



2018 ANNUAL NUNAVUT WATER BOARD REPORT FOR CAM-M FOR THE North Warning System

Contract # W8485-100224/001/NX
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EXECUTIVE SUMMARY IN ENGLISH FOLLOWS

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EXECUTIVE SUMMARY

This 2018 Annual Report for the Nunavut Water Board (NWB) has been prepared by Raytheon Canada Limited (RCL) for the Department of National Defence in order to meet the requirements of the Nunavut Water Board licence issued 10 September 2009 3BC-CAM0919 – Type “B”, Part B “General Conditions”, paragraph 1. This report covers the period from 01 January to 31 December 2018.

RCL 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 2018 was 1368.8 cubic meters. This is an average of 3.7 cubic meters per day, below the maximum of 10 cubic meters per day allowed by the licence. On occasion, more than the daily maximum was drawn due to increased site activity.

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 2018.

Samples of the water contained in the berms of fuel storage facilities was sent for laboratory analysis and confirmed to be within effluent quality limits of the NWB licence 3BC-CAM0919, Part D, item 10 before the water was pumped out of the berms.

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 5 crates of waste batteries, 141 drums of assorted waste (waste fuel, waste oil, etc.), and 154 bags of impacted soil from the remediation of the 2017 spill.

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

One outdoor spill occurred at CAM-M in 2018. NT-NU Report Number 18-270. On 11-Jul-2018, staff were refuelling an aircraft when a gasket failed on the re-fueller spilling less than 1 L of fuel. The failed gasket was isolated and replaced and a small quantity of fuel impacted soil was containerized.

The Spill Contingency Plan was successfully implemented.

Remediation of the 05-Jun-2017 spill was completed in 2018.



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1.0 INTRODUCTION

This 2018 Annual Report for the Nunavut Water Board (NWB) has been prepared by Raytheon Canada Limited (RCL) for the Department of National Defence in order to meet the requirements of the licence issued 10 September 2009 3BC-CAM0919 – Type “B”, Part B “General Conditions”, paragraph 1. This report covers the period from 01 January to 31 December 2018.

RCL 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: 3BC-CAM0919 – Type “B”
Location: CAM-M North Warning System Site, Cambridge Bay, Kitikmeot Region, Nunavut
Report Prepared by: Raytheon Canada Limited, 05-Feb-2019
Time period covered: 01 January to 31 December 2018

2.0 WATER USE

The water usage from January to December averaged 3.7 cubic meters (m³) per day which is below the maximum of 10 m³ per day allowed by the licence. See Table 2-1 for raw water usage.

The 10m³ limit was exceeded twice in 2018:

- Once on 11-Feb-2018, when a pipefitting broke, allowing water to spill. This resulted in the system drawing 35m³; and
- On 30-Aug-2018, more than the daily maximum was drawn due to increased site activity, water was both trucked for site use and drawn automatically into the site’s raw water tanks.

Table 2-1: Monthly Raw Water Usage at CAM-M in 2018

Month	Raw water usage (m ³)
January	116.3
February	133.3
March	143.4
April	102.6
May	87.1
June	139.5
July	120
August	119.1
September	117.7
October	108.7
November	91.3
December	89.8
TOTAL	1368.8

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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 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 for details on sewage effluent monitoring.

Table 3-1: Monthly and Annual Volume of Sewage and Grey Water Treated at CAM-M in 2018

Month	Volume of sewage and greywater treated then discharged or recycled (m³)
January	116.3
February	101.8
March	143.4
April	102.6
May	87.1
June	139.5
July	112.1
August	112.2
September	117.7
October	108.7
November	91.3
December	89.8
TOTAL	1322.6



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 5 crates of waste batteries, 141 drums of assorted waste (waste fuel, waste oil, etc.), and 154 bags of impacted soil from the remediation of the 2017 spill. See Table 4-1 for the list of items sent for disposal.

See Annex A for the 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 2018

Description, TDG shipping name	Quantity	Movement Document or Manifest #
Waste batteries, wet, filled with acid	2 Crates	Movement Document 2539508-8
Waste batteries, wet, non-spillable	2 Crates	Movement Document 2539508-8
Waste paint flammable	4 Drums	Movement Document 2539508-8
Waste paint		
Waste Jet A1 fuel	1 Drum	Movement Document 2539509-6
Waste fuel, aviation, turbine engine		
Waste Jet A1 fuel and oil mixture	3 Drums	Movement Document 2539509-6
Waste fuel, aviation, turbine engine mixture		
Waste Jet A1 fuel and water mixture	2 Drums	Movement Document 2539509-6
Waste fuel, aviation, turbine engine mixture		
Waste fuel contaminated soil	1 Drum	Movement Document 2539509-6
Waste solids containing flammable liquids, n.o.s (fuel, aviation, turbine engine)		
Waste Jet A1 fuel filters	2 Drums	Movement Document 2539509-6
Waste solids containing flammable liquids, n.o.s (fuel, aviation, turbine engine)		
Waste oily rags	5 Drums	Movement Document 2539509-6
Waste solids containing flammable liquids, n.o.s (fuel, aviation, turbine engine)		
Waste POL soaked absorbent	4 Drums	Movement Document 2539509-6
Waste solids containing flammable liquids, n.o.s (fuel, aviation, turbine engine)		
Waste tank bottom water/ tank cleaning effluent	35 Drums	Movement Document 2539509-6
Waste fuel, aviation, turbine engine mixture		

