

Client: Defence Construction Canada
Box 1000 Bldg 155 CFB Trenton
Astra, ON
K0K 3W0
Attention: Mr. Chris McRae
PO#:
Invoice to: Defence Construction Canada

Report Number: 1412851
Date Submitted: 2014-06-26
Date Reported: 2014-07-24
Project: Eureka
COC #: 169076

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Temperature: 13

Dear Chris McRae:

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:

This is an amended report and supercedes all previous copies of this report. The metals results and MRL's have been adjusted.

APPROVAL: _____

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Lorna Wilson
Laboratory Supervisor, Inorganics

Charlie (Long) Qu
Laboratory Supervisor, Organics

Exova (Ottawa) is certified and accredited for specific parameters by:

CALA, Canadian Association for Laboratory Accreditation (to ISO 17025), OMAFRA, Ontario Ministry of Agriculture, Food and Rural Affairs (for farm soils), Licensed by Ontario MOE for specific tests in drinking water.

Exova (Mississauga) is certified and accredited for specific parameters by:
SCC, Standards Council of Canada (to ISO 17025)

Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only.
Guideline values listed on this report are provided for ease of use (informational purposes) only. Exova recommends consulting the official provincial or federal guideline as required.

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Group	Analyte	MRL	Units	Guideline	Lab I.D.	1115022	1115023	1115024	1115025
					Sample Matrix	Surfacewater	Surfacewater	Surfacewater	Surfacewater
Inorganics	Arsenic	0.1	ug/L				6.3	0.9	
	Cadmium	0.01	ug/L				2.48	0.05	
	Calcium	0.1	mg/L				70.5	83.8	
	Chromium Total	0.5	ug/L				30.7	3.6	
	Copper	0.5	ug/L				179	8.0	
	Hardness as CaCO3	1	mg/L				306	327	
	Iron	30	ug/L				47800	4540	
	Lead	0.05	ug/L			0.27	12.4	2.81	
	Magnesium	0.1	mg/L				31.6	28.6	
	Mercury	0.0001	mg/L				<0.0001	<0.0001	
	Nickel	0.5	ug/L				136	8.2	
	Potassium	0.01	mg/L				6.04	6.04	
	Sodium	0.05	mg/L				73.1	104	
Misc/Others	Alkalinity (CaCO3)	5	mg/L				79	64	
	BOD5	1	mg/L		74		18	<1	
	CBOD5	1	mg/L		57		10	<1	
	COD	5	mg/L		404		454	29	
	Conductivity	5	uS/cm				1170	1710	
	Faecal Coliforms	0	ct/100mL		340		0	0	
	N-NH3	0.02	mg/L				4.83	0.05	
	N-NO2	0.005	mg/L				0.195	<0.005	
	N-NO3	0.10	mg/L				1.30	<0.10	
	Oil & Grease - Mineral	1	mg/L		<1	<1	<1	<1	
	Oil & Grease - Non-mineral	1	mg/L		2	<1	<1	1	
	Oil & Grease - Total	1	mg/L		2	<1	<1	1	
	pH	1.00			7.54		7.59	7.84	

