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2020 ANNUAL NUNAVUT WATER BOARD

REPORT FOR CAM-M

FOR THE North Warning System

Contract # W8485-100224/001/NX
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Prepared for
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November 21, 2019 kuviyaq halummaktuq igluqpangmi tutquivingmi iniqtuq. Nunalu havahugu hannaiyarhugu. February 18, 2020-mi kuviyaq halummaktuq iniqtuq. Una kuviyaq takuufaaniaraat 2021-mi.

Annex F takunaqtuq kiilu ilituriyumaguvin.



EXECUTIVE SUMMARY

This 2020 Annual Report for the Nunavut Water Board (NWB) has been prepared by Raytheon Canada (RC) for the Department of National Defence in order to meet the requirements of Part B "General Conditions", paragraph 1 of its licence 8BC-CAM1929. This report covers 01 January to 31 December 2020.

RC is the Operation and Maintenance (O&M) Contractor for the North Warning System (NWS), including CAM-M, the attended (manned) NWS radar site located at Cambridge Bay, Nunavut.

The water usage for CAM-M in 2020 was 1315.3 m³, below the annual limit of 3650 m³. The maximum water drawn per day was 21.16 m³, which is below the daily limit of 300 m³.

Sewage at CAM-M is processed by the tertiary wastewater treatment system. Some of the treated effluent is recycled as on-site urinal/toilet flush water. The discharged treated effluent is of potable water quality. A sample of the treated effluent was sent for laboratory analysis each month in 2020.

Hazardous waste and waste oil were sent to an approved hazardous waste disposal site outside of Nunavut as required by the licence. The hazardous waste was shipped to Qikiqtaaluk Environmental, through their subcontractor Veolia, 2630, boul. Industriel, Chambly, QC J3L 4V2. The hazardous waste consisted of three cylinders of waste refrigerant gas, three crates of waste batteries and 140 drums of assorted waste (waste fuel, waste oil, etc.).

Non-hazardous domestic solid waste was disposed of at the local landfill through a contract with the Hamlet of Cambridge Bay. RC has documented authorization from the community for receiving the waste.

Prior to discharge, water contained in the berms of the fuel storage facilities (CDL-3) was assessed using hydrocarbon test strips. The test strips confirmed the water was within the effluent quality limits listed in the water licence, Part D. The coordinates and the photo log of the test strips after analysis are shown in **Annex D**

Four spills to the environment occurred in 2020:

- 15-Feb-2020, NT-NU Spill # 20-051: On 15-Feb-2020, staff found that two pipes had frozen and ruptured causing several rooms in the building to be flooded with a mixture potable water (6000 L) and water from the site's heating system (2000 L). The spilled water seeped through the building floor and froze outdoors. Once the leak was discovered staff shut off the system to stop the spill and repair the leak. The spill location is approximately 180 m from the nearest surface waterbody. The hydronic heating system at CAM-M does not hold glycol. Ice was collected from beneath the raised building and collected in drums for off-site disposal. See Annex F for information on the follow-up to this incident.
- 27-Mar-2020, NT-NU Spill # 20-088: On 27-Mar-2020, staff were starting snow clearing activities when they found that the hydraulic fluid filter had frozen and ruptured on a loader. The loader was stopped in place to limit the area impacted. The filter was replaced, stopping the leak. The impacted snow was collected and placed in salvage drums. It was determined that the filter failed because of the cold during the snow clearing activities (-37C).
- 02-Jul-2020, NT-NU Spill # 20-206: On 02-Jul-2020, POL technicians on site at CAM-M were transferring fuel and noticed that two pressure relief valves were weeping. The technicians on site wrapped the Pressure Relief Valves (PRVs) with absorbent and placed absorbent pads under the PRVs. It was determined that approximately 0.5 L of Jet-A1 was spilled. The clean up has been completed and the valves assembly will be replaced.
- 17-Nov-2020, NT-NU Spill # 20-441: On 17Nov2020 workers were changing attachments on a Loader from the forks attachment to the bucket attachment. The connection to the forks attachment was

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disconnected from the Loader however the hydraulic lines remained connected. The Loader was then backed up, which put stress on the hydraulic fittings and caused them to break. Hydraulic fluid began to leak from the fittings and workers immediately began emergency spill response procedures. 18 L of hydraulic fluid was released to the environment. Workers were then able to place a bucket below the leak and collect the remaining hydraulic fluid. The Loader is now being repaired inside the garage. Clean up of the 18 L of hydraulic fluid and contaminated snow is complete.

The Spill Contingency Plan was successfully implemented.

Remediation work was completed for the 21 November 2019 spill at the warehouse, including soil excavation and confirmatory sampling and backfilling. Remediation work was also completed for the 18 February 2020 spill, including containerization and characterization sampling of ice that resulted from the release. This spill will be further investigated in 2021.

See Annex F for information regarding the progressive reclamation work.



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1.0 INTRODUCTION

This 2020 Annual Report for the Nunavut Water Board (NWB) has been prepared by Raytheon Canada (RC) for the Department of National Defence in order to meet the requirements of Part B “General Conditions”, paragraph 1 of its licence 8BC-CAM1929 issued 01 September 2019. This report covers 01 January to 31 December 2020.

RC is the Operation and Maintenance (O&M) Contractor for the North Warning System (NWS), including CAM-M. CAM-M is the attended (manned) NWS radar site located at Cambridge Bay, Nunavut.

1.1 Report Details

Licensee: Department of National Defence, Government of Canada
Licence: 8BC-CAM1929 – Type “B”
Location: CAM-M North Warning System Site, Cambridge Bay, Kitikmeot Region, Nunavut
Report Prepared by: Alaina Leslie and reviewed by Don Beattie
Raytheon Canada, 18-Mar-2021
Time period covered: 01 January to 31 December 2020

2.0 WATER USE

The water usage for CAM-M in 2020 was 1315.3 cubic meters, below the annual limit of 3650 m³. The maximum water drawn per day was 21.16 m³, which is below the daily limit of 300 m³.

See Table 2-1 for the volume of water drawn at CAM-M each month in 2020.

Table 2-1: Monthly Raw Water Usage at CAM-M in 2020

Month	Raw water usage (m ³)
January	92.3
February	96.7
March	113.1
April	101.6
May	97.4
June	120.6
July	131.3
August	160.4
September	112.3
October	97.2
November	109.7
December	82.7
TOTAL	1315.3

3.0 TREATED SEWAGE DISCHARGE

At CAM-M, the sewage and grey water were both processed through a Cycle-let® advanced tertiary wastewater treatment system. Some of the treated water is recycled as urinal/toilet flush water; the remainder is discharged at the designated outfall and is of potable water quality. See Table 3-1 for the



volume of sewage and grey water treated by the Cycle-let® system. See **Section 6.0 – Monitoring Program** for details on sewage effluent monitoring.

The location and coordinates of treated sewage effluent outfall location (FOH-2) is contained in **Annex B**. Sewage sample analytical results and certificates of analysis are contained in **Annex C**.

Table 3-1: Monthly and Annual Volume of Sewage and Grey Water Treated at CAM-M in 2020

Month	Volume of sewage and greywater treated then discharged or recycled (m³)
January	92.3
February	96.7
March	113.1
April	101.6
May	97.4
June	120.6
July	131.3
August	160.4
September	112.3
October	97.2
November	109.7
December	82.7
TOTAL	1315.3

4.0 HAZARDOUS WASTE AND WASTE OIL DISPOSAL

Hazardous waste and waste oil were sent to an approved hazardous waste disposal site outside of Nunavut as required by the licence. The hazardous waste was shipped to Qikiqtaaluk Environmental, through their subcontractor Veolia, 2630, boul. Industriel, Chambly, QC J3L 4V2.

Waste sent for disposal included three cylinders of waste refrigerant gas, three crates of waste batteries and 140 drums of assorted waste (waste fuel, waste oil, etc.).

See Table 4-1, below, for the list of items sent for disposal. See **Annex A** for shipping documents, including the completed movement documents for waste regulated under the Transportation of Dangerous Goods Regulations (TDGR) and NWS Manifests for non-regulated waste.

Table 4-1: Hazardous Waste and Waste Oil Sent for Disposal from CAM-M in 2020

Description, TDG shipping name	Quantity	Movement Document or Manifest #
Waste batteries, wet, filled with acid	2 crates	Movement Document 2539515-3
Waste batteries, wet, non-spillable	1 crate	Movement Document 2539515-3
Waste Refrigerant Gas 134a	2 cylinders	Movement Document 2539516-1
Waste Refrigerant Gas 404 A	1 cylinder	Movement Document 2539516-1
Waste - Mercury contained in manufactured articles	1 drum	Movement Document 2539515-3



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Description, TDG shipping name	Quantity	Movement Document or Manifest #
Waste – Silica blast material with hydrocarbon odour Not TDG regulated	1 drum	NWS Manifest 41977
Waste Activated Carbon Filter Not Regulated	10 drums	NWS Manifest 41973, 41974, 41975
Waste aerosols (flammable)	1 drum	Movement Document 2539514-6
Waste Asbestos-containing Material Not TDG Regulated	23 drums	NWS Manifest 42211, 42212, 42213, 42214, 42215, 42216, 42217, 42218, 42219, 42220, 42221, 42223
Waste Fluorescent Tubes Not TDG Regulated	1 drum	NWS Manifest 42295
Waste fuel, aviation, turbine engine mixture	12 drums	Movement Document 2539514-6
Waste glycol (drum) Not TDG Regulated	2 drums	NWS Manifest 41976
Waste Fuel, Aviation, Turbine Engine	3 drums	Movement Document 2539514-6
Waste Jet A1 fuel fuel filters Waste solids containing flammable liquids, n.o.s (fuel, aviation, turbine engine)	1 drum	Movement Document 2539514-6
Waste Jet A1 fuel soaked sorbent Waste solids containing flammable liquids, n.o.s (fuel, aviation, turbine engine)	1 drum	Movement Document 2539514-6
Waste oil Not TDG regulated	44 drums	NWS Manifest 41957, 41958, 41959, 41960, 41967, 41968, 41969, 41970, 41971, 41972, 42239
Waste oil filters Not TDG regulated	4 drums	NWS Manifest 41978, 41979
Waste oily rags Waste solids containing flammable liquids, n.o.s (fuel, aviation, turbine engine)	7 drums	Movement Document 2539514-6
Waste organic peroxide type D, liquid (methyl ethyl ketone peroxide)	1 drum	Movement Document 2539515-3
Waste POL soaked absorbent Waste solids containing flammable liquids, n.o.s (fuel, aviation, turbine engine)	3 drums	Movement Document 2539514-6
Waste Propane	14 drums	Movement Document 2539516-1
Waste refrigerant gas 407C	2 drums	Movement Document 2539516-1

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Description, TDG shipping name	Quantity	Movement Document or Manifest #
Waste Sodasorb Pellets from BioPaks Not TDG Regulated	1 drum	NWS Manifest 41980
Waste tank bottom water/ tank cleaning effluent Waste fuel, aviation, turbine engine mixture	8 drums	Movement Document 2539514-6

5.0 NON-HAZARDOUS SOLID WASTE DISPOSAL

Non-hazardous domestic solid waste was disposed of at the local landfill through a contract with the Municipality of Cambridge Bay. RC has documented authorization from the community for receiving the waste. See Table 5-1, below, for the quantity of non-hazardous waste generated.