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Description, TDG shipping name	Quantity	Movement Document or Manifest #
Waste oil Not TDG regulated	26 Drums	NWS Manifest TCN38469, TCN38470, TCN38468, TCN38461, TCN38463, TCN38464, TCN38467
Waste oil filters Not TDG regulated	4 Drums	NWS Manifest TCN38502
Waste glycol (drum) Not TDG Regulated	1 Drum	NWS Manifest TCN38519
Waste batteries, dry cell Not Regulated	1 Crate	NWS Manifest TCN38521
Waste contaminated soil non-regulated (drum) Not TDG Regulated	1 Drum	NWS Manifest TCN38534
Waste grease Not TDG Regulated	1 Drum	NWS Manifest TCN38534
Waste Activated Carbon Filter Not Regulated	10 Drums	NWS Manifest TCN38536, TCN38546, TCN38537
Waste contaminated soil non-regulated (drum) Not TDG Regulated	1 Drum	NWS Manifest TCN38598
Waste contaminated soil non-regulated (drum) Not TDG Regulated	154 Bags	NWS Manifest TCN38600
Waste contaminated soil non-regulated (drum) Not TDG Regulated	40 Drums	NWS Manifest TCN38601, TCN38604, TCN38605, TCN38606, TCN38607, TCN38610, TCN38611, TCN38618, TCN38620, TCN38621, TCN38622, TCN38623, TCN38624, TCN38625, TCN38626, TCN38603, TCN38608, TCN38612, TCN38609, TCN38602

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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. RCL has documented authorization from the community for receiving the waste. See Table 5-1 for the quantity of non-hazardous waste generated.

Table 5-1: Non-hazardous Domestic Solid Waste Sent for Disposal from CAM-M in 2018

Month	Waste Generated (kg)
January	1385
February	979
March	1232
April	915
May	863
June	1174
July	1112
August	1795
September	1056
October	1186
November	1049
December	895
TOTAL	13,641

6.0 MONITORING PROGRAM

In 2018, a monitoring program was implemented at CAM-M as required by the water licence, Part I. 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: Analysis of Treated Sewage Effluent**.
3. Quality of the water contained in the berms of fuel storage facilities prior to discharge (CDL-3) was analyzed and confirmed as being within the effluent quality limits listed in the water licence, Part D. The coordinates and the results of the analysis are shown in **Annex D: Location of Bermed Fuel Storage Facilities and Analysis of Berm Water**. All samples met the effluent requirements of the water licence, Part D.



7.0 SPILLS (UNAUTHORIZED DISCHARGES)

Date, NT-NU Spill #	Product	Quantity	Cause and follow-up action	On-site location
21-Jul-2018, Spill # 18-294	Hydraulic fluid	1 L	On 21-Jul-2018, staff were inspecting the truck prior to use on-site when the hydraulic cylinder failed on the dump truck, releasing approximately 1 L of hydraulic fluid. The spill was stopped and the impacted gravel was cleaned up. The dump truck has been placed in the site garage until repairs can be completed. The impacted gravel was collected and containerized for disposal.	Near Hangar (66°35'49.25"N, 61°34'50.34"W)

The Spill Contingency Plan was successfully implemented.

8.0 REVISIONS TO THE SPILL CONTINGENCY PLAN

The Spill Contingency Plan was updated on 29-Mar-2018. An updated copy of the Spill Contingency Plan was submitted to the NWB with the application for water licence renewal.

9.0 PROGRESSIVE RECLAMATION WORK UNDERTAKEN

On 05-Jun-2017 fuel was being transferred from beach tanks at CAM-M to the summit tanks. During the transfer one of the Braided Stainless Steel Flexible Hoses (flexlines) failed causing a spill of 1295 L of Jet A1. The spill was reported to Environment and Climate Change Canada (as required by federal regulations), to the NT-NU Spill Line, and to the Indigenous and Northern Affairs Water Resource Officer as required by the site's water licence.

An immediate spill response by site personnel limited the size of the impacted area. The fuel / water mixture was pumped into drums, impacted soil was containerized in drums and intermediate bulk containers (bags), and the remaining impacted soil stockpiled and isolated. Lab analysis was completed on soil samples and remediated areas were confirmed to be below the Canadian Council of Ministers of the Environment (CCME) Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (CWS for PHC) for agricultural land-use.

In 2018 the following remediation activities were completed:

- the soil that had been containerized in 2017 was shipped off-site for disposal;
- the stockpiled soil was moved to the hydrocarbon landfarm in Cambridge Bay;
- laboratory analysis was completed on the footprint of the stockpiled soil, confirming that all impacted areas were below the CCME CWS for PHC for agricultural land-use.



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
n.o.s.	Not Otherwise Specified
NWB	Nunavut Water Board
NWS	North Warning System
O&M	Operations and Maintenance
PCB	Polychlorinated Biphenyl
PHC	Petroleum Hydrocarbons
RCL	Raytheon Canada Limited
TDGR	Transportation of Dangerous Goods Regulations



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ANNEX A: HAZARDOUS WASTE AND WASTE OIL DISPOSAL IN 2018

The 2018 Movement Documents for TDG Regulated waste and NWS Manifests for non-TDG Regulated waste described in Table 4-1 are below.