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Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1115022 Surfacewater 2014-06-21 ERK 1	1115023 Surfacewater 2014-06-21 ERK 2	1115024 Surfacewater 2014-06-21 ERK 3	1115025 Surfacewater 2014-06-21 ERK 4
Misc/Others	Phenols	0.001	mg/L			0.001	0.015	<0.001	
	SO4	1	mg/L				165	300	
	Total Suspended Solids	2	mg/L	217			5690	326	
Petroleum Hydrocarbons	Petroleum Hydrocarbons F1	100	ug/L				<100	<100	
	Petroleum Hydrocarbons F1-BTEX	100	ug/L				<100	<100	
	Petroleum Hydrocarbons F2	100	ug/L				<100	<100	
	Petroleum Hydrocarbons F3	200	ug/L				<200	<200	
	Petroleum Hydrocarbons F4	200	ug/L				<200	<200	
Semi-Volatiles	Acenaphthene	0.1	ug/L				<0.1	<0.1	
	Acenaphthylene	0.1	ug/L				<0.1	<0.1	
	Anthracene	0.1	ug/L				<0.1	<0.1	
	Benz[a]anthracene	0.1	ug/L				<0.1	<0.1	
	Benzo[a]pyrene	0.01	ug/L				<0.01	<0.01	
	Benzo[b]fluoranthene	0.05	ug/L				<0.05	<0.05	
	Benzo[ghi]perylene	0.1	ug/L				<0.1	<0.1	
	Benzo[k]fluoranthene	0.05	ug/L				<0.05	<0.05	
	Chrysene	0.05	ug/L				<0.05	<0.05	
	Dibenz[a h]anthracene	0.1	ug/L				<0.1	<0.1	
	Fluoranthene	0.1	ug/L				<0.1	<0.1	
	Fluorene	0.1	ug/L				<0.1	<0.1	
	Indeno[1 2 3-cd]pyrene	0.1	ug/L				<0.1	<0.1	
	Methlynaphthalene, 1-	0.1	ug/L				<0.1	<0.1	
	Methlynaphthalene, 2-	0.1	ug/L				<0.1	<0.1	
	Naphthalene	0.1	ug/L				<0.1	<0.1	
	Phenanthrene	0.1	ug/L				<0.1	<0.1	
	Pyrene	0.1	ug/L				<0.1	<0.1	

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					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1115022 Surfacewater 2014-06-21 ERK 1	1115023 Surfacewater 2014-06-21 ERK 2	1115024 Surfacewater 2014-06-21 ERK 3	1115025 Surfacewater 2014-06-21 ERK 4
Group	Analyte	MRL	Units	Guideline					
VOC Surrogates Rec	Toluene-d8	0	%			96	99	98	
VOCs	Benzene	0.5	ug/L			<0.5	<0.5	<0.5	
	Ethylbenzene	0.5	ug/L			<0.5	<0.5	<0.5	
	m/p-xylene	0.5	ug/L			<0.5	<0.5	<0.5	
	o-xylene	0.5	ug/L			<0.5	<0.5	<0.5	
	Toluene	0.5	ug/L			<0.5	<0.5	<0.5	
					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1115026 Surfacewater 2014-06-21 ERK 5			
Group	Analyte	MRL	Units	Guideline					
Inorganics	Arsenic	0.1	ug/L		0.5				
	Cadmium	0.01	ug/L		0.07				
	Calcium	0.1	mg/L		14.3				
	Chromium Total	0.5	ug/L		2.1				
	Copper	0.5	ug/L		4.5				
	Hardness as CaCO3	1	mg/L		76				
	Iron	30	ug/L		3030				
	Lead	0.05	ug/L		2.69				
	Magnesium	0.1	mg/L		9.9				
	Mercury	0.0001	mg/L		<0.0001				
	Nickel	0.5	ug/L		4.6				
	Potassium	0.01	mg/L		1.61				
	Sodium	0.05	mg/L		18.5				

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Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1115026 Surfacewater 2014-06-21 ERK 5
Misc/Others	Alkalinity (CaCO ₃)	5	mg/L		23	
	BOD ₅	1	mg/L		2	
	CBOD ₅	1	mg/L		<1	
	COD	5	mg/L		14	
	Conductivity	5	uS/cm		372	
	Faecal Coliforms	0	ct/100mL		0	
	N-NH ₃	0.02	mg/L		0.07	
	N-NO ₂	0.005	mg/L		0.010	
	N-NO ₃	0.10	mg/L		0.29	
	Oil & Grease - Mineral	1	mg/L		<1	
	Oil & Grease - Non-mineral	1	mg/L		<1	
	Oil & Grease - Total	1	mg/L		<1	
	pH	1.00			7.35	
	Phenols	0.001	mg/L		<0.001	
	SO ₄	1	mg/L		56	
	Total Suspended Solids	2	mg/L		141	
Petroleum Hydrocarbons	Petroleum Hydrocarbons F1	100	ug/L		<100	
	Petroleum Hydrocarbons F1-BTEX	100	ug/L		<100	
	Petroleum Hydrocarbons F2	100	ug/L		<100	
	Petroleum Hydrocarbons F3	200	ug/L		<200	
	Petroleum Hydrocarbons F4	200	ug/L		<200	
Semi-Volatiles	Acenaphthene	0.1	ug/L		<0.1	
	Acenaphthylene	0.1	ug/L		<0.1	
	Anthracene	0.1	ug/L		<0.1	
	Benz[a]anthracene	0.1	ug/L		<0.1	
	Benzo[a]pyrene	0.01	ug/L		<0.01	