Table 5-1: Non-hazardous Domestic Solid Waste Sent for Disposal from CAM-M in 2020

Month	Waste Generated (kg)
January	1193
February	1007
March	1252
April	1357
May	1388
June	1565
July	1493
August	3433
September	1130
October	1527
November	113
December	1056
TOTAL	16,514

6.0 MONITORING PROGRAM

In 2020, a monitoring program was implemented at CAM-M as required by the water licence. The monitoring program included the following:

1. Volume of raw water drawn from the water Supply Lake (CDL-1). The information from this monitoring is shown in **Section 2.0 Water Use**.
2. Quality of sewage discharged from the final discharge point of the sewage treatment facility (CDL-2). The location of the sewage effluent outfall is shown in **Annex B**, including coordinates. The treated sewage was sampled monthly. The results of the analyses are shown in **Annex C**.
3. Prior to discharge, water contained in the berms of the fuel storage facilities (CDL-3) was assessed using hydrocarbon test strips. The test strips confirmed the water was within the effluent quality limits listed in the water licence, Part D. The coordinates and the photo log of the test strips after analysis are shown in **Annex D**.
4. No landfarm has been built on-site, therefore, no samples were required at the final discharge point from the landfarm (CDL-4).



7.0 SPILLS (UNAUTHORIZED DISCHARGES)

Four spills to the environment occurred at CAM-M in 2020.

Table 7-1: Unauthorized Discharges at CAM-M in 2020

Date, NT-NU Spill #	Product	Quantity	Cause and follow-up action	On-site location
15-Feb-2020, Spill # 20-051	Water / Hydronic Heating Water	8000 L	<p>On 15-Feb-2020, staff found that two pipes had frozen and ruptured causing several rooms in the building to be flooded with a mixture potable water and water from the site's heating system. Much of the spilled water leaked through the building's floor and froze. Once the leak was discovered staff shut off the system to stop the spill and repair the leak. Ice resulting from the release was containerized for off site disposal.</p> <p>The spill location is approximately 180 m from the nearest surface waterbody. The hydronic heating system at CAM-M does not hold glycol.</p> <p>See Annex F for information on the follow-up to this incident.</p>	A-Train Bathrooms (69°06'54"N, 105°07'34"W)
27-Mar-2020, Spill # 20-088	Hydraulic fluid	9 L	<p>On 27-Mar-2020, staff were starting snow clearing activities when they found that the hydraulic fluid filter had frozen and ruptured on a loader. The loader was stopped in place to limit the area impacted. The filter was replaced, stopping the leak. The impacted snow was collected and placed in salvage drums. It was determined that the filter failed because of the cold during the snow clearing activities (-37C).</p>	Between North end of A and B train (69°07'01.8" N, 105°07'14.9" W)
02-Jul-2020, Spill # 20-206	Jet-A1	0.5 L	<p>On 02-Jul-2020, POL technicians on site at CAM-M were transferring fuel and noticed that two pressure relief valves were weeping. The technicians on site wrapped the Pressure Relief Valves (PRVs) with absorbent and placed absorbent pads under the PRVs. It was determined that approximately 0.5 L of Jet-A1 was spilled. The clean up has been completed and the valves assembly will be replaced.</p>	Pressure relief valve near hangar (69°06'55"N, 105°07'14"W)
17-Nov-2020, Spill # 20-441	Hydraulic fluid	18 L	<p>On 17Nov2020 (18-Nov-2020 Zulu) workers were changing attachments on a Loader from the forks attachment to the bucket attachment. The connection to the forks attachment was disconnected from the Loader however the hydraulic lines remained connected. The Loader was then backed up, which put stress on the hydraulic fittings and caused them to break. Hydraulic fluid began to leak from the fittings and workers</p>	Outside Garage (69°06'59"N, 105°07'22"W)

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Date, NT-NU Spill #	Product	Quantity	Cause and follow-up action	On-site location
			immediately began emergency spill response procedures. 18 L of hydraulic fluid was released to the environment. Workers were then able to place a bucket below the leak and collect the remaining hydraulic fluid. The Loader is now being repaired inside the garage. Clean up of the 18 L of hydraulic fluid and contaminated snow is complete.	

The Spill Contingency Plan was successfully implemented.

8.0 REVISIONS TO THE SPILL CONTINGENCY PLAN

The Spill Contingency Plan was updated on 6-Jan-2021. An updated copy of the Spill Contingency Plan has been submitted to the NWB with this annual report.

9.0 PROGRESSIVE RECLAMATION WORK UNDERTAKEN

Remediation work was completed for the 21 November 2019 spill at the warehouse, including soil excavation, confirmatory sampling and backfilling. On 27 March 2020 RC provided the sampling results and details of the remediation activities to Environment and Climate Change Canada (ECCC) and Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) via email. RC is in the process of drafting a closure report which will be delivered to CIRNAC and ECCC representatives.

Remediation work was also completed for the 15 February 2020 spill, including containerization and characterization sampling of ice that resulted from the release. This spill will be further investigated in 2021.

See Annex F for information regarding the progressive reclamation work.

10.0 ACRONYMS

Table 10-1: Acronyms

Acronym	Definition
CWS for PHC	Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil
CCME	Canadian Council of Ministers of the Environment
m ³	Cubic metre
n.o.s.	Not Otherwise Specified
NWB	Nunavut Water Board
NWS	North Warning System
O&M	Operations and Maintenance
PHC	Petroleum Hydrocarbons
PID	Photo Ionizing Detector
POL	Petroleum, Oil & Lubricant
RC	Raytheon Canada
SQG	Soil Quality Guidelines
TDGR	Transportation of Dangerous Goods Regulations

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ANNEX A. HAZARDOUS WASTE AND WASTE OIL DISPOSAL IN 2020

The 2020 Movement Document for TDG Regulated waste and NWS Manifests for non-TDG Regulated waste (as previously described in Table 4-1) are included in the following pages.

The following documents are enclosed:

1. Movement Document 2539514-6
2. Movement Document 2539515-3
3. Movement Document 2539516-1
4. NWS Manifest 41957
5. NWS Manifest 41958
6. NWS Manifest 41959
7. NWS Manifest 41960
8. NWS Manifest 41967
9. NWS Manifest 41968
10. NWS Manifest 41969
11. NWS Manifest 41970
12. NWS Manifest 41971
13. NWS Manifest 41972
14. NWS Manifest 41973
15. NWS Manifest 41974
16. NWS Manifest 41975
17. NWS Manifest 41976
18. NWS Manifest 41977
19. NWS Manifest 41978
20. NWS Manifest 41979
21. NWS Manifest 41980
22. NWS Manifest 42166
23. NWS Manifest 42167
24. NWS Manifest 42189
25. NWS Manifest 42208
26. NWS Manifest 42211
27. NWS Manifest 42212
28. NWS Manifest 42213
29. NWS Manifest 42214
30. NWS Manifest 42215
31. NWS Manifest 42216
32. NWS Manifest 42217
33. NWS Manifest 42218
34. NWS Manifest 42219
35. NWS Manifest 42220
36. NWS Manifest 42221
37. NWS Manifest 42223
38. NWS Manifest 42239
39. NWS Manifest 42295

MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

2539514-6

Movement Document / Manifest Reference No.
N° de référence du document de mouvement/manifeste