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/manifester 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/manifester

2539508-8

A Generator / consigneur Producteur / expéditeur Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial Company name / Nom de l'entreprise DND 96 Raytheon Canada Limited Mailing address / Adresse postale 22 Wing Bldg 109, Hornell Heights ON POH 1P0 E-mail / Courriel électronique (705) 494-2011 ext 29110 Shipping site address / Adresse du lieu de l'expédition NWS LSS Cambridge Bay PO Box 1239 City / Ville Cambridge Bay NU Postal code / Code postal X0B 0C0		B Carrier Transporteur Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial Company name / Nom de l'entreprise 837549 Munaut Eastern Arctic Shipping Mailing address / Adresse postale 2100 pique-Dupuy Montreal, Qc H3C 3R5 E-mail / Courriel électronique Sales@munaut.ca Tel. No. / N° de tél. 10-77-2256327 Vehicle / Véhicule Trailer - Rail car No. 1 Trailer - Rail car No. 2 Trailer - wagon		C Receiver / consignee Réceptionnaire / destinataire Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial Reference Nos. of other movement document(s) used / N° de référence des autres documents de mouvement/manifester utilisés 2539509-6 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 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. 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 Quantity received / Quantité reçue Units / Unités L or / ou Kg Comments / Commentaires Handling / Code de manipulation Accepted / Refused Pack / Veh. Cont. / Veh.	
Intended Receiver / consignee Réceptionnaire / destinataire prévu Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial Company name / Nom de l'entreprise Qikigaalik Environmental Mailing address / Adresse postale 760-16-01-0418154 E-mail / Courriel électronique E-mail / Courriel électronique Tel. No. / N° de tél. Receiving site address / Adresse du lieu de l'expédition Chambly, 2430 boul Industriel City / Ville Chambly QC Postal code / Code postal J3L 4V2		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, mais 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'impression) Emilien Bocher Tel. No. / N° de tél. 154-2464088 Signature 180914 Date Year / Année Month / Mois Day / Jour		If handling code "Other" (specify) Si code de manipulation « 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'impression) Signature Tel. No. / N° de tél. Special handling / Manipulation spéciale <input type="checkbox"/> Attached / Ci-joint <input type="checkbox"/> As follows / Ci-joint : Date shipped / Date d'expédition Year / Année Month / Mois Day / Jour Time / Heure Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour	
Class / Classe Sub-class / Sous-classe UN No. / N° UN Packing / emballage Gr. d'emballage / de risque Quantity shipped / Quantité expédiée Units / Unités L or / ou Kg Packaging / Conteneur No. / N° Codes Int. - est. Phys. state / État phys. Est. phys.		National code in country of / Code du pays Export / Import Exportation / Importation Customs code(s) / Code(s) de douanes Flash Point 38°C International use only 24 Hour Number: Canutec 1-888-224-8832 or 613-996-6666 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'impression) DAVID TRUSLER Signature Tel. No. / N° de tél. (705) 494-2011 (ext 2840)		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 Quantity received / Quantité reçue Units / Unités L or / ou Kg Comments / Commentaires Handling / Code de manipulation Accepted / Refused Pack / Veh. Cont. / Veh.	

MOE 04-1917 (07/07)

Instructions for completion and distribution on reverse / Instructions pour compléter et distribuer au verso

Copy / Copie 1 (white / blanche)

Figure 1: Movement Document 2539508-8

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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.

2539509-6

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 NU6100003 Company name / Nom de l'entreprise DND 9/6 Raytheon Canada Limited Mailing address / Adresse postale 22 Wing Bldg 109, Hornell Heights POH 1P0 E-mail / Courriel électronique (705) 494-2011 ext 2840 Shipping site address / Adresse du lieu de l'expédition NWS LSS Cambridge Bay P.O. Box 1239 Cambridge Bay NU X0B 0C0		B Carrier Transporteur Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial 83 75 49 Company name / Nom de l'entreprise Nunavut Eastern Arctic Shipping Mailing address / Adresse postale 2100 Pierre-Dupuy Montreal, Quebec E-mail / Courriel électronique H3C-3RS, sales@nasc.ca 1877-275-6327 Vehicle / Véhicule Trailer - Rail car No. 1 Trailer - Rail car No. 2 Trailer - Rail car No. 3		C Receiver / consignee Réceptionnaire / destinataire Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial 2539508-8 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 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 A.M. P.M. 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	
Intended Receiver / consignee Réceptionnaire / destinataire prévu City / Ville Province Postal code / Code postal E-mail / Courriel électronique Tel. No. / N° de tél.		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.	
Receiving site address / Adresse du lieu de l'expédition City / Ville Province Postal code / Code postal		Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie) Signature Year / Année Month / Mois Day / Jour		Tel. No. / N° de tél.	
Prov. code Code prov.		Shipping name Appellation réglementaire		Class / Classe Sub. class(es) Classes(s) sub.	
(i) Waste Fuel Aviation		3 UN1863 III		7080 L 40 01 L	
(ii) Waste Solids containing Flammable Liquids NOS Fuel Aviation Turbine Engine		4.1 UN3175 II		1137 KG 16 01 S	
(iii) Waste Fuel Aviation		3 UN1863 III		180 L 1 01 L	
(iv) Turbine Engine					
Notice No. N° de notification		Notice Line No. N° de ligne de la notification		Shipment Envoi	
(i) * Flash Point - 38°C					
(ii)					
(iii)					
(iv)					
24 Hour Number: CANUTEC 1-888-226-9832 or 1-813-996-6666					
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) Signature Tel. No. / N° de tél.		Date shipped / Date d'expédition Year / Année Month / Mois Day / Jour Time / Heure A.M. P.M. Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour	

MOE 04-1917 (07/07)

Instructions for completion and distribution on reverse / Instructions pour compléter et distribuer au verso

Copy / Copie 1 (white / blanche)

Figure 2: Movement Document 2539509-6

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SOW Ref: 16.F.5.d

SHIPPING MANIFEST						
Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8					NON NEGOTIABLE	
Filled By: AELLIOTT		Date: Aug 3, 2018, 3:36 PM		TCN-38461		
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 867-983-2112			Priority 0	
Attention:		Attention: AELLIOTT				
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22573		Total Pcs. 1 PALLET
						Total Weight: 840 KG
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N
4	DRUM		2002406	WASTE - OIL, 45 GAL	1.54 M3	
						NON-REGULATED WASTE...4 DRUMS ON 1 PALLET: ASSETS: 342371 347758 342370 339992
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.						
				Received By:		Date
				Received By:		Date

