

C.O.C.: C03556

REPORT No. B09-08757 (i)

Report To:

XCG Consultants

6 Catarqui 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
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DATE RECEIVED: 30-Mar-09

JOB/PROJECT NO.: Richmond Landfill

DATE REPORTED: 14-Apr-09

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

SAMPLE MATRIX: Groundwater

WATERWORKS NO.

Client I.D.:	MW03-06-D		
Sample I.D.:	B09-08757-1		
Date Collected:	30-Mar-09		

Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Alkalinity (as CaCO3)	mg/L	3	SM 2320	31-Mar-09/K	360		
Conductivity	µmho/cm	1	SM2513	31-Mar-09/K	1210		
pH	pH Units		SM4300H+	31-Mar-09/K	7.73		
Chloride	mg/L	1	SM4110	01-Apr-09/K	137		
Nitrite (N)	mg/L	0.1	SM4110	01-Apr-09/K	0.4		
Nitrate (N)	mg/L	0.1	SM4110	01-Apr-09/K	0.3		
Sulphate	mg/L	1	SM4110	01-Apr-09/K	81		
BOD(5 day)	mg/L	2	SM 5210B	01-Apr-09/K	< 2		
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	02-Apr-09/K	0.2		
Ammonia (N)-Total	mg/L	0.05	EPA 350.2	01-Apr-09/K	0.33		
Total Organic Carbon	mg/L	0.2	EPA 415.1	03-Apr-09/O	3.6		
Dissolved Organic Carbon	mg/L	0.2	EPA 415.1	03-Apr-09/O	2.2		
Phenolics	mg/L	0.001	EPA 420.2	06-Apr-09/O	0.008		
COD	mg/L	5	HACH 8000	03-Apr-09/O	13		
Hardness (as CaCO3)	mg/L	1	SM 3120	02-Apr-09/O	384		
Aluminum	mg/L	0.01	SM 3120	02-Apr-09/O	0.03		
Antimony	mg/L	0.0001	EPA 200.8	06-Apr-09/O	0.0032		
Arsenic	mg/L	0.0001	EPA 200.8	06-Apr-09/O	0.0014		
Barium	mg/L	0.001	SM 3120	02-Apr-09/O	0.100		
Beryllium	mg/L	0.002	SM 3120	02-Apr-09/O	< 0.002		
Boron	mg/L	0.005	SM 3120	02-Apr-09/O	0.269		
Cadmium	mg/L	0.00002	EPA 200.8	06-Apr-09/O	< 0.00002		
Calcium	mg/L	0.02	SM 3120	02-Apr-09/O	86.5		
Chromium	mg/L	0.0002	EPA 200.8	06-Apr-09/O	0.0095		
Chromium (VI)	mg/L	0.01	EPA7196	03-Apr-09/O	< 0.01 ¹		
Cobalt	mg/L	0.0001	EPA 200.8	06-Apr-09/O	0.0008		
Copper	mg/L	0.002	SM 3120	02-Apr-09/O	< 0.002		
Iron	mg/L	0.005	SM 3120	02-Apr-09/O	0.022		

TKN and ammonia are within acceptable analytical limits



M.D.L. = Method Detection Limit
 Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,P-Peterborough,M-Moncton

Michelle Dubien
 Lab Supervisor

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Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Lead	mg/L	0.00002	EPA 200.8	06-Apr-09/O	0.00007		
Magnesium	mg/L	0.01	SM 3120	02-Apr-09/O	40.8		
Mercury	mg/L	0.00002	SM 3112	06-Apr-09/O	< 0.00002		
Molybdenum	mg/L	0.01	SM 3120	02-Apr-09/O	0.01		
Nickel	mg/L	0.01	SM 3120	02-Apr-09/O	< 0.01		
Potassium	mg/L	0.1	SM 3120	02-Apr-09/O	8.5		
Selenium	mg/L	0.0002	EPA 200.8	06-Apr-09/O	0.0026		
Silver	mg/L	0.005	SM 3120	02-Apr-09/O	< 0.005		
Sodium	mg/L	0.2	SM 3120	02-Apr-09/O	106		
Thallium	mg/L	0.00005	EPA 200.8	06-Apr-09/O	< 0.00005		
Vanadium	mg/L	0.005	SM 3120	02-Apr-09/O	< 0.005		
Zinc	mg/L	0.005	SM 3120	02-Apr-09/O	< 0.005		

1 Chromium (VI) result is based on total chromium

TKN and ammonia are within acceptable analytical limits



Michelle Dubien
 Lab Supervisor

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