A Generator / consigneur Producteur / expéditeur Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial NUG100003		B Carrier Transporteur Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés 2539515-3 8539516-1	
Company name / Nom de l'entreprise Department of National Defence c/o RCL Mailing address / Adresse postale City / Ville Province Postal code / Code postal 22 Wing Bldg 109, Hamell Heights ON POH1P0 E-mail / Courriel électronique Tel. No. / N° de tél. (705) 494-2011, 2861		Company name / Nom de l'entreprise Mailing address / Adresse postale City / Ville Province Postal code / Code postal E-mail / Courriel électronique Tel. No. / N° de tél. ()		C Receiver / consignee Réceptionnaire / destinataire Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial Receiver / consignee information same as in Part A Les renseignements du réceptionnaire / destinataire est la même qu'à la Partie A <input type="checkbox"/> Yes / Oui <input type="checkbox"/> No, complete the box below / Non, remplir la case ci-dessous	
Shipping site address / Adresse du lieu de l'expédition NWS LSS Cambridge Bay P.O. Box 1239 City / Ville Province Postal code / Code postal Cambridge Bay NU X0B 0C0		Vehicle / Véhicule Trailer - Rail car No. 1 1 ^{re} remorque - wagon Trailer - Rail car No. 2 2 ^e remorque - wagon Registration No. / N° d'immatriculation Prov.		Company name / Nom de l'entreprise Mailing address / Adresse postale City / Ville Province Postal code / Code postal E-mail / Courriel électronique Tel. No. / N° de tél. () Receiving site address / Adresse du lieu de destination Date received / Date de réception Year / Année Month / Mois Day / Jour Time / Heure <input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	
Intended Receiver / consignee Réceptionnaire / destinataire prévu Qikiqtaaluk Environmental Mailing address / Adresse postale City / Ville Province Postal code / Code postal 7610-16-01-037154 40674006 755 de Châteauneuf Brossard, QC J4Z 3V4 E-mail / Courriel électronique Tel. No. / N° de tél. (866) 634-6367		Port of entry Point d'entrée International use only Port of exit Point de sortie International use only Carrier Certification: I certify that I have received waste or recyclable material from the generator / consigneur for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct. Attestation du transporteur: J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au réceptionnaire / destinataire, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets. Name of authorized person (print): Nom de l'agent autorisé (caractères d'imprimerie): Year / Année Month / Mois Day / Jour Signature:		If waste or recyclable material to be transferred, specify intended company name/ Si les déchets ou matières recyclables doivent être transférés, préciser le nom du destinataire Registration No./Provincial ID No. N° d'immatriculation/d'id provincial	
Receiving site address / Adresse du lieu de l'expédition Veolia, 2630 boul Industriel City / Ville Province Postal code / Code postal Chambly QC J3L 4V2		Year / Année Month / Mois Day / Jour Signature:		Quantity received Quantité reçue Units L or / ou Kg Unités Comments Commentaires Handling Code / Code de manutention Shipment / Envoi Accepted Refused Accepté Refusé Decont. Pack. Veh. Cont. Véh.	
Prov. code Code prov. Shipping name Appellation réglementaire Class / Classe Sub. class(es) Classes(s) sub. UN No. N° NU Packing / risk gr. Gr. d'emballage/ de risque Quantity shipped Quantité expédiée Units L or / ou Kg Unités Packaging/Contenant No. / N° Codes Int.-ext. Phys. state État phys.		(i) Waste Solids Containing 4.1 UN3175 II 752 KG 12 01 S Liquid NOS/Fuel/Aviation Turbine Engine (ii) Waste Fuel, Aviation 3 UN1863 III 3030 L 20 01 L Turbine Engine Mixture * (iii) Waste Aerosols 2.1 UN1950 40 KG 1 01 G (iv) Waste Fuel, Aviation 3 UN1863 III 640 L 3 01 L Turbine Engine *		If handling code "Other" (specify) Si code de manutention « autre » (spécifier) Receiver / consignee certification: I certify that the information contained in Part C is correct and complete. / Attestation du réceptionnaire / destinataire: J'atteste que tous les renseignements à la partie C sont exacts et complets. Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie) Signature Tel. No. / N° de tél. ()	
Notice No. N° de notification Notice Line No. N° de ligne de la notification Shipment Envoi Off / De D or R code Code E ou R C code Code C Basel Annex VIII or OECD Code Annexe VIII de Bâle ou Code OCDE H code Code H Y code Code Y Export Exportation Import Importation Customs code(s) Code(s) de douanes		National code in country of / Code du pays Customs code(s) Code(s) de douanes		Special handling / Manutention spéciale <input type="checkbox"/> Attached / Ci-joint <input type="checkbox"/> As follows / Ci-contre:	
(i) *Flash Point 38°C (ii) (iii) International use only (iv) 24-HOUR Number: CANUTEC 6013-996-6666 Use in case of Dangerous Goods Emergency		Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie) MARTIN Richard M Richard (705) 494-2011, 2861 Signature Tel. No. / N° de tél. Craig Ivany (705) 494-2011, 2861		Date shipped / Date d'expédition Year / Année Month / Mois Day / Jour Time / Heure <input type="checkbox"/> A.M. <input type="checkbox"/> P.M. Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour	

MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

2539515-3

Movement Document / Manifest Reference No.
N° de référence du document de mouvement/manifeste

A Generator / consigneur Producteur / expéditeur Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial NUG100003		B Carrier Transporteur Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		C Receiver / consignee Réceptionnaire / destinataire Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial 2539514-6 2539514-1	
Company name / Nom de l'entreprise Department of National Defence % RCL Mailing address / Adresse postale City / Ville Province Postal code / Code postal 22 Wing Bldg 109, Hornell Heights ON P0H 1P0 E-mail / Courriel électronique Tel. No. / N° de tél. (705) 494-2011, 2861		Company name / Nom de l'entreprise Mailing address / Adresse postale City / Ville Province Postal code / Code postal E-mail / Courriel électronique Tel. No. / N° de tél. ()		Receiver / consignee information same as in Part A Les renseignements du réceptionnaire / destinataire est la même qu'à la Partie A <input type="checkbox"/> Yes / Oui <input type="checkbox"/> No, complete the box below / Non, remplir la case ci-dessous	
Shipping site address / Adresse du lieu de l'expédition NWS LSS Cambridge Bay P.O. Box 1239 City / Ville Province Postal code / Code postal Cambridge Bay NU X0B 0G0		Vehicle / Véhicule Trailer - Rail car No. 1 1 ^{re} remorque - wagon Trailer - Rail car No. 2 2 ^e remorque - wagon Registration No. / N° d'immatriculation Prov.		Company name / Nom de l'entreprise Mailing address / Adresse postale City / Ville Province Postal code / Code postal E-mail / Courriel électronique Tel. No. / N° de tél. ()	
Intended Receiver / consignee Réceptionnaire / destinataire prévu Qikigaaluk Environmental Mailing address / Adresse postale City / Ville Province Postal code / Code postal 1135 de Chateaux Entrance 7, Suite 200 Brossard, QC J4Z 3V4 E-mail / Courriel électronique Tel. No. / N° de tél. (846) 634-6367		Port of entry Point d'entrée International use only Port of exit Point de sortie International use only		Date received / Date de réception Year / Année Month / Mois Day / Jour Time / Heure <input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	
Receiving site address / Adresse du lieu de l'expédition Veolia, 2630 boul Industriel City / Ville Province Postal code / Code postal Chambly QC J3L 4V2		Carrier Certification: I certify that I have received waste or recyclable material from the generator / consigneur for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct. Attestation du transporteur: J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au réceptionnaire / destinataire, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets.		If waste or recyclable material to be transferred, specify intended company name / Si les déchets ou matières recyclables doivent être transférés, préciser le nom du destinataire	
Name of authorized person (print): Nom de l'agent autorisé (caractères d'imprimerie): Year / Année Month / Mois Day / Jour Signature:		Name of authorized person (print): Nom de l'agent autorisé (caractères d'imprimerie): Year / Année Month / Mois Day / Jour Signature:		If handling code "Other" (specify) Si code de manutention « autre » (spécifier)	
Prov. code Code prov.		Shipping name Appellation réglementaire		Class / Classe Sub. class(es) Classe(s) sub.	
UN No. N° NU		Packing / risk gr. Gr. d'emballage / de risque		Quantity shipped Quantité expédiée	
Units L or / ou Kg Unités		Packaging/Contenant No. / N° Codes Int.-ext.		Phys. state État phys.	
Quantity received Quantité reçue		Comments Commentaires		Handling Code / Code de manutention	
Shipment / Envoi Accepted / Refused Accepté / Refusé		Discont. Pack. Veh. Cont. Véh.		Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie)	
Notice No. N° de notification		Notice Line No. N° de ligne de la notification		Shipment Envoi	
Off / De		D or R code Code E ou R		C code Code C	
Basel Annex VIII or OECD Code Annexe VIII de Bâle ou Code OCDE		H code Code H		Y code Code Y	
Export Exportation		Import Importation		Customs code(s) Code(s) de douanes	
International use only					
24 HOUR Number: CANUTEC 613-996-6666 Use in case of Dangerous Goods Emergency					
Generator / consigneur certification: I certify that the information contained in Part A is correct and complete. Attestation du producteur / expéditeur: J'atteste que tous les renseignements à la partie A sont exacts et complets.					
Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie) MARTIN Richard M Richard (705) 494-2011, ext 2861					
Signature Tel. No. / N° de tél. Craig IVany					
Special handling / Manutention spéciale <input type="checkbox"/> Attached / Ci-joint <input type="checkbox"/> As follows / Ci-contre:					
Date shipped / Date d'expédition Year / Année Month / Mois Day / Jour Time / Heure 20					
Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour					

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

Movement Document / Manifest Reference No.
N° de référence du document de mouvement/manifeste

MOE 04-1917 (07/07)

Copy / Copie 1 (white / blanche)



SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 1, 2020, 2:33 PM	Project ID:	Task ID: TCN-41957
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE		1-PALLET	814 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
4	DRUM	814 KGS	2002406	WASTE - OIL, 45 GAL	1.5 M3		NON-REGULATED WASTE, ASSETS:353517, 353529, 352917, 353528

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
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Received By:	Date
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SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 1, 2020, 2:51 PM	Project ID:	Task ID: TCN-41958
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE		1-PALLET	683 KGS

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
4	DRUM	683 KGS	2002406	WASTE - OIL, 45 GAL	1.5 M3		NON-REGULATED WASTE, ASSETS:353030, 353031, 353032, 354188

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date



SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 1, 2020, 2:57 PM	Project ID:	Task ID: TCN-41959
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE		1-PALLET	764 KGS

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
4	DRUM	764 KGS	2002406	WASTE - OIL, 45 GAL	1.5 M3		NON-REGULATED WASTE, ASSET: 355110, 355112, 354025, 355111

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
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Received By:	Date
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SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 1, 2020, 3:01 PM	Project ID:	Task ID: TCN-41960
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE		1-PALLET	818 KGS

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
4	DRUM	818 KGS	2002406	WASTE - OIL, 45 GAL	1.5 M3		NON-REGULATED WASTE, ASSETS:353516, 353515, 353514, 353842

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
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Received By:	Date
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SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 3, 2020, 3:44 PM	Project ID:	Task ID: TCN-41967
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE		1-PALLET	796 kg

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
4	DRUM	796 kg	2002406	WASTE - OIL, 45 GAL	1.6 M3		NON-REGULATED WASTE, ASSETS: 353855, 355466, 349776, 348007

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date



SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 3, 2020, 3:49 PM	Project ID:	Task ID: TCN-41968
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE		1-PALLET	801 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
4	DRUM	801 KG	2002406	WASTE - OIL, 45 GAL	1.5 M3		NON-REGULATED WASTE, ASSETS: 354022, 353530, 353033, 353204

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
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Received By:	Date
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SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 3, 2020, 3:56 PM	Project ID:	Task ID: TCN-41969
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE		1-PALLET	836 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
4	DRUM	836 KG	2002406	WASTE - OIL, 45 GAL	1.6 M3		NON-REGULATED WASTE, ASSETS: 349742, 348159, 354023, 354024

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date



SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 3, 2020, 4:06 PM	Project ID:	Task ID: TCN-41970
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE		1-PALLET	836 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
4	DRUM	836 KG	2002406	WASTE - OIL, 45 GAL	1.5 M3		NON-REGULATED WASTE, ASSETS: 351049, 351128, 347929, 353197

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date



SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 3, 2020, 4:09 PM	Project ID:	Task ID: TCN-41971
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:		Attention:	MRICHARD	
Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE		1-PALLET	763 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
4	DRUM	763 KG	2002406	WASTE - OIL, 45 GAL	1.6 M3		NON-REGULATED WASTE, ASSETS: 355066, 350938, 355467, 355566

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date



SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 3, 2020, 4:14 PM	Project ID:	Task ID: TCN-41972
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:		Attention:	MRICHARD	
Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE		1-PALLET	787 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
4	DRUM	787 KG	2002406	WASTE - OIL, 45 GAL	1.50 M3		NON-REGULATED WASTE, ASSETS: 355529, 353856, 351207, 355390