Figure 3: NWS Shipping Manifest TCN-38461

SHIPPING MANIFEST						
Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8					NON NEGOTIABLE	
Filled By: AELLIOTT		Date: Aug 3, 2018, 6:22 PM		TCN-38463		
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 867-983-2112			Priority 0	
Attention:		Attention: AELLIOTT				
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22572		Total Pcs. 1 PALLET
						Total Weight: 840 KG
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N
4	DRUM		2002406	WASTE - OIL, 45 GAL	1.54 M3	
						NON-REGULATED WASTE...4 DRUMS ON 1 PALLET: ASSETS: 347666 342362 347694 339885
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.						
				Received By:		Date
				Received By:		Date

Figure 4: NWS Shipping Manifest TCN-38463

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UNCLASSIFIED

SOW Ref: 16.F.5.d



SHIPPING MANIFEST					
Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8				NON NEGOTIABLE	
Filled By: AELLIOTT		Date: Aug 3, 2018, 6:44 PM		TCN-38464	
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 867-983-2112		Priority 0	
Attention:		Attention: AELLIOTT			
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22572	
				Total Pcs. 1 PALLET	
				Total Weight: 840 KG	
QTY Order	Type	Line Weight	Item	Description	WO or PO
4	DRUMS		2002406	WASTE - OIL, 45 GAL	1.54 M3
					B/Code or S/N
					Remarks
					NON-REGULATED WASTE...4 DRUMS ON 1 PALLET: ASSETS: 348004 347569 348005 347293
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.					Received By: Date
					Received By: Date

Figure 5: NWS Shipping Manifest TCN-38464



SHIPPING MANIFEST					
Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8				NON NEGOTIABLE	
Filled By: AELLIOTT		Date: Aug 4, 2018, 10:52 AM		TCN-38467	
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 867-983-2112		Priority 0	
Attention:		Attention: AELLIOTT			
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22571	
				Total Pcs. 1 PALLET	
				Total Weight: 840 KG	
QTY Order	Type	Line Weight	Item	Description	WO or PO
4	DRUMS		2002406	WASTE - OIL, 45 GAL	1.54 M3
					B/Code or S/N
					Remarks
					NON-REGULATED WASTE...4 DRUMS ON 1 PALLET: ASSETS 348003 342704 345672 348006
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.					Received By: Date
					Received By: Date

Figure 6: NWS Shipping Manifest TCN-38467

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SOW Ref: 16.F.5.d



SHIPPING MANIFEST

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

NON NEGOTIABLE

Filled By: AELLIOTT		Date: Aug 4, 2018, 11:23 AM		TCN-38469		
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 867-983-2112		Priority 0		
Attention:		Attention: AELLIOTT				
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22572	Total Pcs. 1 PALLET	
				Total Weight: 900 KG		
QTY Order	Type	Line Weight	Item	Description	WO or PO B/Code or S/N	Remarks
4	DRUMS		2002406	WASTE - OIL, 45 GAL	1.45 M3	NON-REGULATED WASTE...4 DRUMS ON 1 PALLET: ASSETS 346255 346254 346256 346257

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

Received By:	Date
Received By:	Date

Figure 7: NWS Shipping Manifest TCN-38469

Filled By: AELLIOTT		Date: Aug 4, 2018, 11:33 AM		TCN-38470		
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 867-983-2112		Priority 0		
Attention:		Attention: AELLIOTT				
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22572	Total Pcs. 1 PALLET	
				Total Weight: 430 KG		
QTY Order	Type	Line Weight	Item	Description	WO or PO B/Code or S/N	Remarks
2	DRUMS		2002406	WASTE - OIL, 45 GAL	0.81 M3	NON-REGULATED WASTE...2 DRUMS ON 1 PALLET: ASSETS 347568 343280

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

Received By:	Date
Received By:	Date

Figure 8: NWS Shipping Manifest TCN-38470

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SOW Ref: 16.F.5.d

SHIPPING MANIFEST						
Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8				NON NEGOTIABLE		
Filled By: AELLIOTT		Date: Aug 8, 2018, 12:28 PM		TCN-38502		
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 867-983-2112			Priority 0	
Attention:		Attention: AELLIOTT				
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22571		Total Pcs. 1 PALLET
						Total Weight: 364 KG
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N
4	DRUMS	2002356		WASTE - OIL FILTERS	2.45 M3	
						NON-REGULATED WASTE...4 DRUMS ON 1 PALLET: ASSETS 347174 347931 345504 345505
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.						
				Received By:		Date
				Received By:		Date

Figure 9: NWS Shipping Manifest TCN-38502

SHIPPING MANIFEST						
Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8				NON NEGOTIABLE		
Filled By: AELLIOTT		Date: Aug 9, 2018, 4:08 PM		TCN-38519		
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 867-983-2112			Priority 0	
Attention:		Attention: AELLIOTT				
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22571		Total Pcs. 1 PALLET
						Total Weight: 213 KG
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N
1	DRUM	2002344		WASTE - GLYCOL (DRUM)	0.57 M3	
						NON-REGULATED WASTE...1 DRUM ON 1 PALLET: ASSET 335488
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.						
				Received By:		Date
				Received By:		Date