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Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1115026 Surfacewater 2014-06-21 ERK 5
Semi-Volatiles	Benzo[b]fluoranthene	0.05	ug/L	<0.05		
	Benzo[ghi]perylene	0.1	ug/L	<0.1		
	Benzo[k]fluoranthene	0.05	ug/L	<0.05		
	Chrysene	0.05	ug/L	<0.05		
	Dibenz[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-cd]pyrene	0.1	ug/L	<0.1		
	Methylnaphthalene, 1-	0.1	ug/L	<0.1		
	Methylnaphthalene, 2-	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		
VOC Surrogates Rec	Toluene-d8	0	%	100		
VOCs	Benzene	0.5	ug/L	<0.5		
	Ethylbenzene	0.5	ug/L	<0.5		
	m/p-xylene	0.5	ug/L	<0.5		
	o-xylene	0.5	ug/L	<0.5		
	Toluene	0.5	ug/L	<0.5		

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QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 0 Analysis Date 2014-07-04 Method C SM2340B			
Hardness as CaCO ₃			
Run No 271764 Analysis Date 2014-07-02 Method SM 5210B			
BOD ₅	<1 mg/L	97	75-125
Run No 271769 Analysis Date 2014-06-28 Method SM 9222B			
Faecal Coliforms			
Run No 271774 Analysis Date 2014-06-29 Method SM 4110C			
SO ₄	<1 mg/L	105	90-110
Run No 271779 Analysis Date 2014-07-02 Method SM 5210B			
CBOD ₅	<1 mg/L	89	75-125
Run No 271789 Analysis Date 2014-06-28 Method C SM5220C			
COD	<5 mg/L	95	80-120
Run No 271798 Analysis Date 2014-06-30 Method C SM4500-NO2-B			
N-NO ₂	<0.005 mg/L	94	
Run No 271886 Analysis Date 2014-06-30 Method C SM2540			

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QC Summary

Analyte	Blank	QC % Rec	QC Limits
Total Suspended Solids	<2 mg/L	101	90-110
Run No 271901 Analysis Date 2014-06-30 Method C SM5220C			
COD	<5 mg/L	102	80-120
Run No 271923 Analysis Date 2014-06-30 Method SM 2320B			
Alkalinity (CaCO ₃)	<5 mg/L	98	95-105
Conductivity	<5 uS/cm	99	95-105
pH	6.00	100	90-110
Run No 271938 Analysis Date 2014-07-02 Method C SM4500-NH3D			
N-NH ₃	<0.02 mg/L	115	85-115
Run No 271939 Analysis Date 2014-06-30 Method C SM4500-NO3-F			
N-NO ₃	<0.10 mg/L	98	80-120
Run No 271944 Analysis Date 2014-07-02 Method C SM5530D			
Phenols	<0.001 mg/L	101	73-127
Run No 271981 Analysis Date 2014-07-01 Method V 8260B			
Benzene	<0.5 ug/L	98	80-120
Ethylbenzene	<0.5 ug/L	90	80-120
m/p-xylene	<0.5 ug/L	91	80-120

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Analyte	Blank	QC % Rec	QC Limits
o-xylene	<0.5 ug/L	90	80-120
Toluene	<0.5 ug/L	91	80-120
Toluene-d8	110 %	96	80-120
Run No 271982	Analysis Date 2014-07-02	Method O CCME Reg 153	
Petroleum Hydrocarbons F1	<100 ug/L	94	80-120
Run No 271983	Analysis Date 2014-07-02	Method O CCME Reg 153	
Petroleum Hydrocarbons F1-BTEX			
Run No 271985	Analysis Date 2014-07-02	Method M SM3112B-3500B	
Mercury	<0.0001 mg/L	89	70-130
Run No 271999	Analysis Date 2014-07-02	Method C SM5220C	
COD	<5 mg/L	102	80-120
Run No 272042	Analysis Date 2014-07-03	Method C SM5520B	
Oil & Grease - Mineral	<1 mg/L	89	60-120
Oil & Grease - Non-mineral	<1 mg/L		
Oil & Grease - Total	<1 mg/L	76	60-120
Run No 272045	Analysis Date 2014-07-03	Method C SM4500-NH3D	
N-NH3	<0.02 mg/L	106	85-115

