



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1970643
Date Submitted: 2022-01-26
Date Reported: 2022-01-28
Project: Sewage (Site: FOX-M WO:991010)
COC #: 885454

Page 1 of 3

Dear Alaina Leslie:

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:

Jason
Kennedy
2022.01.28
16:06:38
-05'00'

APPROVAL:

Jason Kennedy, Project Manager

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COC #: 885454

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	Guideline
Microbiology	Faecal Coliforms	0	ct/100mL	1607417 Sewage 2022-01-21 XL Cyclelet - A	1607418 Sewage 2022-01-21 XL Cyclelet - B
				1607419 Sewage 2022-01-21 XL Cyclelet - C	8

Guideline = Nunavut Water Board -Sewage

Results relate only to the parameters tested on the samples submitted.
Analytical Method: AMBCOLM1
additional QA/QC information available on request.

*** = Guideline Exceedence**

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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Sample Comment Summary

Sample ID: 1607417 XL Cyclelet - A Deviation from standard protocol. All bacteria samples on report are past hold time.

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Analytical Method: AMBCOLM1
additional QA/QC information available on request.

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Attention: Ms. Alaina Leslie
PO#: 00887-OT

Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1970634
Date Submitted: 2022-01-26
Date Reported: 2022-02-01
Project: Sewage (Site: FOX-M WO:991010)
COC #: 885454

Page 1 of 3

Dear Alaina Leslie:

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Report Comments:

Sarah
Horner
Sarah Horner 2022.02.0
1 14:06:00
-05'00'

APPROVAL:

Sarah Horner, Inorganics Technician

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Attention: Ms. Alaina Leslie
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Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1970634
Date Submitted: 2022-01-26
Date Reported: 2022-02-01
Project: Sewage (Site: FOX-M WO:991010)
COC #: 885454

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
General Chemistry	BOD5	1	mg/L	MAC 120	1607362 Sewage 2022-01-21 XL Cyclelet
	pH	1.00		6-9	
	Total Suspended Solids	2		MAC 180	
Oil and Grease	Oil & Grease - Mineral	1	mg/L		
	Oil & Grease - Non-mineral	1	mg/L		
	Oil & Grease - Total	1	mg/L		
	Visible Sheen		P/A	Absent	

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Report Number: 1970634
Date Submitted: 2022-01-26
Date Reported: 2022-02-01
Project: Sewage (Site: FOX-M WO:991010)
COC #: 885454

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 416216 Method SM2320,2510,4500H/F	Analysis/Extraction Date 2022-01-27	Analyst AsA	
pH		98	90-110
Run No 416225 Method SM 5210B	Analysis/Extraction Date 2022-01-31	Analyst AET	
BOD5	<1 mg/L	81	75-125
Run No 416293 Method C SM2540	Analysis/Extraction Date 2022-02-01	Analyst SKH	
Total Suspended Solids	<2 mg/L	98	90-110
Run No 416410 Method SM 5520B/F	Analysis/Extraction Date 2022-02-01	Analyst R G	
Oil & Grease - Mineral	<1 mg/L	70	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	95	60-120
Run No 416411 Method SHEEN	Analysis/Extraction Date 2022-02-01	Analyst R G	
Visible Sheen			

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Attention: Ms. Alaina Leslie
PO#: 00887-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1972183
Date Submitted: 2022-02-23
Date Reported: 2022-03-02
Project: Sewage (Site: FOX-M WO:991776)
COC #: 212795

Page 1 of 3

Dear Alaina Leslie:

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:

Yasna
Hassanabadi
2022.03.02
16:31:57
-05'00'

APPROVAL:

Yasna Hassanabadi, Organics Technician

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Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1972183
Date Submitted: 2022-02-23
Date Reported: 2022-03-02
Project: Sewage (Site: FOX-M WO:991776)
COC #: 212795