Figure 10: NWS Shipping Manifest TCN-38519

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SOW Ref: 16.F.5.d



SHIPPING MANIFEST

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

NON NEGOTIABLE

Filled By: AELLIOTT		Date: Aug 9, 2018, 4:43 PM		TCN-38521			
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 867-983-2112		Priority 0			
Attention:		Attention:		AELLIOTT			
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22573	Total Pcs. 1 CRATE		
				Total Weight: 110 KG			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	CRATE		2002349	WASTE - BATTERIES, DRY, NON-RE	0.30 M3		NON-REGULATED WASTE...DRY CELL BATTERIES PACKED IN 1 CRATE.
0							ASSET 349232
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.							
Received By:				Date			
Received By:				Date			

Figure 11: NWS Shipping Manifest TCN-38521



SHIPPING MANIFEST

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

NON NEGOTIABLE

Filled By: AELLIOTT		Date: Aug 10, 2018, 1:21 PM		TCN-38534			
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 867-983-2112		Priority 0			
Attention:		Attention:		AELLIOTT			
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22572	Total Pcs. 1 PALLET		
				Total Weight: 321 KG			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	DRUM		2008310	WASTE - OIL CONTAMINATED SOIL			ASSET 344636
1	DRUM		2006577	WASTE - GREASE (5 GALLON PAIL)			ASSET 349228
0					1.24 M3		NON-REGULATED WASTE...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			

Figure 12: NWS Shipping Manifest TCN-38534

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SOW Ref: 16.F.5.d



SHIPPING MANIFEST

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

NON NEGOTIABLE

Filled By: AELLIOTT		Date: Aug 10, 2018, 4:16 PM		TCN-38536			
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 867-983-2112		Priority 0			
Attention:		Attention:		AELLIOTT			
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22571			
				Total Pcs. 1 PALLET			
				Total Weight: 740 KG			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
4	DRUMS		2002351	WASTE - ACTIVATED CARBON FILTE	1.68 M3		NON-REGULATED WASTE...4 DRUMS ON 1 PALLET: ASSETS: 349287 349288 349289 349290

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

Received By:	Date
Received By:	Date

Figure 13: NWS Shipping Manifest TCN-38536



SHIPPING MANIFEST

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

NON NEGOTIABLE

Filled By: KROBERTS		Date: Aug 15, 2018, 7:27 AM		TCN-38567			
Ship To: NWS SUPPORT CENTRE, DND Storeroom Raytheon Canada Limited, North Bay: 22 Wing, Building 109 Hornell Heights, ON, P0H 1P0 705-840-1380		From: LSS-G, LSS GOOSE BAY, DND Storeroom Raytheon Canada Limited, LSS Goose Bay: BLDG.#265, P.O. Box 428 Station "C" Goose Bay, Labrador, A0P 1S0 709-896-5707		Priority 1			
Attention:		Attention:					
Carrier: BBE		Routing: GOOSE BAY - NORTH BAY		Waybill #: FF027118			
				Total Pcs. 1			
				Total Weight: 180 lbs			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1			1026208	MODULE,RELAY	WO 806027		EIN 22709
1			1000166	AMPLIFIER, RADIO FREQUENCY VHF	WO 805958		EIN 69090
1			2008112	ANEMOMETER, ULTRASONIC WIND SE	WO 805171		EIN 158190 - ROS GL18-014 ATTN: K. BILODEAU
1			2008112	ANEMOMETER, ULTRASONIC WIND SE	WO 745973		EIN 158187 - ROS GL17-024 - ATTN: K. BILODEAU

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

Received By:	Date
Received By:	Date

Figure 14: NWS Shipping Manifest TCN-38567

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SOW Ref: 16.F.5.d



SHIPPING MANIFEST

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

NON NEGOTIABLE

Filled By: AELLIOTT		Date: Aug 11, 2018, 11:29 AM		TCN-38546			
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 867-983-2112		Priority 0			
Attention:		Attention: AELLIOTT					
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22573	Total Pcs. 1 PALLET		
				Total Weight: 364 KG			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUMS		2002351	WASTE - ACTIVATED CARBON FILTE	0.90 M3		NON-REGULATED WASTE...2 DRUMS ON 1 PALLET. ASSETS: 349308 349309
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.							
				Received By:		Date	
				Received By:		Date	

Figure 15: NWS Shipping Manifest TCN-38546



SHIPPING MANIFEST

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

NON NEGOTIABLE

Filled By: AELLIOTT		Date: Aug 18, 2018, 3:12 PM		TCN-38598			
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 867-983-2112		Priority 0			
Attention:		Attention: AELLIOTT					
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22573	Total Pcs. 1 PALLET		
				Total Weight: 125 KG			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	DRUM		2012230	WASTE - GLYCOL CONTAMINATED SO	0.60 M3		NON-REGULATED WASTE...1 DRUMS ON 1 PALLET. ASSETS: 334983
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.							
				Received By:		Date	
				Received By:		Date	

Figure 16: NWS Shipping Manifest TCN-38598

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UNCLASSIFIED

SOW Ref: 16.F.5.d



SHIPPING MANIFEST							
Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8						NON NEGOTIABLE	
Filled By: AELLIOTT		Date: Aug 18, 2018, 5:52 PM		TCN-38600			
Ship To:		QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA		From:		LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom	
		2630, BOUL. INDUSTRIEL				Raytheon Canada Limited, LSS	
		CHAMBLY, QC, J3L 4V2				Cambridge Bay: P.O. Box 1239	
		1-866-634-6367				Cambridge Bay, NU, X0B 0C0	
						867-983-2112	
Attention:				Attention:		AELLIOTT	
Carrier:		Routing:		Waybill #:		Total Pcs.	
NEAS		SHIP TO CONSIGNEE		DR-C22574		154	
						Total Weight:	
						210,056 KG	
QTY	Type	Line	Item	Description	WO or PO	B/Code or S/N	Remarks
154	BAGS	1364	2006261	WASTE - CONTAMINATED SOIL NON-			NON-REGULATED WASTE...154
		KG					BAGS: ASSETS 349389 -
							349542
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.				Received By:		Date	
				Received By:		Date	