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date



SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 3, 2020, 4:44 PM	Project ID:	Task ID: TCN-41973
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:		Attention:	MRICHARD	
Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE		1-PALLET	648 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
4	DRUM	648 KG	2002351	WASTE - ACTIVATED CARBON FILTE	1.56 M3		NON-REGULATED WASTE, ASSETS: 355525, 355526, 355527, 355528

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date



SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 3, 2020, 4:50 PM	Project ID:	Task ID: TCN-41974
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:		Attention:	MRICHARD	
Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE		1-PALLET	723 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
4	DRUM	723 KG	2002351	WASTE - ACTIVATED CARBON FILTE	1.56 M3		NON-REGULATED WASTE, ASSETS: 355521, 355522, 355523, 355524

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date



SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 3, 2020, 4:59 PM	Project ID:	Task ID: TCN-41975
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE		1-PALLET	368 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUM	368 KG	2002351	WASTE - ACTIVATED CARBON FILTE	0.77 M3		NON-REGULATED WASTE, ASSETS: 355519, 355520

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
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Received By:	Date
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SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 3, 2020, 5:04 PM	Project ID:	Task ID: TCN-41976
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE		1-PALLET	471 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2		471 KG	2002344	WASTE - GLYCOL (DRUM)	0.75 M3		NON-REGULATED WASTE, ASSETS: 332599, 341163

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
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Received By:	Date
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SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 3, 2020, 5:09 PM	Project ID:	Task ID: TCN-41977
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE		1-PALLET	214 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	DRUM	214 KG	4003858	WASTE - SILICA BLAST MATERIAL	0.32 KG		NON-REGULATED WASTE, ASSETS: 355569

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
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Received By:	Date
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SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 3, 2020, 5:13 PM	Project ID:	Task ID: TCN-41978
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
	SHIP TO CONSIGNEE		1-PALLET	165 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUM	165 KG	2002356	WASTE - OIL FILTERS	1.66 M3		NON-REGULATED WASTE, ASSETS: 352087, 353420

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
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Received By:	Date
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SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 3, 2020, 5:18 PM	Project ID:	Task ID: TCN-41979
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE		1-PALLET	170 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUM	170 KG	2002356	WASTE - OIL FILTERS	1.66 M3		NON-REGULATED WASTE, ASSETS: 354170, 352652

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
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Received By:	Date
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SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 3, 2020, 5:31 PM	Project ID:	Task ID: TCN-41980
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE		1-PALLET	157 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	DRUM	157 KG	2010436	WASTE - SODASORB PELLETS FROM	0.85 M3		NON-REGULATED WASTE, ASSETS: 326410

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
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Received By:	Date
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SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 21, 2020, 4:22 PM	Project ID:	Task ID: TCN-42211
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE	TM10546	1 PALLET	519 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUM	519 KG	4004961	WASTE - Asbestos Containing Ma	1.22 M3		NON REGULATED / WASTE ASSET: 353494, 353495 / 2 DRUMS ON 1 PALLET

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date



SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 21, 2020, 4:27 PM	Project ID:	Task ID: TCN-42212
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE	TM10546		120 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUM	120 KG	4004961	WASTE - Asbestos Containing Ma	1.22 M3		NON REGULATED / WASTE ASSET: 353445, 353446 / 2 DRUMS ON 1 PALLET

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date



SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 21, 2020, 5:41 PM	Project ID:	Task ID: TCN-42213
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE	TM 10546	1 PALLET	119 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUM	119 KG	4004961	WASTE - Asbestos Containing Ma	1.22 M3		NON REGULATED / WASTE ASSET: 353441, 353444 / 2 DRUMS ON 1 PALLET

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date



SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 21, 2020, 5:44 PM	Project ID:	Task ID: TCN-42214
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE	TM10546	1 PALLET	146 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUM	146 KG	4004961	WASTE - Asbestos Containing Ma	1.22 M3		NON REGULATED / WASTE ASSET: 353833, 353832 / 2 DRUMS ON 1 PALLET

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date



SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 21, 2020, 5:49 PM	Project ID:	Task ID: TCN-42215
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE	TM10546	1 PALLET	138 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUM	138 KG	4004961	WASTE - Asbestos Containing Ma	1.22 M3		NON REGULATED / WASTE ASSET: 353448, 353447 / 2 DRUMS ON 1 PALLET

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date



SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 21, 2020, 5:52 PM	Project ID:	Task ID: TCN-42216
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE	TM10546	1 PALLET	194 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUM	194 KG	4004961	WASTE - Asbestos Containing Ma	1.22 M3		NON REGULATED / WASTE ASSET: 353841, 353460 / 2 DRUMS ON 1 PALLET

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date



SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 21, 2020, 5:56 PM	Project ID:	Task ID: TCN-42217
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE	TM10546	1 PALLET	111 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUM	111 KG	4004961	WASTE - Asbestos Containing Ma	1.22 M3		NON REGULATED / WASTE ASSET: 353836, 353831 / 2 DRUMS ON 1 PALLET

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date



SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 21, 2020, 6:00 PM	Project ID:	Task ID: TCN-42218
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE	TM10546	1 PALLET	316 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2		316 KG	4004961	WASTE - Asbestos Containing Ma	1.22 M3		NON REGULATED / WASTE ASSET: 353452, 353450 / 2 DRUMS ON 1 PALLET

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date



SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 21, 2020, 6:02 PM	Project ID:	Task ID: TCN-42219
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE	TM10546	1 PALLET	153 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUM	153 KG	4004961	WASTE - Asbestos Containing Ma	1.22 M3		NON REGULATED / WASTE ASSET: 353834, 353835 / 2 DRUMS ON 1 PALLET

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date



SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 21, 2020, 6:06 PM	Project ID:	Task ID: TCN-42220
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE	TM10546	1 PALLET	125 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUM	125 KG	4004961	WASTE - Asbestos Containing Ma	1.22 M3		NON REGULATED / WASTE ASSET: 353449, 353443 / 2 DRUMS ON 1 PALLET

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date



SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 21, 2020, 6:11 PM	Project ID:	Task ID: TCN-42221
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE		1 PALLET	128 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUM	128 KG	4004961	WASTE - Asbestos Containing Ma	1.22 M3		NON REGULATED / WASTE ASSET: 353451, 353442 / 2 DRUMS ON 1 PALLET

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date



SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 21, 2020, 6:15 PM	Project ID:	Task ID: TCN-42223
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:		Attention:	MRICHARD	
Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE	TM10546	1 PALLET	127 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	DRUM	127 KG	4004961	WASTE - Asbestos Containing Ma	0.75 M3		NON REGULATED / WASTE ASSET: 353837 / 1 DRUM ON 1 PALLET

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date



SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 24, 2020, 3:22 PM	Project ID:	Task ID: TCN-42239
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:		Attention:	MRICHARD	
Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE		1-PALLET	835 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
4	DRUM		2002406	WASTE - OIL, 45 GAL	1.66 M3		NON-REGULATED WASTE, ASSETS:353243, 351166, 355567, 353234 / 4 DRUMS ON 1 PALLET

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
Received By:	Date



SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

NON NEGOTIABLE

Filled By: MRICHARD	Date: Aug 28, 2020, 1:27 PM	Project ID:	Task ID: TCN-42295
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom Raytheon Canada Limited, LSS Cambridge Bay: P.O. Box 1239 Cambridge Bay, NU, X0B 0C0 867-983-3001	Priority 0
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Attention:	Attention:	MRICHARD
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	SHIP TO CONSIGNEE		1 WOOD CRA	369 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	WOOD CRATE	2002503	WASTE - FLUORESCENT TUBES		2.79 M3		NON REGULATED WASTE / ASSET 328077, 1 WOOD CRATE.

NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.

Received By:	Date
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Received By:	Date
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ANNEX B. TREATED SEWAGE EFFLUENT OUTFALL (CDL-2) LOCATION WITH COORDINATES



Figure 1: Coordinates of sewage treatment outfall: 69°07'03.2"N, 105°07'11.3"W

**ANNEX C. ANALYSIS OF TREATED SEWAGE EFFLUENT****Table C-1: Summary of Analysis of Treated Sewage Effluent at CAM-M in 2020**

Sample Date	Parameter				
	pH	Oil and Grease (Present - P / Absent - A)	Biological Oxygen Demand (mg/L)	Total Suspended Solids (mg/L)	Faecal Coliforms ¹
Maximum Concentration	6.0 to 9.0 (pH units)	No visible sheen	120 mg/L	180 mg/L	10,000 CFU/100 mL
6-Jan-20	7.83	A	13	<2	46.33
3-Feb-20	7.85	A	4	<2	4.67
9-Mar-20	8.12	A	6	<2	139.67
6-Apr-20	7.93	A	<1	<2	1.00
5-May-20	7.96	A	3	<2	1.00
2-Jun-20	7.38	A	<1	<2	7.00
6-Jul-20	6.94	A	3	<2	12.33
3-Aug-20	6.38	A	13	<2	0.00
1-Sep-20	7.21	A	3	<2	0.00
19-Oct-20	7.30	A	8	<2	1.00
2-Nov-20	8.20	A	2	<2	0.00
7-Dec-20	7.03	A	2	<2	33.00

The following documents are enclosed:

1. Eurofins Certificate of Analysis 6-Jan-20
2. Eurofins Certificate of Analysis 3-Feb-20
3. Eurofins Certificate of Analysis 9-Mar-20
4. Eurofins Certificate of Analysis 6-Apr-20
5. Eurofins Certificate of Analysis 5-May-20
6. Eurofins Certificate of Analysis 2-Jun-20
7. Eurofins Certificate of Analysis 6-Jul-20
8. Eurofins Certificate of Analysis 3-Aug-20
9. Eurofins Certificate of Analysis 1-Sep-20
10. Eurofins Certificate of Analysis 19-Oct-20
11. Eurofins Certificate of Analysis 2-Nov-20
12. Eurofins Certificate of Analysis 7-Dec-20

¹ This column contains the average of the Cyclet 1A, Cyclet 1B, and Cyclet 1C.



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1923902
Date Submitted: 2020-01-13
Date Reported: 2020-01-14
Project: 002160-OT
COC #: 207969

Page 1 of 2

Dear Will Wyman:

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
2020.01.14
13:20:43
-05'00'

APPROVAL:

Jason Kennedy, Project Manager

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.