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
General Chemistry	BOD5	1	mg/L	MAC 120	1611586 Sewage 2022-02-14 XL Cyclelet
	pH	1.00		6-9	
	Total Suspended Solids	2	mg/L	MAC 180	
Oil and Grease	Oil & Grease - Mineral	1	mg/L		
	Oil & Grease - Non-mineral	1	mg/L		
	Oil & Grease - Total	1	mg/L		
	Visible Sheen		P/A	Absent	

Guideline = Nunavut Water Board -Sewage

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Report Number: 1972183
Date Submitted: 2022-02-23
Date Reported: 2022-03-02
Project: Sewage (Site: FOX-M WO:991776)
COC #: 212795

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 417626 Method SM2320,2510,4500H/F	Analysis/Extraction Date 2022-02-24	Analyst AsA	
pH		98	90-110
Run No 417664 Method SM 5210B	Analysis/Extraction Date 2022-03-02	Analyst AET	
BOD5	2 mg/L	84	75-125
Run No 417745 Method C SM2540	Analysis/Extraction Date 2022-02-28	Analyst SKH	
Total Suspended Solids	<2 mg/L	98	90-110
Run No 417985 Method SM 5520B/F	Analysis/Extraction Date 2022-03-02	Analyst R G	
Oil & Grease - Mineral	<1 mg/L	90	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	95	60-120
Run No 417986 Method SHEEN	Analysis/Extraction Date 2022-03-02	Analyst R G	
Visible Sheen			

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Attention: Ms. Alaina Leslie
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Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1973322
Date Submitted: 2022-03-15
Date Reported: 2022-03-22
Project: Sewage (Site: FOX-M WO: 992969)
COC #: 216357

Page 1 of 3

Dear Alaina Leslie:

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:

Yasna Hassanabadi
2022.03.22
12:27:40 -04'00'

APPROVAL:

Yasna Hassanabadi, Organics Technician

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Report Number: 1973322
Date Submitted: 2022-03-15
Date Reported: 2022-03-22
Project: Sewage (Site: FOX-M WO: 992969)
COC #: 216357

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	Guideline
General Chemistry	BOD5	1	mg/L	1614418 Sewage 2022-03-08 XL Cyclelet #1 Membrane	<1
	pH	1.00			7.45
Oil and Grease	Total Suspended Solids	2	mg/L		<2
	Oil & Grease - Mineral	1	mg/L		<1
	Oil & Grease - Non-mineral	1	mg/L		<1
	Oil & Grease - Total	1	mg/L		<1
	Visible Sheen		P/A		A

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Report Number: 1973322
Date Submitted: 2022-03-15
Date Reported: 2022-03-22
Project: Sewage (Site: FOX-M WO: 992969)
COC #: 216357

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 418651 Method C SM2540	Analysis/Extraction Date 2022-03-21	Analyst SKH	
Total Suspended Solids	<2 mg/L	98	90-110
Run No 418653 Method SM2320,2510,4500H/F	Analysis/Extraction Date 2022-03-16	Analyst AsA	
pH		99	90-110
Run No 418658 Method SM 5210B	Analysis/Extraction Date 2022-03-21	Analyst AET	
BOD5	<1 mg/L	91	75-125
Run No 418747 Method SHEEN	Analysis/Extraction Date 2022-03-18	Analyst R G	
Visible Sheen	0 P/A		
Run No 418752 Method SM 5520B/F	Analysis/Extraction Date 2022-03-18	Analyst R G	
Oil & Grease - Mineral	<1 mg/L	90	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	95	60-120

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K2P 2H8

Attention: Ms. Alaina Leslie
PO#: 002160-OT

Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1976238
Date Submitted: 2022-04-29

Date Reported:

Project: Sewage (Site: FOX-M WO:998639)
COC #: 216347

Page 1 of 4

Dear Alaina Leslie:

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:


Rebecca Koshy
2022.05.05
10:46:14
-04'00'

APPROVAL:

Rebecca Koshy, Project Manager

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Report Number: 1976238
Date Submitted: 2022-04-29
Date Reported:
Project: Sewage (Site: FOX-M WO:998639)
COC #: 216347