Figure 17: NWS Shipping Manifest TCN-38600



SHIPPING MANIFEST							
Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8						NON NEGOTIABLE	
Filled By: AELLIOTT		Date: Aug 18, 2018, 6:17 PM		TCN-38601			
Ship To:		QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA		From:		LSS-C/CAM-M CAMBRIDGE BAY, DND Storeroom	
		2630, BOUL. INDUSTRIEL				Raytheon Canada Limited, LSS	
		CHAMBLY, QC, J3L 4V2				Cambridge Bay: P.O. Box 1239	
		1-866-634-6367				Cambridge Bay, NU, X0B 0C0	
						867-983-2112	
Attention:				Attention:		AELLIOTT	
Carrier:		Routing:		Waybill #:		Total Pcs.	
NEAS		SHIP TO CONSIGNEE		DR-C22575		1 PALLET	
						Total Weight:	
						1273 KG	
QTY	Type	Line	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUMS		2006261	WASTE - CONTAMINATED SOIL NON-	1.24 M3		NON-REGULATED WASTE: 2
							DRUMS ON 1 PALLET: ASSETS
							344029 344031
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.				Received By:		Date	
				Received By:		Date	

Figure 18: NWS Shipping Manifest TCN-38601

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SHIPPING MANIFEST

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

NON NEGOTIABLE

Filled By: AELLIOTT		Date: Aug 18, 2018, 6:25 PM		TCN-38602			
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 867-983-2112		Priority 0			
Attention:		Attention:		AELLIOTT			
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22575	Total Pcs. 1 PALLET		
				Total Weight: 1273 KG			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUMS		2006261	WASTE - CONTAMINATED SOIL NON-	1.24 M3		NON-REGULATED WASTE: 2 DRUMS ON 1 PALLET: ASSETS 344032 344033
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.							
				Received By:		Date	
				Received By:		Date	

Figure 19: NWS Shipping Manifest TCN-38602



SHIPPING MANIFEST

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

NON NEGOTIABLE

Filled By: AELLIOTT		Date: Aug 18, 2018, 6:27 PM		TCN-38603			
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 867-983-2112		Priority 0			
Attention:		Attention:		AELLIOTT			
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22575	Total Pcs. 1 PALLET		
				Total Weight: 1273 KG			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUMS		2006261	WASTE - CONTAMINATED SOIL NON-	1.24 M3		NON-REGULATED WASTE: 2 DRUMS ON 1 PALLET: ASSETS 344034 344035
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.							
				Received By:		Date	
				Received By:		Date	

Figure 20: NWS Shipping Manifest TCN-38603

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UNCLASSIFIED

SOW Ref: 16.F.5.d



SHIPPING MANIFEST							
Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8						NON NEGOTIABLE	
Filled By: AELLIOTT		Date: Aug 18, 2018, 6:29 PM		TCN-38604			
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 867-983-2112	
Attention:				Attention:		AELLIOTT	
Carrier:		Routing:		Waybill #:		Total Pcs.	
NEAS		SHIP TO CONSIGNEE		DR-C22575		1 PALLET	
Total Weight:				Total Weight:		1273 KG	
QTY	Type	Line	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUMS		2006261	WASTE - CONTAMINATED SOIL NON-	1.24 M3		NON-REGULATED WASTE: 2 DRUMS ON 1 PALLET: ASSETS 344036 344037
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.							
Received By:				Date			
Received By:				Date			

Figure 21: NWS Shipping Manifest TCN-38604



SHIPPING MANIFEST							
Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8						NON NEGOTIABLE	
Filled By: AELLIOTT		Date: Aug 18, 2018, 6:30 PM		TCN-38605			
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 867-983-2112	
Attention:				Attention:		AELLIOTT	
Carrier:		Routing:		Waybill #:		Total Pcs.	
NEAS		SHIP TO CONSIGNEE		DR-C22575		1 PALLET	
Total Weight:				Total Weight:		1273 KG	
QTY	Type	Line	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUMS		2006261	WASTE - CONTAMINATED SOIL NON-	1.24 M3		NON-REGULATED WASTE: 2 DRUMS ON 1 PALLET: ASSETS 344038 344039
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.							
Received By:				Date			
Received By:				Date			

Figure 22: NWS Shipping Manifest TCN-38605

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SOW Ref: 16.F.5.d



SHIPPING MANIFEST

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

NON NEGOTIABLE

Filled By: AELLIOTT		Date: Aug 18, 2018, 6:32 PM		TCN-38606			
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 867-983-2112		Priority 0			
Attention:		Attention:		AELLIOTT			
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22575			
				Total Pcs. 1 PALLET			
				Total Weight: 1273 KG			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUMS		2006261	WASTE - CONTAMINATED SOIL NON-	1.24 M3		NON-REGULATED WASTE: 2 DRUMS ON 1 PALLET: ASSETS 344040 344046
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.						Received By: _____ Date _____	
						Received By: _____ Date _____	

Figure 23: NWS Shipping Manifest TCN-38606



SHIPPING MANIFEST

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

NON NEGOTIABLE

Filled By: AELLIOTT		Date: Aug 18, 2018, 6:34 PM		TCN-38607			
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 867-983-2112		Priority 0			
Attention:		Attention:		AELLIOTT			
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22575			
				Total Pcs. 1 PALLET			
				Total Weight: 1273 KG			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUMS		2006261	WASTE - CONTAMINATED SOIL NON-	1.24 M3		NON-REGULATED WASTE: 2 DRUMS ON 1 PALLET: ASSETS 344052 344053
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.						Received By: _____ Date _____	
						Received By: _____ Date _____	