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. Eurofins recommends consulting the official provincial or federal guideline as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1923902
Date Submitted: 2020-01-13
Date Reported: 2020-01-14
Project: 002160-OT
COC #: 207969

Group	Analyte	MRL	Units	Guideline	Lab I.D.	Sample Matrix	Sample Type	Sampling Date	Sample I.D.
					1475094	Sewage	1475095	Sewage	1475096
Microbiology	Faecal Coliforms	0	ct/100mL		2020-01-06	Cam-Main Cyclot 1A	2020-01-06	Cam-Main Cyclot 1B	2020-01-06
					59		78		2

Guideline = * = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted.

Analytical Method: AMBCOLM1

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



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa


Report Number: 1923895
Date Submitted: 2020-01-13
Date Reported: 2020-01-20
Project: 002160-OT
COC #: 207969

Page 1 of 3

Dear Will Wyman:

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:


Addrine
Thomas
2020.01.20
14:34:55 -05'00'

APPROVAL:

Addrine Thomas, Inorganics Supervisor

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

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1923895
Date Submitted: 2020-01-13
Date Reported: 2020-01-20
Project: 002160-OT
COC #: 207969

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
Group	Analyte	MRL	Units	Guideline	1475079 Sewage 2020-01-06 Cam-Main Cyclet 1
General Chemistry	BOD5	1	mg/L		13
	pH	1.00			7.83
	Total Suspended Solids	2	mg/L		<2
Oil and Grease	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

Guideline = * = Guideline Exceedence

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



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1923895
Date Submitted: 2020-01-13
Date Reported: 2020-01-20
Project: 002160-OT
COC #: 207969

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 208523 Analysis/Extraction Date 2020-01-13 Analyst C M			
Method SHEEN			
Visible Sheen			
Run No 378447 Analysis/Extraction Date 2020-01-20 Analyst Z S			
Method SM 5210B			
BOD5	<1 mg/L	80	75-125
Run No 378448 Analysis/Extraction Date 2020-01-15 Analyst TJB			
Method MOE E3421			
Oil & Grease - Mineral	<1 mg/L	93	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	95	60-120
Run No 378525 Analysis/Extraction Date 2020-01-16 Analyst H D			
Method SM2320,2510,4500H/F			
pH		99	90-110
Run No 378570 Analysis/Extraction Date 2020-01-20 Analyst SKH			
Method C SM2540			
Total Suspended Solids	<2 mg/L	100	90-110

Guideline =

* = Guideline Exceedence

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1925260
Date Submitted: 2020-02-10
Date Reported: 2020-02-18
Project:
COC #: 854260


Page 1 of 3

Dear Will Wyman:

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:


Addrine
Thomas
2020.02.18
14:14:09 -05'00'

Addrine Thomas, Inorganics Supervisor

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1925260
Date Submitted: 2020-02-10
Date Reported: 2020-02-18
Project:
COC #: 854260

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
					1478902 Sewage 2020-02-03 CAM-Main Cyclet 1
Group	Analyte	MRL	Units	Guideline	
General Chemistry	BOD5	1	mg/L		4
	pH	1.00			7.85
	Total Suspended Solids	2	mg/L		<2
Oil and Grease	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

Guideline = * = Guideline Exceedence

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



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1925260
Date Submitted: 2020-02-10
Date Reported: 2020-02-18
Project:
COC #: 854260

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 379520 Analysis/Extraction Date 2020-02-11 Analyst H D Method SM2320,2510,4500H/F			
pH		101	90-110
Run No 379585 Analysis/Extraction Date 2020-02-18 Analyst Z S Method SM 5210B			
BOD5	<1 mg/L	103	75-125
Run No 379618 Analysis/Extraction Date 2020-02-13 Analyst TJB Method MOE E3421			
Oil & Grease - Mineral	<1 mg/L	94	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	90	60-120
Run No 379628 Analysis/Extraction Date 2020-02-13 Analyst SKH Method C SM2540			
Total Suspended Solids	<2 mg/L	98	90-110
Run No 379722 Analysis/Extraction Date 2020-02-18 Analyst TJB Method SHEEN			
Visible Sheen			

Guideline = *** = Guideline Exceedence**

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1925263
Date Submitted: 2020-02-10
Date Reported: 2020-02-11
Project:
COC #: 854260

Page 1 of 3

Dear Will Wyman:

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:

Dragana
Dzeletovic

2020.02.11

13:34:51

-05'00'

APPROVAL:

Dragana Dzeletovic-Andic, Microbiology

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1925263
Date Submitted: 2020-02-10
Date Reported: 2020-02-11
Project:
COC #: 854260

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1478908 Sewage 2020-02-03 CAM-Main Cyclet 1A	1478909 Sewage 2020-02-03 CAM-Main Cyclet 1B	1478910 Sewage 2020-02-03 CAM-Main Cyclet 1C
Microbiology	Faecal Coliforms	0	ct/100mL			7	2	5

Guideline = * = **Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

Analytical Method: AMBCOLM1

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



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1925263
Date Submitted: 2020-02-10
Date Reported: 2020-02-11
Project:
COC #: 854260

Sample Comment Summary

Sample ID: 1478908 CAM-Main Cyclot 1A Deviation from standard protocol. Sample past hold time.

Guideline = *** = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

Analytical Method: AMBCOLM1

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



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa


Report Number: 1927105
Date Submitted: 2020-03-13
Date Reported: 2020-03-18
Project:
COC #: 855439

Page 1 of 3

Dear Will Wyman:

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:

Sarah
Horner
 2020.03.1
8 17:35:58
-04'00'

APPROVAL:

Sarah Horner, Inorganics Technician

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Environment Testing

Certificate of Analysis

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400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1927105
Date Submitted: 2020-03-13
Date Reported: 2020-03-18
Project:
COC #: 855439

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
					1484785 Sewage 2020-03-09 Cam-Main Cyclet 1
Group	Analyte	MRL	Units	Guideline	
General Chemistry	BOD5	1	mg/L		6
	pH	1.00			8.12
	Total Suspended Solids	2	mg/L		<2
Oil and Grease	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

Guideline = * = Guideline Exceedence

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1927105
Date Submitted: 2020-03-13
Date Reported: 2020-03-18
Project:
COC #: 855439

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 380741 Analysis/Extraction Date 2020-03-18 Analyst Z S Method SM 5210B			
BOD5	<1 mg/L	105	75-125
Run No 380853 Analysis/Extraction Date 2020-03-16 Analyst H D Method SM2320,2510,4500H/F			
pH		101	90-110
Run No 380933 Analysis/Extraction Date 2020-03-18 Analyst SKH Method C SM2540			
Total Suspended Solids	<2 mg/L	101	90-110
Run No 380964 Analysis/Extraction Date 2020-03-18 Analyst TJB Method MOE E3421			
Oil & Grease - Mineral	<1 mg/L	95	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	95	60-120
Visible Sheen			

Guideline = *** = Guideline Exceedence**

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Environment Testing

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400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1927119
Date Submitted: 2020-03-13
Date Reported: 2020-03-16
Project:
COC #: 855439

Page 1 of 3

Dear Will Wyman:

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:

Steven
Tosh
2020.03.1
6 13:13:56
-04'00'

APPROVAL:

Steven Tosh, Operations Manager

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1927119
Date Submitted: 2020-03-13
Date Reported: 2020-03-16
Project:
COC #: 855439

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1484844 Sewage 2020-03-09 Cam-Main Cyclet 1A	1484845 Sewage 2020-03-09 Cam-Main Cyclet 1B	1484846 Sewage 2020-03-09 Cam-Main Cyclet 1C
Microbiology	Faecal Coliforms	0	ct/100mL			149	123	147

Guideline = * = **Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

Analytical Method: AMBCOLM1

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



Environment Testing

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Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1927119
Date Submitted: 2020-03-13
Date Reported: 2020-03-16
Project:
COC #:

Sample Comment Summary

Sample ID: 1484844	Cam-Main Cyclot 1A	Deviation from standard protocol. Sample past hold time.
Sample ID: 1484845	Cam-Main Cyclot 1B	Deviation from standard protocol. Sample past hold time.
Sample ID: 1484846	Cam-Main Cyclot 1C	Deviation from standard protocol. Sample past hold time.

Guideline = *** = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

Analytical Method: AMBCOLM1

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



Environment Testing

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400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1928494
Date Submitted: 2020-04-14
Date Reported: 2020-04-15
Project:
COC #: 856382

Page 1 of 3

Dear Will Wyman:

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:

Dragana
Dzeletovic
2020.04.15
15:48:38
-04'00'

APPROVAL:

Dragana Dzeletovic-Andic, Microbiology

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1928494
Date Submitted: 2020-04-14
Date Reported: 2020-04-15
Project:
COC #: 856382

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1488610 Sewage 2020-04-06 Cam-Main Cyclet 1A	1488611 Sewage 2020-04-06 Cam-Main Cyclet 1B	1488612 Sewage 2020-04-06 Cam-Main Cyclet 1C
Group	Analyte	MRL	Units	Guideline				
Microbiology	Faecal Coliforms	0	ct/100mL			1	2	0

Guideline = * = **Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

Analytical Method: AMBCOLM1

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



Environment Testing

Certificate of Analysis

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400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1928494
Date Submitted: 2020-04-14
Date Reported: 2020-04-15
Project:
COC #: 856382

Sample Comment Summary

Sample ID: 1488610	Cam-Main Cyclot 1A	Deviation from standard protocol. Sample past hold time.
Sample ID: 1488611	Cam-Main Cyclot 1B	Deviation from standard protocol. Sample past hold time.
Sample ID: 1488612	Cam-Main Cyclot 1C	Deviation from standard protocol. Sample past hold time.

