

Client: Defence Construction Canada (Trenton)  
Box 1000 Bldg 155 CFB Trenton  
Astra, ON  
K0K 3W0  
Attention: Cameron Chadwick  
PO#: TR14ENV5  
Invoice to: Defence Construction Canada

Report Number: 1512423  
Date Submitted: 2015-07-04  
Date Reported: 2015-07-22  
Project:  
COC #: 501777

Page 1 of 11


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Dear Cameron Chadwick:

Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).

Report Comments


APPROVAL:

 Shyla Monette  
2015.07.22 13:39:10  
-04'00'

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Shyla Monette  
Team Leader, Inorganics

APPROVAL:

 Tanya Baillargeon  
2015.07.22  
15:37:28 -04'00'

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Tanya Baillargeon  
Team Lead, Organics

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## EXOVA ENVIRONMENTAL ONTARIO

## Certificate of Analysis



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Project:  
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				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1185989 Water 2015-06-29 ALT-4	1185990 Water 2015-06-29 ALT-8	1185991 Water 2015-06-29 MISC (ALT-8.1)	1185992 Water 2015-06-29 ALT-9
Group	Analyte	MRL	Units	Guideline				
Calculations	Hardness as CaCO <sub>3</sub>	1	mg/L		86			
General Chemistry	Alkalinity as CaCO <sub>3</sub>	5	mg/L		60			
	Br	0.25	mg/L		<0.25			
	Cl	1	mg/L		11			
	COD	5	mg/L		<5			
	Conductivity	5	uS/cm		195			
	F	0.10	mg/L		<0.10			
	N-NO <sub>2</sub>	0.10	mg/L		<0.10			
	N-NO <sub>3</sub>	0.10	mg/L		0.11			
	pH	1.00			7.90			
	SO <sub>4</sub>	1	mg/L		23			
	Total Suspended Solids	1	mg/L		<1			
Mercury	Hg	0.0001	mg/L		<0.0001			
Metals	Ag	0.0001	mg/L		<0.0001			
	As	0.001	mg/L		0.001			
	B	0.01	mg/L		0.03			
	Ba	0.01	mg/L		<0.01			
	Be	0.0005	mg/L		<0.0005			
	Ca	1	mg/L		28			
	Cd	0.0001	mg/L		<0.0001			
	Co	0.0002	mg/L		0.0006			
	Cr	0.001	mg/L		<0.001			
	Cu	0.001	mg/L		0.002			
	Fe	0.03	mg/L		0.23			
	K	1	mg/L		2			
	Mg	1	mg/L		4			

## Guideline =

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Group	Analyte	MRL	Units	Guideline				
Metals	Mo	0.005	mg/L		<0.005			
	Na	2	mg/L		6			
	Ni	0.005	mg/L		<0.005			
	Pb	0.05	ug/L		0.89	0.19	0.08	0.28
	Sb	0.0005	mg/L		0.0011			
	Se	0.001	mg/L		<0.001			
	Tl	0.0001	mg/L		<0.0001			
	U	0.001	mg/L		<0.001			
	V	0.001	mg/L		<0.001			
	Zn	0.01	mg/L		<0.01			
Nutrients	N-NH3	0.05	mg/L		<0.05			
Oil & Grease	Oil & Grease - Mineral	1.0	mg/L		<1.0	<1.0		<1.0
	Oil & Grease - Non-mineral	1.0	mg/L		<1.0	<1.0		<1.0
	Oil & Grease - Total	1.0	mg/L		<1.0	<1.0		<1.0
PHC (Hydrocarbons)	F1 (C6-C10)	20	ug/L		<20			
	F1-BTEX (C6-C10)	20	ug/L		<20			
	F2 (C10-C16)	20	ug/L		<20			
	F3 (C16-C34)	50	ug/L		<50			
	F4 (C34-C50)	50	ug/L		<50			
Phenols-4AAP	Phenols	0.002	mg/L		<0.002	<0.002	<0.002	<0.002
Semi-Volatiles	1-methylnaphthalene	0.1	ug/L		<0.1			
	2-methylnaphthalene	0.1	ug/L		<0.1			
	Acenaphthene	0.1	ug/L		<0.1			
	Acenaphthylene	0.1	ug/L		<0.1			
	Anthracene	0.1	ug/L		<0.1			
	Benzo(a)anthracene	0.1	ug/L		<0.1			

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Group	Analyte	MRL	Units	Guideline				
Semi-Volatiles	Benzo(a)pyrene	0.01	ug/L		<0.01			
	Benzo(b)fluoranthene	0.05	ug/L		<0.05			
	Benzo(g,h,i)perylene	0.1	ug/L		<0.1			
	Benzo(k)fluoranthene	0.05	ug/L		<0.05			
	Chrysene	0.05	ug/L		<0.05			
	Dibenzo(a,h)anthracene	0.1	ug/L		<0.1			
	Fluoranthene	0.1	ug/L		<0.1			
	Fluorene	0.1	ug/L		<0.1			
	Indeno(1,2,3-c,d)pyrene	0.1	ug/L		<0.1			
	Naphthalene	0.1	ug/L		<0.1			
	Phenanthrene	0.1	ug/L		<0.1			
	Pyrene	0.1	ug/L		<0.1			
Subcontract	BOD5	1	mg/L		<1			
VOCs	Benzene	0.5	ug/L		<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	0.5	ug/L		<0.5	<0.5	<0.5	<0.5
	m/p-xylene	0.4	ug/L		<0.4	<0.4	<0.4	<0.4
	o-xylene	0.4	ug/L		<0.4	<0.4	<0.4	<0.4
	Toluene	0.5	ug/L		<0.5	<0.5	<0.5	<0.5
VOCs Surrogates (%)	Toluene-d8	0	%		93	96	95	92

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**QC Summary**

Analyte	Blank	QC % Rec	QC Limits
Run No 289898 Analysis/Extraction Date 2015-07-06 Analyst SKH			
Method M SM3120B-3500C			
Calcium	<1 mg/L	102	90-110
Potassium	<1 mg/L	100	87-113
Magnesium	<1 mg/L	98	76-124
Sodium	<2 mg/L	100	82-118
Run No 289925 Analysis/Extraction Date 2015-07-06 Analyst NP			
Method C SM4500-NO3-F			
N-NO2	<0.10 mg/L	103	80-120
N-NO3	<0.10 mg/L	90	80-120
Run No 289940 Analysis/Extraction Date 2015-07-07 Analyst K A			
Method EPA 200.8			
Lead	<0.05 ug/L	101	70-130
Run No 289944 Analysis/Extraction Date 2015-07-06 Analyst FWU			
Method P 8270			
Methylnaphthalene, 1-	<0.1 ug/L	60	50-140
Methylnaphthalene, 2-	<0.1 ug/L	60	50-140
Acenaphthene	<0.1 ug/L	68	50-140

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## QC Summary

Analyte	Blank	QC % Rec	QC Limits
Acenaphthylene	<0.1 ug/L	64	50-140
Anthracene	<0.1 ug/L	76	50-140
Benz[a]anthracene	<0.1 ug/L	84	50-140
Benzo[a]pyrene	<0.01 ug/L	84	50-140
Benzo[b]fluoranthene	<0.05 ug/L	100	50-140
Benzo[ghi]perylene	<0.1 ug/L	66	50-140
Benzo[k]fluoranthene	<0.05 ug/L	79	50-140
Chrysene	<0.05 ug/L	82	50-140
Dibenz[a,h]anthracene	<0.1 ug/L	62	50-140
Fluoranthene	<0.1 ug/L	72	50-140
Fluorene	<0.1 ug/L	70	50-140
Indeno[1,2,3-cd]pyrene	<0.1 ug/L	66	50-140
Naphthalene	<0.1 ug/L	60	50-140
Phenanthrene	<0.1 ug/L	76	50-140
Pyrene	<0.1 ug/L	72	50-140
Run No 289959 Analysis/Extraction Date 2015-07-07 Analyst K A			
Method EPA 200.8			
Silver	<0.0001 mg/L	98	94-106

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**QC Summary**

Analyte	Blank	QC % Rec	QC Limits
Arsenic	<0.001 mg/L	98	93-106
Boron (total)	<0.01 mg/L	98	88-112
Barium	<0.01 mg/L	101	91-109
Beryllium	<0.0005 mg/L	101	93-107
Cadmium	<0.0001 mg/L	97	93-107
Cobalt	<0.0002 mg/L	100	94-108
Chromium Total	<0.001 mg/L	99	94-106
Copper	<0.001 mg/L	101	93-106
Iron	<0.03 mg/L	95	92-107
Nickel	<0.005 mg/L	99	94-106
Lead	<0.05 ug/L	101	70-130
Antimony	<0.0005 mg/L	99	80-120
Selenium	<0.001 mg/L	102	91-108
Thallium	<0.0001 mg/L	98	95-105
Uranium	<0.001 mg/L	98	94-106
Vanadium	<0.001 mg/L	98	93-107
Zinc	<0.01 mg/L	101	94-106
Run No 289975 Analysis/Extraction Date 2015-07-07 Analyst AET			

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## QC Summary

Analyte	Blank	QC % Rec	QC Limits
<b>Method C SM4500-H+B</b>			
Alkalinity (CaCO <sub>3</sub> )	<5 mg/L	104	90-110
Conductivity	<5 uS/cm	101	90-110
F	<0.10 mg/L	101	90-110
pH	6.46	100	90-110
<b>Run No 289995 Analysis/Extraction Date 2015-07-08 Analyst NP</b>			
<b>Method SM 4110</b>			
Br	<0.25 mg/L	98	90-110
Chloride	<1 mg/L	100	90-110
SO <sub>4</sub>	<1 mg/L	99	90-110
<b>Run No 290004 Analysis/Extraction Date 2015-07-14 Analyst TJB</b>			
<b>Method Exova Surrey-BC Env Lab Manual</b>			
Oil & Grease - Mineral	<1.0 mg/L		
Oil & Grease - Non-mineral	<1.0 mg/L		
Oil & Grease - Total	<1.0 mg/L		
<b>Method O CCME Reg 153</b>			
Petroleum Hydrocarbons F1	<20 ug/L	111	60-140
Petroleum Hydrocarbons F1-BTEX			
<b>Run No 290039 Analysis/Extraction Date 2015-07-08 Analyst K A</b>			

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**QC Summary**

Analyte	Blank	QC % Rec	QC Limits
<b>Method EPA 200.8</b>			
Molybdenum	<0.005 mg/L	104	94-106
Run No 290171	Analysis/Extraction Date 2015-07-10	Analyst JLD	
<b>Method O CCME Reg 153</b>			
Petroleum Hydrocarbons F2	<20 ug/L	110	60-140
Petroleum Hydrocarbons F3	<50 ug/L	110	60-140
Petroleum Hydrocarbons F4	<50 ug/L	110	60-140
Run No 290266	Analysis/Extraction Date 2015-07-10	Analyst SCM	
<b>Method M SM3112B-3500B</b>			
Mercury	<0.0001 mg/L	92	78-123
Run No 290278	Analysis/Extraction Date 2015-07-07	Analyst TJB	
<b>Method V 8260B</b>			
Benzene	<0.5 ug/L	94	60-130
Ethylbenzene	<0.5 ug/L	93	60-130
m/p-xylene	<0.4 ug/L	88	60-130
o-xylene	<0.4 ug/L	92	60-130
Toluene	<0.5 ug/L	95	60-130
Run No 290366	Analysis/Extraction Date 2015-07-09	Analyst AET	
<b>Method Exova Edmonton-SM5530D</b>			

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**QC Summary**

Analyte	Blank	QC % Rec	QC Limits
Phenols	<0.002 mg/L	103	
Run No 290370 Analysis/Extraction Date 2015-07-09 Analyst AET			
Method Exova Edmonton-SM5220D			
COD	<5 mg/L	103	
Run No 290372 Analysis/Extraction Date 2015-07-09 Analyst AET			
Method Exova Edmonton-SM4500-NH3-G			
N-NH3	<0.05 mg/L	99	
Run No 290383 Analysis/Extraction Date 2015-07-10 Analyst AET			
Method Exova Edmonton-SM2540D			
Total Suspended Solids		95	
Run No 290430 Analysis/Extraction Date 2015-07-14 Analyst AET			
Method SUBCONTRACT-SA-INORG			
BOD5	<1 mg/L	92	

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**Sample Comment Summary**

Sample ID: 1185989 ALT-4 Holding time for NO2 and NO3 analysis was exceeded.
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Report Number: 1512424  
Date Submitted: 2015-07-04  
Date Reported: 2015-07-05  
Project:  
COC #: 50177

Page 1 of 2

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**Dear Cameron Chadwick:**

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Report Comments:

APPROVAL:

Dragana  
Dzeletovic  
*Dragana Dzeletovic*  
2015.07.05  
10:37:54  
-04'00'  
\_\_\_\_\_  
Dragana Dzeletovic  
Team Leader, Microbiology

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COC #: 50177

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
Group	Analyte	MRL	Units	Guideline	1185993 Water - 2015-06-29 ALT-4
Microbiology	Faecal Coliforms	0	ct/100mL		0

**Guideline =****\* = Guideline Exceedence**

All analysis completed in Ottawa, Ontario (unless otherwise indicated by \*\* which indicates analysis was completed in Mississauga, Ontario).  
Results relate only to the parameters tested on the samples submitted.  
Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range