Figure 24: NWS Shipping Manifest TCN-38607

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SOW Ref: 16.F.5.d



SHIPPING MANIFEST

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

NON NEGOTIABLE

Filled By: AELLIOTT		Date: Aug 18, 2018, 6:35 PM		TCN-38608			
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 867-983-2112		Priority 0			
Attention:		Attention:		AELLIOTT			
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22575	Total Pcs. 1 PALLET		
				Total Weight: 1273 KG			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUMS		2006261	WASTE - CONTAMINATED SOIL NON-	1.24 M3		NON-REGULATED WASTE: 2 DRUMS ON 1 PALLET: ASSETS 344054 344055
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.							
Received By:				Date			
Received By:				Date			

Figure 25: NWS Shipping Manifest TCN-38608



SHIPPING MANIFEST

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

NON NEGOTIABLE

Filled By: AELLIOTT		Date: Aug 18, 2018, 6:37 PM		TCN-38609			
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 867-983-2112		Priority 0			
Attention:		Attention:		AELLIOTT			
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22575	Total Pcs. 1 PALLET		
				Total Weight: 1273 KG			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUMS		2006261	WASTE - CONTAMINATED SOIL NON-	1.24 M3		NON-REGULATED WASTE: 2 DRUMS ON 1 PALLET: ASSETS 344056 344057
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.							
Received By:				Date			
Received By:				Date			

Figure 26: NWS Shipping Manifest TCN-38609

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SOW Ref: 16.F.5.d



SHIPPING MANIFEST

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

NON NEGOTIABLE

Filled By: AELLIOTT		Date: Aug 18, 2018, 6:38 PM		TCN-38610			
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 867-983-2112		Priority 0			
Attention:		Attention:		AELLIOTT			
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22575	Total Pcs. 1 PALLET		
				Total Weight: 1273 KG			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUMS		2006261	WASTE - CONTAMINATED SOIL NON-	1.24 M3		NON-REGULATED WASTE: 2 DRUMS ON 1 PALLET: ASSETS 344058 344059

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

Received By:	Date
Received By:	Date

Figure 27: NWS Shipping Manifest TCN-38610



SHIPPING MANIFEST

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

NON NEGOTIABLE

Filled By: AELLIOTT		Date: Aug 18, 2018, 6:40 PM		TCN-38611			
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 867-983-2112		Priority 0			
Attention:		Attention:		AELLIOTT			
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22575	Total Pcs. 1 PALLET		
				Total Weight: 1273 KG			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUMS		2006261	WASTE - CONTAMINATED SOIL NON-	1.24 M3		NON-REGULATED WASTE: 2 DRUMS ON 1 PALLET: ASSETS 344060 344061

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

Received By:	Date
Received By:	Date

Figure 28: NWS Shipping Manifest TCN-38611

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SOW Ref: 16.F.5.d



SHIPPING MANIFEST

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

NON NEGOTIABLE

Filled By: AELLIOTT		Date: Aug 18, 2018, 6:42 PM		TCN-38612			
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 867-983-2112		Priority 0			
Attention:		Attention:		AELLIOTT			
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22575			
				Total Pcs. 1 PALLET			
				Total Weight: 1273 KG			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUMS		2006261	WASTE - CONTAMINATED SOIL NON-	1.24 M3		NON-REGULATED WASTE: 2 DRUMS ON 1 PALLET: ASSETS 344062 344063
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.							
Received By:				Date			
Received By:				Date			

Figure 29: NWS Shipping Manifest TCN-38612



SHIPPING MANIFEST

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

NON NEGOTIABLE

Filled By: AELLIOTT		Date: Aug 20, 2018, 1:31 PM		TCN-38618			
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 867-983-2112		Priority 0			
Attention:		Attention:		AELLIOTT			
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22576			
				Total Pcs. 1 PALLET			
				Total Weight: 1273 KG			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUMS		2006261	WASTE - CONTAMINATED SOIL NON-	1.24 M3		NON-REGULATED WASTE: 2 DRUMS ON 1 PALLET: ASSETS 344064 344065
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.							
Received By:				Date			
Received By:				Date			

Figure 30: NWS Shipping Manifest TCN-38618

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SOW Ref: 16.F.5.d



SHIPPING MANIFEST

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

NON NEGOTIABLE

Filled By: AELLIOTT		Date: Aug 20, 2018, 3:03 PM		TCN-38620			
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 867-983-2112		Priority 0		
Attention:			Attention: AELLIOTT				
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22576	Total Pcs. 1 PALLET		
				Total Weight: 1273 KG			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUMS		2006261	WASTE - CONTAMINATED SOIL NON-	1.24 M3		NON-REGULATED WASTE: 2 DRUMS ON 1 PALLET: ASSETS 344066 344067
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.							
				Received By:		Date	
				Received By:		Date	

Figure 31: NWS Shipping Manifest TCN-38620



SHIPPING MANIFEST

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

NON NEGOTIABLE

Filled By: AELLIOTT		Date: Aug 20, 2018, 3:23 PM		TCN-38621			
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 867-983-2112		Priority 0		
Attention:			Attention: AELLIOTT				
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22576	Total Pcs. 1 PALLET		
				Total Weight: 1273 KG			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUMS		2006261	WASTE - CONTAMINATED SOIL NON-	1.24 M3		NON-REGULATED WASTE: 2 DRUMS ON 1 PALLET: ASSETS 344068 344069
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.							
				Received By:		Date	
				Received By:		Date	