Guideline = *** = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

Analytical Method: AMBCOLM1

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



Environment Testing

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400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1928498
Date Submitted: 2020-04-14
Date Reported: 2020-04-20
Project:
COC #: 856382

Page 1 of 3

Dear Will Wyman:

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:

Addrine Thomas
2020.04.20
17:09:20 -04'00'

APPROVAL:

Addrine Thomas, Inorganics Supervisor

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Environment Testing

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400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1928498
Date Submitted: 2020-04-14
Date Reported: 2020-04-20
Project:
COC #: 856382

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
					1488625 Sewage 2020-04-06 Cam-Main Cyclet 1
Group	Analyte	MRL	Units	Guideline	
General Chemistry	BOD5	1	mg/L		<1
	pH	1.00			7.93
	Total Suspended Solids	2	mg/L		<2
Oil and Grease	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

Guideline = * = Guideline Exceedence

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



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1928498
Date Submitted: 2020-04-14
Date Reported: 2020-04-20
Project:
COC #: 856382

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 208523 Method SHEEN	Analysis/Extraction Date 2020-04-15 Analyst C M		
Visible Sheen			
Run No 381983 Method SM 5210B	Analysis/Extraction Date 2020-04-20 Analyst Z S		
BOD5	1 mg/L	79	75-125
Run No 382053 Method SM2320,2510,4500H/F	Analysis/Extraction Date 2020-04-16 Analyst AET		
pH		100	90-110
Run No 382106 Method C SM2540	Analysis/Extraction Date 2020-04-20 Analyst SKH		
Total Suspended Solids	<2 mg/L	97	90-110
Run No 382113 Method MOE E3421	Analysis/Extraction Date 2020-04-18 Analyst TJB		
Oil & Grease - Mineral	<1 mg/L	88	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	95	60-120

Guideline = * = Guideline Exceedence

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Methods references and/or 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: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1930051
Date Submitted: 2020-05-12
Date Reported: 2020-05-13
Project:
COC #: 857205

Page 1 of 2

Dear Will Wyman:

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:

Steven
Tosh
2020.05.1
3 11:37:54
-04'00'

APPROVAL:

Steven Tosh, Operations Manager

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

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1930051
Date Submitted: 2020-05-12
Date Reported: 2020-05-13
Project:
COC #: 857205

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1492956 Sewage 2020-05-05 Cam-Main Cyclet 1A	1492957 Sewage 2020-05-05 Cam-Main Cyclet 1B	1492958 Sewage 2020-05-05 Cam-Main Cyclet 1C
Microbiology	Faecal Coliforms	0	ct/100mL			0	1	1

Guideline = *** = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

Analytical Method: AMBCOLM1

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



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1930062
Date Submitted: 2020-05-12
Date Reported: 2020-05-20
Project:
COC #: 857205

Page 1 of 3

Dear Will Wyman:

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:

Charlie
Long Qu
2020.05.
20
16:01:53
-04'00'

APPROVAL:

Long Qu, Organics Supervisor

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

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1930062
Date Submitted: 2020-05-12
Date Reported: 2020-05-20
Project:
COC #: 857205

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
Group	Analyte	MRL	Units	Guideline	1492986 Sewage 2020-05-05 Cam-Main Cyclet 1
General Chemistry	BOD5	1	mg/L		3
	pH	1.00			7.96
	Total Suspended Solids	2	mg/L		<2
Oil and Grease	Oil & Grease - Mineral	1	mg/L		<1
	Oil & Grease - Non-mineral	1	mg/L		6
	Oil & Grease - Total	1	mg/L		6
	Visible Sheen		P/A		A

Guideline = * = Guideline Exceedence

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Methods references and/or 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: Mr. Will Wyman
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1930062
Date Submitted: 2020-05-12
Date Reported: 2020-05-20
Project:
COC #: 857205

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 208523 Analysis/Extraction Date 2020-05-19 Analyst C M Method SHEEN			
Visible Sheen			
Run No 383292 Analysis/Extraction Date 2020-05-18 Analyst AG Method SM 5210B			
BOD5	<1 mg/L	101	75-125
Run No 383370 Analysis/Extraction Date 2020-05-14 Analyst AET Method SM2320,2510,4500H/F			
pH		99	90-110
Run No 383372 Analysis/Extraction Date 2020-05-15 Analyst TJB Method MOE E3421			
Oil & Grease - Mineral	<1 mg/L	87	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	95	60-120
Run No 383464 Analysis/Extraction Date 2020-05-20 Analyst SKH Method C SM2540			
Total Suspended Solids	<2 mg/L	95	90-110

Guideline =

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1931826
Date Submitted: 2020-06-09
Date Reported: 2020-06-10
Project:
COC #: 858462

Page 1 of 3

Dear Will Wyman:

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:

Sawsan
2020.06.10
15:16:00
-04'00'

APPROVAL: _____
Sawsan Abusharkh, Microbiology Technician

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

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1931826
Date Submitted: 2020-06-09
Date Reported: 2020-06-10
Project:
COC #: 858462

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1498061 Sewage 2020-06-02 Cam-Main Cyclet 1A	1498062 Sewage 2020-06-02 Cam-Main Cyclet 1B	1498063 Sewage 2020-06-02 Cam-Main Cyclet 1C
Microbiology	Faecal Coliforms	0	ct/100mL			7	6	8

Guideline = *** = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

Analytical Method: AMBCOLM1

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



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1931826
Date Submitted: 2020-06-09
Date Reported: 2020-06-10
Project:
COC #: 858462

Sample Comment Summary

Sample ID: 1498061 Cam-Main Cyclot 1A Deviation from standard protocol. All bacteria samples on report are past hold time.

Guideline = *** = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

Analytical Method: AMBCOLM1

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



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1931795
Date Submitted: 2020-06-09
Date Reported: 2020-06-16
Project:
COC #: 858462

Page 1 of 3

Dear Will Wyman:

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:

Charlie Long Qu
2020.06.16
13:46:18 -04'00'

APPROVAL:

Long Qu, Organics Supervisor

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

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1931795
Date Submitted: 2020-06-09
Date Reported: 2020-06-16
Project:
COC #: 858462

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
Group	Analyte	MRL	Units	Guideline	
General Chemistry	BOD5	1	mg/L		1497969 Sewage
	pH	1.00			2020-06-02 Cam-Main Cyclet 1
	Total Suspended Solids	2	mg/L		
Oil and Grease	Oil & Grease - Mineral	1	mg/L		<1
	Oil & Grease - Non-mineral	1	mg/L		7.38
	Oil & Grease - Total	1	mg/L		<2
	Visible Sheen		P/A		<1

Guideline = * = Guideline Exceedence

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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



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1931795
Date Submitted: 2020-06-09
Date Reported: 2020-06-16
Project:
COC #: 858462

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 208523 Method SHEEN	Analysis/Extraction Date 2020-06-16 Analyst C M		
Visible Sheen			
Run No 384639 Method SM 5210B	Analysis/Extraction Date 2020-06-15 Analyst AG		
BOD5	1 mg/L	113	75-125
Run No 384710 Method SM2320,2510,4500H/F	Analysis/Extraction Date 2020-06-11 Analyst AET		
pH		100	90-110
Run No 384827 Method C SM2540	Analysis/Extraction Date 2020-06-15 Analyst MOS		
Total Suspended Solids	<2 mg/L	102	90-110
Run No 384854 Method MOE E3421	Analysis/Extraction Date 2020-06-15 Analyst E P		
Oil & Grease - Mineral	<1 mg/L	99	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	100	60-120

Guideline = * = Guideline Exceedence

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1934183
Date Submitted: 2020-07-13
Date Reported: 2020-07-14
Project:
COC #: 859923

Page 1 of 2

Dear Will Wyman:

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:

Dragana
Dzeletovic
2020.07.14
09:18:54

APPROVAL: -04'00'
Dragana Dzeletovic-Andric, Microbiology Team Lead

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1934183
Date Submitted: 2020-07-13
Date Reported: 2020-07-14
Project:
COC #: 859923

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1503851 Sewage - 2020-07-06 CAM Main Cyclet 1A	1503852 Sewage - 2020-07-06 CAM Main Cyclet 1B	1503853 Sewage - 2020-07-06 CAM Main Cyclet 1C
Microbiology	Faecal Coliforms	0	ct/100mL			13	11	13

Guideline = * = **Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

Analytical Method: AMBCOLM1

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



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1934182
Date Submitted: 2020-07-13
Date Reported: 2020-07-20
Project:
COC #: 859923

Page 1 of 3

Dear Will Wyman:

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:

Addrine Thomas
2020.07.20
15:17:43 -04'00'

APPROVAL:

Addrine Thomas, Inorganics Supervisor

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1934182
Date Submitted: 2020-07-13
Date Reported: 2020-07-20
Project:
COC #: 859923

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
					1503850 Sewage 2020-07-06 CAM Main Cyclet 1
Group	Analyte	MRL	Units	Guideline	
General Chemistry	BOD5	1	mg/L		3
	pH	1.00			6.94
	Total Suspended Solids	2	mg/L		<2
Oil and Grease	Oil & Grease - Mineral	1	mg/L		<1
	Oil & Grease - Non-mineral	1	mg/L		4
	Oil & Grease - Total	1	mg/L		4
	Visible Sheen		P/A		A

Guideline = * = Guideline Exceedence

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



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 004438-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1934182
Date Submitted: 2020-07-13
Date Reported: 2020-07-20
Project:
COC #: 859923

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 208523 Analysis/Extraction Date 2020-07-20 Analyst C M			
Method SHEEN			
Visible Sheen			
Run No 386162 Analysis/Extraction Date 2020-07-14 Analyst E P			
Method MOE E3421			
Oil & Grease - Mineral	<1 mg/L	101	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	85	60-120
Run No 386165 Analysis/Extraction Date 2020-07-14 Analyst MOS			
Method C SM2540			
Total Suspended Solids	<2 mg/L	95	90-110
Run No 386244 Analysis/Extraction Date 2020-07-20 Analyst AG			
Method SM 5210B			
BOD5	<1 mg/L	104	75-125
Run No 386283 Analysis/Extraction Date 2020-07-15 Analyst QT			
Method SM2320,2510,4500H/F			
pH		100	90-110

Guideline =

* = Guideline Exceedence

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Jeremie Berube
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1936017
Date Submitted: 2020-08-06
Date Reported: 2020-08-07
Project:
COC #: 861043

Page 1 of 3

Dear Jeremie Berube:

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
2020.08.07
13:03:07
-04'00'

APPROVAL:

Jason Kennedy, Project Manager

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Jeremie Berube
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1936017
Date Submitted: 2020-08-06
Date Reported: 2020-08-07
Project:
COC #: 861043

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1508679 Sewage 2020-08-03 Cam-Main Cyclet 1A	1508680 Sewage 2020-08-03 Cam-Main Cyclet 1B	1508681 Sewage 2020-08-03 Cam-Main Cyclet 1C
Microbiology	Faecal Coliforms	0	ct/100mL			0	0	0

Guideline = * = **Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

Analytical Method: AMBCOLM1

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



Environment Testing

Certificate of Analysis

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400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Jeremie Berube
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1936017
Date Submitted: 2020-08-06
Date Reported: 2020-08-07
Project:
COC #: 861043

Sample Comment Summary

Sample ID: 1508679 Cam-Main Cyclot 1A Deviation from standard protocol. All samples on report are past holding time.