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	Guideline
General Chemistry	BOD5	1	mg/L	1622798 WW	18
	pH	1.00			6.32
	Total Suspended Solids				in-progress
Oil and Grease	Oil & Grease - Mineral	1	mg/L		<1
	Oil & Grease - Non-mineral	1	mg/L		2
	Oil & Grease - Total	1	mg/L		2
	Visible Sheen		P/A		A

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Report Number: 1976238
Date Submitted: 2022-04-29
Date Reported:
Project: Sewage (Site: FOX-M WO:998639)
COC #: 216347

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 421203 Method SM2320,2510,4500H/F	Analysis/Extraction Date 2022-05-03	Analyst AsA	
pH		99	90-110
Run No 421295 Method SM 5210B	Analysis/Extraction Date 2022-05-04	Analyst AET	
BOD5	<1 mg/L	76	75-125
Run No 421322 Method C SM2540	Analysis/Extraction Date	Analyst SKH	
Total Suspended Solids			90-110
Run No 421400 Method SM 5520B/F	Analysis/Extraction Date 2022-05-05	Analyst R G	
Oil & Grease - Mineral	<1 mg/L	80	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	105	60-120
Run No 421401 Method SHEEN	Analysis/Extraction Date 2022-05-05	Analyst R G	
Visible Sheen	0 P/A		

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Report Number: 1976238
Date Submitted: 2022-04-29
Date Reported:
Project: Sewage (Site: FOX-M WO:998639)
COC #: 216347

Sample Comment Summary

Sample ID: 1622798 XL Cyclelet #2 Membrane Sample was received at the lab after an extended delay. BOD analysis was started after holding time was exceeded.

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Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1976238
Date Submitted: 2022-04-29
Date Reported: 2022-05-06
Project: Sewage (Site: FOX-M WO:998639)
COC #: 216347

Page 1 of 4

Dear Alaina Leslie:

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Report Comments:

Emma-Dawn
Ferguson
2022.05.06
17:32:49
-04'00'

APPROVAL:

Emma-Dawn Ferguson, Chemist

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Report Number: 1976238
Date Submitted: 2022-04-29
Date Reported: 2022-05-06
Project: Sewage (Site: FOX-M WO:998639)
COC #: 216347

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	Guideline
General Chemistry	BOD5	1	mg/L	1622798 WW 2022-04-07 XL Cyclelet #2 Membrane	18
	pH	1.00			6.32
	Total Suspended Solids	2			<2
Oil and Grease	Oil & Grease - Mineral	1	mg/L		<1
	Oil & Grease - Non-mineral	1	mg/L		2
	Oil & Grease - Total	1	mg/L		2
	Visible Sheen		P/A		A

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1976238
Date Submitted: 2022-04-29
Date Reported: 2022-05-06
Project: Sewage (Site: FOX-M WO:998639)
COC #: 216347

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 421203 Method SM2320,2510,4500H/F	Analysis/Extraction Date 2022-05-03	Analyst AsA	
pH		99	90-110
Run No 421295 Method SM 5210B	Analysis/Extraction Date 2022-05-04	Analyst AET	
BOD5	<1 mg/L	76	75-125
Run No 421322 Method C SM2540	Analysis/Extraction Date 2022-05-05	Analyst SKH	
Total Suspended Solids	<2 mg/L	98	90-110
Run No 421400 Method SM 5520B/F	Analysis/Extraction Date 2022-05-05	Analyst R G	
Oil & Grease - Mineral	<1 mg/L	80	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	105	60-120
Run No 421401 Method SHEEN	Analysis/Extraction Date 2022-05-05	Analyst R G	
Visible Sheen	0 P/A		

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Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1976238
Date Submitted: 2022-04-29
Date Reported: 2022-05-06
Project: Sewage (Site: FOX-M WO:998639)
COC #: 216347

Sample Comment Summary

Sample ID: 1622798 XL Cyclelet #2 Membrane Sample was received at the lab after an extended delay. BOD analysis was started after holding time was exceeded.