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Analyte	Blank	QC % Rec	QC Limits
Run No 272120	Analysis Date 2014-07-04	Method P 8270	
Methylnaphthalene, 1-	<0.1 ug/L	82	20-140
Methylnaphthalene, 2-	<0.1 ug/L	80	20-140
Acenaphthene	<0.1 ug/L	86	20-140
Acenaphthylene	<0.1 ug/L	82	20-140
Anthracene	<0.1 ug/L	92	20-140
Benz[a]anthracene	<0.1 ug/L	98	20-140
Benzo[a]pyrene	<0.01 ug/L	100	20-140
Benzo[b]fluoranthene	<0.05 ug/L	101	20-140
Benzo[ghi]perylene	<0.1 ug/L	96	20-140
Benzo[k]fluoranthene	<0.05 ug/L	103	20-140
Chrysene	<0.05 ug/L	96	20-140
Dibenz[a h]anthracene	<0.1 ug/L	86	20-140
Fluoranthene	<0.1 ug/L	102	20-140
Fluorene	<0.1 ug/L	86	20-140
Indeno[1 2 3-cd]pyrene	<0.1 ug/L	92	20-140
Naphthalene	<0.1 ug/L	80	20-140

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Analyte	Blank	QC % Rec	QC Limits
Phenanthrene	<0.1 ug/L	94	20-140
Pyrene	<0.1 ug/L	102	20-140
Run No	272130	Analysis Date	2014-07-04
		Method	C SM5520B
Oil & Grease - Mineral	<1 mg/L	89	60-120
Oil & Grease - Non-mineral	<1 mg/L		
Oil & Grease - Total	<1 mg/L	76	60-120
Run No	272148	Analysis Date	2014-07-04
		Method	SM 3111B-3500B
Calcium	<0.1 mg/L	100	
Potassium	<0.01 mg/L	86	
Magnesium	<0.1 mg/L	97	
Sodium	<0.05 mg/L	85	
Run No	272158	Analysis Date	2014-07-05
		Method	O CCME Reg 153
Petroleum Hydrocarbons F2	<100 ug/L	84	50-120
Petroleum Hydrocarbons F3		84	50-120
Petroleum Hydrocarbons F4	<200 ug/L	84	50-120
Run No	272675	Analysis Date	2014-07-15
		Method	EPA 200.8
Arsenic	<0.1 ug/L	98	93-106

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Analyte	Blank	QC % Rec	QC Limits
Cadmium	<0.01 ug/L	97	93-107
Chromium Total	<0.5 ug/L	102	94-106
Copper	<0.5 ug/L	97	93-106
Iron	<30 ug/L	98	92-107
Nickel	<0.5 ug/L	105	94-106
Lead	<0.05 ug/L	103	70-130
Run No	272847	Analysis Date	2014-07-17
		Method	EPA 200.8
Arsenic	<0.1 ug/L	98	93-106
Cadmium	<0.01 ug/L	101	93-107
Chromium Total	<0.5 ug/L	100	94-106
Copper	<0.5 ug/L	99	93-106
Iron	<30 ug/L	97	92-107
Nickel	<0.5 ug/L	99	94-106
Lead	<0.05 ug/L	102	70-130

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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

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Attention: Mr. Chris McRae
PO#:
Invoice to: Defence Construction Canada

Report Number: 1412851
Date Submitted: 2014-06-26
Date Reported: 2014-07-24
Project: Eureka
COC #: 169076

Sample Comment Summary

Sample ID: 1115024 ERK 3 Sediment not included in Metals and Mercury analysis.

Sample ID: 1115025 ERK 4 Sediment not included in metals and mercury analysis.

Sample ID: 1115026 ERK 5 Sediment not included in metals and mercury analysis.

Guideline =*** = Guideline Exceedence**

**_Analysis completed in Mississauga

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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