Guideline = *** = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

Analytical Method: AMBCOLM1

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



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Jeremie Berube
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa


Report Number: 1936016
Date Submitted: 2020-08-06
Date Reported: 2020-08-13
Project:
COC #: 861043

Page 1 of 3

Dear Jeremie Berube:

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: 
Addrine Thomas, Inorganics Supervisor
2020.08.13
15:50:43 -04'00'

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Jeremie Berube
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1936016
Date Submitted: 2020-08-06
Date Reported: 2020-08-13
Project:
COC #: 861043

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
Group	Analyte	MRL	Units	Guideline	1508678 Sewage 2020-08-03 Cam-Main Cyclet 1
General Chemistry	BOD5	1	mg/L		13
	pH	1.00			6.38
	Total Suspended Solids	2	mg/L		<2
Oil and Grease	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

Guideline = * = Guideline Exceedence

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



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Jeremie Berube
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1936016
Date Submitted: 2020-08-06
Date Reported: 2020-08-13
Project:
COC #: 861043

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 208523 Analysis/Extraction Date 2020-08-13 Analyst C M			
Method SHEEN			
Visible Sheen			
Run No 387279 Analysis/Extraction Date 2020-08-11 Analyst AG			
Method SM 5210B			
BOD5	<1 mg/L	82	75-125
Run No 387517 Analysis/Extraction Date 2020-08-12 Analyst MOS			
Method C SM2540			
Total Suspended Solids	<2 mg/L	101	90-110
Run No 387544 Analysis/Extraction Date 2020-08-11 Analyst YH			
Method MOE E3421			
Oil & Grease - Mineral	<1 mg/L	63	60-120
Oil & Grease - Non-mineral	<1 mg/L	70	60-120
Oil & Grease - Total	<1 mg/L	70	60-120
Run No 387649 Analysis/Extraction Date 2020-08-13 Analyst AET			
Method SM4500-H+B			
pH	5.63	100	90-110

Guideline = * = Guideline Exceedence

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Methods references and/or 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: Mr. Jeremie Berube
PO#: 007264-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1938482
Date Submitted: 2020-09-10
Date Reported: 2020-09-11
Project:
COC #: 862852

Page 1 of 3

Dear Jeremie Berube:

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:

Steven
Tosh
2020.09.11
16:21:18
-04'00'

APPROVAL:

Steven Tosh, Operations Manager

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Jeremie Berube
PO#: 007264-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1938482
Date Submitted: 2020-09-10
Date Reported: 2020-09-11
Project:
COC #: 862852

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1515853 Sewage 2020-09-01 Cam-Main Cyclet 1A	1515854 Sewage 2020-09-01 Cam-Main Cyclet 1B	1515855 Sewage 2020-09-01 Cam-Main Cyclet 1C
Microbiology	Faecal Coliforms	0	ct/100mL			0	0	0

Guideline = * = **Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

Analytical Method: AMBCOLM1

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



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Jeremie Berube
PO#: 007264-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1938482
Date Submitted: 2020-09-10
Date Reported: 2020-09-11
Project:
COC #: 862852

Sample Comment Summary

Sample ID: 1515853 Cam-Main Cyclet 1A Deviation from standard protocol. All bacteria samples on report are past hold time.

Guideline = *** = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

Analytical Method: AMBCOLM1

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



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Jeremie Berube
PO#: 007264-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1938440
Date Submitted: 2020-09-10
Date Reported: 2020-09-16
Project:
COC #: 862852

Page 1 of 3

Dear Jeremie Berube:


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:


Addrine Thomas
2020.09.16
15:09:52 -04'00'

APPROVAL:

Addrine Thomas, Inorganics Supervisor


Charlie
Long Qu
2020.09.
16
15:16:34
-04'00'

APPROVAL:

Long Qu, Organics Supervisor

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Jeremie Berube
PO#: 007264-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1938440
Date Submitted: 2020-09-10
Date Reported: 2020-09-16
Project:
COC #: 862852

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
Group	Analyte	MRL	Units	Guideline	1515752 Sewage 2020-09-01 Cam-Main Cyclet 1
General Chemistry	BOD5	1	mg/L		3
	pH	1.00			7.21
	Total Suspended Solids	2	mg/L		<2
Oil and Grease	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

Guideline = * = Guideline Exceedence

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



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Jeremie Berube
PO#: 007264-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1938440
Date Submitted: 2020-09-10
Date Reported: 2020-09-16
Project:
COC #: 862852

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 208523 Analysis/Extraction Date 2020-09-16 Analyst C M Method SHEEN			
Visible Sheen			
Run No 389053 Analysis/Extraction Date 2020-09-15 Analyst AG Method SM 5210B			
BOD5	<1 mg/L	81	75-125
Run No 389095 Analysis/Extraction Date 2020-09-10 Analyst QT Method SM2320,2510,4500H/F			
pH		100	90-110
Run No 389138 Analysis/Extraction Date 2020-09-11 Analyst N C Method MOE E3421			
Oil & Grease - Mineral	<1 mg/L	104	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	100	60-120
Run No 389180 Analysis/Extraction Date 2020-09-14 Analyst MOS Method C SM2540			
Total Suspended Solids	<2 mg/L	96	90-110

Guideline = * = Guideline Exceedence

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Methods references and/or 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: Mr. Jeremie Berube
PO#: 007264-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1941710
Date Submitted: 2020-10-27
Date Reported: 2020-10-28
Project:
COC #: 865715

Page 1 of 2

Dear Jeremie Berube:

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:

Steven
Tosh
2020.10.2
8 15:26:06
-04'00'

APPROVAL:

Steven Tosh, Operations Manager

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Jeremie Berube
PO#: 007264-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1941710
Date Submitted: 2020-10-27
Date Reported: 2020-10-28
Project:
COC #: 865715

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1524715 Sewage 2020-10-19 Cam-Main Cyclet 1A	1524716 Sewage 2020-10-19 Cam-Main Cyclet 1B	1524717 Sewage 2020-10-19 Cam-Main Cyclet 1C
Group	Analyte	MRL	Units	Guideline				
Microbiology	Faecal Coliforms	0	ct/100mL			1	0	0

Guideline = * = **Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

Analytical Method: AMBCOLM1

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



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Jeremie Berube
PO#: 007264-OT
Invoice to: Raytheon Canada Limited Ottawa


Report Number: 1941704
Date Submitted: 2020-10-27
Date Reported: 2020-11-03
Project:
COC #: 865715

Page 1 of 3

Dear Jeremie Berube:

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: 
Addrine Thomas, Inorganics Supervisor
2020.11.03
12:08:16 -05'00'

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Environment Testing

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Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Jeremie Berube
PO#: 007264-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1941704
Date Submitted: 2020-10-27
Date Reported: 2020-11-03
Project:
COC #: 865715

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
Group	Analyte	MRL	Units	Guideline	1524697 Sewage 2020-10-19 Cam-Main Cyclet 1
General Chemistry	BOD5	1	mg/L		8
	pH	1.00			7.30
	Total Suspended Solids	2	mg/L		<2
Oil and Grease	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

Guideline = * = Guideline Exceedence

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



Environment Testing

Certificate of Analysis

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400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Jeremie Berube
PO#: 007264-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1941704
Date Submitted: 2020-10-27
Date Reported: 2020-11-03
Project:
COC #: 865715

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 391391 Analysis/Extraction Date 2020-10-27 Analyst N C			
Method SHEEN			
Visible Sheen			
Run No 391443 Analysis/Extraction Date 2020-11-02 Analyst AG			
Method SM 5210B			
BOD5	<1 mg/L	91	75-125
Run No 391492 Analysis/Extraction Date 2020-10-30 Analyst MOS			
Method C SM2540			
Total Suspended Solids	<2 mg/L	103	90-110
Run No 391503 Analysis/Extraction Date 2020-10-29 Analyst A A			
Method MOE E3421			
Oil & Grease - Mineral	<1 mg/L	99	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	100	60-120
Run No 391598 Analysis/Extraction Date 2020-10-29 Analyst QT			
Method SM2320,2510,4500H/F			
pH		101	90-110

Guideline = * = Guideline Exceedence

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Environment Testing

Certificate of Analysis

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400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Jeremie Berube
PO#: 007264-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1942524
Date Submitted: 2020-11-06
Date Reported: 2020-11-07
Project:
COC #: 866437

Page 1 of 3

Dear Jeremie Berube:

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:

Dragana
Dzeletovic

2020.11.07

22:50:37

-05'00'

APPROVAL:

Dragana Dzeletovic-Andric, Microbiology Team Lead

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Jeremie Berube
PO#: 007264-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1942524
Date Submitted: 2020-11-06
Date Reported: 2020-11-07
Project:
COC #: 866437

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1527104 Sewage 2020-11-02 Cam-Main Cyclet 1A	1527105 Sewage 2020-11-02 Cam-Main Cyclet 1B	1527106 Sewage 2020-11-02 Cam-Main Cyclet 1C
Microbiology	Faecal Coliforms	0	ct/100mL			0	0	0

Guideline = * = **Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

Analytical Method: AMBCOLM1

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



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Jeremie Berube
PO#: 007264-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1942524
Date Submitted: 2020-11-06
Date Reported: 2020-11-07
Project:
COC #: 866437

Sample Comment Summary

Sample ID: 1527104 Cam-Main Cyclot 1A Deviation from standard protocol. All bacteria samples on report are past hold time.

Guideline = *** = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

Analytical Method: AMBCOLM1

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



Environment Testing

Certificate of Analysis

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400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Jeremie Berube
PO#: 007264-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1942550
Date Submitted: 2020-11-06
Date Reported: 2020-11-12
Project:
COC #: 866437

Page 1 of 3

Dear Jeremie Berube:

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:

Addrine Thomas
2020.11.12
11:38:04 -05'00'

APPROVAL:

Addrine Thomas, Inorganics Supervisor

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>.