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON

K2P 2H8

Attention: Ms. Alaina Leslie

PO#: 002160-OT

Invoice to: Raytheon Canada Limited Ottawa

Report Number:

Date Submitted:

Date Reported:

Project:

COC #:

1978244

2022-06-01

2022-06-02

Sewage (Site: FOX-M WO:999437)

216349

Page 1 of 3

Dear Alaina Leslie:

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:

Emma-
Dawn
Ferguson
2022.06.02
16:06:01
-04'00'

APPROVAL:

Emma-Dawn Ferguson, Chemist

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise indicated.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at: <http://www.cala.ca/scopes/2602.pdf>.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is licensed by the Ontario Ministry of the Environment, Conservation, and Parks (MECP) for specific tests in drinking water (license #2318). A copy of the license is available upon request.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by the Ontario Ministry of Agriculture, Food, and Rural Affairs for specific tests in agricultural soils.

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1978244
Date Submitted: 2022-06-01
Date Reported: 2022-06-02
Project: Sewage (Site: FOX-M WO:999437)
COC #: 216349

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	Guideline
Microbiology	Faecal Coliforms	0	ct/100mL	1628527 WW 2022-05-16 XL Cyclelet #1 Membrane A	7 MAC 10000
				1628528 WW 2022-05-16 XL Cyclelet #1 Membrane B	8
				1628529 WW 2022-05-16 XL Cyclelet #1 Membrane C	13

Guideline = Nunavut Water Board -Sewage

Results relate only to the parameters tested on the samples submitted.
Analytical Method: AMBCOLM1
additional QA/QC information available on request.

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1978244
Date Submitted: 2022-06-01
Date Reported: 2022-06-02
Project: Sewage (Site: FOX-M WO:999437)
COC #: 216349

Sample Comment Summary

Sample ID: 1628527 XL Cyclelet #1 Membrane A Deviation from standard protocol. All bacteria samples on report are past hold time.

Guideline = Nunavut Water Board -Sewage

Results relate only to the parameters tested on the samples submitted.
Analytical Method: AMBCOLM1
additional QA/QC information available on request.

*** = Guideline Exceedence**

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8

Attention: Ms. Alaina Leslie
PO#: 00887-OT

Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1978216
Date Submitted: 2022-06-01
Date Reported: 2022-06-07
Project: Sewage (Site: FOX-M WO: 999437)
COC #: 216349

Page 1 of 3

Dear Alaina Leslie:

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:

Emma-
Dawn
Ferguson
2022.06.07
15:06:30
-04'00'

APPROVAL:

Emma-Dawn Ferguson, Chemist

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 00887-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1978216
Date Submitted: 2022-06-01
Date Reported: 2022-06-07
Project: Sewage (Site: FOX-M WO: 999437)
COC #: 216349

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
General Chemistry	BOD5	1	mg/L	1628453 Sewage 2022-05-16 XL Cyclelet
	pH	1.00		
	Total Suspended Solids	2	mg/L	
Oil and Grease	Oil & Grease - Mineral	1	mg/L	<2
	Oil & Grease - Non-mineral	1	mg/L	<1
	Oil & Grease - Total	1	mg/L	<1
	Visible Sheen		P/A	A

Guideline = Nunavut Water Board -Sewage

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 00887-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1978216
Date Submitted: 2022-06-01
Date Reported: 2022-06-07
Project: Sewage (Site: FOX-M WO: 999437)
COC #: 216349

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 422989 Method SM 5210B	Analysis/Extraction Date 2022-06-06 Analyst CK		
BOD5	<1 mg/L	83	75-125
Run No 423066 Method C SM2540	Analysis/Extraction Date 2022-06-03 Analyst CK		
Total Suspended Solids	<2 mg/L	101	90-110
Run No 423156 Method SM2320,2510,4500H/F	Analysis/Extraction Date 2022-06-03 Analyst AsA		
pH		99	90-110
Run No 423246 Method SM 5520B/F	Analysis/Extraction Date 2022-06-07 Analyst R G		
Oil & Grease - Mineral	<1 mg/L	80	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	95	60-120
Run No 423248 Method SHEEN	Analysis/Extraction Date 2022-06-07 Analyst R G		
Visible Sheen			

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