

C.O.C.: C09994 & C09995

REPORT No. B09-09187

**Report To:**

**XCG Consultants**

6 Cataragui Street Woolen Mill, West Wing, Suite 105  
 Kingston, ON, K7K 1Z7

**Attention:** Mark Dickson

**Caduceon Environmental Laboratories**

285 Dalton Ave  
 Kingston, Ontario, K7K 6Z1  
 Tel: 613-544-2001  
 Fax: 613-544-2770

DATE RECEIVED: 02-Apr-09

JOB/PROJECT NO.: Richmond Landfill

DATE REPORTED: 17-Apr-09

P.O. NUMBER: 1-664-17-03

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

<b>Client I.D.:</b>	DS-09	US-09		
<b>Sample I.D.:</b>	B09-09187-1	B09-09187-2		
<b>Date Collected:</b>	01-Apr-09	01-Apr-09		

Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
Alkalinity (as CaCO3)	mg/L	3	SM 2320	02-Apr-09/K	208	204		
Conductivity	µmho/cm	1	SM2513	02-Apr-09/K	500	533		
pH	pH Units		SM4300H+	02-Apr-09/K	7.91	7.96		
Chloride	mg/L	1	SM4110	13-Apr-09/K	27	35		
Nitrite (N)	mg/L	0.1	SM4110	06-Apr-09/K	< 0.1	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110	06-Apr-09/K	0.1	0.8		
Sulphate	mg/L	1	SM4110	06-Apr-09/K	10	15		
BOD(5 day)	mg/L	2	SM 5210B	03-Apr-09/K	< 2	< 2		
Phosphorus-Total	mg/L	0.01	E3199A.1	03-Apr-09/K	0.04	0.08		
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	03-Apr-09/K	0.1	0.3		
Ammonia (N)-Total	mg/L	0.05	EPA 350.2	03-Apr-09/K	< 0.05	< 0.05		
Dissolved Organic Carbon	mg/L	0.2	EPA 415.1	06-Apr-09/O	4.9	5.8		
Total Organic Carbon	mg/L	0.2	EPA 415.1	06-Apr-09/O	5.0	5.8		
Phenolics	mg/L	0.001	EPA 420.2	06-Apr-09/O	< 0.001	< 0.001		
Total Cyanide	mg/L	0.005	SM 4500CN	16-Apr-09/K	< 0.005	< 0.005		
COD	mg/L	5	HACH 8000	06-Apr-09/O	15	12		
Hardness (as CaCO3)	mg/L	1	SM 3120	06-Apr-09/O	256	251		
Aluminum	mg/L	0.01	SM 3120	06-Apr-09/O	0.05	0.68		
Arsenic	mg/L	0.0005	EPA 200.8	07-Apr-09/O	< 0.0005	< 0.0005		
Cadmium	mg/L	0.0001	EPA 200.8	07-Apr-09/O	< 0.0001	< 0.0001		
Calcium	mg/L	0.02	SM 3120	06-Apr-09/O	84.5	81.4		
Chromium	mg/L	0.001	EPA 200.8	07-Apr-09/O	0.003	0.004		
Chromium (VI)	mg/L	0.01	EPA7196	08-Apr-09/O	< 0.01	< 0.01		
Copper	mg/L	0.002	SM 3120	06-Apr-09/O	< 0.002	< 0.002		
Iron	mg/L	0.005	SM 3120	06-Apr-09/O	0.030	0.582		
Lead	mg/L	0.0001	EPA 200.8	07-Apr-09/O	0.0005	0.0007		
Magnesium	mg/L	0.01	SM 3120	06-Apr-09/O	10.9	11.5		
Mercury	mg/L	0.00002	SM 3112	06-Apr-09/O	< 0.00002	< 0.00002		



Michelle Dubien  
 Lab Supervisor

M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston, W-Windsor, O-Ottawa, P-Peterborough, M-Moncton

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

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Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
Nickel	mg/L	0.01	SM 3120	06-Apr-09/O	< 0.01	< 0.01		
Potassium	mg/L	0.1	SM 3120	06-Apr-09/O	1.0	2.4		
Selenium	mg/L	0.001	EPA 200.8	07-Apr-09/O	< 0.001	< 0.001		
Silver	mg/L	0.0001	EPA 200.8	07-Apr-09/O	< 0.0001	< 0.0001		
Sodium	mg/L	0.2	SM 3120	06-Apr-09/O	17.4	21.2		
Zinc	mg/L	0.005	SM 3120	06-Apr-09/O	< 0.005	< 0.005		



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