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Jeremie Berube
PO#: 007264-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1942550
Date Submitted: 2020-11-06
Date Reported: 2020-11-12
Project:
COC #: 866437

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
Group	Analyte	MRL	Units	Guideline	1527217 Sewage 2020-11-02 Cam-Main Cyclet 1
General Chemistry	BOD5	1	mg/L		2
	pH	1.00			8.20
	Total Suspended Solids	2	mg/L		<2
Oil and Grease	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		ABSENT

Guideline = * = Guideline Exceedence

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



Environment Testing

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Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Jeremie Berube
PO#: 007264-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1942550
Date Submitted: 2020-11-06
Date Reported: 2020-11-12
Project:
COC #: 866437

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 391998 Analysis/Extraction Date 2020-11-11 Analyst AG			
Method SM 5210B			
BOD5	<1 mg/L	86	75-125
Run No 392086 Analysis/Extraction Date 2020-11-09 Analyst N C			
Method MOE E3421			
Oil & Grease - Mineral	<1 mg/L	54	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	85	60-120
Run No 392113 Analysis/Extraction Date 2020-11-11 Analyst MOS			
Method C SM2540			
Total Suspended Solids	<2 mg/L	99	90-110
Run No 392165 Analysis/Extraction Date 2020-11-09 Analyst R K			
Method SHEEN			
Visible Sheen			
Run No 392170 Analysis/Extraction Date 2020-11-11 Analyst QT			
Method SM2320,2510,4500H/F			
pH		100	90-110

Guideline =

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Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Don Beattie
PO#: 007264-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1945108
Date Submitted: 2020-12-17
Date Reported: 2020-12-18
Project:
COC #: 868386

Page 1 of 3

Dear Don Beattie:

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:

Steven Tosh

2020.12.18

11:00:33

-05'00'

APPROVAL:

Steven Tosh, Operations Manager

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Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Don Beattie
PO#: 007264-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1945108
Date Submitted: 2020-12-17
Date Reported: 2020-12-18
Project:
COC #: 868386

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1535147 Sewage 2020-12-07 CAM-M Cyclet A	1535148 Sewage 2020-12-07 CAM-M Cyclet B	1535149 Sewage 2020-12-07 CAM-M Cyclet C
Microbiology	Faecal Coliforms	0	ct/100mL			10	16	7

Guideline = * = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted.
Analytical Method: AMBCOLM1
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



Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Don Beattie
PO#: 007264-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1945108
Date Submitted: 2020-12-17
Date Reported: 2020-12-18
Project:
COC #: 868386

Sample Comment Summary

Sample ID: 1535147 CAM-M Cycled A Deviation from standard protocol. All bacteria samples on report are past hold time.

Guideline = *** = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

Analytical Method: AMBCOLM1

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



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Don Beattie
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1945099
Date Submitted: 2020-12-17
Date Reported: 2020-12-24
Project:
COC #: 868386

Page 1 of 3

Dear Don Beattie:

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:

Charlie
Long Qu
2020.12.
24
12:06:18
-05'00'

APPROVAL:

Long Qu, Organics Supervisor

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

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Environment Testing

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Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Don Beattie
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1945099
Date Submitted: 2020-12-17
Date Reported: 2020-12-24
Project:
COC #: 868386

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
					1535133 Sewage 2020-12-07 CAM-M Cyclet
Group	Analyte	MRL	Units	Guideline	
General Chemistry	BOD5	1	mg/L		2
	pH	1.00			7.03
	Total Suspended Solids	2	mg/L		<2
Oil and Grease	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

Guideline = * = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted.
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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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Report Number: 1945099
Date Submitted: 2020-12-17
Date Reported: 2020-12-24
Project:
COC #: 868386

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 208523 Analysis/Extraction Date 2020-12-18 Analyst C M Method SHEEN			
Visible Sheen			
Run No 394074 Analysis/Extraction Date 2020-12-17 Analyst AET Method C SM2540			
Total Suspended Solids	<2 mg/L	100	90-110
Run No 394084 Analysis/Extraction Date 2020-12-22 Analyst AG Method SM 5210B			
BOD5	<1 mg/L	81	75-125
Run No 394200 Analysis/Extraction Date 2020-12-18 Analyst QT Method SM2320,2510,4500H/F			
pH		102	90-110
Run No 394440 Analysis/Extraction Date 2020-12-22 Analyst N C Method MOE E3421			
Oil & Grease - Mineral	<1 mg/L	80	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	75	60-120

Guideline = *** = Guideline Exceedence**

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

**ANNEX D. LOCATION OF BERMED FUEL STORAGE FACILITIES**

Table D-1 contains the locations and sampling dates for the wastewater discharged from the bermed fuel storage facilities.

Table D-2: Analysis of Berm Water at CAM-M in 2020

Berm	Location on-site	Discharge Latitude ²	Discharge Longitude	Date
CAM W22A	Summit	69° 07'02.76"N	105° 07'02.69"W	19-June-2020
CAM W20B & W20C	Airstrip	69° 06'12.01"N	105° 07'36.60"W	19-June-2020
CAM W22C & W20D	Beach	69° 06'11.41"N	105° 05'50.26"W	19-June-2020

² Final discharge point of bermed fuel storage facility



ANNEX E. ANALYSIS OF BERM WATER³

The berm water at CAM-M was tested using hydrocarbon test strips as per the approved QA/QC Plan for Berm Water Sampling as stated in the water licence 8BC-CAM1929, PART D, Item 11. The photo log of the hydrocarbon test strips is included in pages which follow.

The following documents are enclosed:

1. Hydrocarbon Test Strip Photo Log

³ Effluent from bermed fuel storage facilities.

Photo Log of Hydrocarbon Test Strips



Photo E 1: Hydrocarbon test strips used in berm of tank W22A (19-Jun-2020)



Photo E 2: Hydrocarbon test strips used in berm of tank W20B & W20C (19-Jun-2020)



Photo E 3: Hydrocarbon test strips used in berm of tank W22C & W20D (19-Jun-2020)

UNCONTROLLED WHEN PRINTED



ANNEX F. MONITORING ACTIVITIES

15 February NT-NU Spill #20-051

Follow up work to the 15 February 2020 (NT-NU Spill #20-051) spill of water and hydronic heating fluid was conducted at CAM-M in 2020. In March 2020 the spill was investigated by RC environmental personnel.

The spilled fluid was sampled in three locations and sent to a laboratory for analysis. The remaining ice was containerized in drums for off site disposal. The samples were analyzed for parameters known to be elevated in the hydronic heating fluid (chloride, copper, lead, ammonia and nitrite). The results were compared to the CCME Water Quality Guidelines for the Protection of Aquatic Life (CWQGs-PAL)⁴. These guidelines were selected as screening values in order to determine if the fluid would have any deleterious effects on aquatic life if it reached a waterbody. The long-term criteria was selected as the most conservative approach. The analytical results were above the CWQGs-PAL for each parameter (in at least one sample) and are shown in Table F-1, below.

Table F-1: Fluid Analytical Results – Characterization for NT-NU Spill #20-051

Parameter	Units	CWQGs-PAL*	M-37 6-Mar-20	M-38 6-Mar-20	M-39 6-Mar-20
Chloride	mg/L	120	110	104	154
Nitrate	mg/L	13	5.11	5.22	18.8
Copper	mg/L	0.002	0.125	0.134	0.161
Lead	mg/L	0.001	0.008	<0.001	0.012
Ammonia	mg/L	0.019	0.529	0.264	0.469

*Canadian Water Quality Guidelines – Protection of Aquatic Life (Long-Term) (mg/L)

Red/Bold indicates result above the CWQGs-PAL

Because results of the spilled fluid were in exceedance of the CWQGs-PAL water quality results of the closest waterbody were also examined. The nearest waterbody is located 180 metres southwest (down-gradient) of the spill. The waterbody is used as the drinking water supply lake for CAM-M and is tested annually. The analytical results were also compared to the CWQGs-PAL (long-term) and are presented in Table F-2, below. The freshwater long-term criteria was selected as the most conservative approach. The result for chloride in the waterbody sample was above the guideline.

Table F-2: Waterbody Analytical Results

Parameter	Units	CWQGs-PAL*	CAM-MAIN Water Lake 18-Aug-2020
Chloride	mg/L	120	124
Nitrate	mg/L	13	<0.1
Copper	mg/L	0.002	<0.001
Lead	mg/L	0.001	<0.001
Ammonia	mg/L	0.019	<0.1

*Canadian Water Quality Guidelines – Protection of Aquatic Life (Long-Term), 2011 (mg/L)

Red/Bold indicates result above the CWQGs-PAL

⁴ Canadian Council of Ministers of the Environment. 1999 (r. 2018). Canadian water quality guidelines for the protection of aquatic life: Summary Table



Chloride is a naturally occurring substance and natural sources include sea spray and seawater intrusion⁵. As the waterbody is in close proximity to the ocean it is possible that the elevated chloride level is naturally occurring. Analytical results for chloride from samples collected from the same waterbody from the four years prior to 2020 were between 115 mg/L and 124 mg/L. Because chloride has been historically elevated in the waterbody it is likely that the exceedance in 2020 is due to naturally occurring sources.

The spill will be further investigated in the summer of 2021.

21 November 2019 NT-NU Spill #19-467

After the initial spill response the area impacted by NT-NU Spill 19-467 three rounds of excavation were conducted. In the first round soil was excavated to a maximum depth of 60 cm and assessed on 29 November 2019 resulting in the removal of nine cubic metres of soil. Soil from the base of the excavation was screened using a photo ionizing detector (PID) which indicated further excavation was required. A second round of excavation was completed on 1 December 2019 to a maximum depth of 1.3 m for a volume of 15 cubic metres of soil. A third round of excavation was completed on 8 March 2020 and confirmatory sampling results were below the CCME Canada-Wide Standards for PHCs⁶ in soil. On 27 March 2020 RC provided the sampling results and details of the remediation activities to Environment Canada and Climate Change (ECCC) and Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) via email.

See Table F-3, below, for analytical results. A total of 33 cubic metres of soil was containerized into Quatrex bags for off-site treatment in Cambridge Bay. The excavation was backfilled with clean fill. RC is in the process of drafting a closure report which will be delivered to CIRNAC and ECCC representatives in 2021.

Table F-3: Confirmatory Sampling Results for NT-NU Spill #19-467

Parameter	Units	CCME-CWS*	AP 6-Dec-2019	UE 6-Dec-2019	AA 8-Mar-2020	UW 8-Mar-2020
PHC F1	ug/g	320	<10	<10	<10	<10
PHC F2	ug/g	260	<10	<10	<10	<10
PHC F3	ug/g	1700	80	40	120	<20
PHC F4	ug/g	3300	50	40	<20	<20
Benzene	ug/g	0.03	<0.0068	<0.0068	<0.02	<0.02
Toluene	ug/g	0.37	<0.08	<0.08	<0.20	<0.20
Ethylbenzene	ug/g	0.082	<0.018	<0.018	<0.05	<0.05
Xylene	ug/g	11	<0.1	<0.1	<0.1	<0.1

*Canadian Council of the Ministers of the Environment –Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil
Red/Bold indicates result above the CCME-CWS

⁵ Canadian Council of Ministers of the Environment. 2011. Canadian water quality guidelines for the protection of aquatic life: Chloride

⁶ Canadian Council of Ministers of the Environment. 2001 r. 2008. Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil.