl atrazine [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	20	---	0.02	<0.02
Bendiocarb [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	40	---	0.01	<0.01
Carbaryl [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	90	---	0.01	<0.01
Carbofuran [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	90	---	0.01	<0.01
Chlordane (total) [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	7	---	0.01	<0.01
a-chlordane [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
g-chlordane [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
Oxychlordane [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	90	---	0.02	<0.02
Cyanazine [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	10	---	0.03	<0.03
Diazinon [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	20	---	0.02	<0.02

Online LIMS

0000011433



SGS Canada Inc.

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LR Report : CA14272-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR BR Bridge
(DDT) + Metabolites [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	30	---	0.01	<0.01
op-DDT [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
pp-DDD [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
pp-DDE [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
pp-DDT [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
Dimethoate [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	20	---	0.03	<0.03
Diuron [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	3	---	0.01	<0.01
Heptachlor [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
Lindane [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	4	---	0.01	<0.01
Malathion [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	190	---	0.02	<0.02
Methoxychlor [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	900	---	0.01	<0.01
Metolachlor [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	50	---	0.01	<0.01
Metribuzin [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	80	---	0.02	<0.02
Parathion [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	50	---	0.02	<0.02
Phorate [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	2	---	0.01	<0.01
Prometryne [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	1	---	0.03	<0.03
Simazine [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	10	---	0.01	<0.01
Temephos [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	280	---	0.01	<0.01
Terbufos [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	1	---	0.01	<0.01
Triallate [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	230	---	0.01	<0.01
Trifluralin [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	13-Aug-13	06:25	16-Aug-13	09:43	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	13-Aug-13	06:25	16-Aug-13	09:43	280	20	0.22	<0.22
Bromoxynil [ug/L]	13-Aug-13	06:25	16-Aug-13	09:43	5	---	0.33	<0.33
Dicamba [ug/L]	13-Aug-13	06:25	16-Aug-13	09:43	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	13-Aug-13	06:25	16-Aug-13	09:43	9	---	0.4	<0.40
Dinoseb [ug/L]	13-Aug-13	06:25	16-Aug-13	09:43	10	---	0.36	<0.36
Picloram [ug/L]	13-Aug-13	06:25	16-Aug-13	09:43	190	---	1	<1

Online LIMS

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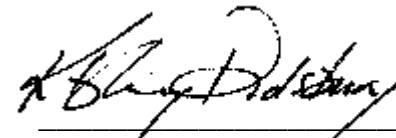
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR BR Bridge
2,4-dichlorophenol [ug/L]	13-Aug-13	06:25	16-Aug-13	09:43	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	13-Aug-13	06:25	16-Aug-13	09:43	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	13-Aug-13	06:25	16-Aug-13	09:43	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	13-Aug-13	06:25	16-Aug-13	09:43	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.



\_\_\_\_\_  
 Kimberley Didsbury  
 Project Specialist  
 Environmental Services, Analytical



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**Trent-Severn Waterway (Southern Area)**

Attn : Trevor Tinney

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Phone: 705-653-3240 or 705-772-9655 (cell)  
Fax:705-653-2053

16-August-2013

Date Rec. : 09 August 2013  
LR Report: CA14271-AUG13

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# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Carrying Place Bridge
Sample Date & Time								08-Aug-13 11:30
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	20.0
Fluoride [mg/L]	12-Aug-13	12:33	13-Aug-13	14:25	1.5	---	0.06	0.06
Antimony [ug/L]	12-Aug-13	12:14	12-Aug-13	16:39	6	---	0.02	0.64
Arsenic [ug/L]	12-Aug-13	12:14	12-Aug-13	16:39	25	---	0.2	0.4
Barium [ug/L]	12-Aug-13	12:14	12-Aug-13	16:39	1000	---	0.01	13.3
Boron [ug/L]	12-Aug-13	12:14	12-Aug-13	16:39	5000	---	0.2	7.4
Cadmium [ug/L]	12-Aug-13	12:14	12-Aug-13	16:39	5	---	0.003	< 0.003
Chromium [ug/L]	12-Aug-13	12:14	12-Aug-13	16:39	50	---	0.5	0.7
Mercury [ug/L]	14-Aug-13	11:30	14-Aug-13	13:23	1	---	0.01	<0.01
Sodium [mg/L]	12-Aug-13	12:14	12-Aug-13	16:39	20	200	0.01	12.9
Selenium [ug/L]	12-Aug-13	12:14	12-Aug-13	16:39	10	---	1	< 1
Uranium [ug/L]	12-Aug-13	12:14	12-Aug-13	16:39	20	---	0.001	0.555
Benzene [ug/L]	09-Aug-13	16:11	14-Aug-13	12:08	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	09-Aug-13	16:11	14-Aug-13	12:08	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	09-Aug-13	16:11	14-Aug-13	12:08	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	09-Aug-13	16:11	14-Aug-13	12:08	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	09-Aug-13	16:11	14-Aug-13	12:08	14	---	0.33	<0.33

Online LIMS

0000011432



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LR Report : CA14271-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Carrying Place Bridge
1,2-Dichloroethane [ug/L]	09-Aug-13	16:11	14-Aug-13	12:08	5	---	0.35	<0.35
Dichloromethane [ug/L]	09-Aug-13	16:11	14-Aug-13	12:08	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	09-Aug-13	16:11	14-Aug-13	12:08	80	30	0.30	<0.3
Tetrachloroethylene (perchloroethylene) [ug/L]	09-Aug-13	16:11	14-Aug-13	12:08	30	---	0.35	<0.35
Trichloroethylene [ug/L]	09-Aug-13	16:11	14-Aug-13	12:08	5	---	0.44	1.5
Vinyl Chloride [ug/L]	09-Aug-13	16:11	14-Aug-13	12:08	2	---	0.17	<0.17
Diquat [ug/L]	12-Aug-13	10:21	13-Aug-13	12:45	70	---	1	<10
Paraquat [ug/L]	12-Aug-13	10:21	13-Aug-13	12:45	10	---	1	<10
Glyphosate [ug/L]	12-Aug-13	10:20	13-Aug-13	10:56	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	13-Aug-13	07:42	14-Aug-13	10:00	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	0.01	---	0.004	<0.004
Alachlor [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	5	---	0.02	<0.02
Aldicarb [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	0.7	---	0.01	<0.01
Aldrin [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
Dieldrin [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	5	---	0.01	<0.01
Atrazine [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
Desethyl atrazine [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	20	---	0.02	<0.02
Bendiocarb [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	40	---	0.01	<0.01
Carbaryl [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	90	---	0.01	<0.01
Carbofuran [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	90	---	0.01	<0.01
Chlordane (total) [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	7	---	0.01	<0.01
a-chlordane [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
g-chlordane [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
Oxychlordane [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	90	---	0.02	<0.02
Cyanazine [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	10	---	0.03	<0.03
Diazinon [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	20	---	0.02	<0.02

Online LIMS

0000011432



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA14271-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Carrying Place Bridge
(DDT) + Metabolites [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	30	---	0.01	<0.01
op-DDT [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
pp-DDD [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
pp-DDE [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
pp-DDT [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
Dimethoate [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	20	---	0.03	<0.03
Diuron [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	3	---	0.01	<0.01
Heptachlor [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	--	---	0.01	<0.01
Lindane [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	4	---	0.01	<0.01
Malathion [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	190	---	0.02	<0.02
Methoxychlor [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	900	---	0.01	<0.01
Metolachlor [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	50	---	0.01	<0.01
Metribuzin [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	80	---	0.02	<0.02
Parathion [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	50	---	0.02	<0.02
Phorate [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	2	---	0.01	<0.01
Prometryne [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	1	---	0.03	<0.03
Simazine [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	10	---	0.01	<0.01
Temephos [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	280	---	0.01	<0.01
Terbufos [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	1	---	0.01	<0.01
Triallate [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	230	---	0.01	<0.01
Trifluralin [ug/L]	12-Aug-13	08:04	14-Aug-13	08:02	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	13-Aug-13	06:25	16-Aug-13	09:43	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	13-Aug-13	06:25	16-Aug-13	09:43	280	20	0.22	<0.22
Bromoxynil [ug/L]	13-Aug-13	06:25	16-Aug-13	09:43	5	---	0.33	<0.33
Dicamba [ug/L]	13-Aug-13	06:25	16-Aug-13	09:43	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	13-Aug-13	06:25	16-Aug-13	09:43	9	---	0.4	<0.40
Dinoseb [ug/L]	13-Aug-13	06:25	16-Aug-13	09:43	10	---	0.36	<0.36
Picloram [ug/L]	13-Aug-13	06:25	16-Aug-13	09:43	190	---	1	<1

Online LIMS

0000011432



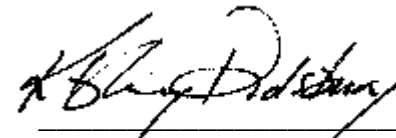
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Carrying Place Bridge
2,4-dichlorophenol [ug/L]	13-Aug-13	06:25	16-Aug-13	09:43	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	13-Aug-13	06:25	16-Aug-13	09:43	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	13-Aug-13	06:25	16-Aug-13	09:43	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	13-Aug-13	06:25	16-Aug-13	09:43	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.



Kimberley Didsbury  
 Project Specialist  
 Environmental Services, Analytical



SGS Canada Inc.

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### Trent-Severn Waterway (Haliburton Sector)

Attn : Ryan Hamersma / Greg Cooper

PO Box 249  
Haliburton, ON  
K0M 1S0,

Phone: 705-457-2632

Fax:705-457-3433

13-September-2013

Date Rec. : 05 September 2013

LR Report: CA14158-SEP13

Copy: #1

# CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Kitchen Sink
Sample Date & Time								05-Sep-13 09:07
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	13.0
Fluoride [mg/L]	06-Sep-13	11:53	09-Sep-13	08:36	1.5	---	0.06	0.08
Antimony [ug/L]	11-Sep-13	09:49	12-Sep-13	09:31	6	---	0.02	0.03
Arsenic [ug/L]	11-Sep-13	09:49	12-Sep-13	09:31	25	---	0.2	<0.2
Barium [ug/L]	11-Sep-13	09:49	12-Sep-13	09:31	1000	---	0.01	101
Boron [ug/L]	11-Sep-13	09:49	12-Sep-13	09:31	5000	---	0.2	19
Cadmium [ug/L]	11-Sep-13	09:49	12-Sep-13	09:31	5	---	0.003	0.035
Chromium [ug/L]	11-Sep-13	09:49	12-Sep-13	09:31	50	---	0.5	0.5
Mercury [ug/L]	10-Sep-13	11:30	10-Sep-13	12:53	1	---	0.01	< 0.01
Sodium [mg/L]	11-Sep-13	09:49	12-Sep-13	09:31	20	200	0.01	31.8
Selenium [ug/L]	11-Sep-13	09:49	12-Sep-13	09:31	10	---	1	<1
Uranium [ug/L]	11-Sep-13	09:49	12-Sep-13	09:31	20	---	0.001	0.104
Benzene [ug/L]	06-Sep-13	12:52	09-Sep-13	09:29	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	06-Sep-13	12:52	09-Sep-13	09:29	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	06-Sep-13	12:52	09-Sep-13	09:29	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	06-Sep-13	12:52	09-Sep-13	09:29	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	06-Sep-13	12:52	09-Sep-13	09:29	14	---	0.33	<0.33

Online LIMS

0000018211



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA14158-SEP13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Kitchen Sink
1,2-Dichloroethane [ug/L]	06-Sep-13	12:52	09-Sep-13	09:29	5	---	0.35	<0.35
Dichloromethane [ug/L]	06-Sep-13	12:52	09-Sep-13	09:29	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	06-Sep-13	12:52	09-Sep-13	09:29	80	30	0.30	<0.3
Tetrachloroethylene (perchloroethylene) [ug/L]	06-Sep-13	12:52	09-Sep-13	09:29	30	---	0.35	<0.35
Trichloroethylene [ug/L]	06-Sep-13	12:52	09-Sep-13	09:29	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	06-Sep-13	12:52	09-Sep-13	09:29	2	---	0.17	<0.17
Diquat [ug/L]	09-Sep-13	08:37	11-Sep-13	12:54	70	---	1	<1
Paraquat [ug/L]	09-Sep-13	08:37	11-Sep-13	12:54	10	---	1	<1
Glyphosate [ug/L]	09-Sep-13	10:07	11-Sep-13	12:54	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	10-Sep-13	08:07	12-Sep-13	14:28	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	0.01	---	0.004	<0.004
Alachlor [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	5	---	0.02	<0.02
Aldicarb [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	0.7	---	0.01	<0.01
Aldrin [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	--	---	0.01	<0.01
Dieldrin [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	5	---	0.01	<0.01
Atrazine [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	--	---	0.01	<0.01
Desethyl atrazine [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	20	---	0.02	<0.02
Bendiocarb [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	40	---	0.01	<0.01
Carbaryl [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	90	---	0.01	<0.01
Carbofuran [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	90	---	0.01	<0.01
Chlordane (total) [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	7	---	0.01	<0.01
a-chlordane [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	--	---	0.01	<0.01
g-chlordane [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	--	---	0.01	<0.01
Oxychlordane [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	90	---	0.02	<0.02
Cyanazine [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	10	---	0.03	<0.03
Diazinon [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	20	---	0.02	<0.02

Online LIMS

0000018211



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA14158-SEP13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Kitchen Sink
(DDT) + Metabolites [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	30	---	0.01	<0.01
op-DDT [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	--	---	0.01	<0.01
pp-DDD [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	--	---	0.01	<0.01
pp-DDE [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	--	---	0.01	<0.01
pp-DDT [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	--	---	0.01	<0.01
Dimethoate [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	20	---	0.03	<0.03
Diuron [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	3	---	0.01	<0.01
Heptachlor [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	--	---	0.01	<0.01
Lindane [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	4	---	0.01	<0.01
Malathion [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	190	---	0.02	<0.02
Methoxychlor [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	900	---	0.01	<0.01
Metolachlor [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	50	---	0.01	<0.01
Metribuzin [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	80	---	0.02	<0.02
Parathion [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	50	---	0.02	<0.02
Phorate [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	2	---	0.01	<0.01
Prometryne [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	1	---	0.03	<0.03
Simazine [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	10	---	0.01	<0.01
Temephos [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	280	---	0.01	<0.01
Terbufos [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	1	---	0.01	<0.01
Triallate [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	230	---	0.01	<0.01
Trifluralin [ug/L]	06-Sep-13	06:57	11-Sep-13	10:23	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	12-Sep-13	09:09	13-Sep-13	14:50	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	12-Sep-13	09:09	13-Sep-13	14:50	280	20	0.22	<0.22
Bromoxynil [ug/L]	12-Sep-13	09:09	13-Sep-13	14:50	5	---	0.33	<0.33
Dicamba [ug/L]	12-Sep-13	09:09	13-Sep-13	14:50	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	12-Sep-13	09:09	13-Sep-13	14:50	9	---	0.4	<0.40
Dinoseb [ug/L]	09-Sep-13	07:27	13-Sep-13	14:50	10	---	0.36	<0.36
Picloram [ug/L]	12-Sep-13	09:09	13-Sep-13	14:50	190	---	1	<1

Online LIMS

0000018211

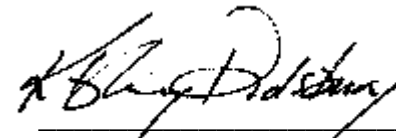
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Kitchen Sink
2,4-dichlorophenol [ug/L]	12-Sep-13	09:09	13-Sep-13	14:50	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	12-Sep-13	09:09	13-Sep-13	14:50	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	12-Sep-13	09:09	13-Sep-13	14:50	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	12-Sep-13	09:09	13-Sep-13	14:50	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.



\_\_\_\_\_  
 Kimberley Didsbury  
 Project Specialist  
 Environmental Services, Analytical



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
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**Trent-Severn Waterway (Northern Sector)**

Attn : Chuck Wilkinson

2023 Kirkfield Road  
Kirkfield, ON  
K0M 2B0,

Phone: 705-438-3153 or 705-887-8390 (cell)  
Fax:705-438-5201

06-September-2013

Date Rec. : 30 August 2013  
LR Report: CA15399-AUG13

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Kirkfield Shop
Sample Date & Time								29-Aug-13 08:20
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	18.0
Fluoride [mg/L]	30-Aug-13	20:55	04-Sep-13	11:34	1.5	---	0.06	0.35
Antimony [ug/L]	05-Sep-13	12:30	06-Sep-13	11:38	6	---	0.02	0.15
Arsenic [ug/L]	05-Sep-13	12:30	06-Sep-13	11:38	25	---	0.2	0.2
Barium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:38	1000	---	0.01	0.22
Boron [ug/L]	05-Sep-13	12:30	06-Sep-13	11:38	5000	---	0.2	179
Cadmium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:38	5	---	0.003	<0.003
Chromium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:38	50	---	0.5	0.6
Mercury [ug/L]	04-Sep-13	11:43	04-Sep-13	12:27	1	---	0.01	< 0.01
Sodium [mg/L]	05-Sep-13	12:30	06-Sep-13	11:39	20	200	0.01	141
Selenium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:39	10	---	1	<1
Uranium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:39	20	---	0.001	0.028
Benzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	14	---	0.33	<0.33

Online LIMS

0000015176



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA15399-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Kirkfield Shop
1,2-Dichloroethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	5	---	0.35	<0.35
Dichloromethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	80	30	0.30	<0.30
Tetrachloroethylene (perchloroethylene) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	30	---	0.35	<0.35
Trichloroethylene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	2	---	0.17	<0.17
Diquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:13	70	---	1	<1
Paraquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:13	10	---	1	<1
Glyphosate [ug/L]	03-Sep-13	10:09	06-Sep-13	09:13	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	03-Sep-13	07:51	04-Sep-13	15:14	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	0.01	---	0.004	<0.004
Alachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	5	---	0.02	<0.02
Aldicarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	0.7	---	0.01	<0.01
Aldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	5	---	0.01	0.03
Atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	0.03
Desethyl atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	20	---	0.02	<0.02
Bendiocarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	40	---	0.01	<0.01
Carbaryl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	90	---	0.01	<0.01
Carbofuran [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	90	---	0.01	<0.01
Chlordane (total) [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	7	---	0.01	<0.01
a-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
g-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Oxychlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	90	---	0.02	<0.02
Cyanazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	10	---	0.03	<0.03
Diazinon [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	20	---	0.02	<0.02

Online LIMS

0000015176



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA15399-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Kirkfield Shop
(DDT) + Metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	30	---	0.01	<0.01
op-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
pp-DDD [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
pp-DDE [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
pp-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Dimethoate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	20	---	0.03	<0.03
Diuron [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	3	---	0.01	<0.01
Heptachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Lindane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	4	---	0.01	<0.01
Malathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	190	---	0.02	<0.02
Methoxychlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	900	---	0.01	<0.01
Metolachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	50	---	0.01	<0.01
Metribuzin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	80	---	0.02	<0.02
Parathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	50	---	0.02	<0.02
Phorate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	2	---	0.01	<0.01
Prometryne [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	1	---	0.03	<0.03
Simazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	10	---	0.01	<0.01
Temephos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	280	---	0.01	<0.01
Terbufos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	1	---	0.01	<0.01
Triallate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	230	---	0.01	<0.01
Trifluralin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	280	20	0.22	<0.22
Bromoxynil [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	5	---	0.33	<0.33
Dicamba [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	9	---	0.4	<0.40
Dinoseb [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	10	---	0.36	<0.36
Picloram [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	190	---	1	<1

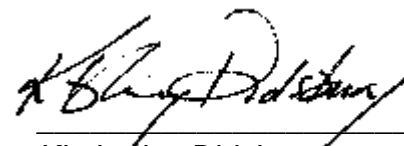
Online LIMS

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Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Kirkfield Shop
2,4-dichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration  
AO/OG - Aesthetic Objective / Operational Guideline  
MDL - SGS Method Detection Limit  
NR - Not reportable under applicable Provincial drinking water regulations as per client.




---

Kimberley Didsbury  
Project Specialist  
Environmental Services, Analytical



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

**Trent-Severn Waterway (Southern Area)**

Attn : Greg Stencell

12 Trent Drive  
Campbellford, ON  
K0L 1L0,

Phone: 705-653-3240  
Fax:705-653-2053

03-August-2016

Date Rec. : 26 July 2016  
LR Report: CA18960-JUL16

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #4 Batawa
Sample Date & Time								26-Jul-16
Temperature Upon Receipt [°C]					--	---	---	21.0
Fluoride [mg/L]	26-Jul-16	13:48	28-Jul-16	10:41	1.5	---	0.06	0.07
Antimony [ug/L]	27-Jul-16	14:51	29-Jul-16	09:51	6	---	0.02	0.14
Arsenic [ug/L]	27-Jul-16	14:51	29-Jul-16	09:51	25	---	0.2	0.5
Barium [ug/L]	27-Jul-16	14:51	29-Jul-16	09:51	1000	---	0.01	41.9
Boron [ug/L]	27-Jul-16	14:51	29-Jul-16	09:51	5000	---	2.0	27
Cadmium [ug/L]	27-Jul-16	14:51	29-Jul-16	09:51	5	---	0.003	<0.003
Chromium [ug/L]	27-Jul-16	14:51	29-Jul-16	09:51	50	---	0.0	0.42
Mercury [ug/L]	28-Jul-16	06:05	28-Jul-16	08:16	1	---	0.01	0.05
Sodium [mg/L]	27-Jul-16	14:51	29-Jul-16	09:52	20	200	0.01	8.35
Selenium [ug/L]	27-Jul-16	14:51	29-Jul-16	09:52	10	---	0	0.12
Uranium [ug/L]	27-Jul-16	14:51	29-Jul-16	09:52	20	---	0.002	0.236
Benzene [ug/L]	27-Jul-16	16:51	28-Jul-16	12:40	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	27-Jul-16	16:51	28-Jul-16	12:40	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	27-Jul-16	16:51	28-Jul-16	12:40	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	27-Jul-16	16:51	28-Jul-16	12:40	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	27-Jul-16	16:51	28-Jul-16	12:40	14	---	0.33	<0.33
1,2-Dichloroethane [ug/L]	27-Jul-16	16:51	28-Jul-16	12:40	5	---	0.35	<0.35



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA18960-JUL16

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #4 Batawa
Dichloromethane [ug/L]	27-Jul-16	16:51	28-Jul-16	12:40	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	27-Jul-16	16:51	28-Jul-16	12:40	80	30	0.3	<0.3
Tetrachloroethylene (perchloroethylene) [ug/L]	27-Jul-16	16:51	28-Jul-16	12:40	30	---	0.35	<0.35
Trichloroethylene [ug/L]	27-Jul-16	16:51	28-Jul-16	12:40	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	27-Jul-16	16:51	28-Jul-16	12:40	2	---	0.17	<0.17
Diquat [ug/L]	29-Jul-16	12:55	02-Aug-16	15:01	70	---	1	<1
Paraquat [ug/L]	29-Jul-16	12:55	02-Aug-16	15:01	10	---	1	<1
Glyphosate [ug/L]	27-Jul-16	09:35	28-Jul-16	08:19	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	30-Jul-16	08:51	03-Aug-16	09:11	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	0.01	---	0.004	<0.004
Alachlor [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	5	---	0.02	<0.02
Aldicarb [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	0.7	---	0.01	<0.01
Aldrin [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	--	---	0.01	<0.01
Dieldrin [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	5	---	0.01	<0.01
Atrazine [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	--	---	0.01	<0.01
Desethyl atrazine [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	20	---	0.05	<0.05
Bendiocarb [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	40	---	0.01	<0.01
Carbaryl [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	90	---	0.05	<0.05
Carbofuran [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	90	---	0.01	<0.01
Chlordane (total) [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	7	---	0.01	<0.01
a-chlordane [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	--	---	0.01	<0.01
g-chlordane [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	--	---	0.01	<0.01
Oxychlordane [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	90	---	0.02	<0.02
Cyanazine [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	10	---	0.03	<0.03
Diazinon [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	20	---	0.02	<0.02
(DDT) + Metabolites [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	30	---	0.01	<0.01
op-DDT [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	--	---	0.01	<0.01
pp-DDD [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	--	---	0.01	<0.01

Online LIMS

0000746476



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA18960-JUL16

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #4 Batawa
pp-DDE [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	--	---	0.01	<0.01
pp-DDT [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	--	---	0.01	<0.01
Dimethoate [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	20	---	0.03	<0.03
Diuron [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	3	---	0.01	<0.01
Heptachlor [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	--	---	0.01	<0.01
Lindane [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	4	---	0.01	<0.01
Malathion [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	190	---	0.02	<0.02
Methoxychlor [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	900	---	0.01	<0.01
Metolachlor [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	50	---	0.01	<0.01
Metribuzin [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	80	---	0.02	<0.02
Parathion [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	50	---	0.02	<0.02
Phorate [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	2	---	0.01	<0.01
Prometryne [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	1	---	0.03	<0.03
Simazine [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	10	---	0.01	<0.01
Temephos [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	280	---	0.01	<0.01
Terbufos [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	1	---	0.01	<0.01
Triallate [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	230	---	0.01	<0.01
Trifluralin [ug/L]	27-Jul-16	06:43	02-Aug-16	15:30	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	28-Jul-16	06:34	29-Jul-16	14:58	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	28-Jul-16	06:34	29-Jul-16	14:58	280	20	0.22	<0.22
Bromoxynil [ug/L]	28-Jul-16	06:34	29-Jul-16	14:58	5	---	0.33	<0.33
Dicamba [ug/L]	28-Jul-16	06:34	29-Jul-16	14:58	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	28-Jul-16	06:34	29-Jul-16	14:58	9	---	0.4	<0.40
Dinoseb [ug/L]	28-Jul-16	06:34	29-Jul-16	14:58	10	---	0.36	<0.36
Picloram [ug/L]	28-Jul-16	06:34	29-Jul-16	14:58	190	---	1	<1
2,4-dichlorophenol [ug/L]	28-Jul-16	06:34	29-Jul-16	14:58	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	28-Jul-16	06:34	29-Jul-16	14:58	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	28-Jul-16	06:34	29-Jul-16	14:58	100	1	0.2	<0.20
Pentachlorophenol [ug/L]	28-Jul-16	06:34	29-Jul-16	14:58	60	30	0.15	<0.15

OnLine LIMS

0000746476



**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report :

**CA18960-JUL16**

MAC - Maximum Acceptable Concentration  
AO/OG - Aesthetic Objective / Operational Guideline  
MDL - SGS Method Detection Limit  
NR - Not reportable under applicable Provincial drinking water regulations as per client.

---

*Kimberley Didsbury*  
*Project Specialist*  
*Environmental Services, Analytical*



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

August-23-13

Trent-Severn Waterway (Southern Area)

Attn : Trevor Tinney

Date Rec. : 16 August 2013  
LR Report: CA14539-AUG13

12 Trent Drive  
Campbellford, ON  
K0L 1L0,

Copy: #1

Phone: 705-653-3240 or 705-772-9655 (cell)  
Fax:705-653-2053

CERTIFICATE OF ANALYSIS  
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 7
Sample Date & Time								15-Aug-13 13:30
Temperature Upon Receipt [°C]	---	---	--	--	--	---	--	11.0
Fluoride [mg/L]	19-Aug-13	12:55	19-Aug-13	13:45	1.5	---	0.06	0.08
Antimony [ug/L]	20-Aug-13	12:26	22-Aug-13	13:03	6	---	0.02	0.06
Arsenic [ug/L]	20-Aug-13	12:26	22-Aug-13	13:03	25	---	0.2	0.4
Barium [ug/L]	20-Aug-13	12:26	22-Aug-13	13:03	1000	---	0.01	40.4
Boron [ug/L]	20-Aug-13	12:26	22-Aug-13	13:03	5000	---	0.2	9.5
Cadmium [ug/L]	20-Aug-13	12:26	22-Aug-13	13:03	5	---	0.003	0.003 <MDL
Chromium [ug/L]	20-Aug-13	12:26	22-Aug-13	13:03	50	---	0.5	0.5 <MDL
Mercury [ug/L]	20-Aug-13	11:49	20-Aug-13	14:58	1	---	0.01	0.01 <MDL
Sodium [mg/L]	20-Aug-13	12:26	22-Aug-13	13:03	20	200	0.01	7.99
Selenium [ug/L]	20-Aug-13	12:26	22-Aug-13	13:03	10	---	1	1 <MDL
Uranium [ug/L]	20-Aug-13	12:26	22-Aug-13	13:03	20	---	0.001	0.185
Benzene [ug/L]	20-Aug-13	15:49	23-Aug-13	12:17	5	---	0.32	0.32 <MDL
Carbon tetrachloride [ug/L]	20-Aug-13	15:49	23-Aug-13	12:17	5	---	0.16	0.16 <MDL
1,2-Dichlorobenzene [ug/L]	20-Aug-13	15:49	23-Aug-13	12:17	200	3	0.41	0.41 <MDL
1,4-Dichlorobenzene [ug/L]	20-Aug-13	15:49	23-Aug-13	12:17	5	1	0.36	0.36 <MDL
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	20-Aug-13	15:49	23-Aug-13	12:17	14	---	0.33	0.33 <MDL
1,2-Dichloroethane [ug/L]	20-Aug-13	15:49	23-Aug-13	12:17	5	---	0.35	0.35 <MDL
Dichloromethane [ug/L]	20-Aug-13	15:49	23-Aug-13	12:17	50	---	0.35	1.2
Monochlorobenzene [ug/L]	20-Aug-13	15:49	23-Aug-13	12:17	80	30	0.30	0.3 <MDL
Tetrachloroethylene (perchloroethylene) [ug/L]	20-Aug-13	15:49	23-Aug-13	12:17	30	---	0.35	0.35 <MDL
Trichloroethylene [ug/L]	20-Aug-13	15:49	23-Aug-13	12:17	5	---	0.44	0.44 <MDL
Vinyl Chloride [ug/L]	20-Aug-13	15:49	23-Aug-13	12:17	2	---	0.17	0.17 <MDL
Diquat [ug/L]	21-Aug-13	08:33	22-Aug-13	14:41	70	---	1	1 <MDL
Paraquat [ug/L]	21-Aug-13	08:33	22-Aug-13	14:41	10	---	1	1 <MDL
Glyphosate [ug/L]	21-Aug-13	09:36	22-Aug-13	14:41	280	---	1	1 <MDL
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	19-Aug-13	09:21	21-Aug-13	08:54	3	---	0.04	0.04 <MDL
Benzo(a)pyrene [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	0.01	---	0.004	0.004 <MDL
Alachlor [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	5	---	0.02	0.02 <MDL
Aldicarb [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	9	---	0.01	0.01 <MDL
Aldrin + Dieldrin [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	0.7	---	0.01	0.01 <MDL
Aldrin [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	--	---	0.01	0.01 <MDL
Dieldrin [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	--	---	0.01	0.01 <MDL
Atrazine + N-dealkylated metabolites [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	5	---	0.01	0.01 <MDL
Atrazine [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	--	---	0.01	0.01 <MDL
Desethyl atrazine [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	--	---	0.01	0.01 <MDL
Azinphos-methyl [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	20	---	0.02	0.02 <MDL

Online LIMS

**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.  
 Lakefield - Ontario - KOL 2H0  
 Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA14539-AUG13

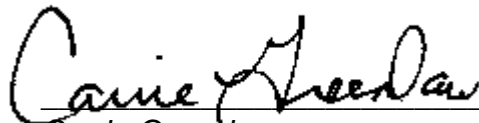
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 7
Bendiocarb [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	40	---	0.01	0.01 <MDL
Carbaryl [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	90	---	0.01	0.01 <MDL
Carbofuran [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	90	---	0.01	0.01 <MDL
Chlordane (total) [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	7	---	0.01	0.01 <MDL
a-chlordane [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	--	---	0.01	0.01 <MDL
g-chlordane [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	--	---	0.01	0.01 <MDL
Oxychlordane [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	--	---	0.01	0.01 <MDL
Chlorpyrifos [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	90	---	0.02	0.02 <MDL
Cyanazine [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	10	---	0.03	0.03 <MDL
Diazinon [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	20	---	0.02	0.02 <MDL
(DDT) + Metabolites [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	30	---	0.01	0.01 <MDL
op-DDT [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	--	---	0.01	0.01 <MDL
pp-DDD [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	--	---	0.01	0.01 <MDL
pp-DDE [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	--	---	0.01	0.01 <MDL
pp-DDT [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	--	---	0.01	0.01 <MDL
Dimethoate [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	20	---	0.03	0.03 <MDL
Diuron [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	150	---	0.03	0.03 <MDL
Heptachlor + Heptachlor Epoxide [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	3	---	0.01	0.01 <MDL
Heptachlor [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	--	---	0.01	0.01 <MDL
Heptachlor epoxide [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	--	---	0.01	0.01 <MDL
Lindane [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	4	---	0.01	0.01 <MDL
Malathion [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	190	---	0.02	0.02 <MDL
Methoxychlor [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	900	---	0.01	0.01 <MDL
Metolachlor [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	50	---	0.01	0.01 <MDL
Metribuzin [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	80	---	0.02	0.02 <MDL
Parathion [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	50	---	0.02	0.02 <MDL
Phorate [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	2	---	0.01	0.01 <MDL
Prometryne [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	1	---	0.03	0.03 <MDL
Simazine [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	10	---	0.01	0.01 <MDL
Temephos [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	280	---	0.01	0.01 <MDL
Terbufos [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	1	---	0.01	0.01 <MDL
Triallate [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	230	---	0.01	0.01 <MDL
Trifluralin [ug/L]	20-Aug-13	08:48	22-Aug-13	17:17	45	---	0.02	0.02 <MDL
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	19-Aug-13	08:59	22-Aug-13	14:36	100	---	0.19	0.19 <MDL
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	19-Aug-13	08:59	22-Aug-13	14:36	280	20	0.22	0.22 <MDL
Bromoxynil [ug/L]	19-Aug-13	08:59	22-Aug-13	14:36	5	---	0.33	0.33 <MDL
Dicamba [ug/L]	19-Aug-13	08:59	22-Aug-13	14:36	120	---	0.2	0.20 <MDL
Diclofop-methyl [ug/L]	19-Aug-13	08:59	22-Aug-13	14:36	9	---	0.4	0.40 <MDL
Dinoseb [ug/L]	19-Aug-13	08:59	22-Aug-13	14:36	10	---	0.36	0.36 <MDL
Picloram [ug/L]	19-Aug-13	08:59	22-Aug-13	14:36	190	---	1	1 <MDL
2,4-dichlorophenol [ug/L]	19-Aug-13	08:59	22-Aug-13	14:36	900	0.3	0.15	0.15 <MDL
2,4,6-trichlorophenol [ug/L]	19-Aug-13	08:59	22-Aug-13	14:36	5	2	0.25	0.25 <MDL
2,3,4,6-tetrachlorophenol [ug/L]	19-Aug-13	08:59	22-Aug-13	14:36	100	1	0.14	0.14 <MDL
Pentachlorophenol [ug/L]	19-Aug-13	08:59	22-Aug-13	14:36	60	30	0.15	0.15 <MDL

**SGS Canada Inc.**

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LR Report : CA14539-AUG13

MAC - Maximum Acceptable Concentration  
AO/OG - Aesthetic Objective / Operational Guideline  
MDL - SGS Method Detection Limit



*Carrie Greenlaw*  
Project Specialist  
Environmental Services, Analytical





SGS Canada Inc.

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**Trent-Severn Waterway (Southern Area)**

Attn : Greg Stencell

12 Trent Drive  
Campbellford, ON  
K0L 1L0,

Phone: 705-653-3240  
Fax:705-653-2053

05-October-2015

Date Rec. : 28 September 2015  
LR Report: CA14655-SEP15

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #8 Percy Reach	9: NR Lock #10
Sample Date & Time								28-Sep-15 13:20	28-Sep-15 14:10
Temperature Upon Receipt [°C]	---	---	---	---	--	---	---	19.0	19.0
Fluoride [mg/L]	29-Sep-15	09:18	30-Sep-15	11:24	1.5	---	0.06	0.07	0.06
Antimony [ug/L]	29-Sep-15	14:24	30-Sep-15	16:53	6	---	0.02	0.36	0.30
Arsenic [ug/L]	29-Sep-15	14:24	30-Sep-15	16:53	25	---	0.2	0.4	0.3
Barium [ug/L]	29-Sep-15	14:24	30-Sep-15	16:53	1000	---	0.02	34.4	32.6
Boron [ug/L]	29-Sep-15	14:24	30-Sep-15	16:53	5000	---	0.2	13.5	5.0
Cadmium [ug/L]	29-Sep-15	14:24	30-Sep-15	16:53	5	---	0.003	0.006	<0.0003
Chromium [ug/L]	29-Sep-15	14:24	30-Sep-15	16:53	50	---	0.0	<0.03	<0.03
Mercury [ug/L]	29-Sep-15	15:04	30-Sep-15	08:57	1	---	0.01	<0.01	<0.01
Sodium [mg/L]	29-Sep-15	14:24	30-Sep-15	16:53	20	200	0.01	9.51	9.58
Selenium [ug/L]	29-Sep-15	14:24	30-Sep-15	16:53	10	---	0	0.12	0.10
Uranium [ug/L]	29-Sep-15	14:24	30-Sep-15	16:53	20	---	0.002	0.216	0.324
Benzene [ug/L]	29-Sep-15	16:35	30-Sep-15	14:58	5	---	0.32	<0.32	<0.31
Carbon tetrachloride [ug/L]	29-Sep-15	16:35	30-Sep-15	14:58	5	---	0.16	<0.16	<0.16
1,2-Dichlorobenzene [ug/L]	29-Sep-15	16:35	30-Sep-15	14:58	200	3	0.41	<0.41	<0.41
1,4-Dichlorobenzene [ug/L]	29-Sep-15	16:35	30-Sep-15	14:58	5	1	0.36	<0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	29-Sep-15	16:35	30-Sep-15	14:58	14	---	0.33	<0.33	<0.33

Online LIMS

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SGS Canada Inc.

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LR Report :

CA14655-SEP15

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #8 Percy Reach	9: NR Lock #10
1,2-Dichloroethane [ug/L]	29-Sep-15	16:35	30-Sep-15	14:58	5	---	0.35	<0.35	<0.35
Dichloromethane [ug/L]	29-Sep-15	16:35	30-Sep-15	14:58	50	---	0.35	<0.35	<0.35
Monochlorobenzene [ug/L]	29-Sep-15	16:35	30-Sep-15	14:58	80	30	0.30	<0.3	<0.3
Tetrachloroethylene (perchloroethylene) [ug/L]	29-Sep-15	16:35	30-Sep-15	14:58	30	---	0.35	<0.35	<0.35
Trichloroethylene [ug/L]	29-Sep-15	16:35	30-Sep-15	14:58	5	---	0.44	<0.44	<0.44
Vinyl Chloride [ug/L]	29-Sep-15	16:35	30-Sep-15	14:58	2	---	0.17	<0.17	<0.17
Diquat [ug/L]	30-Sep-15	16:09	05-Oct-15	08:28	70	---	1	<1	<1
Paraquat [ug/L]	30-Sep-15	16:09	05-Oct-15	08:28	10	---	1	<1	<1
Glyphosate [ug/L]	29-Sep-15	16:21	30-Sep-15	09:17	280	---	1	<1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	30-Sep-15	07:57	05-Oct-15	11:45	3	---	0.04	<0.04	<0.04
Benzo(a)pyrene [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	0.01	---	0.004	<0.004	<0.004
Alachlor [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	5	---	0.02	<0.02	<0.02
Aldicarb [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	9	---	0.01	<0.01	<0.01
Aldrin + Dieldrin [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	0.7	---	0.01	<0.01	<0.01
Aldrin [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
Dieldrin [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	5	---	0.01	<0.01	<0.01
Atrazine [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
Desethyl atrazine [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
Azinphos-methyl [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	20	---	0.02	<0.05	<0.05
Bendiocarb [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	40	---	0.01	<0.01	<0.01
Carbaryl [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	90	---	0.01	<0.05	<0.05
Carbofuran [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	90	---	0.01	<0.01	<0.01
Chlordane (total) [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	7	---	0.01	<0.01	<0.01
a-chlordane [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
g-chlordane [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
Oxychlordane [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
Chlorpyrifos [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	90	---	0.02	<0.02	<0.02
Cyanazine [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	10	---	0.03	<0.03	<0.03
Diazinon [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	20	---	0.02	<0.02	<0.02

Online LIMS

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SGS Canada Inc.

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Lakefield - Ontario - K0L 2H0  
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LR Report : CA14655-SEP15

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #8 Percy Reach	9: NR Lock #10
(DDT) + Metabolites [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	30	---	0.01	<0.01	<0.01
op-DDT [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
pp-DDD [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
pp-DDE [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
pp-DDT [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
Dimethoate [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	20	---	0.03	<0.03	<0.03
Diuron [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	150	---	0.03	<0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	3	---	0.01	<0.01	<0.01
Heptachlor [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
Heptachlor epoxide [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
Lindane [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	4	---	0.01	<0.01	<0.01
Malathion [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	190	---	0.02	<0.02	<0.02
Methoxychlor [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	900	---	0.01	<0.01	<0.01
Metolachlor [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	50	---	0.01	<0.01	<0.01
Metribuzin [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	80	---	0.02	<0.02	<0.02
Parathion [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	50	---	0.02	<0.02	<0.02
Phorate [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	2	---	0.01	<0.01	<0.01
Prometryne [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	1	---	0.03	<0.03	<0.03
Simazine [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	10	---	0.01	<0.01	<0.01
Temephos [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	280	---	0.01	<0.01	<0.01
Terbufos [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	1	---	0.01	<0.01	<0.01
Triallate [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	230	---	0.01	<0.01	<0.01
Trifluralin [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	45	---	0.02	<0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	30-Sep-15	07:15	01-Oct-15	14:35	100	---	0.19	<0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	30-Sep-15	07:15	01-Oct-15	14:35	280	20	0.22	<0.22	<0.22
Bromoxynil [ug/L]	30-Sep-15	07:15	01-Oct-15	14:35	5	---	0.33	<0.33	<0.33
Dicamba [ug/L]	30-Sep-15	07:15	01-Oct-15	14:35	120	---	0.2	<0.20	<0.20
Diclofop-methyl [ug/L]	30-Sep-15	07:15	01-Oct-15	14:35	9	---	0.4	<0.40	<0.40
Dinoseb [ug/L]	30-Sep-15	07:15	01-Oct-15	14:35	10	---	0.36	<0.36	<0.36
Picloram [ug/L]	30-Sep-15	07:15	01-Oct-15	14:35	190	---	1	<1	<1

Online LIMS

0000521193



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Phone: 705-652-2000 FAX: 705-652-6365

LR Report :

CA14655-SEP15

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #8 Percy Reach	9: NR Lock #10
2,4-dichlorophenol [ug/L]	30-Sep-15	07:15	01-Oct-15	14:35	900	0.3	0.15	<0.15	<0.15
2,4,6-trichlorophenol [ug/L]	30-Sep-15	07:15	01-Oct-15	14:35	5	2	0.25	<0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	30-Sep-15	07:15	01-Oct-15	14:35	100	1	0.2	<0.20	<0.2.0
Pentachlorophenol [ug/L]	30-Sep-15	07:15	01-Oct-15	14:35	60	30	0.15	<0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.

Kimberley Didsbury  
Project Specialist  
Environmental Services, Analytical



SGS Canada Inc.

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21-October-2013

**Trent-Severn Waterway (Southern Area)**

Attn : Trevor Tinney

Date Rec. : 11 October 2013  
LR Report: CA14361-OCT13

12 Trent Drive  
Campbellford, ON  
K0L 1L0,

Copy: #1

Phone: 705-653-3240 or 705-772-9655 (cell)  
Fax:705-653-2053

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 9
Sample Date & Time								10-Oct-13 10:40
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	12.0
Fluoride [mg/L]	15-Oct-13	10:12	16-Oct-13	11:21	1.5	---	0.06	0.08
Antimony [ug/L]	16-Oct-13	14:50	17-Oct-13	15:32	6	---	0.02	0.05
Arsenic [ug/L]	16-Oct-13	14:50	17-Oct-13	15:32	25	---	0.2	0.5
Barium [ug/L]	16-Oct-13	14:50	17-Oct-13	15:32	1000	---	0.01	33.0
Boron [ug/L]	16-Oct-13	14:50	17-Oct-13	15:32	5000	---	0.2	11
Cadmium [ug/L]	16-Oct-13	14:50	17-Oct-13	15:32	5	---	0.003	0.006
Chromium [ug/L]	16-Oct-13	14:50	17-Oct-13	15:32	50	---	0.5	<0.5
Mercury [ug/L]	16-Oct-13	11:14	17-Oct-13	08:43	1	---	0.01	<0.01
Sodium [mg/L]	16-Oct-13	14:50	17-Oct-13	15:32	20	200	0.01	7.22
Selenium [ug/L]	16-Oct-13	14:50	17-Oct-13	15:32	10	---	1	<1
Uranium [ug/L]	16-Oct-13	14:50	17-Oct-13	15:32	20	---	0.001	0.228
Benzene [ug/L]	17-Oct-13	16:22	21-Oct-13	08:23	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	17-Oct-13	16:22	21-Oct-13	08:23	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	17-Oct-13	16:22	21-Oct-13	08:23	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	17-Oct-13	16:22	21-Oct-13	08:23	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	17-Oct-13	16:22	21-Oct-13	08:23	14	---	0.33	<0.33

Online LIMS

0000041946



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA14361-OCT13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 9
1,2-Dichloroethane [ug/L]	17-Oct-13	16:22	21-Oct-13	08:23	5	---	0.35	<0.35
Dichloromethane [ug/L]	17-Oct-13	16:22	21-Oct-13	08:23	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	17-Oct-13	16:22	21-Oct-13	08:23	80	30	0.30	<0.3
Tetrachloroethylene (perchloroethylene) [ug/L]	17-Oct-13	16:22	21-Oct-13	08:23	30	---	0.35	<0.35
Trichloroethylene [ug/L]	17-Oct-13	16:22	21-Oct-13	08:23	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	17-Oct-13	16:22	21-Oct-13	08:23	2	---	0.17	<0.17
Diquat [ug/L]	16-Oct-13	09:05	16-Oct-13	15:44	70	---	1	<1
Paraquat [ug/L]	16-Oct-13	09:05	16-Oct-13	15:44	10	---	1	<1
Glyphosate [ug/L]	16-Oct-13	10:34	18-Oct-13	08:43	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	17-Oct-13	07:52	18-Oct-13	09:19	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	0.01	---	0.004	<0.004
Alachlor [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	5	---	0.02	<0.02
Aldicarb [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	0.7	---	0.01	<0.01
Aldrin [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	--	---	0.01	<0.01
Dieldrin [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	5	---	0.01	<0.01
Atrazine [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	--	---	0.01	<0.01
Desethyl atrazine [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	20	---	0.02	<0.02
Bendiocarb [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	40	---	0.01	<0.01
Carbaryl [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	90	---	0.01	<0.01
Carbofuran [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	90	---	0.01	<0.01
Chlordane (total) [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	7	---	0.01	<0.01
a-chlordane [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	--	---	0.01	<0.01
g-chlordane [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	--	---	0.01	<0.01
Oxychlordane [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	90	---	0.02	<0.02
Cyanazine [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	10	---	0.03	<0.03
Diazinon [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	20	---	0.02	<0.02

Online LIMS

0000041946



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA14361-OCT13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 9
(DDT) + Metabolites [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	30	---	0.01	<0.01
op-DDT [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	--	---	0.01	<0.01
pp-DDD [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	--	---	0.01	<0.01
pp-DDE [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	--	---	0.01	<0.01
pp-DDT [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	--	---	0.01	<0.01
Dimethoate [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	20	---	0.03	<0.03
Diuron [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	3	---	0.01	<0.01
Heptachlor [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	--	---	0.01	<0.01
Lindane [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	4	---	0.01	<0.01
Malathion [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	190	---	0.02	<0.02
Methoxychlor [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	900	---	0.01	<0.01
Metolachlor [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	50	---	0.01	<0.01
Metribuzin [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	80	---	0.02	<0.02
Parathion [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	50	---	0.02	<0.02
Phorate [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	2	---	0.01	<0.01
Prometryne [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	1	---	0.03	<0.03
Simazine [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	10	---	0.01	<0.01
Temephos [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	280	---	0.01	<0.01
Terbufos [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	1	---	0.01	<0.01
Triallate [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	230	---	0.01	<0.01
Trifluralin [ug/L]	15-Oct-13	08:00	16-Oct-13	16:35	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	17-Oct-13	08:21	18-Oct-13	09:04	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	17-Oct-13	08:21	18-Oct-13	09:04	280	20	0.22	<0.22
Bromoxynil [ug/L]	17-Oct-13	08:21	18-Oct-13	09:04	5	---	0.33	<0.33
Dicamba [ug/L]	17-Oct-13	08:21	18-Oct-13	09:04	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	17-Oct-13	08:21	18-Oct-13	09:04	9	---	0.4	<0.40
Dinoseb [ug/L]	17-Oct-13	08:21	18-Oct-13	09:04	10	---	0.36	<0.36
Picloram [ug/L]	17-Oct-13	08:21	18-Oct-13	09:04	190	---	1	<1

Online LIMS

0000041946

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 9
2,4-dichlorophenol [ug/L]	17-Oct-13	08:21	18-Oct-13	09:04	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	17-Oct-13	08:21	18-Oct-13	09:04	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	17-Oct-13	08:21	18-Oct-13	09:04	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	17-Oct-13	08:21	18-Oct-13	09:04	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration  
 AO/OG - Aesthetic Objective / Operational Guideline  
 MDL - SGS Method Detection Limit  
 NR - Not reportable under applicable Provincial drinking water regulations as per client.

Kimberley Didsbury  
 Project Specialist  
 Environmental Services, Analytical





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**Trent-Severn Waterway (Southern Area)**

Attn : Greg Stencell

12 Trent Drive  
Campbellford, ON  
K0L 1L0,

Phone: 705-653-3240  
Fax:705-653-2053

05-October-2015

Date Rec. : 28 September 2015  
LR Report: CA14655-SEP15

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #8 Percy Reach	9: NR Lock #10
Sample Date & Time								28-Sep-15 13:20	28-Sep-15 14:10
Temperature Upon Receipt [°C]	---	---	---	---	--	---	---	19.0	19.0
Fluoride [mg/L]	29-Sep-15	09:18	30-Sep-15	11:24	1.5	---	0.06	0.07	0.06
Antimony [ug/L]	29-Sep-15	14:24	30-Sep-15	16:53	6	---	0.02	0.36	0.30
Arsenic [ug/L]	29-Sep-15	14:24	30-Sep-15	16:53	25	---	0.2	0.4	0.3
Barium [ug/L]	29-Sep-15	14:24	30-Sep-15	16:53	1000	---	0.02	34.4	32.6
Boron [ug/L]	29-Sep-15	14:24	30-Sep-15	16:53	5000	---	0.2	13.5	5.0
Cadmium [ug/L]	29-Sep-15	14:24	30-Sep-15	16:53	5	---	0.003	0.006	<0.0003
Chromium [ug/L]	29-Sep-15	14:24	30-Sep-15	16:53	50	---	0.0	<0.03	<0.03
Mercury [ug/L]	29-Sep-15	15:04	30-Sep-15	08:57	1	---	0.01	<0.01	<0.01
Sodium [mg/L]	29-Sep-15	14:24	30-Sep-15	16:53	20	200	0.01	9.51	9.58
Selenium [ug/L]	29-Sep-15	14:24	30-Sep-15	16:53	10	---	0	0.12	0.10
Uranium [ug/L]	29-Sep-15	14:24	30-Sep-15	16:53	20	---	0.002	0.216	0.324
Benzene [ug/L]	29-Sep-15	16:35	30-Sep-15	14:58	5	---	0.32	<0.32	<0.31
Carbon tetrachloride [ug/L]	29-Sep-15	16:35	30-Sep-15	14:58	5	---	0.16	<0.16	<0.16
1,2-Dichlorobenzene [ug/L]	29-Sep-15	16:35	30-Sep-15	14:58	200	3	0.41	<0.41	<0.41
1,4-Dichlorobenzene [ug/L]	29-Sep-15	16:35	30-Sep-15	14:58	5	1	0.36	<0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	29-Sep-15	16:35	30-Sep-15	14:58	14	---	0.33	<0.33	<0.33

Online LIMS

0000521193



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Lakefield - Ontario - K0L 2H0  
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LR Report :

CA14655-SEP15

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #8 Percy Reach	9: NR Lock #10
1,2-Dichloroethane [ug/L]	29-Sep-15	16:35	30-Sep-15	14:58	5	---	0.35	<0.35	<0.35
Dichloromethane [ug/L]	29-Sep-15	16:35	30-Sep-15	14:58	50	---	0.35	<0.35	<0.35
Monochlorobenzene [ug/L]	29-Sep-15	16:35	30-Sep-15	14:58	80	30	0.30	<0.3	<0.3
Tetrachloroethylene (perchloroethylene) [ug/L]	29-Sep-15	16:35	30-Sep-15	14:58	30	---	0.35	<0.35	<0.35
Trichloroethylene [ug/L]	29-Sep-15	16:35	30-Sep-15	14:58	5	---	0.44	<0.44	<0.44
Vinyl Chloride [ug/L]	29-Sep-15	16:35	30-Sep-15	14:58	2	---	0.17	<0.17	<0.17
Diquat [ug/L]	30-Sep-15	16:09	05-Oct-15	08:28	70	---	1	<1	<1
Paraquat [ug/L]	30-Sep-15	16:09	05-Oct-15	08:28	10	---	1	<1	<1
Glyphosate [ug/L]	29-Sep-15	16:21	30-Sep-15	09:17	280	---	1	<1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	30-Sep-15	07:57	05-Oct-15	11:45	3	---	0.04	<0.04	<0.04
Benzo(a)pyrene [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	0.01	---	0.004	<0.004	<0.004
Alachlor [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	5	---	0.02	<0.02	<0.02
Aldicarb [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	9	---	0.01	<0.01	<0.01
Aldrin + Dieldrin [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	0.7	---	0.01	<0.01	<0.01
Aldrin [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
Dieldrin [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	5	---	0.01	<0.01	<0.01
Atrazine [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
Desethyl atrazine [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
Azinphos-methyl [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	20	---	0.02	<0.05	<0.05
Bendiocarb [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	40	---	0.01	<0.01	<0.01
Carbaryl [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	90	---	0.01	<0.05	<0.05
Carbofuran [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	90	---	0.01	<0.01	<0.01
Chlordane (total) [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	7	---	0.01	<0.01	<0.01
a-chlordane [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
g-chlordane [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
Oxychlordane [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
Chlorpyrifos [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	90	---	0.02	<0.02	<0.02
Cyanazine [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	10	---	0.03	<0.03	<0.03
Diazinon [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	20	---	0.02	<0.02	<0.02

Online LIMS

0000521193



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LR Report : CA14655-SEP15

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #8 Percy Reach	9: NR Lock #10
(DDT) + Metabolites [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	30	---	0.01	<0.01	<0.01
op-DDT [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
pp-DDD [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
pp-DDE [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
pp-DDT [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
Dimethoate [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	20	---	0.03	<0.03	<0.03
Diuron [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	150	---	0.03	<0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	3	---	0.01	<0.01	<0.01
Heptachlor [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
Heptachlor epoxide [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	--	---	0.01	<0.01	<0.01
Lindane [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	4	---	0.01	<0.01	<0.01
Malathion [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	190	---	0.02	<0.02	<0.02
Methoxychlor [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	900	---	0.01	<0.01	<0.01
Metolachlor [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	50	---	0.01	<0.01	<0.01
Metribuzin [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	80	---	0.02	<0.02	<0.02
Parathion [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	50	---	0.02	<0.02	<0.02
Phorate [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	2	---	0.01	<0.01	<0.01
Prometryne [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	1	---	0.03	<0.03	<0.03
Simazine [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	10	---	0.01	<0.01	<0.01
Temephos [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	280	---	0.01	<0.01	<0.01
Terbufos [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	1	---	0.01	<0.01	<0.01
Triallate [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	230	---	0.01	<0.01	<0.01
Trifluralin [ug/L]	29-Sep-15	08:11	30-Sep-15	14:50	45	---	0.02	<0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	30-Sep-15	07:15	01-Oct-15	14:35	100	---	0.19	<0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	30-Sep-15	07:15	01-Oct-15	14:35	280	20	0.22	<0.22	<0.22
Bromoxynil [ug/L]	30-Sep-15	07:15	01-Oct-15	14:35	5	---	0.33	<0.33	<0.33
Dicamba [ug/L]	30-Sep-15	07:15	01-Oct-15	14:35	120	---	0.2	<0.20	<0.20
Diclofop-methyl [ug/L]	30-Sep-15	07:15	01-Oct-15	14:35	9	---	0.4	<0.40	<0.40
Dinoseb [ug/L]	30-Sep-15	07:15	01-Oct-15	14:35	10	---	0.36	<0.36	<0.36
Picloram [ug/L]	30-Sep-15	07:15	01-Oct-15	14:35	190	---	1	<1	<1

Online LIMS

0000521193



SGS Canada Inc.

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LR Report : CA14655-SEP15

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #8 Percy Reach	9: NR Lock #10
2,4-dichlorophenol [ug/L]	30-Sep-15	07:15	01-Oct-15	14:35	900	0.3	0.15	<0.15	<0.15
2,4,6-trichlorophenol [ug/L]	30-Sep-15	07:15	01-Oct-15	14:35	5	2	0.25	<0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	30-Sep-15	07:15	01-Oct-15	14:35	100	1	0.2	<0.20	<0.2.0
Pentachlorophenol [ug/L]	30-Sep-15	07:15	01-Oct-15	14:35	60	30	0.15	<0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.

Kimberley Didsbury  
Project Specialist  
Environmental Services, Analytical



SGS Canada Inc.

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### Trent-Severn Waterway (Southern Area)

Attn : Trevor Tinney

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Campbellford, ON  
K0L 1L0,

Phone: 705-653-3240 or 705-772-9655 (cell)  
Fax:705-653-2053

26-September-2013

Date Rec. : 13 September 2013  
LR Report: CA14485-SEP13

Copy: #1

## CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 14
Sample Date & Time								12-Sep-13 13:38
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	5.0
Fluoride [mg/L]	16-Sep-13	10:28	17-Sep-13	10:21	1.5	---	0.06	0.09
Antimony [ug/L]	18-Sep-13	16:39	19-Sep-13	12:38	6	---	0.02	0.05
Arsenic [ug/L]	18-Sep-13	16:39	19-Sep-13	12:38	25	---	0.2	0.4
Barium [ug/L]	18-Sep-13	16:39	19-Sep-13	12:38	1000	---	0.01	45.2
Boron [ug/L]	18-Sep-13	16:39	19-Sep-13	12:38	5000	---	0.2	41
Cadmium [ug/L]	18-Sep-13	16:39	19-Sep-13	12:38	5	---	0.003	< 0.003
Chromium [ug/L]	18-Sep-13	16:39	19-Sep-13	12:38	50	---	0.5	< 0.5
Mercury [ug/L]	17-Sep-13	12:12	17-Sep-13	14:12	1	---	0.01	< 0.01
Sodium [mg/L]	18-Sep-13	16:39	19-Sep-13	12:38	20	200	0.01	7.76
Selenium [ug/L]	18-Sep-13	16:39	19-Sep-13	12:38	10	---	1	< 1
Uranium [ug/L]	18-Sep-13	16:39	19-Sep-13	12:38	20	---	0.001	0.025
Benzene [ug/L]	17-Sep-13	08:58	18-Sep-13	11:04	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	17-Sep-13	08:58	18-Sep-13	11:04	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	17-Sep-13	08:58	18-Sep-13	11:04	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	17-Sep-13	08:58	18-Sep-13	11:04	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	17-Sep-13	08:58	18-Sep-13	11:04	14	---	0.33	<0.33

Online LIMS

0000025399



SGS Canada Inc.

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report :

CA14485-SEP13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 14
1,2-Dichloroethane [ug/L]	17-Sep-13	08:58	18-Sep-13	11:04	5	---	0.35	<0.35
Dichloromethane [ug/L]	17-Sep-13	08:58	18-Sep-13	11:04	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	17-Sep-13	08:58	18-Sep-13	11:04	80	30	0.30	<0.3
Tetrachloroethylene (perchloroethylene) [ug/L]	17-Sep-13	08:58	18-Sep-13	11:04	30	---	0.35	<0.35
Trichloroethylene [ug/L]	17-Sep-13	08:58	18-Sep-13	11:04	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	17-Sep-13	08:58	18-Sep-13	11:04	2	---	0.17	<0.17
Diquat [ug/L]	19-Sep-13	10:00	20-Sep-13	14:16	70	---	1	<1
Paraquat [ug/L]	19-Sep-13	10:00	20-Sep-13	14:16	10	---	1	<1
Glyphosate [ug/L]	25-Sep-13	08:32	25-Sep-13	15:50	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	18-Sep-13	08:30	19-Sep-13	14:23	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	0.01	---	0.004	<0.004
Alachlor [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	5	---	0.02	<0.02
Aldicarb [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	0.7	---	0.01	<0.01
Aldrin [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	--	---	0.01	<0.01
Dieldrin [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	5	---	0.01	<0.01
Atrazine [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	--	---	0.01	<0.01
Desethyl atrazine [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	20	---	0.02	<0.02
Bendiocarb [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	40	---	0.01	<0.01
Carbaryl [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	90	---	0.01	<0.01
Carbofuran [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	90	---	0.01	<0.01
Chlordane (total) [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	7	---	0.01	<0.01
a-chlordane [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	--	---	0.01	<0.01
g-chlordane [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	--	---	0.01	<0.01
Oxychlordane [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	90	---	0.02	<0.02
Cyanazine [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	10	---	0.03	<0.03
Diazinon [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	20	---	0.02	<0.02

Online LIMS

0000025399



SGS Canada Inc.

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report :

CA14485-SEP13

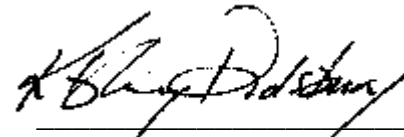
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 14
(DDT) + Metabolites [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	30	---	0.01	<0.01
op-DDT [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	--	---	0.01	<0.01
pp-DDD [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	--	---	0.01	<0.01
pp-DDE [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	--	---	0.01	<0.01
pp-DDT [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	--	---	0.01	<0.01
Dimethoate [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	20	---	0.03	<0.03
Diuron [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	3	---	0.01	<0.01
Heptachlor [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	--	---	0.01	<0.01
Lindane [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	4	---	0.01	<0.01
Malathion [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	190	---	0.02	<0.02
Methoxychlor [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	900	---	0.01	<0.01
Metolachlor [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	50	---	0.01	<0.01
Metribuzin [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	80	---	0.02	<0.02
Parathion [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	50	---	0.02	<0.02
Phorate [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	2	---	0.01	<0.01
Prometryne [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	1	---	0.03	<0.03
Simazine [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	10	---	0.01	<0.01
Temephos [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	280	---	0.01	<0.01
Terbufos [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	1	---	0.01	<0.01
Triallate [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	230	---	0.01	<0.01
Trifluralin [ug/L]	16-Sep-13	16:02	20-Sep-13	09:09	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	17-Sep-13	08:23	20-Sep-13	09:27	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	17-Sep-13	08:23	20-Sep-13	09:27	280	20	0.22	<0.22
Bromoxynil [ug/L]	17-Sep-13	08:23	20-Sep-13	09:27	5	---	0.33	<0.33
Dicamba [ug/L]	17-Sep-13	08:23	20-Sep-13	09:27	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	17-Sep-13	08:23	20-Sep-13	09:27	9	---	0.4	<0.40
Dinoseb [ug/L]	17-Sep-13	08:23	20-Sep-13	09:27	10	---	0.36	<0.36
Picloram [ug/L]	17-Sep-13	08:23	20-Sep-13	09:27	190	---	1	<1

Online LIMS

0000025399

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 14
2,4-dichlorophenol [ug/L]	17-Sep-13	08:23	20-Sep-13	09:27	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	17-Sep-13	08:23	20-Sep-13	09:27	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	17-Sep-13	08:23	20-Sep-13	09:27	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	17-Sep-13	08:23	20-Sep-13	09:27	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration  
 AO/OG - Aesthetic Objective / Operational Guideline  
 MDL - SGS Method Detection Limit  
 NR - Not reportable under applicable Provincial drinking water regulations as per client.



Kimberley Didsbury  
 Project Specialist  
 Environmental Services, Analytical





SGS Canada Inc.

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### Trent-Severn Waterway (Southern Area)

Attn : Trevor Tinney

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K0L 1L0,

Phone: 705-653-3240 or 705-772-9655 (cell)  
Fax:705-653-2053

06-September-2013

Date Rec. : 28 August 2013  
LR Report: CA14970-AUG13

Copy: #1

## CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 15
Sample Date & Time								27-Aug-13 10:40
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	18.0
Fluoride [mg/L]	29-Aug-13	15:04	30-Aug-13	14:03	1.5	---	0.06	0.07
Antimony [ug/L]	05-Sep-13	12:30	06-Sep-13	10:59	6	---	0.02	0.02
Arsenic [ug/L]	05-Sep-13	12:30	06-Sep-13	10:59	25	---	0.2	0.4
Barium [ug/L]	05-Sep-13	12:30	06-Sep-13	10:59	1000	---	0.01	34.6
Boron [ug/L]	05-Sep-13	12:30	06-Sep-13	10:59	5000	---	0.2	11
Cadmium [ug/L]	05-Sep-13	12:30	06-Sep-13	10:59	5	---	0.003	<0.003
Chromium [ug/L]	05-Sep-13	12:30	06-Sep-13	10:59	50	---	0.5	<0.5
Mercury [ug/L]	03-Sep-13	07:12	03-Sep-13	08:09	1	---	0.01	< 0.01
Sodium [mg/L]	05-Sep-13	12:30	06-Sep-13	10:59	20	200	0.01	8.05
Selenium [ug/L]	05-Sep-13	12:30	06-Sep-13	10:59	10	---	1	<1
Uranium [ug/L]	05-Sep-13	12:30	06-Sep-13	10:59	20	---	0.001	0.113
Benzene [ug/L]	29-Aug-13	15:56	30-Aug-13	11:17	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	29-Aug-13	15:56	30-Aug-13	11:17	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	29-Aug-13	15:56	30-Aug-13	11:17	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	29-Aug-13	15:56	30-Aug-13	11:17	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	29-Aug-13	15:56	30-Aug-13	11:17	14	---	0.33	<0.33

Online LIMS

0000014867



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LR Report : CA14970-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 15
1,2-Dichloroethane [ug/L]	29-Aug-13	15:56	30-Aug-13	11:17	5	---	0.35	<0.35
Dichloromethane [ug/L]	29-Aug-13	15:56	30-Aug-13	11:17	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	29-Aug-13	15:56	30-Aug-13	11:17	80	30	0.30	<0.30
Tetrachloroethylene (perchloroethylene) [ug/L]	29-Aug-13	15:56	30-Aug-13	11:17	30	---	0.35	<0.35
Trichloroethylene [ug/L]	29-Aug-13	15:56	30-Aug-13	11:17	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	29-Aug-13	15:56	30-Aug-13	11:17	2	---	0.17	<0.17
Diquat [ug/L]	29-Aug-13	08:58	30-Aug-13	09:18	70	---	1	<1
Paraquat [ug/L]	29-Aug-13	08:58	30-Aug-13	09:18	10	---	1	<1
Glyphosate [ug/L]	29-Aug-13	09:21	30-Aug-13	09:19	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	29-Aug-13	15:03	03-Sep-13	11:37	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	0.01	---	0.004	<0.004
Alachlor [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	5	---	0.02	<0.02
Aldicarb [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	0.7	---	0.01	<0.01
Aldrin [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
Dieldrin [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	5	---	0.01	<0.01
Atrazine [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
Desethyl atrazine [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	20	---	0.02	<0.02
Bendiocarb [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	40	---	0.01	<0.01
Carbaryl [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	90	---	0.01	<0.01
Carbofuran [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	90	---	0.01	<0.01
Chlordane (total) [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	7	---	0.01	<0.01
a-chlordane [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
g-chlordane [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
Oxychlordane [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	90	---	0.02	<0.02
Cyanazine [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	10	---	0.03	<0.03
Diazinon [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	20	---	0.02	<0.02

Online LIMS

0000014867



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LR Report : CA14970-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 15
(DDT) + Metabolites [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	30	---	0.01	<0.01
op-DDT [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
pp-DDD [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
pp-DDE [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
pp-DDT [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
Dimethoate [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	20	---	0.03	<0.03
Diuron [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	3	---	0.01	<0.01
Heptachlor [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
Lindane [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	4	---	0.01	<0.01
Malathion [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	190	---	0.02	<0.02
Methoxychlor [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	900	---	0.01	<0.01
Metolachlor [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	50	---	0.01	<0.01
Metribuzin [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	80	---	0.02	<0.02
Parathion [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	50	---	0.02	<0.02
Phorate [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	2	---	0.01	<0.01
Prometryne [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	1	---	0.03	<0.03
Simazine [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	10	---	0.01	<0.01
Temephos [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	280	---	0.01	<0.01
Terbufos [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	1	---	0.01	<0.01
Triallate [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	230	---	0.01	<0.01
Trifluralin [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	29-Aug-13	07:55	30-Aug-13	15:57	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	29-Aug-13	07:55	30-Aug-13	15:57	280	20	0.22	<0.22
Bromoxynil [ug/L]	29-Aug-13	07:55	30-Aug-13	15:57	5	---	0.33	<0.33
Dicamba [ug/L]	29-Aug-13	07:55	30-Aug-13	15:57	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	29-Aug-13	07:55	30-Aug-13	15:57	9	---	0.4	<0.40
Dinoseb [ug/L]	29-Aug-13	07:55	30-Aug-13	15:57	10	---	0.36	<0.36
Picloram [ug/L]	29-Aug-13	07:55	30-Aug-13	15:57	190	---	1	<1

Online LIMS

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Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 15
2,4-dichlorophenol [ug/L]	29-Aug-13	07:55	30-Aug-13	15:57	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	29-Aug-13	07:55	30-Aug-13	15:57	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	29-Aug-13	07:55	30-Aug-13	15:57	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	29-Aug-13	07:55	30-Aug-13	15:57	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.

Kimberley Didsbury  
 Project Specialist  
 Environmental Services, Analytical



SGS Canada Inc.

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**Trent-Severn Waterway (Southern Area)**

Attn : Trevor Tinney

12 Trent Drive  
Campbellford, ON  
K0L 1L0,

Phone: 705-653-3240 or 705-772-9655 (cell)  
Fax:705-653-2053

06-September-2013

Date Rec. : 28 August 2013  
LR Report: CA14969-AUG13

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 16/17
Sample Date & Time								27-Aug-13 11:30
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	18.0
Fluoride [mg/L]	29-Aug-13	09:20	30-Aug-13	12:16	1.5	---	0.06	< 0.06
Antimony [ug/L]	05-Sep-13	12:30	06-Sep-13	10:58	6	---	0.02	0.02
Arsenic [ug/L]	05-Sep-13	12:30	06-Sep-13	10:58	25	---	0.2	0.4
Barium [ug/L]	05-Sep-13	12:30	06-Sep-13	10:58	1000	---	0.01	37.5
Boron [ug/L]	05-Sep-13	12:30	06-Sep-13	10:58	5000	---	0.2	10
Cadmium [ug/L]	05-Sep-13	12:30	06-Sep-13	10:58	5	---	0.003	<0.003
Chromium [ug/L]	05-Sep-13	12:30	06-Sep-13	10:58	50	---	0.5	<0.5
Mercury [ug/L]	03-Sep-13	07:12	03-Sep-13	08:09	1	---	0.01	< 0.01
Sodium [mg/L]	05-Sep-13	12:30	06-Sep-13	10:58	20	200	0.01	8.38
Selenium [ug/L]	05-Sep-13	12:30	06-Sep-13	10:58	10	---	1	<1
Uranium [ug/L]	05-Sep-13	12:30	06-Sep-13	10:58	20	---	0.001	0.255
Benzene [ug/L]	29-Aug-13	15:56	30-Aug-13	11:18	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	29-Aug-13	15:56	30-Aug-13	11:18	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	29-Aug-13	15:56	30-Aug-13	11:18	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	29-Aug-13	15:56	30-Aug-13	11:18	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	29-Aug-13	15:56	30-Aug-13	11:18	14	---	0.33	<0.33

Online LIMS

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LR Report : CA14969-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 16/17
1,2-Dichloroethane [ug/L]	29-Aug-13	15:56	30-Aug-13	11:18	5	---	0.35	<0.35
Dichloromethane [ug/L]	29-Aug-13	15:56	30-Aug-13	11:18	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	29-Aug-13	15:56	30-Aug-13	11:18	80	30	0.30	<0.3
Tetrachloroethylene (perchloroethylene) [ug/L]	29-Aug-13	15:56	30-Aug-13	11:18	30	---	0.35	<0.35
Trichloroethylene [ug/L]	29-Aug-13	15:56	30-Aug-13	11:18	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	29-Aug-13	15:56	30-Aug-13	11:18	2	---	0.17	<0.17
Diquat [ug/L]	29-Aug-13	08:58	30-Aug-13	09:18	70	---	1	<1
Paraquat [ug/L]	29-Aug-13	08:58	30-Aug-13	09:18	10	---	1	<1
Glyphosate [ug/L]	29-Aug-13	09:21	30-Aug-13	09:19	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	29-Aug-13	15:03	03-Sep-13	11:37	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	0.01	---	0.004	<0.004
Alachlor [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	5	---	0.02	<0.02
Aldicarb [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	0.7	---	0.01	<0.01
Aldrin [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
Dieldrin [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	5	---	0.01	<0.01
Atrazine [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
Desethyl atrazine [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	20	---	0.02	<0.02
Bendiocarb [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	40	---	0.01	<0.01
Carbaryl [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	90	---	0.01	<0.01
Carbofuran [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	90	---	0.01	<0.01
Chlordane (total) [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	7	---	0.01	<0.01
a-chlordane [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
g-chlordane [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
Oxychlordane [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	90	---	0.02	<0.02
Cyanazine [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	10	---	0.03	<0.03
Diazinon [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	20	---	0.02	<0.02

Online LIMS

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SGS Canada Inc.

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LR Report : CA14969-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 16/17
(DDT) + Metabolites [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	30	---	0.01	<0.01
op-DDT [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
pp-DDD [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
pp-DDE [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
pp-DDT [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
Dimethoate [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	20	---	0.03	<0.03
Diuron [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	3	---	0.01	<0.01
Heptachlor [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	--	---	0.01	<0.01
Lindane [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	4	---	0.01	<0.01
Malathion [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	190	---	0.02	<0.02
Methoxychlor [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	900	---	0.01	<0.01
Metolachlor [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	50	---	0.01	<0.01
Metribuzin [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	80	---	0.02	<0.02
Parathion [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	50	---	0.02	<0.02
Phorate [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	2	---	0.01	<0.01
Prometryne [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	1	---	0.03	<0.03
Simazine [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	10	---	0.01	<0.01
Temephos [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	280	---	0.01	<0.01
Terbufos [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	1	---	0.01	<0.01
Triallate [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	230	---	0.01	<0.01
Trifluralin [ug/L]	30-Aug-13	08:12	04-Sep-13	09:40	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	29-Aug-13	07:55	30-Aug-13	15:57	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	29-Aug-13	07:55	30-Aug-13	15:57	280	20	0.22	<0.22
Bromoxynil [ug/L]	29-Aug-13	07:55	30-Aug-13	15:57	5	---	0.33	<0.33
Dicamba [ug/L]	29-Aug-13	07:55	30-Aug-13	15:57	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	29-Aug-13	07:55	30-Aug-13	15:57	9	---	0.4	<0.40
Dinoseb [ug/L]	29-Aug-13	07:55	30-Aug-13	15:57	10	---	0.36	<0.36
Picloram [ug/L]	29-Aug-13	07:55	30-Aug-13	15:57	190	---	1	<1

Online LIMS

0000014866

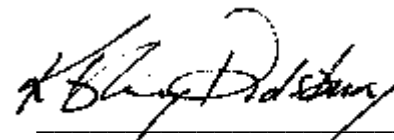
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 16/17
2,4-dichlorophenol [ug/L]	29-Aug-13	07:55	30-Aug-13	15:57	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	29-Aug-13	07:55	30-Aug-13	15:57	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	29-Aug-13	07:55	30-Aug-13	15:57	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	29-Aug-13	07:55	30-Aug-13	15:57	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.



Kimberley Didsbury  
Project Specialist  
Environmental Services, Analytical





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**Trent-Severn Waterway (Central Sector)**

Attn : Alanna Boulton

PO Box 567  
Peterborough, ON  
K9J 6Z6,

Phone: 705-750-4130 or 705-761-5780 (cell)  
Fax:705-750-4140

17-September-2013

Date Rec. : 10 September 2013  
LR Report: CA14323-SEP13

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 22
Sample Date & Time								10-Sep-13 10:30
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	23.0
Fluoride [mg/L]	11-Sep-13	14:33	13-Sep-13	09:22	1.5	---	0.06	0.07
Antimony [ug/L]	11-Sep-13	16:53	12-Sep-13	14:23	6	---	0.02	0.09
Arsenic [ug/L]	11-Sep-13	16:53	12-Sep-13	14:23	25	---	0.2	0.8
Barium [ug/L]	11-Sep-13	16:53	12-Sep-13	14:23	1000	---	0.01	139
Boron [ug/L]	11-Sep-13	16:53	12-Sep-13	14:23	5000	---	0.2	4.2
Cadmium [ug/L]	11-Sep-13	16:53	12-Sep-13	14:23	5	---	0.003	< 0.003
Chromium [ug/L]	11-Sep-13	16:53	12-Sep-13	14:23	50	---	0.5	< 0.5
Mercury [ug/L]	16-Sep-13	06:29	16-Sep-13	08:18	1	---	0.01	< 0.01
Sodium [mg/L]	11-Sep-13	16:53	12-Sep-13	14:24	20	200	0.01	6.21
Selenium [ug/L]	11-Sep-13	16:53	12-Sep-13	14:24	10	---	1	1
Uranium [ug/L]	11-Sep-13	16:53	12-Sep-13	14:24	20	---	0.001	1.13
Benzene [ug/L]	10-Sep-13	16:03	12-Sep-13	12:45	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	10-Sep-13	16:03	12-Sep-13	12:45	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	10-Sep-13	16:03	12-Sep-13	12:45	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	10-Sep-13	16:03	12-Sep-13	12:45	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	10-Sep-13	16:03	12-Sep-13	12:45	14	---	0.33	<0.33

Online LIMS

0000019661



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LR Report : CA14323-SEP13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 22
1,2-Dichloroethane [ug/L]	10-Sep-13	16:03	12-Sep-13	12:45	5	---	0.35	<0.35
Dichloromethane [ug/L]	10-Sep-13	16:03	12-Sep-13	12:45	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	10-Sep-13	16:03	12-Sep-13	12:45	80	30	0.30	<0.3
Tetrachloroethylene (perchloroethylene) [ug/L]	10-Sep-13	16:03	12-Sep-13	12:45	30	---	0.35	<0.35
Trichloroethylene [ug/L]	10-Sep-13	16:03	12-Sep-13	12:45	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	10-Sep-13	16:03	12-Sep-13	12:45	2	---	0.17	<0.17
Diquat [ug/L]	13-Sep-13	09:27	17-Sep-13	08:20	70	---	1	<1
Paraquat [ug/L]	13-Sep-13	09:27	17-Sep-13	08:20	10	---	1	<1
Glyphosate [ug/L]	13-Sep-13	09:27	17-Sep-13	08:20	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	12-Sep-13	08:04	16-Sep-13	11:02	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	0.01	---	0.004	<0.004
Alachlor [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	5	---	0.02	<0.02
Aldicarb [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	0.7	---	0.01	<0.01
Aldrin [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	--	---	0.01	<0.01
Dieldrin [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	5	---	0.01	<0.01
Atrazine [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	--	---	0.01	<0.01
Desethyl atrazine [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	20	---	0.02	<0.02
Bendiocarb [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	40	---	0.01	<0.01
Carbaryl [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	90	---	0.01	<0.01
Carbofuran [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	90	---	0.01	<0.01
Chlordane (total) [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	7	---	0.01	<0.01
a-chlordane [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	--	---	0.01	<0.01
g-chlordane [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	--	---	0.01	<0.01
Oxychlordane [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	90	---	0.02	<0.02
Cyanazine [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	10	---	0.03	<0.03
Diazinon [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	20	---	0.02	<0.02

Online LIMS

0000019661



SGS Canada Inc.

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report :

CA14323-SEP13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 22
(DDT) + Metabolites [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	30	---	0.01	<0.01
op-DDT [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	--	---	0.01	<0.01
pp-DDD [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	--	---	0.01	<0.01
pp-DDE [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	--	---	0.01	<0.01
pp-DDT [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	--	---	0.01	<0.01
Dimethoate [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	20	---	0.03	<0.03
Diuron [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	3	---	0.01	<0.01
Heptachlor [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	--	---	0.01	<0.01
Lindane [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	4	---	0.01	<0.01
Malathion [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	190	---	0.02	<0.02
Methoxychlor [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	900	---	0.01	<0.01
Metolachlor [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	50	---	0.01	<0.01
Metribuzin [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	80	---	0.02	<0.02
Parathion [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	50	---	0.02	<0.02
Phorate [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	2	---	0.01	<0.01
Prometryne [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	1	---	0.03	<0.03
Simazine [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	10	---	0.01	<0.01
Temephos [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	280	---	0.01	<0.01
Terbufos [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	1	---	0.01	<0.01
Triallate [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	230	---	0.01	<0.01
Trifluralin [ug/L]	12-Sep-13	07:18	16-Sep-13	11:30	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	12-Sep-13	09:09	13-Sep-13	14:51	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	12-Sep-13	09:09	13-Sep-13	14:51	280	20	0.22	<0.22
Bromoxynil [ug/L]	12-Sep-13	09:09	13-Sep-13	14:51	5	---	0.33	<0.33
Dicamba [ug/L]	12-Sep-13	09:09	13-Sep-13	14:51	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	12-Sep-13	09:09	13-Sep-13	14:51	9	---	0.4	<0.40
Dinoseb [ug/L]	11-Sep-13	08:16	13-Sep-13	14:51	10	---	0.36	<0.36
Picloram [ug/L]	12-Sep-13	09:09	13-Sep-13	14:51	190	---	1	<1

Online LIMS

0000019661

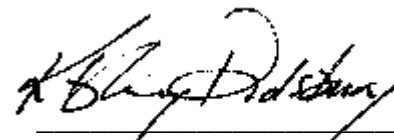
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 22
2,4-dichlorophenol [ug/L]	12-Sep-13	09:09	13-Sep-13	14:51	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	12-Sep-13	09:09	13-Sep-13	14:51	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	12-Sep-13	09:09	13-Sep-13	14:51	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	12-Sep-13	09:09	13-Sep-13	14:51	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.



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Environmental Services, Analytical



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*Lock 23*  
*Table A's B*

30-September-2013

Date Rec. : 23 September 2013  
 LR Report: CA14745-SEP13

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

Sample Date & Time	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 23
Temperature Upon Receipt [°C]	—	—	—	—	—	—	—	23-Sep-13 13:15
Fluoride [mg/L]	24-Sep-13	09:07	25-Sep-13	11:53	1.5	—	0.06	16.0
Antimony [ug/L]	25-Sep-13	16:59	28-Sep-13	11:22	6	—	0.02	0.04
Arsenic [ug/L]	25-Sep-13	16:59	28-Sep-13	11:22	25	—	0.2	0.5
Barium [ug/L]	25-Sep-13	16:59	28-Sep-13	11:22	1000	—	0.01	68.2
Boron [ug/L]	25-Sep-13	16:59	28-Sep-13	11:22	5000	—	0.2	5.6
Cadmium [ug/L]	25-Sep-13	16:59	28-Sep-13	11:22	5	—	0.003	0.012
Chromium [ug/L]	25-Sep-13	16:59	28-Sep-13	11:22	50	—	0.5	<0.5
Mercury [ug/L]	25-Sep-13	06:37	25-Sep-13	12:15	1	—	0.01	<0.01
Sodium [mg/L]	25-Sep-13	16:59	28-Sep-13	11:22	20	200	0.01	5.27
Selenium [ug/L]	25-Sep-13	16:59	28-Sep-13	11:22	10	—	1	<1
Uranium [ug/L]	25-Sep-13	16:59	28-Sep-13	11:22	20	—	0.001	0.164
Benzene [ug/L]	24-Sep-13	16:07	25-Sep-13	11:38	5	—	0.32	<0.32
Carbon tetrachloride [ug/L]	24-Sep-13	16:07	25-Sep-13	11:38	5	—	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	24-Sep-13	16:07	25-Sep-13	11:38	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	24-Sep-13	16:07	25-Sep-13	11:38	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	24-Sep-13	16:07	25-Sep-13	11:38	14	—	0.33	<0.33

Page 1 of 4  
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 Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.



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LR Report : CA14746-SEP13

Analysis	1:	2:	3:	4:	5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time	Analysis Approval Date	Analysis Approval Time	MAC	AO/OG	MDL	NR Lock 23
1,2-Dichloroethane [ug/L]	24-Sep-13	16:07	25-Sep-13	11:38	5	—	0.35	<0.35
Dichloromethane [ug/L]	24-Sep-13	16:07	25-Sep-13	11:38	50	—	0.35	<0.35
Monochlorobenzene [ug/L]	24-Sep-13	16:07	25-Sep-13	11:38	80	30	0.30	<0.3
Tetrachloroethylene (perchloroethylene) [ug/L]	24-Sep-13	16:07	25-Sep-13	11:38	30	—	0.35	<0.35
Trichloroethylene [ug/L]	24-Sep-13	16:07	25-Sep-13	11:38	5	—	0.44	<0.44
Vinyl Chloride [ug/L]	24-Sep-13	16:07	25-Sep-13	11:38	2	—	0.17	<0.17
Diquat [ug/L]	26-Sep-13	09:15	26-Sep-13	15:13	70	—	1	<1
Paraquat [ug/L]	26-Sep-13	09:15	26-Sep-13	15:13	10	—	1	<1
Glyphosate [ug/L]	25-Sep-13	08:32	26-Sep-13	08:50	280	—	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	24-Sep-13	09:25	27-Sep-13	09:27	3	—	0.04	<0.04
Benzo(a)pyrene [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	0.01	—	0.004	<0.004
Alachlor [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	5	—	0.02	<0.02
Aldicarb [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	9	—	0.01	<0.01
Aldrin + Dieldrin [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	0.7	—	0.01	<0.01
Aldrin [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	—	—	0.01	<0.01
Dieldrin [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	—	—	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	5	—	0.01	<0.01
Atrazine [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	—	—	0.01	<0.01
Desethyl atrazine [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	—	—	0.01	<0.01
Azinphos-methyl [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	—	—	0.01	<0.01
Bendiocarb [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	20	—	0.02	<0.02
Carbaryl [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	40	—	0.01	<0.01
Carbofuran [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	90	—	0.01	<0.01
Chlordane [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	90	—	0.01	<0.01
Chlordane (total) [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	90	—	0.01	<0.01
a-chlordane [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	7	—	0.01	<0.01
g-chlordane [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	—	—	0.01	<0.01
Oxychlorodane [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	—	—	0.01	<0.01
Chlorpyrifos [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	90	—	0.02	<0.02
Cyanazine [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	10	—	0.03	<0.03
Diazinon [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	20	—	0.02	<0.02

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LR Report : CA14745-SEP13

Analysis	1:		2:		3:		4:		5: MAC	6: AO/OG	7: MDL	8: NR Lock 23
	Analysis Start Date	Analysis Start Time	Analysis Start Date	Analysis Start Time	Analysis Approval Date	Analysis Approval Time	Analysis Approval Date	Analysis Approval Time				
(DDT) + Metabolites [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	30	—	0.01	<0.01
op-DDT [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	—	—	0.01	<0.01
pp-DDD [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	—	—	0.01	<0.01
pp-DDE [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	—	—	0.01	<0.01
pp-DDT [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	—	—	0.01	<0.01
Dimethoate [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	20	—	0.03	<0.03
Diuron [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	150	—	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	3	—	0.01	<0.01
Heptachlor [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	—	—	0.01	<0.01
Heptachlor epoxide [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	—	—	0.01	<0.01
Lindane [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	4	—	0.01	<0.01
Malathion [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	190	—	0.02	<0.02
Methoxychlor [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	900	—	0.01	<0.01
Metolachlor [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	50	—	0.01	<0.01
Metribuzin [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	80	—	0.02	<0.02
Parathion [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	50	—	0.02	<0.02
Phorate [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	2	—	0.01	<0.01
Prometryne [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	1	—	0.03	<0.03
Simazine [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	10	—	0.01	<0.01
Temephos [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	280	—	0.01	<0.01
Terbufos [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	1	—	0.01	<0.01
Triallate [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	230	—	0.01	<0.01
Trifluralin [ug/L]	24-Sep-13	08:11	27-Sep-13	09:44	27-Sep-13	09:44	27-Sep-13	09:44	45	—	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	25-Sep-13	09:34	26-Sep-13	15:45	26-Sep-13	15:45	26-Sep-13	15:45	100	—	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	25-Sep-13	09:34	26-Sep-13	15:45	26-Sep-13	15:45	26-Sep-13	15:45	280	20	0.22	<0.22
Bromoxynil [ug/L]	25-Sep-13	09:34	26-Sep-13	15:45	26-Sep-13	15:45	26-Sep-13	15:45	5	—	0.33	<0.33
Dicamba [ug/L]	25-Sep-13	09:34	26-Sep-13	15:45	26-Sep-13	15:45	26-Sep-13	15:45	120	—	0.2	<0.20
Diclofop-methyl [ug/L]	25-Sep-13	09:34	26-Sep-13	15:45	26-Sep-13	15:45	26-Sep-13	15:45	9	—	0.4	<0.40
Diuroseb [ug/L]	25-Sep-13	09:34	26-Sep-13	15:45	26-Sep-13	15:45	26-Sep-13	15:45	10	—	0.36	<0.36
Picloram [ug/L]	25-Sep-13	09:34	26-Sep-13	15:45	26-Sep-13	15:45	26-Sep-13	15:45	190	—	1	<1

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Test method information available upon request. \*Temperature Upon Receipt\* is representative of the whole shipment and may not reflect the temperature of individual samples.



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LR Report : CA14746-SEP13

Analysis	1:	2:	3:	4:	5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time	Analysis Approval Date	Analysis Approval Time	MAC	AO/OG	MDL	NR Lock 23
2,4-dichlorophenol [ug/L]	25-Sep-13	09:34	26-Sep-13	15:45	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	25-Sep-13	09:34	26-Sep-13	15:45	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	25-Sep-13	09:34	26-Sep-13	15:45	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	25-Sep-13	09:34	26-Sep-13	15:45	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration / Operational Guideline  
 AO/OG - Aesthetic Objective / Operational Guideline  
 MDL - SGS Method Detection Limit  
 NR - Not reportable under applicable provincial drinking water regulations as per client.

Kimberley Didsbury  
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29-August-2013

Date Rec. : 22 August 2013  
LR Report: CA14782-AUG13

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 24
Sample Date & Time								22-Aug-13 11:00
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	22.0
Fluoride [mg/L]	23-Aug-13	09:51	29-Aug-13	11:08	1.5	---	0.06	<0.06
Antimony [ug/L]	23-Aug-13	15:28	27-Aug-13	13:16	6	---	0.02	0.07
Arsenic [ug/L]	23-Aug-13	15:28	27-Aug-13	13:16	25	---	0.2	0.4
Barium [ug/L]	23-Aug-13	15:28	27-Aug-13	13:16	1000	---	0.01	25.5
Boron [ug/L]	23-Aug-13	15:28	27-Aug-13	13:16	5000	---	0.2	9.9
Cadmium [ug/L]	23-Aug-13	15:28	27-Aug-13	13:16	5	---	0.003	0.003
Chromium [ug/L]	23-Aug-13	15:28	27-Aug-13	13:16	50	---	0.5	<0.5
Mercury [ug/L]	27-Aug-13	06:00	27-Aug-13	08:09	1	---	0.01	<0.01
Sodium [mg/L]	23-Aug-13	15:28	27-Aug-13	13:16	20	200	0.01	6.14
Selenium [ug/L]	23-Aug-13	15:28	27-Aug-13	13:16	10	---	1	<1
Uranium [ug/L]	23-Aug-13	15:28	27-Aug-13	13:16	20	---	0.001	0.091
Benzene [ug/L]	23-Aug-13	16:01	27-Aug-13	12:54	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	23-Aug-13	16:01	27-Aug-13	12:54	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	23-Aug-13	16:01	27-Aug-13	12:54	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	23-Aug-13	16:01	27-Aug-13	12:54	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	23-Aug-13	16:01	27-Aug-13	12:54	14	---	0.33	<0.33



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA14782-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 24
1,2-Dichloroethane [ug/L]	23-Aug-13	16:01	27-Aug-13	12:54	5	---	0.35	<0.35
Dichloromethane [ug/L]	23-Aug-13	16:01	27-Aug-13	12:54	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	23-Aug-13	16:01	27-Aug-13	12:54	80	30	0.30	<0.30
Tetrachloroethylene (perchloroethylene) [ug/L]	23-Aug-13	16:01	27-Aug-13	12:54	30	---	0.35	<0.35
Trichloroethylene [ug/L]	23-Aug-13	16:01	27-Aug-13	12:54	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	23-Aug-13	16:01	27-Aug-13	12:54	2	---	0.17	<0.17
Diquat [ug/L]	23-Aug-13	10:35	28-Aug-13	08:47	70	---	1	<1
Paraquat [ug/L]	23-Aug-13	10:35	28-Aug-13	08:47	10	---	1	<1
Glyphosate [ug/L]	23-Aug-13	10:47	28-Aug-13	08:47	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	23-Aug-13	09:20	29-Aug-13	07:48	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	0.01	---	0.004	<0.004
Alachlor [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	5	---	0.02	<0.02
Aldicarb [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	0.7	---	0.01	<0.01
Aldrin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
Dieldrin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	5	---	0.01	<0.01
Atrazine [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
Desethyl atrazine [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	20	---	0.02	<0.02
Bendiocarb [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	40	---	0.01	<0.01
Carbaryl [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	90	---	0.01	<0.01
Carbofuran [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	90	---	0.01	<0.01
Chlordane (total) [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	7	---	0.01	<0.01
a-chlordane [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
g-chlordane [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
Oxychlordane [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	90	---	0.02	<0.02
Cyanazine [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	10	---	0.03	<0.03
Diazinon [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	20	---	0.02	<0.02

Online LIMS

0000013484



SGS Canada Inc.

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Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA14782-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 24
(DDT) + Metabolites [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	30	---	0.01	<0.01
op-DDT [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
pp-DDD [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
pp-DDE [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
pp-DDT [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
Dimethoate [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	20	---	0.03	<0.03
Diuron [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	3	---	0.01	<0.01
Heptachlor [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
Lindane [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	4	---	0.01	<0.01
Malathion [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	190	---	0.02	<0.02
Methoxychlor [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	900	---	0.01	<0.01
Metolachlor [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	50	---	0.01	<0.01
Metribuzin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	80	---	0.02	<0.02
Parathion [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	50	---	0.02	<0.02
Phorate [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	2	---	0.01	<0.01
Prometryne [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	1	---	0.03	<0.03
Simazine [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	10	---	0.01	<0.01
Temephos [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	280	---	0.01	<0.01
Terbufos [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	1	---	0.01	<0.01
Triallate [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	230	---	0.01	<0.01
Trifluralin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	23-Aug-13	08:28	26-Aug-13	14:04	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	23-Aug-13	08:28	26-Aug-13	14:04	280	20	0.22	<0.22
Bromoxynil [ug/L]	23-Aug-13	08:28	26-Aug-13	14:04	5	---	0.33	<0.33
Dicamba [ug/L]	23-Aug-13	08:28	26-Aug-13	14:04	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	23-Aug-13	08:28	26-Aug-13	14:04	9	---	0.4	<0.40
Dinoseb [ug/L]	23-Aug-13	08:28	26-Aug-13	14:04	10	---	0.36	<0.36
Picloram [ug/L]	23-Aug-13	08:28	26-Aug-13	14:04	190	---	1	<1

Online LIMS

0000013484

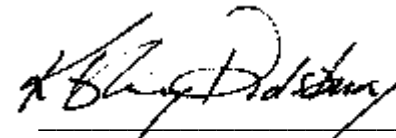
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 24
2,4-dichlorophenol [ug/L]	23-Aug-13	08:28	26-Aug-13	14:04	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	23-Aug-13	08:28	26-Aug-13	14:04	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	23-Aug-13	08:28	26-Aug-13	14:04	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	23-Aug-13	08:28	26-Aug-13	14:04	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.



Kimberley Didsbury  
Project Specialist  
Environmental Services, Analytical



SGS Canada Inc.

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**Trent-Severn Waterway (Central Sector)**

Attn : Alanna Boulton

PO Box 567  
Peterborough, ON  
K9J 6Z6,

Phone: 705-750-4130 or 705-761-5780 (cell)  
Fax:705-750-4140

29-August-2013

Date Rec. : 23 August 2013  
LR Report: CA14845-AUG13

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 25
Sample Date & Time								23-Aug-13 11:30
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	23.0
Fluoride [mg/L]	23-Aug-13	18:45	26-Aug-13	12:36	1.5	---	0.06	< 0.06
Antimony [ug/L]	27-Aug-13	18:25	29-Aug-13	10:05	6	---	0.02	<0.02
Arsenic [ug/L]	27-Aug-13	18:25	29-Aug-13	10:05	25	---	0.2	0.3
Barium [ug/L]	27-Aug-13	18:25	29-Aug-13	10:05	1000	---	0.01	27.4
Boron [ug/L]	27-Aug-13	18:25	29-Aug-13	10:05	5000	---	0.2	10
Cadmium [ug/L]	27-Aug-13	18:25	29-Aug-13	10:05	5	---	0.003	<0.003
Chromium [ug/L]	27-Aug-13	18:25	29-Aug-13	10:05	50	---	0.5	<0.5
Mercury [ug/L]	27-Aug-13	11:37	27-Aug-13	12:45	1	---	0.01	0.01
Sodium [mg/L]	27-Aug-13	18:25	29-Aug-13	10:05	20	200	0.01	6.31
Selenium [ug/L]	27-Aug-13	18:25	29-Aug-13	10:05	10	---	1	<1
Uranium [ug/L]	27-Aug-13	18:25	29-Aug-13	10:05	20	---	0.001	0.165
Benzene [ug/L]	27-Aug-13	15:58	28-Aug-13	14:24	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	27-Aug-13	15:58	28-Aug-13	14:24	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	27-Aug-13	15:58	28-Aug-13	14:24	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	27-Aug-13	15:58	28-Aug-13	14:24	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	27-Aug-13	15:58	28-Aug-13	14:24	14	---	0.33	<0.33

Online LIMS

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LR Report : CA14845-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 25
1,2-Dichloroethane [ug/L]	27-Aug-13	15:58	28-Aug-13	14:24	5	---	0.35	<0.35
Dichloromethane [ug/L]	27-Aug-13	15:58	28-Aug-13	14:24	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	27-Aug-13	15:58	28-Aug-13	14:24	80	30	0.30	<0.30
Tetrachloroethylene (perchloroethylene) [ug/L]	27-Aug-13	15:58	28-Aug-13	14:24	30	---	0.35	<0.35
Trichloroethylene [ug/L]	27-Aug-13	15:58	28-Aug-13	14:24	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	27-Aug-13	15:58	28-Aug-13	14:24	2	---	0.17	<0.17
Diquat [ug/L]	27-Aug-13	08:47	28-Aug-13	08:37	70	---	1	<1
Paraquat [ug/L]	27-Aug-13	08:47	28-Aug-13	08:37	10	---	1	<1
Glyphosate [ug/L]	27-Aug-13	11:25	28-Aug-13	08:37	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	27-Aug-13	08:18	28-Aug-13	09:48	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	0.01	---	0.004	<0.004
Alachlor [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	5	---	0.02	<0.02
Aldicarb [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	0.7	---	0.01	<0.01
Aldrin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
Dieldrin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	5	---	0.01	<0.01
Atrazine [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
Desethyl atrazine [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	20	---	0.02	<0.02
Bendiocarb [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	40	---	0.01	<0.01
Carbaryl [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	90	---	0.01	<0.01
Carbofuran [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	90	---	0.01	<0.01
Chlordane (total) [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	7	---	0.01	<0.01
a-chlordane [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
g-chlordane [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
Oxychlordane [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	90	---	0.02	<0.02
Cyanazine [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	10	---	0.03	<0.03
Diazinon [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	20	---	0.02	<0.02

Online LIMS

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SGS Canada Inc.

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Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA14845-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 25
(DDT) + Metabolites [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	30	---	0.01	<0.01
op-DDT [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
pp-DDD [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
pp-DDE [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
pp-DDT [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
Dimethoate [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	20	---	0.03	<0.03
Diuron [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	3	---	0.01	<0.01
Heptachlor [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	--	---	0.01	<0.01
Lindane [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	4	---	0.01	<0.01
Malathion [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	190	---	0.02	<0.02
Methoxychlor [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	900	---	0.01	<0.01
Metolachlor [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	50	---	0.01	<0.01
Metribuzin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	80	---	0.02	<0.02
Parathion [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	50	---	0.02	<0.02
Phorate [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	2	---	0.01	<0.01
Prometryne [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	1	---	0.03	<0.03
Simazine [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	10	---	0.01	<0.01
Temephos [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	280	---	0.01	<0.01
Terbufos [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	1	---	0.01	<0.01
Triallate [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	230	---	0.01	<0.01
Trifluralin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:39	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	27-Aug-13	07:27	29-Aug-13	12:53	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	27-Aug-13	07:27	29-Aug-13	12:53	280	20	0.22	<0.22
Bromoxynil [ug/L]	27-Aug-13	07:27	29-Aug-13	12:53	5	---	0.33	<0.33
Dicamba [ug/L]	27-Aug-13	07:27	29-Aug-13	12:53	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	27-Aug-13	07:27	29-Aug-13	12:53	9	---	0.4	<0.40
Dinoseb [ug/L]	27-Aug-13	07:27	29-Aug-13	12:53	10	---	0.36	<0.36
Picloram [ug/L]	27-Aug-13	07:27	29-Aug-13	12:53	190	---	1	<1

Online LIMS

0000013696

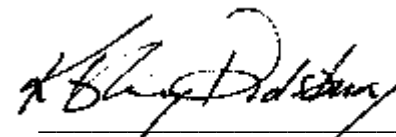
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 25
2,4-dichlorophenol [ug/L]	27-Aug-13	07:27	29-Aug-13	12:53	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	27-Aug-13	07:27	29-Aug-13	12:53	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	27-Aug-13	07:27	29-Aug-13	12:53	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	27-Aug-13	07:27	29-Aug-13	12:53	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.



\_\_\_\_\_  
 Kimberley Didsbury  
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 Environmental Services, Analytical





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**Trent-Severn Waterway (Central Sector)**

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29-August-2013

Date Rec. : 22 August 2013  
LR Report: CA14771-AUG13

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# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 27
Sample Date & Time								22-Aug-13 10:00
Temperature Upon Receipt [°C]	---	---	--	--	--	---	--	24.0
Fluoride [mg/L]	23-Aug-13	12:44	26-Aug-13	13:49	1.5	---	0.1	0.08
Antimony [ug/L]	23-Aug-13	15:28	27-Aug-13	13:15	6	---	0.02	<0.02
Arsenic [ug/L]	23-Aug-13	15:28	27-Aug-13	13:15	25	---	0.2	0.6
Barium [ug/L]	23-Aug-13	15:28	27-Aug-13	13:15	1000	---	0.01	31.0
Boron [ug/L]	23-Aug-13	15:28	27-Aug-13	13:15	5000	---	0.2	11
Cadmium [ug/L]	23-Aug-13	15:28	27-Aug-13	13:15	5	---	0.003	0.003
Chromium [ug/L]	23-Aug-13	15:28	27-Aug-13	13:15	50	---	0.5	0.6
Mercury [ug/L]	27-Aug-13	06:00	27-Aug-13	08:09	1	---	0.01	<0.01
Sodium [mg/L]	23-Aug-13	15:28	27-Aug-13	13:15	20	200	0.01	7.86
Selenium [ug/L]	23-Aug-13	15:28	27-Aug-13	13:15	10	---	1	<1
Uranium [ug/L]	23-Aug-13	15:28	27-Aug-13	13:15	20	---	0.001	0.095
Benzene [ug/L]	23-Aug-13	16:01	27-Aug-13	12:53	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	23-Aug-13	16:01	27-Aug-13	12:53	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	23-Aug-13	16:01	27-Aug-13	12:53	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	23-Aug-13	16:01	27-Aug-13	12:53	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	23-Aug-13	16:01	27-Aug-13	12:53	14	---	0.33	<0.33

Online LIMS

0000013225



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA14771-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 27
1,2-Dichloroethane [ug/L]	23-Aug-13	16:01	27-Aug-13	12:53	5	---	0.35	<0.35
Dichloromethane [ug/L]	23-Aug-13	16:01	27-Aug-13	12:53	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	23-Aug-13	16:01	27-Aug-13	12:53	80	30	0.30	<0.3
Tetrachloroethylene (perchloroethylene) [ug/L]	23-Aug-13	16:01	27-Aug-13	12:53	30	---	0.35	<0.35
Trichloroethylene [ug/L]	23-Aug-13	16:01	27-Aug-13	12:53	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	23-Aug-13	16:01	27-Aug-13	12:53	2	---	0.17	<0.17
Diquat [ug/L]	23-Aug-13	10:35	28-Aug-13	08:47	70	---	1	<1
Paraquat [ug/L]	23-Aug-13	10:35	28-Aug-13	08:47	10	---	1	<1
Glyphosate [ug/L]	23-Aug-13	10:47	28-Aug-13	08:47	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	23-Aug-13	09:20	29-Aug-13	07:48	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	0.01	---	0.004	<0.004
Alachlor [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	5	---	0.02	<0.02
Aldicarb [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	0.7	---	0.01	<0.01
Aldrin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	--	---	0.01	<0.01
Dieldrin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	5	---	0.01	<0.01
Atrazine [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	--	---	0.01	<0.01
Desethyl atrazine [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	20	---	0.02	<0.02
Bendiocarb [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	40	---	0.01	<0.01
Carbaryl [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	90	---	0.01	<0.01
Carbofuran [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	90	---	0.01	<0.01
Chlordane (total) [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	7	---	0.01	<0.01
a-chlordane [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	--	---	0.01	<0.01
g-chlordane [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	--	---	0.01	<0.01
Oxychlordane [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	90	---	0.02	<0.02
Cyanazine [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	10	---	0.03	<0.03
Diazinon [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	20	---	0.02	<0.02

Online LIMS

0000013225



SGS Canada Inc.

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LR Report : CA14771-AUG13

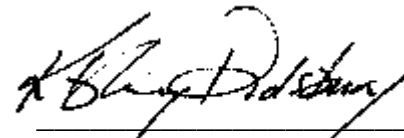
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 27
(DDT) + Metabolites [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	30	---	0.01	<0.01
op-DDT [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	--	---	0.01	<0.01
pp-DDD [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	--	---	0.01	<0.01
pp-DDE [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	--	---	0.01	<0.01
pp-DDT [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	--	---	0.01	<0.01
Dimethoate [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	20	---	0.03	<0.03
Diuron [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	3	---	0.01	<0.01
Heptachlor [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	--	---	0.01	<0.01
Lindane [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	4	---	0.01	<0.01
Malathion [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	190	---	0.02	<0.02
Methoxychlor [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	900	---	0.01	<0.01
Metolachlor [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	50	---	0.01	<0.01
Metribuzin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	80	---	0.02	<0.02
Parathion [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	50	---	0.02	<0.02
Phorate [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	2	---	0.01	<0.01
Prometryne [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	1	---	0.03	<0.03
Simazine [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	10	---	0.01	<0.01
Temephos [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	280	---	0.01	<0.01
Terbufos [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	1	---	0.01	<0.01
Triallate [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	230	---	0.01	<0.01
Trifluralin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:36	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	23-Aug-13	08:28	26-Aug-13	14:03	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	23-Aug-13	08:28	26-Aug-13	14:03	280	20	0.22	<0.22
Bromoxynil [ug/L]	23-Aug-13	08:28	26-Aug-13	14:03	5	---	0.33	<0.33
Dicamba [ug/L]	23-Aug-13	08:28	26-Aug-13	14:03	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	23-Aug-13	08:28	26-Aug-13	14:03	9	---	0.4	<0.4
Dinoseb [ug/L]	23-Aug-13	08:28	26-Aug-13	14:03	10	---	0.36	<0.36
Picloram [ug/L]	23-Aug-13	08:28	26-Aug-13	14:03	190	---	1	<1

Online LIMS

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Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 27
2,4-dichlorophenol [ug/L]	23-Aug-13	08:28	26-Aug-13	14:03	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	23-Aug-13	08:28	26-Aug-13	14:03	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	23-Aug-13	08:28	26-Aug-13	14:03	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	23-Aug-13	08:28	26-Aug-13	14:03	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration  
 AO/OG - Aesthetic Objective / Operational Guideline  
 MDL - SGS Method Detection Limit  
 NR - Not reportable under applicable Provincial drinking water regulations as per client.



Kimberley Didsbury  
 Project Specialist  
 Environmental Services, Analytical



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**Trent-Severn Waterway (Central Sector)**

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K9J 6Z6,

Phone: 705-750-4130 or 705-761-5780 (cell)  
Fax:705-750-4140

29-August-2013

Date Rec. : 23 August 2013  
LR Report: CA15301-AUG13

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# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 28
Sample Date & Time								23-Aug-13 10:30
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	22.0
Fluoride [mg/L]	23-Aug-13	18:45	26-Aug-13	12:37	1.5	---	0.06	0.06
Antimony [ug/L]	27-Aug-13	18:25	29-Aug-13	10:09	6	---	0.02	<0.02
Arsenic [ug/L]	27-Aug-13	18:25	29-Aug-13	10:09	25	---	0.2	0.3
Barium [ug/L]	27-Aug-13	18:25	29-Aug-13	10:09	1000	---	0.01	23.8
Boron [ug/L]	27-Aug-13	18:25	29-Aug-13	10:09	5000	---	0.2	10
Cadmium [ug/L]	27-Aug-13	18:25	29-Aug-13	10:09	5	---	0.003	<0.003
Chromium [ug/L]	27-Aug-13	18:25	29-Aug-13	10:09	50	---	0.5	<0.5
Mercury [ug/L]	29-Aug-13	05:57	29-Aug-13	07:56	1	---	0.01	0.01
Sodium [mg/L]	27-Aug-13	18:25	29-Aug-13	10:09	20	200	0.01	5.83
Selenium [ug/L]	27-Aug-13	18:25	29-Aug-13	10:09	10	---	1	<1
Uranium [ug/L]	27-Aug-13	18:25	29-Aug-13	10:09	20	---	0.001	0.099
Benzene [ug/L]	27-Aug-13	15:58	28-Aug-13	14:24	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	27-Aug-13	15:58	28-Aug-13	14:24	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	27-Aug-13	15:58	28-Aug-13	14:24	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	27-Aug-13	15:58	28-Aug-13	14:24	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	27-Aug-13	15:58	28-Aug-13	14:24	14	---	0.33	<0.33

Online LIMS

0000013744



SGS Canada Inc.

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LR Report : CA15301-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 28
1,2-Dichloroethane [ug/L]	27-Aug-13	15:58	28-Aug-13	14:24	5	---	0.35	<0.35
Dichloromethane [ug/L]	27-Aug-13	15:58	28-Aug-13	14:24	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	27-Aug-13	15:58	28-Aug-13	14:24	80	30	0.30	<0.30
Tetrachloroethylene (perchloroethylene) [ug/L]	27-Aug-13	15:58	28-Aug-13	14:24	30	---	0.35	<0.35
Trichloroethylene [ug/L]	27-Aug-13	15:58	28-Aug-13	14:24	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	27-Aug-13	15:58	28-Aug-13	14:24	2	---	0.17	<0.17
Diquat [ug/L]	27-Aug-13	08:47	28-Aug-13	08:37	70	---	1	<1
Paraquat [ug/L]	27-Aug-13	08:47	28-Aug-13	08:37	10	---	1	<1
Glyphosate [ug/L]	27-Aug-13	11:25	28-Aug-13	08:37	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	27-Aug-13	08:18	28-Aug-13	09:48	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	0.01	---	0.004	<0.004
Alachlor [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	5	---	0.02	<0.02
Aldicarb [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	0.7	---	0.01	<0.01
Aldrin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	--	---	0.01	<0.01
Dieldrin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	5	---	0.01	<0.01
Atrazine [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	--	---	0.01	<0.01
Desethyl atrazine [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	20	---	0.02	<0.02
Bendiocarb [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	40	---	0.01	<0.01
Carbaryl [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	90	---	0.01	<0.01
Carbofuran [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	90	---	0.01	<0.01
Chlordane (total) [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	7	---	0.01	<0.01
a-chlordane [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	--	---	0.01	<0.01
g-chlordane [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	--	---	0.01	<0.01
Oxychlordane [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	90	---	0.02	<0.02
Cyanazine [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	10	---	0.03	<0.03
Diazinon [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	20	---	0.02	<0.02

Online LIMS

0000013744



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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA15301-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 28
(DDT) + Metabolites [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	30	---	0.01	<0.01
op-DDT [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	--	---	0.01	<0.01
pp-DDD [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	--	---	0.01	<0.01
pp-DDE [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	--	---	0.01	<0.01
pp-DDT [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	--	---	0.01	<0.01
Dimethoate [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	20	---	0.03	<0.03
Diuron [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	3	---	0.01	<0.01
Heptachlor [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	--	---	0.01	<0.01
Lindane [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	4	---	0.01	<0.01
Malathion [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	190	---	0.02	<0.02
Methoxychlor [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	900	---	0.01	<0.01
Metolachlor [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	50	---	0.01	<0.01
Metribuzin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	80	---	0.02	<0.02
Parathion [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	50	---	0.02	<0.02
Phorate [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	2	---	0.01	<0.01
Prometryne [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	1	---	0.03	<0.03
Simazine [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	10	---	0.01	<0.01
Temephos [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	280	---	0.01	<0.01
Terbufos [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	1	---	0.01	<0.01
Triallate [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	230	---	0.01	<0.01
Trifluralin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:40	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	27-Aug-13	07:27	29-Aug-13	12:54	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	27-Aug-13	07:27	29-Aug-13	12:54	280	20	0.22	<0.22
Bromoxynil [ug/L]	27-Aug-13	07:27	29-Aug-13	12:54	5	---	0.33	<0.33
Dicamba [ug/L]	27-Aug-13	07:27	29-Aug-13	12:54	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	27-Aug-13	07:27	29-Aug-13	12:54	9	---	0.4	<0.40
Dinoseb [ug/L]	27-Aug-13	07:27	29-Aug-13	12:54	10	---	0.36	<0.36
Picloram [ug/L]	27-Aug-13	07:27	29-Aug-13	12:54	190	---	1	<1

Online LIMS

0000013744

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock 28
2,4-dichlorophenol [ug/L]	27-Aug-13	07:27	29-Aug-13	12:54	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	27-Aug-13	07:27	29-Aug-13	12:54	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	27-Aug-13	07:27	29-Aug-13	12:54	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	27-Aug-13	07:27	29-Aug-13	12:54	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration  
AO/OG - Aesthetic Objective / Operational Guideline  
MDL - SGS Method Detection Limit  
NR - Not reportable under applicable Provincial drinking water regulations as per client.

\_\_\_\_\_  
*Kimberley Didsbury*  
Project Specialist  
Environmental Services, Analytical





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*Table A's B*  
*lock 30*

30-August-2013

Date Rec.: 23 August 2013  
 LR Report: CA14839-AUG13

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## CERTIFICATE OF ANALYSIS

### Final Report

Sample Date & Time	1: Analysis Start Date		2: Analysis Start Time		3: Analysis Approval Date		4: Analysis Approval Time		5: MAC	6: AO/OG	7: MDL	8: NR Lock 30
Temperature Upon Receipt [°C]	23-Aug-13	18:45	26-Aug-13	12:36	1	—	—	—	—	—	—	22.0
Fluoride [mg/L]	27-Aug-13	18:25	29-Aug-13	10:04	6	—	—	—	—	—	—	<0.02
Antimony [ug/L]	27-Aug-13	18:25	29-Aug-13	10:04	25	—	—	—	—	—	—	0.3
Arsenic [ug/L]	27-Aug-13	18:25	29-Aug-13	10:04	1000	—	—	—	—	—	—	23.0
Barium [ug/L]	27-Aug-13	18:25	29-Aug-13	10:04	5000	—	—	—	—	—	—	10
Boron [ug/L]	27-Aug-13	18:25	29-Aug-13	10:04	5	—	—	—	—	—	—	<0.003
Cadmium [ug/L]	27-Aug-13	18:25	29-Aug-13	10:04	50	—	—	—	—	—	—	<0.5
Chromium [ug/L]	27-Aug-13	11:37	27-Aug-13	12:45	1	—	—	—	—	—	—	<0.01
Mercury [mg/L]	27-Aug-13	18:25	29-Aug-13	10:05	20	200	—	—	—	—	—	5.80
Sodium [ug/L]	27-Aug-13	18:25	29-Aug-13	10:05	10	—	—	—	—	—	—	<1
Selenium [ug/L]	27-Aug-13	18:25	29-Aug-13	10:05	20	—	—	—	—	—	—	0.196
Uranium [ug/L]	27-Aug-13	15:58	28-Aug-13	14:23	5	—	—	—	—	—	—	<0.32
Benzene [ug/L]	27-Aug-13	15:58	28-Aug-13	14:23	5	—	—	—	—	—	—	<0.16
Carbon tetrachloride [ug/L]	27-Aug-13	15:58	28-Aug-13	14:23	200	3	—	—	—	—	—	<0.41
1,2-Dichlorobenzene [ug/L]	27-Aug-13	15:58	28-Aug-13	14:23	5	1	—	—	—	—	—	<0.36
1,4-Dichlorobenzene [ug/L]	27-Aug-13	15:58	28-Aug-13	14:23	14	—	—	—	—	—	—	<0.33
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	27-Aug-13	15:58	28-Aug-13	14:23	14	—	—	—	—	—	—	<0.33

Online LIMS

Page 1 of 4  
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 Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.



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LR Report : CA14839-AUG13

Analysis	1:	2:	3:	4:	5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time	Analysis Approval Date	Analysis Approval Time	MAC	AO/OG	MDL	NR Lock 30
1,2-Dichloroethane [ug/L]	27-Aug-13	15:58	28-Aug-13	14:23	5	—	0.35	<0.35
Dichloromethane [ug/L]	27-Aug-13	15:58	28-Aug-13	14:23	50	—	0.35	<0.35
Monochlorobenzene [ug/L]	27-Aug-13	15:58	28-Aug-13	14:23	80	30	0.30	<0.30
Tetrachloroethylene (perchloroethylene) [ug/L]	27-Aug-13	15:58	28-Aug-13	14:23	30	—	0.35	<0.35
Trichloroethylene [ug/L]	27-Aug-13	15:58	28-Aug-13	14:23	5	—	0.44	<0.44
Vinyl Chloride [ug/L]	27-Aug-13	15:58	28-Aug-13	14:23	2	—	0.17	<0.17
Diquat [ug/L]	29-Aug-13	08:58	30-Aug-13	09:17	70	—	1	<1
Paraquat [ug/L]	29-Aug-13	08:58	30-Aug-13	09:17	10	—	1	<1
Glyphosate [ug/L]	27-Aug-13	11:25	28-Aug-13	08:36	280	—	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	27-Aug-13	08:18	28-Aug-13	09:48	3	—	0.04	<0.04
Benzol(a)pyrene [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	0.01	—	0.004	<0.004
Alachlor [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	5	—	0.02	<0.02
Aldicarb [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	9	—	0.01	<0.01
Aldrin + Dieldrin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	0.7	—	0.01	<0.01
Aldrin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	—	—	0.01	<0.01
Dieldrin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	—	—	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	5	—	0.01	<0.01
Atrazine [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	—	—	0.01	<0.01
Desethyl atrazine [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	—	—	0.01	<0.01
Azinphos-methyl [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	20	—	0.02	<0.02
Bendiocarb [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	40	—	0.01	<0.01
Carbaryl [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	90	—	0.01	<0.01
Carbofuran [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	90	—	0.01	<0.01
Chlordane (total) [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	7	—	0.01	<0.01
a-chlordane [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	—	—	0.01	<0.01
g-chlordane [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	—	—	0.01	<0.01
Oxychlorane [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	—	—	0.01	<0.01
Chlorpyrifos [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	90	—	0.02	<0.02
Cyanazine [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	10	—	0.03	<0.03
Diazinon [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	20	—	0.02	<0.02

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LR Report : CA14839-AUG13

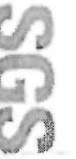
Analysis	1:	2:	3:	4:	5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time	Analysis Approval Date	Analysis Approval Time	MAC	AO/OG	MDL	NR Lock 30
(DDT) + Metabolites [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	30	—	0.01	<0.01
op-DDT [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	—	—	0.01	<0.01
pp-DDD [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	—	—	0.01	<0.01
pp-DDE [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	—	—	0.01	<0.01
pp-DDT [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	—	—	0.01	<0.01
Dimethoate [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	20	—	0.03	<0.03
Diuron [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	150	—	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	3	—	0.01	<0.01
Heptachlor [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	—	—	0.01	<0.01
Heptachlor epoxide [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	—	—	0.01	<0.01
Lindane [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	4	—	0.01	<0.01
Malathion [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	190	—	0.02	<0.02
Methoxychlor [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	900	—	0.01	<0.01
Meiioachlor [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	50	—	0.01	<0.01
Meibuzin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	80	—	0.02	<0.02
Parathion [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	50	—	0.02	<0.02
Phorate [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	2	—	0.01	<0.01
Prometryne [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	1	—	0.03	<0.03
Simazine [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	10	—	0.01	<0.01
Temephos [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	280	—	0.01	<0.01
Terbufos [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	1	—	0.01	<0.01
Triallate [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	230	—	0.01	<0.01
Trifluralin [ug/L]	26-Aug-13	07:17	27-Aug-13	11:38	45	—	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	27-Aug-13	07:27	29-Aug-13	12:53	100	—	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	27-Aug-13	07:27	29-Aug-13	12:53	280	20	0.22	<0.22
Bromoxynil [ug/L]	27-Aug-13	07:27	29-Aug-13	12:53	5	—	0.33	<0.33
Dicamba [ug/L]	27-Aug-13	07:27	29-Aug-13	12:53	120	—	0.2	<0.20
Diclofop-methyl [ug/L]	27-Aug-13	07:27	29-Aug-13	12:53	9	—	0.4	<0.40
Dinoseb [ug/L]	27-Aug-13	07:27	29-Aug-13	12:53	10	—	0.36	<0.36
Picloram [ug/L]	27-Aug-13	07:27	29-Aug-13	12:53	190	—	1	<1

OnLine LIMS

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Page 3 of 4

0000013932




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LR Report : CA14839-AUG13

	1:		2:		3:		4:		5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time	Analysis Start Date	Analysis Start Time	Analysis Approval Date	Analysis Approval Time	MAC	AO/OG				
2,4-dichlorophenol [ug/L]	27-Aug-13	07:27	29-Aug-13	12:53	29-Aug-13	12:53	900	0.3	0.15			<0.15
2,4,6-trichlorophenol [ug/L]	27-Aug-13	07:27	29-Aug-13	12:53	29-Aug-13	12:53	5	2	0.25			<0.25
2,3,4,6-tetrachlorophenol [ug/L]	27-Aug-13	07:27	29-Aug-13	12:53	29-Aug-13	12:53	100	1	0.14			<0.14
Pentachlorophenol [ug/L]	27-Aug-13	07:27	29-Aug-13	12:53	29-Aug-13	12:53	60	30	0.15			<0.15

MAC - Maximum Acceptable Concentration  
 AO/OG - Aesthetic Objective / Operational Guideline  
 MDL - SGS Method Detection Limit  
 NR - Not reportable under applicable provincial drinking water regulations as per client.

  
 Kimberley Didsbury  
 Project Specialist  
 Environmental Services, Analytical



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27-August-2013

Date Rec. : 20 August 2013  
LR Report: CA14708-AUG13

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# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: Lock 31
Sample Date & Time								20-Aug-13 14:40
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	25.0
Fluoride [mg/L]	20-Aug-13	20:51	21-Aug-13	09:09	1.5	---	0.06	0.06
Antimony [ug/L]	22-Aug-13	16:04	27-Aug-13	08:41	6	---	0.02	0.03
Arsenic [ug/L]	22-Aug-13	16:04	27-Aug-13	08:41	25	---	0.2	0.3
Barium [ug/L]	22-Aug-13	16:04	27-Aug-13	08:41	1000	---	0.01	26.7
Boron [ug/L]	22-Aug-13	16:04	27-Aug-13	08:41	5000	---	0.2	10
Cadmium [ug/L]	22-Aug-13	16:04	27-Aug-13	08:41	5	---	0.003	0.003 <MDL
Chromium [ug/L]	22-Aug-13	16:04	27-Aug-13	08:41	50	---	0.5	0.6
Mercury [ug/L]	22-Aug-13	11:19	22-Aug-13	13:29	1	---	0.01	< 0.01
Sodium [mg/L]	22-Aug-13	16:04	27-Aug-13	08:41	20	200	0.01	6.39
Selenium [ug/L]	22-Aug-13	16:04	27-Aug-13	08:41	10	---	1	1 <MDL
Uranium [ug/L]	22-Aug-13	16:04	27-Aug-13	08:41	20	---	0.001	0.169
Benzene [ug/L]	22-Aug-13	16:03	23-Aug-13	12:44	5	---	0.32	0.32 <MDL
Carbon tetrachloride [ug/L]	22-Aug-13	16:03	23-Aug-13	12:44	5	---	0.16	0.16 <MDL
1,2-Dichlorobenzene [ug/L]	22-Aug-13	16:03	23-Aug-13	12:44	200	3	0.41	0.41 <MDL
1,4-Dichlorobenzene [ug/L]	22-Aug-13	16:03	23-Aug-13	12:44	5	1	0.36	0.36 <MDL
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	22-Aug-13	16:03	23-Aug-13	12:44	14	---	0.33	0.33 <MDL

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LR Report : CA14708-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: Lock 31
1,2-Dichloroethane [ug/L]	22-Aug-13	16:03	23-Aug-13	12:44	5	---	0.35	0.35 <MDL
Dichloromethane [ug/L]	22-Aug-13	16:03	23-Aug-13	12:44	50	---	0.35	0.35 <MDL
Monochlorobenzene [ug/L]	22-Aug-13	16:03	23-Aug-13	12:44	80	30	0.30	0.3 <MDL
Tetrachloroethylene (perchloroethylene) [ug/L]	22-Aug-13	16:03	23-Aug-13	12:44	30	---	0.35	0.35 <MDL
Trichloroethylene [ug/L]	22-Aug-13	16:03	23-Aug-13	12:44	5	---	0.44	0.44 <MDL
Vinyl Chloride [ug/L]	22-Aug-13	16:03	23-Aug-13	12:44	2	---	0.17	0.17 <MDL
Diquat [ug/L]	21-Aug-13	08:33	22-Aug-13	14:42	70	---	1	1 <MDL
Paraquat [ug/L]	21-Aug-13	08:33	22-Aug-13	14:42	10	---	1	1 <MDL
Glyphosate [ug/L]	21-Aug-13	09:36	22-Aug-13	14:42	280	---	1	1 <MDL
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	22-Aug-13	08:02	27-Aug-13	07:52	3	---	0.04	0.04 <MDL
Benzo(a)pyrene [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	0.01	---	0.004	0.004 <MDL
Alachlor [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	5	---	0.02	0.02 <MDL
Aldicarb [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	9	---	0.01	0.01 <MDL
Aldrin + Dieldrin [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	0.7	---	0.01	0.01 <MDL
Aldrin [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	--	---	0.01	0.01 <MDL
Dieldrin [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	--	---	0.01	0.01 <MDL
Atrazine + N-dealkylated metabolites [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	5	---	0.01	0.01 <MDL
Atrazine [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	--	---	0.01	0.01 <MDL
Desethyl atrazine [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	--	---	0.01	0.01 <MDL
Azinphos-methyl [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	20	---	0.02	0.02 <MDL
Bendiocarb [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	40	---	0.01	0.01 <MDL
Carbaryl [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	90	---	0.01	0.01 <MDL
Carbofuran [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	90	---	0.01	0.01 <MDL
Chlordane (total) [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	7	---	0.01	0.01 <MDL
a-chlordane [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	--	---	0.01	0.01 <MDL
g-chlordane [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	--	---	0.01	0.01 <MDL
Oxychlordane [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	--	---	0.01	0.01 <MDL
Chlorpyrifos [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	90	---	0.02	0.02 <MDL
Cyanazine [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	10	---	0.03	0.03 <MDL
Diazinon [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	20	---	0.02	0.02 <MDL

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LR Report : CA14708-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: Lock 31
(DDT) + Metabolites [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	30	---	0.01	0.01 <MDL
op-DDT [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	--	---	0.01	0.01 <MDL
pp-DDD [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	--	---	0.01	0.01 <MDL
pp-DDE [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	--	---	0.01	0.01 <MDL
pp-DDT [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	--	---	0.01	0.01 <MDL
Dimethoate [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	20	---	0.03	0.03 <MDL
Diuron [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	150	---	0.03	0.03 <MDL
Heptachlor + Heptachlor Epoxide [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	3	---	0.01	0.01 <MDL
Heptachlor [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	--	---	0.01	0.01 <MDL
Heptachlor epoxide [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	--	---	0.01	0.01 <MDL
Lindane [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	4	---	0.01	0.01 <MDL
Malathion [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	190	---	0.02	0.02 <MDL
Methoxychlor [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	900	---	0.01	0.01 <MDL
Metolachlor [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	50	---	0.01	0.01 <MDL
Metribuzin [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	80	---	0.02	0.02 <MDL
Parathion [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	50	---	0.02	0.02 <MDL
Phorate [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	2	---	0.01	0.01 <MDL
Prometryne [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	1	---	0.03	0.03 <MDL
Simazine [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	10	---	0.01	0.01 <MDL
Temephos [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	280	---	0.01	0.01 <MDL
Terbufos [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	1	---	0.01	0.01 <MDL
Triallate [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	230	---	0.01	0.01 <MDL
Trifluralin [ug/L]	22-Aug-13	07:49	27-Aug-13	09:21	45	---	0.02	0.02 <MDL
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	21-Aug-13	08:29	27-Aug-13	10:40	100	---	0.19	0.19 <MDL
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	21-Aug-13	08:29	27-Aug-13	10:40	280	20	0.22	0.22 <MDL
Bromoxynil [ug/L]	21-Aug-13	08:29	27-Aug-13	10:40	5	---	0.33	0.33 <MDL
Dicamba [ug/L]	21-Aug-13	08:29	27-Aug-13	10:40	120	---	0.2	0.20 <MDL
Diclofop-methyl [ug/L]	21-Aug-13	08:29	27-Aug-13	10:40	9	---	0.4	0.40 <MDL
Dinoseb [ug/L]	21-Aug-13	08:29	27-Aug-13	10:40	10	---	0.36	0.36 <MDL
Picloram [ug/L]	21-Aug-13	08:29	27-Aug-13	10:40	190	---	1	1 <MDL

Online LIMS

0000012971



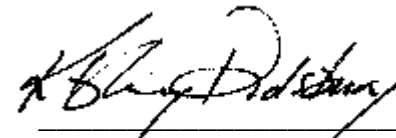
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: Lock 31
2,4-dichlorophenol [ug/L]	21-Aug-13	08:29	27-Aug-13	10:40	900	0.3	0.15	0.15 <MDL
2,4,6-trichlorophenol [ug/L]	21-Aug-13	08:29	27-Aug-13	10:40	5	2	0.25	0.25 <MDL
2,3,4,6-tetrachlorophenol [ug/L]	21-Aug-13	08:29	27-Aug-13	10:40	100	1	0.14	0.14 <MDL
Pentachlorophenol [ug/L]	21-Aug-13	08:29	27-Aug-13	10:40	60	30	0.15	0.15 <MDL

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.



\_\_\_\_\_  
 Kimberley Didsbury  
 Project Specialist  
 Environmental Services, Analytical





SGS Canada Inc.

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Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

**Trent-Severn Waterway (Northern Sector)**

Attn : Chuck Wilkinson

2023 Kirkfield Road  
Kirkfield, ON  
K0M 2B0,

Phone: 705-438-3153 or 705-887-8390 (cell)  
Fax:705-438-5201

06-September-2013

Date Rec. : 30 August 2013  
LR Report: CA15398-AUG13

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #35
Sample Date & Time								28-Aug-13 09:00
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	18.0
Fluoride [mg/L]	30-Aug-13	20:55	04-Sep-13	11:34	1.5	---	0.06	< 0.06
Antimony [ug/L]	05-Sep-13	12:30	06-Sep-13	11:38	6	---	0.02	0.06
Arsenic [ug/L]	05-Sep-13	12:30	06-Sep-13	11:38	25	---	0.2	0.3
Barium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:38	1000	---	0.01	22.3
Boron [ug/L]	05-Sep-13	12:30	06-Sep-13	11:38	5000	---	0.2	7.2
Cadmium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:38	5	---	0.003	0.003
Chromium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:38	50	---	0.5	<0.5
Mercury [ug/L]	04-Sep-13	11:43	04-Sep-13	12:26	1	---	0.01	< 0.01
Sodium [mg/L]	05-Sep-13	12:30	06-Sep-13	11:38	20	200	0.01	3.52
Selenium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:38	10	---	1	<1
Uranium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:38	20	---	0.001	0.021
Benzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:44	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:44	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:44	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:44	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:44	14	---	0.33	<0.33

Online LIMS

0000015180



SGS Canada Inc.

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA15398-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #35
1,2-Dichloroethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:44	5	---	0.35	<0.35
Dichloromethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:44	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:44	80	30	0.30	<0.30
Tetrachloroethylene (perchloroethylene) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:44	30	---	0.35	<0.35
Trichloroethylene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:44	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:44	2	---	0.17	<0.17
Diquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:12	70	---	1	<1
Paraquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:12	10	---	1	<1
Glyphosate [ug/L]	03-Sep-13	10:09	06-Sep-13	09:12	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	03-Sep-13	07:51	04-Sep-13	15:14	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	0.01	---	0.004	<0.004
Alachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	5	---	0.02	<0.02
Aldicarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	0.7	---	0.01	<0.01
Aldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	5	---	0.01	<0.01
Atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
Desethyl atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	20	---	0.02	<0.02
Bendiocarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	40	---	0.01	<0.01
Carbaryl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	90	---	0.01	<0.01
Carbofuran [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	90	---	0.01	<0.01
Chlordane (total) [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	7	---	0.01	<0.01
a-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
g-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
Oxychlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	90	---	0.02	<0.02
Cyanazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	10	---	0.03	<0.03
Diazinon [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	20	---	0.02	<0.02

Online LIMS

0000015180



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA15398-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #35
(DDT) + Metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	30	---	0.01	<0.01
op-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
pp-DDD [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
pp-DDE [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
pp-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
Dimethoate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	20	---	0.03	<0.03
Diuron [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	3	---	0.01	<0.01
Heptachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
Lindane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	4	---	0.01	<0.01
Malathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	190	---	0.02	<0.02
Methoxychlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	900	---	0.01	<0.01
Metolachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	50	---	0.01	<0.01
Metribuzin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	80	---	0.02	<0.02
Parathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	50	---	0.02	<0.02
Phorate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	2	---	0.01	<0.01
Prometryne [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	1	---	0.03	<0.03
Simazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	10	---	0.01	<0.01
Temephos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	280	---	0.01	<0.01
Terbufos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	1	---	0.01	<0.01
Triallate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	230	---	0.01	<0.01
Trifluralin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	280	20	0.22	<0.22
Bromoxynil [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	5	---	0.33	<0.33
Dicamba [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	9	---	0.4	<0.40
Dinoseb [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	10	---	0.36	<0.36
Picloram [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	190	---	1	<1

Online LIMS

0000015180

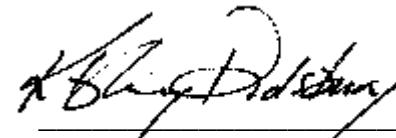
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #35
2,4-dichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.



\_\_\_\_\_  
 Kimberley Didsbury  
 Project Specialist  
 Environmental Services, Analytical



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**Trent-Severn Waterway (Northern Sector)**

Attn : Chuck Wilkinson

2023 Kirkfield Road  
Kirkfield, ON  
K0M 2B0,

Phone: 705-438-3153 or 705-887-8390 (cell)  
Fax:705-438-5201

06-September-2013

Date Rec. : 30 August 2013  
LR Report: CA15406-AUG13

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Kirkfield Office
Sample Date & Time								29-Aug-13 15:10
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	20.0
Fluoride [mg/L]	30-Aug-13	20:55	04-Sep-13	11:34	1.5	---	0.06	< 0.06
Antimony [ug/L]	05-Sep-13	12:30	06-Sep-13	11:45	6	---	0.02	0.05
Arsenic [ug/L]	05-Sep-13	12:30	06-Sep-13	11:45	25	---	0.2	0.3
Barium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:45	1000	---	0.01	16.6
Boron [ug/L]	05-Sep-13	12:30	06-Sep-13	11:45	5000	---	0.2	7.6
Cadmium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:45	5	---	0.003	0.004
Chromium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:45	50	---	0.5	<0.5
Mercury [ug/L]	04-Sep-13	11:43	04-Sep-13	12:27	1	---	0.01	< 0.01
Sodium [mg/L]	05-Sep-13	12:30	06-Sep-13	11:45	20	200	0.01	4.12
Selenium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:45	10	---	1	<1
Uranium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:45	20	---	0.001	0.050
Benzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:41	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:41	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:41	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:41	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:41	14	---	0.33	<0.33

Online LIMS

0000015167



SGS Canada Inc.

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA15406-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Kirkfield Office
1,2-Dichloroethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:41	5	---	0.35	<0.35
Dichloromethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:41	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:41	80	30	0.30	<0.30
Tetrachloroethylene (perchloroethylene) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:41	30	---	0.35	<0.35
Trichloroethylene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:41	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:41	2	---	0.17	<0.17
Diquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:18	70	---	1	<1
Paraquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:18	10	---	1	<1
Glyphosate [ug/L]	03-Sep-13	10:09	06-Sep-13	09:18	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	03-Sep-13	07:51	04-Sep-13	15:15	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	0.01	---	0.004	<0.004
Alachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	5	---	0.02	<0.02
Aldicarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	0.7	---	0.01	<0.01
Aldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	--	---	0.01	<0.01
Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	5	---	0.01	<0.01
Atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	--	---	0.01	<0.01
Desethyl atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	20	---	0.02	<0.02
Bendiocarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	40	---	0.01	<0.01
Carbaryl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	90	---	0.01	<0.01
Carbofuran [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	90	---	0.01	<0.01
Chlordane (total) [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	7	---	0.01	<0.01
a-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	--	---	0.01	<0.01
g-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	--	---	0.01	<0.01
Oxychlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	90	---	0.02	<0.02
Cyanazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	10	---	0.03	<0.03
Diazinon [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	20	---	0.02	<0.02

Online LIMS

0000015167



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA15406-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Kirkfield Office
(DDT) + Metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	30	---	0.01	<0.01
op-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	--	---	0.01	<0.01
pp-DDD [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	--	---	0.01	<0.01
pp-DDE [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	--	---	0.01	<0.01
pp-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	--	---	0.01	<0.01
Dimethoate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	20	---	0.03	<0.03
Diuron [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	3	---	0.01	<0.01
Heptachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	--	---	0.01	<0.01
Lindane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	4	---	0.01	<0.01
Malathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	190	---	0.02	<0.02
Methoxychlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	900	---	0.01	<0.01
Metolachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	50	---	0.01	<0.01
Metribuzin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	80	---	0.02	<0.02
Parathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	50	---	0.02	<0.02
Phorate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	2	---	0.01	<0.01
Prometryne [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	1	---	0.03	<0.03
Simazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	10	---	0.01	<0.01
Temephos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	280	---	0.01	<0.01
Terbufos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	1	---	0.01	<0.01
Triallate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	230	---	0.01	<0.01
Trifluralin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:08	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	03-Sep-13	07:40	05-Sep-13	12:01	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	03-Sep-13	07:40	05-Sep-13	12:01	280	20	0.22	<0.22
Bromoxynil [ug/L]	03-Sep-13	07:40	05-Sep-13	12:01	5	---	0.33	<0.33
Dicamba [ug/L]	03-Sep-13	07:40	05-Sep-13	12:01	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	03-Sep-13	07:40	05-Sep-13	12:01	9	---	0.4	<0.40
Dinoseb [ug/L]	03-Sep-13	07:40	05-Sep-13	12:01	10	---	0.36	<0.36
Picloram [ug/L]	03-Sep-13	07:40	05-Sep-13	12:01	190	---	1	<1

Online LIMS

0000015167

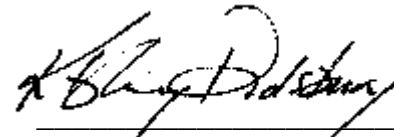
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Kirkfield Office
2,4-dichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	12:01	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	12:01	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	12:01	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	12:01	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.



Kimberley Didsbury  
 Project Specialist  
 Environmental Services, Analytical





SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

**Trent-Severn Waterway (Northern Sector)**

Attn : Chuck Wilkinson

2023 Kirkfield Road  
Kirkfield, ON  
K0M 2B0,

Phone: 705-438-3153 or 705-887-8390 (cell)  
Fax:705-438-5201

06-September-2013

Date Rec. : 30 August 2013  
LR Report: CA15395-AUG13

Copy: #1

# CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #37
Sample Date & Time								28-Aug-13 10:20
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	20.0
Fluoride [mg/L]	30-Aug-13	20:55	04-Sep-13	11:32	1.5	---	0.06	< 0.06
Antimony [ug/L]	05-Sep-13	12:30	06-Sep-13	11:37	6	---	0.02	0.05
Arsenic [ug/L]	05-Sep-13	12:30	06-Sep-13	11:37	25	---	0.2	0.3
Barium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:37	1000	---	0.01	18.3
Boron [ug/L]	05-Sep-13	12:30	06-Sep-13	11:37	5000	---	0.2	11
Cadmium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:37	5	---	0.003	<0.003
Chromium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:37	50	---	0.5	<0.5
Mercury [ug/L]	04-Sep-13	11:43	04-Sep-13	12:26	1	---	0.01	0.01
Sodium [mg/L]	05-Sep-13	12:30	06-Sep-13	11:37	20	200	0.01	4.44
Selenium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:37	10	---	1	<1
Uranium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:37	20	---	0.001	0.064
Benzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	14	---	0.33	<0.33

Online LIMS

0000015187



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA15395-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #37
1,2-Dichloroethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	5	---	0.35	<0.35
Dichloromethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	80	30	0.30	<0.30
Tetrachloroethylene (perchloroethylene) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	30	---	0.35	<0.35
Trichloroethylene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	2	---	0.17	<0.17
Diquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:08	70	---	1	<1
Paraquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:08	10	---	1	<1
Glyphosate [ug/L]	03-Sep-13	10:09	06-Sep-13	09:08	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	03-Sep-13	07:51	04-Sep-13	15:13	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	0.01	---	0.004	<0.004
Alachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	5	---	0.02	<0.02
Aldicarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	0.7	---	0.01	<0.01
Aldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	5	---	0.01	<0.01
Atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Desethyl atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	20	---	0.02	<0.02
Bendiocarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	40	---	0.01	<0.01
Carbaryl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	90	---	0.01	<0.01
Carbofuran [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	90	---	0.01	<0.01
Chlordane (total) [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	7	---	0.01	<0.01
a-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
g-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Oxychlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	90	---	0.02	<0.02
Cyanazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	10	---	0.03	<0.03
Diazinon [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	20	---	0.02	<0.02

Online LIMS

0000015187



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA15395-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #37
(DDT) + Metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	30	---	0.01	<0.01
op-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
pp-DDD [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
pp-DDE [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
pp-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Dimethoate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	20	---	0.03	<0.03
Diuron [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	3	---	0.01	<0.01
Heptachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Lindane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	4	---	0.01	<0.01
Malathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	190	---	0.02	<0.02
Methoxychlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	900	---	0.01	<0.01
Metolachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	50	---	0.01	<0.01
Metribuzin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	80	---	0.02	<0.02
Parathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	50	---	0.02	<0.02
Phorate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	2	---	0.01	<0.01
Prometryne [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	1	---	0.03	<0.03
Simazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	10	---	0.01	<0.01
Temephos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	280	---	0.01	<0.01
Terbufos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	1	---	0.01	<0.01
Triallate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	230	---	0.01	<0.01
Trifluralin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	280	20	0.22	<0.22
Bromoxynil [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	5	---	0.33	<0.33
Dicamba [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	9	---	0.4	<0.40
Dinoseb [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	10	---	0.36	<0.36
Picloram [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	190	---	1	<1

Online LIMS

0000015187

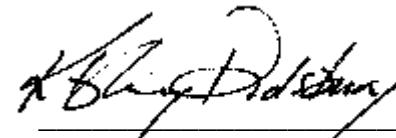
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #37
2,4-dichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.



\_\_\_\_\_  
 Kimberley Didsbury  
 Project Specialist  
 Environmental Services, Analytical



SGS Canada Inc.

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**Trent-Severn Waterway (Northern Sector)**

Attn : Chuck Wilkinson

2023 Kirkfield Road  
Kirkfield, ON  
K0M 2B0,

Phone: 705-438-3153 or 705-887-8390 (cell)  
Fax:705-438-5201

06-September-2013

Date Rec. : 30 August 2013  
LR Report: CA15397-AUG13

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #38
Sample Date & Time								28-Aug-13 10:40
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	21.0
Fluoride [mg/L]	30-Aug-13	20:55	04-Sep-13	11:34	1.5	---	0.06	< 0.06
Antimony [ug/L]	05-Sep-13	12:30	06-Sep-13	11:38	6	---	0.02	0.05
Arsenic [ug/L]	05-Sep-13	12:30	06-Sep-13	11:38	25	---	0.2	0.3
Barium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:38	1000	---	0.01	19.1
Boron [ug/L]	05-Sep-13	12:30	06-Sep-13	11:38	5000	---	0.2	13
Cadmium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:38	5	---	0.003	0.024
Chromium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:38	50	---	0.5	<0.5
Mercury [ug/L]	04-Sep-13	11:43	04-Sep-13	12:26	1	---	0.01	< 0.01
Sodium [mg/L]	05-Sep-13	12:30	06-Sep-13	11:38	20	200	0.01	4.69
Selenium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:38	10	---	1	<1
Uranium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:38	20	---	0.001	0.045
Benzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	14	---	0.33	<0.33

Online LIMS

0000015183



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA15397-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #38
1,2-Dichloroethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	5	---	0.35	<0.35
Dichloromethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	80	30	0.30	<0.30
Tetrachloroethylene (perchloroethylene) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	30	---	0.35	<0.35
Trichloroethylene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:43	2	---	0.17	<0.17
Diquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:12	70	---	1	<1
Paraquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:12	10	---	1	<1
Glyphosate [ug/L]	03-Sep-13	10:09	06-Sep-13	09:12	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	03-Sep-13	07:51	04-Sep-13	15:14	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	0.01	---	0.004	<0.004
Alachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	5	---	0.02	<0.02
Aldicarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	0.7	---	0.01	<0.01
Aldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	5	---	0.01	0.02
Atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	0.02
Desethyl atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	20	---	0.02	<0.02
Bendiocarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	40	---	0.01	<0.01
Carbaryl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	90	---	0.01	<0.01
Carbofuran [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	90	---	0.01	<0.01
Chlordane (total) [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	7	---	0.01	<0.01
a-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
g-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
Oxychlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	90	---	0.02	<0.02
Cyanazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	10	---	0.03	<0.03
Diazinon [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	20	---	0.02	<0.02

Online LIMS

0000015183



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA15397-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #38
(DDT) + Metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	30	---	0.01	<0.01
op-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
pp-DDD [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
pp-DDE [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
pp-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
Dimethoate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	20	---	0.03	<0.03
Diuron [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	3	---	0.01	<0.01
Heptachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	--	---	0.01	<0.01
Lindane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	4	---	0.01	<0.01
Malathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	190	---	0.02	<0.02
Methoxychlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	900	---	0.01	<0.01
Metolachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	50	---	0.01	<0.01
Metribuzin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	80	---	0.02	<0.02
Parathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	50	---	0.02	<0.02
Phorate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	2	---	0.01	<0.01
Prometryne [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	1	---	0.03	<0.03
Simazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	10	---	0.01	<0.01
Temephos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	280	---	0.01	<0.01
Terbufos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	1	---	0.01	<0.01
Triallate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	230	---	0.01	<0.01
Trifluralin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:05	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	280	20	0.22	<0.22
Bromoxynil [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	5	---	0.33	<0.33
Dicamba [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	9	---	0.4	<0.40
Dinoseb [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	10	---	0.36	<0.36
Picloram [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	190	---	1	<1

Online LIMS

0000015183

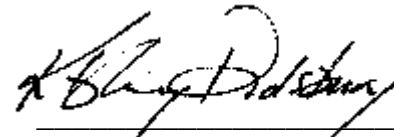
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #38
2,4-dichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.



\_\_\_\_\_  
 Kimberley Didsbury  
 Project Specialist  
 Environmental Services, Analytical





SGS Canada Inc.

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**Trent-Severn Waterway (Northern Sector)**

Attn : Chuck Wilkinson

2023 Kirkfield Road  
Kirkfield, ON  
K0M 2B0,

Phone: 705-438-3153 or 705-887-8390 (cell)  
Fax:705-438-5201

06-September-2013

Date Rec. : 30 August 2013  
LR Report: CA15391-AUG13

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# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock # 39
Sample Date & Time								28-Aug-13 10:55
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	20.0
Fluoride [mg/L]	30-Aug-13	20:55	04-Sep-13	11:29	1.5	---	0.06	0.07
Antimony [ug/L]	05-Sep-13	12:30	06-Sep-13	11:35	6	---	0.02	<0.02
Arsenic [ug/L]	05-Sep-13	12:30	06-Sep-13	11:35	25	---	0.2	0.3
Barium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:35	1000	---	0.01	14.8
Boron [ug/L]	05-Sep-13	12:30	06-Sep-13	11:35	5000	---	0.2	13
Cadmium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:35	5	---	0.003	0.005
Chromium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:35	50	---	0.5	<0.5
Mercury [ug/L]	04-Sep-13	11:43	04-Sep-13	12:26	1	---	0.01	< 0.01
Sodium [mg/L]	05-Sep-13	12:30	06-Sep-13	11:35	20	200	0.01	6.46
Selenium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:35	10	---	1	<1
Uranium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:35	20	---	0.001	0.250
Benzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	14	---	0.33	<0.33

Online LIMS

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SGS Canada Inc.

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA15391-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock # 39
1,2-Dichloroethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	5	---	0.35	<0.35
Dichloromethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	80	30	0.30	<0.30
Tetrachloroethylene (perchloroethylene) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	30	---	0.35	<0.35
Trichloroethylene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	2	---	0.17	<0.17
Diquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:06	70	---	1	<1
Paraquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:06	10	---	1	<1
Glyphosate [ug/L]	03-Sep-13	10:09	06-Sep-13	09:06	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	03-Sep-13	07:51	04-Sep-13	15:13	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	0.01	---	0.004	<0.004
Alachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	5	---	0.02	<0.02
Aldicarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	0.7	---	0.01	<0.01
Aldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	5	---	0.01	<0.01
Atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Desethyl atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	20	---	0.02	<0.02
Bendiocarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	40	---	0.01	<0.01
Carbaryl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	90	---	0.01	<0.01
Carbofuran [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	90	---	0.01	<0.01
Chlordane (total) [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	7	---	0.01	<0.01
a-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
g-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Oxychlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	90	---	0.02	<0.02
Cyanazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	10	---	0.03	<0.03
Diazinon [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	20	---	0.02	<0.02

Online LIMS

0000015194



SGS Canada Inc.

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Lakefield - Ontario - KOL 2HO  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA15391-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock # 39
(DDT) + Metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	30	---	0.01	<0.01
op-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
pp-DDD [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
pp-DDE [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
pp-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Dimethoate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	20	---	0.03	<0.03
Diuron [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	3	---	0.01	<0.01
Heptachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Lindane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	4	---	0.01	<0.01
Malathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	190	---	0.02	<0.02
Methoxychlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	900	---	0.01	<0.01
Metolachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	50	---	0.01	<0.01
Metribuzin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	80	---	0.02	<0.02
Parathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	50	---	0.02	<0.02
Phorate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	2	---	0.01	<0.01
Prometryne [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	1	---	0.03	<0.03
Simazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	10	---	0.01	<0.01
Temephos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	280	---	0.01	<0.01
Terbufos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	1	---	0.01	<0.01
Triallate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	230	---	0.01	<0.01
Trifluralin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:50	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:50	280	20	0.22	<0.22
Bromoxynil [ug/L]	03-Sep-13	07:40	05-Sep-13	11:50	5	---	0.33	<0.33
Dicamba [ug/L]	03-Sep-13	07:40	05-Sep-13	11:50	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	03-Sep-13	07:40	05-Sep-13	11:50	9	---	0.4	<0.40
Dinoseb [ug/L]	03-Sep-13	07:40	05-Sep-13	11:50	10	---	0.36	<0.36
Picloram [ug/L]	03-Sep-13	07:40	05-Sep-13	11:50	190	---	1	<1

Online LIMS

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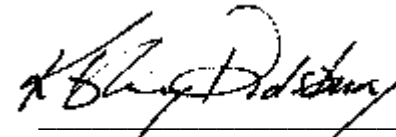
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock # 39
2,4-dichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:50	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:50	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:50	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:50	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.



Kimberley Didsbury  
Project Specialist  
Environmental Services, Analytical



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**Trent-Severn Waterway (Northern Sector)**

Attn : Chuck Wilkinson

2023 Kirkfield Road  
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Phone: 705-438-3153 or 705-887-8390 (cell)  
Fax:705-438-5201

06-September-2013

Date Rec. : 30 August 2013  
LR Report: CA15401-AUG13

Copy: #1

# CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #40
Sample Date & Time								28-Aug-13 11:05
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	20.0
Fluoride [mg/L]	30-Aug-13	20:55	04-Sep-13	11:34	1.5	---	0.06	0.07
Antimony [ug/L]	05-Sep-13	12:30	06-Sep-13	11:39	6	---	0.02	0.06
Arsenic [ug/L]	05-Sep-13	12:30	06-Sep-13	11:39	25	---	0.2	0.4
Barium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:39	1000	---	0.01	17.7
Boron [ug/L]	05-Sep-13	12:30	06-Sep-13	11:39	5000	---	0.2	13
Cadmium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:39	5	---	0.003	0.003
Chromium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:39	50	---	0.5	<0.5
Mercury [ug/L]	04-Sep-13	11:43	04-Sep-13	12:27	1	---	0.01	0.01
Sodium [mg/L]	05-Sep-13	12:30	06-Sep-13	11:39	20	200	0.01	4.77
Selenium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:39	10	---	1	<1
Uranium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:39	20	---	0.001	0.043
Benzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	14	---	0.33	<0.33

Online LIMS

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SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA15401-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #40
1,2-Dichloroethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	5	---	0.35	<0.35
Dichloromethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	80	30	0.30	<0.30
Tetrachloroethylene (perchloroethylene) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	30	---	0.35	<0.35
Trichloroethylene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	2	---	0.17	<0.17
Diquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:14	70	---	1	<1
Paraquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:14	10	---	1	<1
Glyphosate [ug/L]	03-Sep-13	10:09	06-Sep-13	09:14	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	03-Sep-13	07:51	04-Sep-13	15:14	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	0.01	---	0.004	<0.004
Alachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	5	---	0.02	<0.02
Aldicarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	0.7	---	0.01	<0.01
Aldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	5	---	0.01	0.03
Atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	0.03
Desethyl atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	20	---	0.02	<0.02
Bendiocarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	40	---	0.01	<0.01
Carbaryl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	90	---	0.01	<0.01
Carbofuran [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	90	---	0.01	<0.01
Chlordane (total) [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	7	---	0.01	<0.01
a-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
g-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Oxychlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	90	---	0.02	<0.02
Cyanazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	10	---	0.03	<0.03
Diazinon [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	20	---	0.02	<0.02

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SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA15401-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #40
(DDT) + Metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	30	---	0.01	<0.01
op-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
pp-DDD [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
pp-DDE [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
pp-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Dimethoate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	20	---	0.03	<0.03
Diuron [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	3	---	0.01	<0.01
Heptachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Lindane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	4	---	0.01	<0.01
Malathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	190	---	0.02	<0.02
Methoxychlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	900	---	0.01	<0.01
Metolachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	50	---	0.01	<0.01
Metribuzin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	80	---	0.02	<0.02
Parathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	50	---	0.02	<0.02
Phorate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	2	---	0.01	<0.01
Prometryne [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	1	---	0.03	<0.03
Simazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	10	---	0.01	<0.01
Temephos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	280	---	0.01	<0.01
Terbufos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	1	---	0.01	<0.01
Triallate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	230	---	0.01	<0.01
Trifluralin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	280	20	0.22	<0.22
Bromoxynil [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	5	---	0.33	<0.33
Dicamba [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	9	---	0.4	<0.40
Dinoseb [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	10	---	0.36	<0.36
Picloram [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	190	---	1	<1

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Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #40
2,4-dichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.

\_\_\_\_\_  
 Kimberley Didsbury  
 Project Specialist  
 Environmental Services, Analytical





SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
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**Trent-Severn Waterway (Northern Sector)**

Attn : Chuck Wilkinson

2023 Kirkfield Road  
Kirkfield, ON  
K0M 2B0,

Phone: 705-438-3153 or 705-887-8390 (cell)  
Fax:705-438-5201

06-September-2013

Date Rec. : 30 August 2013  
LR Report: CA15400-AUG13

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #41
Sample Date & Time								28-Aug-13 11:20
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	20.0
Fluoride [mg/L]	30-Aug-13	20:55	04-Sep-13	11:34	1.5	---	0.06	0.10
Antimony [ug/L]	05-Sep-13	12:30	06-Sep-13	11:39	6	---	0.02	0.04
Arsenic [ug/L]	05-Sep-13	12:30	06-Sep-13	11:39	25	---	0.2	0.5
Barium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:39	1000	---	0.01	30.2
Boron [ug/L]	05-Sep-13	12:30	06-Sep-13	11:39	5000	---	0.2	14
Cadmium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:39	5	---	0.003	0.015
Chromium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:39	50	---	0.5	<0.5
Mercury [ug/L]	04-Sep-13	11:43	04-Sep-13	12:27	1	---	0.01	< 0.01
Sodium [mg/L]	05-Sep-13	12:30	06-Sep-13	11:39	20	200	0.01	8.91
Selenium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:39	10	---	1	<1
Uranium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:39	20	---	0.001	0.952
Benzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	14	---	0.33	<0.33

Online LIMS

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SGS Canada Inc.

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Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA15400-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #41
1,2-Dichloroethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	5	---	0.35	<0.35
Dichloromethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	80	30	0.30	<0.30
Tetrachloroethylene (perchloroethylene) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	30	---	0.35	<0.35
Trichloroethylene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	2	---	0.17	<0.17
Diquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:13	70	---	1	<1
Paraquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:13	10	---	1	<1
Glyphosate [ug/L]	03-Sep-13	10:09	06-Sep-13	09:13	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	03-Sep-13	07:51	04-Sep-13	15:14	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	0.01	---	0.004	<0.004
Alachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	5	---	0.02	<0.02
Aldicarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	0.7	---	0.01	<0.01
Aldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	5	---	0.01	<0.01
Atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Desethyl atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	20	---	0.02	<0.02
Bendiocarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	40	---	0.01	<0.01
Carbaryl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	90	---	0.01	<0.01
Carbofuran [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	90	---	0.01	<0.01
Chlordane (total) [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	7	---	0.01	<0.01
a-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
g-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Oxychlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	90	---	0.02	<0.02
Cyanazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	10	---	0.03	<0.03
Diazinon [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	20	---	0.02	<0.02

Online LIMS

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SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA15400-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #41
(DDT) + Metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	30	---	0.01	<0.01
op-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
pp-DDD [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
pp-DDE [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
pp-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Dimethoate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	20	---	0.03	<0.03
Diuron [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	3	---	0.01	<0.01
Heptachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Lindane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	4	---	0.01	<0.01
Malathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	190	---	0.02	<0.02
Methoxychlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	900	---	0.01	<0.01
Metolachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	50	---	0.01	<0.01
Metribuzin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	80	---	0.02	<0.02
Parathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	50	---	0.02	<0.02
Phorate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	2	---	0.01	<0.01
Prometryne [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	1	---	0.03	<0.03
Simazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	10	---	0.01	<0.01
Temephos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	280	---	0.01	<0.01
Terbufos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	1	---	0.01	<0.01
Triallate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	230	---	0.01	<0.01
Trifluralin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	280	20	0.22	<0.22
Bromoxynil [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	5	---	0.33	<0.33
Dicamba [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	9	---	0.4	<0.40
Dinoseb [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	10	---	0.36	<0.36
Picloram [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	190	---	1	<1

Online LIMS

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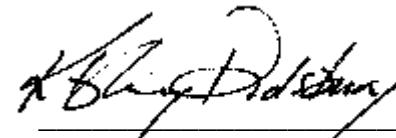
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #41
2,4-dichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:58	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.



\_\_\_\_\_  
 Kimberley Didsbury  
 Project Specialist  
 Environmental Services, Analytical



SGS Canada Inc.

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**Trent-Severn Waterway (Northern Sector)**

Attn : Chuck Wilkinson

2023 Kirkfield Road  
Kirkfield, ON  
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Phone: 705-438-3153 or 705-887-8390 (cell)  
Fax:705-438-5201

06-September-2013

Date Rec. : 30 August 2013  
LR Report: CA15396-AUG13

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# CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #42
Sample Date & Time								29-Aug-13 10:15
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	19.0
Fluoride [mg/L]	30-Aug-13	20:55	04-Sep-13	11:32	1.5	---	0.06	< 0.06
Antimony [ug/L]	05-Sep-13	12:30	06-Sep-13	11:37	6	---	0.02	0.08
Arsenic [ug/L]	05-Sep-13	12:30	06-Sep-13	11:37	25	---	0.2	0.7
Barium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:37	1000	---	0.01	25.8
Boron [ug/L]	05-Sep-13	12:30	06-Sep-13	11:37	5000	---	0.2	19
Cadmium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:37	5	---	0.003	0.015
Chromium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:37	50	---	0.5	<0.5
Mercury [ug/L]	04-Sep-13	11:43	04-Sep-13	12:26	1	---	0.01	< 0.01
Sodium [mg/L]	05-Sep-13	12:30	06-Sep-13	11:37	20	200	0.01	26.6
Selenium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:37	10	---	1	<1
Uranium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:37	20	---	0.001	0.295
Benzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	14	---	0.33	<0.33

Online LIMS

0000015185



SGS Canada Inc.

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LR Report : CA15396-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #42
1,2-Dichloroethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	5	---	0.35	<0.35
Dichloromethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	80	30	0.30	<0.30
Tetrachloroethylene (perchloroethylene) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	30	---	0.35	<0.35
Trichloroethylene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:42	2	---	0.17	<0.17
Diquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:11	70	---	1	<1
Paraquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:11	10	---	1	<1
Glyphosate [ug/L]	03-Sep-13	10:09	06-Sep-13	09:11	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	03-Sep-13	07:51	04-Sep-13	15:14	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	0.01	---	0.004	<0.004
Alachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	5	---	0.02	<0.02
Aldicarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	0.7	---	0.01	<0.01
Aldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	5	---	0.01	0.02
Atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	0.01
Desethyl atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	0.01
Azinphos-methyl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	20	---	0.02	<0.02
Bendiocarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	40	---	0.01	<0.01
Carbaryl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	90	---	0.01	<0.01
Carbofuran [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	90	---	0.01	<0.01
Chlordane (total) [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	7	---	0.01	<0.01
a-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
g-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Oxychlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	90	---	0.02	<0.02
Cyanazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	10	---	0.03	<0.03
Diazinon [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	20	---	0.02	<0.02

Online LIMS

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SGS Canada Inc.

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LR Report : CA15396-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #42
(DDT) + Metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	30	---	0.01	<0.01
op-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
pp-DDD [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
pp-DDE [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
pp-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Dimethoate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	20	---	0.03	<0.03
Diuron [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	3	---	0.01	<0.01
Heptachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	--	---	0.01	<0.01
Lindane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	4	---	0.01	<0.01
Malathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	190	---	0.02	<0.02
Methoxychlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	900	---	0.01	<0.01
Metolachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	50	---	0.01	<0.01
Metribuzin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	80	---	0.02	<0.02
Parathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	50	---	0.02	<0.02
Phorate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	2	---	0.01	<0.01
Prometryne [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	1	---	0.03	<0.03
Simazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	10	---	0.01	<0.01
Temephos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	280	---	0.01	<0.01
Terbufos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	1	---	0.01	<0.01
Triallate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	230	---	0.01	<0.01
Trifluralin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:04	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	280	20	0.22	<0.22
Bromoxynil [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	5	---	0.33	<0.33
Dicamba [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	9	---	0.4	<0.40
Dinoseb [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	10	---	0.36	<0.36
Picloram [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	190	---	1	<1

Online LIMS

0000015185

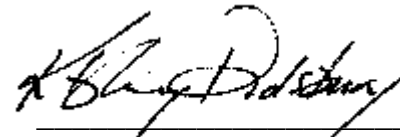
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Lock #42
2,4-dichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:57	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.



Kimberley Didsbury  
 Project Specialist  
 Environmental Services, Analytical





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Phone: 705-438-3153 or 705-887-8390 (cell)  
Fax:705-438-5201

06-September-2013

Date Rec. : 30 August 2013  
LR Report: CA15404-AUG13

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR L-43 Swift
Sample Date & Time								29-Aug-13 11:15
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	21.0
Fluoride [mg/L]	30-Aug-13	20:55	04-Sep-13	11:34	1.5	---	0.06	0.06
Antimony [ug/L]	05-Sep-13	12:30	06-Sep-13	11:44	6	---	0.02	0.08
Arsenic [ug/L]	05-Sep-13	12:30	06-Sep-13	11:44	25	---	0.2	0.7
Barium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:44	1000	---	0.01	27.1
Boron [ug/L]	05-Sep-13	12:30	06-Sep-13	11:44	5000	---	0.2	17
Cadmium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:44	5	---	0.003	<0.003
Chromium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:44	50	---	0.5	<0.5
Mercury [ug/L]	04-Sep-13	11:43	04-Sep-13	12:27	1	---	0.01	< 0.01
Sodium [mg/L]	05-Sep-13	12:30	06-Sep-13	11:44	20	200	0.01	25.1
Selenium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:44	10	---	1	<1
Uranium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:44	20	---	0.001	0.251
Benzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	14	---	0.33	<0.33

Online LIMS

0000015169



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LR Report : CA15404-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR L-43 Swift
1,2-Dichloroethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	5	---	0.35	<0.35
Dichloromethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	80	30	0.30	<0.30
Tetrachloroethylene (perchloroethylene) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	30	---	0.35	<0.35
Trichloroethylene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:45	2	---	0.17	<0.17
Diquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:17	70	---	1	<1
Paraquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:17	10	---	1	<1
Glyphosate [ug/L]	03-Sep-13	10:09	06-Sep-13	09:17	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	03-Sep-13	07:51	04-Sep-13	15:15	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	0.01	---	0.004	<0.004
Alachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	5	---	0.02	<0.02
Aldicarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	0.7	---	0.01	<0.01
Aldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	5	---	0.01	0.03
Atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	0.02
Desethyl atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Azinphos-methyl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	20	---	0.02	<0.02
Bendiocarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	40	---	0.01	<0.01
Carbaryl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	90	---	0.01	<0.01
Carbofuran [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	90	---	0.01	<0.01
Chlordane (total) [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	7	---	0.01	<0.01
a-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
g-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Oxychlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	90	---	0.02	<0.02
Cyanazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	10	---	0.03	<0.03
Diazinon [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	20	---	0.02	<0.02

Online LIMS

0000015169



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LR Report : CA15404-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR L-43 Swift
(DDT) + Metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	30	---	0.01	<0.01
op-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
pp-DDD [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
pp-DDE [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
pp-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Dimethoate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	20	---	0.03	<0.03
Diuron [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	3	---	0.01	<0.01
Heptachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Lindane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	4	---	0.01	<0.01
Malathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	190	---	0.02	<0.02
Methoxychlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	900	---	0.01	<0.01
Metolachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	50	---	0.01	<0.01
Metribuzin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	80	---	0.02	<0.02
Parathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	50	---	0.02	<0.02
Phorate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	2	---	0.01	<0.01
Prometryne [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	1	---	0.03	<0.03
Simazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	10	---	0.01	<0.01
Temephos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	280	---	0.01	<0.01
Terbufos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	1	---	0.01	<0.01
Triallate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	230	---	0.01	<0.01
Trifluralin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	280	20	0.22	<0.22
Bromoxynil [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	5	---	0.33	<0.33
Dicamba [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	9	---	0.4	<0.40
Dinoseb [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	10	---	0.36	<0.36
Picloram [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	190	---	1	<1

Online LIMS

0000015169

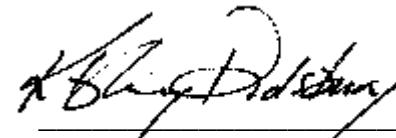
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR L-43 Swift
2,4-dichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.



Kimberley Didsbury  
 Project Specialist  
 Environmental Services, Analytical



SGS Canada Inc.

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**Trent-Severn Waterway (Northern Sector)**

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Phone: 705-438-3153 or 705-887-8390 (cell)  
Fax:705-438-5201

06-September-2013

Date Rec. : 30 August 2013  
LR Report: CA15402-AUG13

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# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR L-44 Bug Chute
Sample Date & Time								29-Aug-13 13:05
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	20.0
Fluoride [mg/L]	30-Aug-13	20:55	04-Sep-13	11:34	1.5	---	0.06	0.06
Antimony [ug/L]	05-Sep-13	12:30	06-Sep-13	11:40	6	---	0.02	0.07
Arsenic [ug/L]	05-Sep-13	12:30	06-Sep-13	11:40	25	---	0.2	0.8
Barium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:40	1000	---	0.01	26.0
Boron [ug/L]	05-Sep-13	12:30	06-Sep-13	11:40	5000	---	0.2	18
Cadmium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:40	5	---	0.003	<0.003
Chromium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:40	50	---	0.5	<0.5
Mercury [ug/L]	04-Sep-13	11:43	04-Sep-13	12:27	1	---	0.01	< 0.01
Sodium [mg/L]	05-Sep-13	12:30	06-Sep-13	11:40	20	200	0.01	24.5
Selenium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:40	10	---	1	<1
Uranium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:40	20	---	0.001	0.324
Benzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:44	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:44	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:44	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:44	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:44	14	---	0.33	<0.33

Online LIMS

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LR Report : CA15402-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR L-44 Bug Chute
1,2-Dichloroethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:44	5	---	0.35	<0.35
Dichloromethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:44	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:44	80	30	0.30	<0.30
Tetrachloroethylene (perchloroethylene) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:44	30	---	0.35	<0.35
Trichloroethylene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:44	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:44	2	---	0.17	<0.17
Diquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:16	70	---	1	<1
Paraquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:16	10	---	1	<1
Glyphosate [ug/L]	03-Sep-13	10:09	06-Sep-13	09:16	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	03-Sep-13	07:51	04-Sep-13	15:15	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	0.01	---	0.004	<0.004
Alachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	5	---	0.02	<0.02
Aldicarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	0.7	---	0.01	<0.01
Aldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	5	---	0.01	0.02
Atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	0.01
Desethyl atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	0.01
Azinphos-methyl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	20	---	0.02	<0.02
Bendiocarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	40	---	0.01	<0.01
Carbaryl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	90	---	0.01	<0.01
Carbofuran [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	90	---	0.01	<0.01
Chlordane (total) [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	7	---	0.01	<0.01
a-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
g-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Oxychlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	90	---	0.02	<0.02
Cyanazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	10	---	0.03	<0.03
Diazinon [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	20	---	0.02	<0.02

Online LIMS

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SGS Canada Inc.

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA15402-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR L-44 Bug Chute
(DDT) + Metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	30	---	0.01	<0.01
op-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
pp-DDD [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
pp-DDE [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
pp-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Dimethoate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	20	---	0.03	<0.03
Diuron [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	3	---	0.01	<0.01
Heptachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	--	---	0.01	<0.01
Lindane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	4	---	0.01	<0.01
Malathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	190	---	0.02	<0.02
Methoxychlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	900	---	0.01	<0.01
Metolachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	50	---	0.01	<0.01
Metribuzin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	80	---	0.02	<0.02
Parathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	50	---	0.02	<0.02
Phorate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	2	---	0.01	<0.01
Prometryne [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	1	---	0.03	<0.03
Simazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	10	---	0.01	<0.01
Temephos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	280	---	0.01	<0.01
Terbufos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	1	---	0.01	<0.01
Triallate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	230	---	0.01	<0.01
Trifluralin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:06	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	280	20	0.22	<0.22
Bromoxynil [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	5	---	0.33	<0.33
Dicamba [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	9	---	0.4	<0.40
Dinoseb [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	10	---	0.36	<0.36
Picloram [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	190	---	1	<1

Online LIMS

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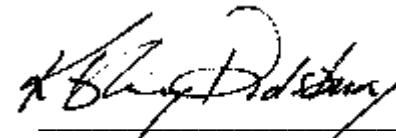
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR L-44 Bug Chute
2,4-dichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.



Kimberley Didsbury  
Project Specialist  
Environmental Services, Analytical





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**Trent-Severn Waterway (Northern Sector)**

Attn : Chuck Wilkinson

2023 Kirkfield Road  
Kirkfield, ON  
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Phone: 705-438-3153 or 705-887-8390 (cell)  
Fax:705-438-5201

06-September-2013

Date Rec. : 30 August 2013  
LR Report: CA15393-AUG13

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR L-45 Port Severn
Sample Date & Time								29-Aug-13 14:00
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	21.0
Fluoride [mg/L]	30-Aug-13	20:55	04-Sep-13	11:32	1.5	---	0.06	< 0.06
Antimony [ug/L]	05-Sep-13	12:30	06-Sep-13	11:36	6	---	0.02	0.08
Arsenic [ug/L]	05-Sep-13	12:30	06-Sep-13	11:36	25	---	0.2	0.6
Barium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:36	1000	---	0.01	27.4
Boron [ug/L]	05-Sep-13	12:30	06-Sep-13	11:36	5000	---	0.2	17
Cadmium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:36	5	---	0.003	<0.003
Chromium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:36	50	---	0.5	<0.5
Mercury [ug/L]	04-Sep-13	11:43	04-Sep-13	12:26	1	---	0.01	< 0.01
Sodium [mg/L]	05-Sep-13	12:30	06-Sep-13	11:36	20	200	0.01	20.4
Selenium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:36	10	---	1	<1
Uranium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:36	20	---	0.001	0.250
Benzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	14	---	0.33	<0.33

Online LIMS

0000015191



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LR Report : CA15393-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR L-45 Port Severn
1,2-Dichloroethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	5	---	0.35	<0.35
Dichloromethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	80	30	0.30	<0.30
Tetrachloroethylene (perchloroethylene) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	30	---	0.35	<0.35
Trichloroethylene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	2	---	0.17	<0.17
Diquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:07	70	---	1	<1
Paraquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:07	10	---	1	<1
Glyphosate [ug/L]	03-Sep-13	10:09	06-Sep-13	09:07	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	03-Sep-13	07:51	04-Sep-13	15:13	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	0.01	---	0.004	<0.004
Alachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	5	---	0.02	<0.02
Aldicarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	0.7	---	0.01	<0.01
Aldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	5	---	0.01	0.01
Atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Desethyl atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	0.01
Azinphos-methyl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	20	---	0.02	<0.02
Bendiocarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	40	---	0.01	<0.01
Carbaryl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	90	---	0.01	<0.01
Carbofuran [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	90	---	0.01	<0.01
Chlordane (total) [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	7	---	0.01	<0.01
a-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
g-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Oxychlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	90	---	0.02	<0.02
Cyanazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	10	---	0.03	<0.03
Diazinon [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	20	---	0.02	<0.02

Online LIMS

0000015191



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LR Report : CA15393-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR L-45 Port Severn
(DDT) + Metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	30	---	0.01	<0.01
op-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
pp-DDD [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
pp-DDE [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
pp-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Dimethoate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	20	---	0.03	<0.03
Diuron [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	3	---	0.01	<0.01
Heptachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	--	---	0.01	<0.01
Lindane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	4	---	0.01	<0.01
Malathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	190	---	0.02	<0.02
Methoxychlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	900	---	0.01	<0.01
Metolachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	50	---	0.01	<0.01
Metribuzin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	80	---	0.02	<0.02
Parathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	50	---	0.02	<0.02
Phorate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	2	---	0.01	<0.01
Prometryne [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	1	---	0.03	<0.03
Simazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	10	---	0.01	<0.01
Temephos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	280	---	0.01	<0.01
Terbufos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	1	---	0.01	<0.01
Triallate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	230	---	0.01	<0.01
Trifluralin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:03	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:56	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:56	280	20	0.22	<0.22
Bromoxynil [ug/L]	03-Sep-13	07:40	05-Sep-13	11:56	5	---	0.33	<0.33
Dicamba [ug/L]	03-Sep-13	07:40	05-Sep-13	11:56	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	03-Sep-13	07:40	05-Sep-13	11:56	9	---	0.4	<0.40
Dinoseb [ug/L]	03-Sep-13	07:40	05-Sep-13	11:56	10	---	0.36	<0.36
Picloram [ug/L]	03-Sep-13	07:40	05-Sep-13	11:56	190	---	1	<1

Online LIMS

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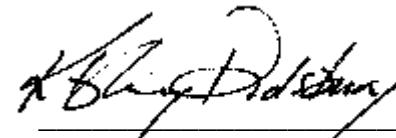
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR L-45 Port Severn
2,4-dichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:56	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:56	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:56	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:56	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

NR - Not reportable under applicable Provincial drinking water regulations as per client.



\_\_\_\_\_  
 Kimberley Didsbury  
 Project Specialist  
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SGS Canada Inc.

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**Trent-Severn Waterway (Northern Sector)**

Attn : Chuck Wilkinson

2023 Kirkfield Road  
Kirkfield, ON  
K0M 2B0,

Phone: 705-438-3153 or 705-887-8390 (cell)  
Fax:705-438-5201

06-September-2013

Date Rec. : 30 August 2013  
LR Report: CA15403-AUG13

Copy: #1

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Washago Shop
Sample Date & Time								29-Aug-13 08:50
Temperature Upon Receipt [°C]	---	---	--	--	--	---	---	21.0
Fluoride [mg/L]	30-Aug-13	20:55	04-Sep-13	11:34	1.5	---	0.06	0.06
Antimony [ug/L]	05-Sep-13	12:30	06-Sep-13	11:43	6	---	0.02	0.08
Arsenic [ug/L]	05-Sep-13	12:30	06-Sep-13	11:43	25	---	0.2	0.6
Barium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:43	1000	---	0.01	26.1
Boron [ug/L]	05-Sep-13	12:30	06-Sep-13	11:43	5000	---	0.2	20
Cadmium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:43	5	---	0.003	<0.003
Chromium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:43	50	---	0.5	<0.5
Mercury [ug/L]	04-Sep-13	11:43	04-Sep-13	12:27	1	---	0.01	< 0.01
Sodium [mg/L]	05-Sep-13	12:30	06-Sep-13	11:44	20	200	0.01	27.0
Selenium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:44	10	---	1	<1
Uranium [ug/L]	05-Sep-13	12:30	06-Sep-13	11:44	20	---	0.001	0.246
Benzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	5	---	0.32	<0.32
Carbon tetrachloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	5	---	0.16	<0.16
1,2-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	200	3	0.41	<0.41
1,4-Dichlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	5	1	0.36	<0.36
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	14	---	0.33	<0.33

Online LIMS

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LR Report : CA15403-AUG13

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Washago Shop
1,2-Dichloroethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	5	---	0.35	<0.35
Dichloromethane [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	50	---	0.35	<0.35
Monochlorobenzene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	80	30	0.30	<0.30
Tetrachloroethylene (perchloroethylene) [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	30	---	0.35	<0.35
Trichloroethylene [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	5	---	0.44	<0.44
Vinyl Chloride [ug/L]	30-Aug-13	15:44	04-Sep-13	09:46	2	---	0.17	<0.17
Diquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:17	70	---	1	<1
Paraquat [ug/L]	03-Sep-13	10:04	06-Sep-13	09:17	10	---	1	<1
Glyphosate [ug/L]	03-Sep-13	10:09	06-Sep-13	09:17	280	---	1	<1
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	03-Sep-13	07:51	04-Sep-13	15:15	3	---	0.04	<0.04
Benzo(a)pyrene [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	0.01	---	0.004	<0.004
Alachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	5	---	0.02	<0.02
Aldicarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	9	---	0.01	<0.01
Aldrin + Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	0.7	---	0.01	<0.01
Aldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Dieldrin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Atrazine + N-dealkylated metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	5	---	0.01	0.03
Atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	0.02
Desethyl atrazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	0.02
Azinphos-methyl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	20	---	0.02	<0.02
Bendiocarb [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	40	---	0.01	<0.01
Carbaryl [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	90	---	0.01	<0.01
Carbofuran [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	90	---	0.01	<0.01
Chlordane (total) [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	7	---	0.01	<0.01
a-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
g-chlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Oxychlordane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Chlorpyrifos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	90	---	0.02	<0.02
Cyanazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	10	---	0.03	<0.03
Diazinon [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	20	---	0.02	<0.02

Online LIMS

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LR Report : CA15403-AUG13

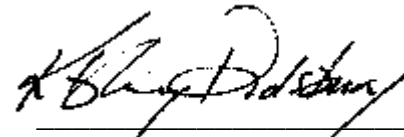
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Washago Shop
(DDT) + Metabolites [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	30	---	0.01	<0.01
op-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
pp-DDD [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
pp-DDE [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
pp-DDT [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Dimethoate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	20	---	0.03	<0.03
Diuron [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	150	---	0.03	<0.03
Heptachlor + Heptachlor Epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	3	---	0.01	<0.01
Heptachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Heptachlor epoxide [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	--	---	0.01	<0.01
Lindane [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	4	---	0.01	<0.01
Malathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	190	---	0.02	<0.02
Methoxychlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	900	---	0.01	<0.01
Metolachlor [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	50	---	0.01	<0.01
Metribuzin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	80	---	0.02	<0.02
Parathion [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	50	---	0.02	<0.02
Phorate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	2	---	0.01	<0.01
Prometryne [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	1	---	0.03	<0.03
Simazine [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	10	---	0.01	<0.01
Temephos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	280	---	0.01	<0.01
Terbufos [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	1	---	0.01	<0.01
Triallate [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	230	---	0.01	<0.01
Trifluralin [ug/L]	04-Sep-13	08:02	05-Sep-13	15:07	45	---	0.02	<0.02
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	100	---	0.19	<0.19
2,4,5-trichlorophenoxyacetic acid (2,4,5-T) [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	280	20	0.22	<0.22
Bromoxynil [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	5	---	0.33	<0.33
Dicamba [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	120	---	0.2	<0.20
Diclofop-methyl [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	9	---	0.4	<0.40
Dinoseb [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	10	---	0.36	<0.36
Picloram [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	190	---	1	<1

Online LIMS

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Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: MAC	6: AO/OG	7: MDL	8: NR Washago Shop
2,4-dichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	900	0.3	0.15	<0.15
2,4,6-trichlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	5	2	0.25	<0.25
2,3,4,6-tetrachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	100	1	0.14	<0.14
Pentachlorophenol [ug/L]	03-Sep-13	07:40	05-Sep-13	11:59	60	30	0.15	<0.15

MAC - Maximum Acceptable Concentration  
 AO/OG - Aesthetic Objective / Operational Guideline  
 MDL - SGS Method Detection Limit  
 NR - Not reportable under applicable Provincial drinking water regulations as per client.



Kimberley Didsbury  
 Project Specialist  
 Environmental Services, Analytical