Figure 32: NWS Shipping Manifest TCN-38621

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UNCLASSIFIED

SOW Ref: 16.F.5.d

SHIPPING MANIFEST						
Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8					NON NEGOTIABLE	
Filled By: AELLIOTT		Date: Aug 20, 2018, 3:25 PM		TCN-38622		
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 867-983-2112		Priority 0		
Attention:		Attention: AELLIOTT				
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22576		Total Pcs. 1 PALLET
				Total Weight: 1273 KG		
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N
2	DRUM		2006261	WASTE - CONTAMINATED SOIL NON-	1.24 M3	
						NON-REGULATED WASTE: 2 DRUMS ON 1 PALLET: ASSETS 344070 344071
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.						
				Received By:		Date
				Received By:		Date

Figure 33: NWS Shipping Manifest TCN-38622

SHIPPING MANIFEST						
Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8					NON NEGOTIABLE	
Filled By: AELLIOTT		Date: Aug 20, 2018, 3:27 PM		TCN-38623		
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 867-983-2112		Priority 0		
Attention:		Attention: AELLIOTT				
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22576		Total Pcs. 1 PALLET
				Total Weight: 1273 KG		
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N
2	DRUMS		2006261	WASTE - CONTAMINATED SOIL NON-	1.24 M3	
						NON-REGULATED WASTE: 2 DRUMS ON 1 PALLET: ASSETS 344072 344073
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.						
				Received By:		Date
				Received By:		Date

Figure 34: NWS Shipping Manifest TCN-38623

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SOW Ref: 16.F.5.d



SHIPPING MANIFEST

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

NON NEGOTIABLE

Filled By: AELLIOTT		Date: Aug 20, 2018, 3:28 PM		TCN-38624			
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 867-983-2112		Priority 0			
Attention:		Attention:		AELLIOTT			
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22576	Total Pcs. 1 PALLET		
				Total Weight: 1273 KG			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUM		2006261	WASTE - CONTAMINATED SOIL NON-	1.24 M3		NON-REGULATED WASTE: 2 DRUMS ON 1 PALLET: ASSETS 344074 344075
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.							
				Received By:		Date	
				Received By:		Date	

Figure 35: NWS Shipping Manifest TCN-38624



SHIPPING MANIFEST

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

NON NEGOTIABLE

Filled By: AELLIOTT		Date: Aug 20, 2018, 3:30 PM		TCN-38625			
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 867-983-2112		Priority 0			
Attention:		Attention:		AELLIOTT			
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22576	Total Pcs. 1 PALLET		
				Total Weight: 1273 KG			
QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUMS		2006261	WASTE - CONTAMINATED SOIL NON-	1.24 M3		NON-REGULATED WASTE: 2 DRUMS ON 1 PALLET: ASSETS 345390 345391
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.							
				Received By:		Date	
				Received By:		Date	

Figure 36: NWS Shipping Manifest TCN-38625

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UNCLASSIFIED

SOW Ref: 16.F.5.d



SHIPPING MANIFEST

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

NON NEGOTIABLE

Filled By: AELLIOTT		Date: Aug 20, 2018, 3:42 PM		TCN-38626			
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 867-983-2112		Priority 0			
Attention:		Attention: AELLIOTT					
Carrier: NEAS		Routing: SHIP TO CONSIGNEE		Waybill #: DR-C22576			
				Total Pcs. 1 PALLET			
				Total Weight: 1273 KG			
QTY	Type	Line	Item	Description	WO or PO	B/Code or S/N	Remarks
2	DRUMS		2006261	WASTE - CONTAMINATED SOIL NON-	1.24 M3		NON-REGULATED WASTE: 2 DRUMS ON 1 PALLET: ASSETS 349388 349543
NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.							
Received By:						Date	
Received By:						Date	

Figure 37: NWS Shipping Manifest TCN-38626

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SOW Ref: 16.F.5.d

ANNEX B: TREATED SEWAGE EFFLUENT OUTFALL (CDL-2) LOCATION WITH COORDINATES



Coordinates of sewage treatment outfall: 69°7'3.20"N, 105°7'11.3"W

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**ANNEX C: ANALYSIS OF TREATED SEWAGE EFFLUENT**

Table C-1: Summary of Analysis of Treated Sewage Effluent at CAM-M in 2018

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
9-Jan-18	6.68	A	<1	<2	0.3
5-Feb-18	6.76	A	<1	<2	0
5-Mar-18	6.89	A	<1	<2	1
9-Apr-18	7.22	A	<1	<2	0.7
7-May-18	6.92	A	<1	<2	0.7
4-Jun-18	7.01	A	1	<2	0
4-Jul-18	7.68	A	<1	<2	0
6-Aug-18	7.82	A	<1	<2	0
9-Sep-18	7.75	A	<1	<2	2
3-Oct-18	7.41	A	<1	<2	0.3
13-Nov-18	7.8	A	<1	<2	0
12-Dec-18	6.93	A	<1	<2	0

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



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Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 17-00919-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1800625
Date Submitted: 2018-01-12
Date Reported: 2018-01-19
Project: CAM-MAIN
COC #: 190071

Group		Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
General Chemistry		pH	1.00			1340893 Sewage
		Total Suspended Solids	2	mg/L		2018-01-09 CAM-MAIN CYCLET 1
Oil & Grease		Oil & Grease - Mineral	1	mg/L		
		Oil & Grease - Non-mineral	1	mg/L		
		Oil & Grease - Total	1	mg/L		
Subcontract		BOD5	1	mg/L		
Visible Sheen		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

146 Colonnade Rd. Unit 8, Ottawa, ON K2E 7Y1

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Figure 38: January 2018, sewage effluent laboratory results page 1 of 2



Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 17-00919-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1800608
Date Submitted: 2018-01-12
Date Reported: 2018-01-14
Project: CAM-MAIN
COC #: 190071

Group		Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1340853 Sewage 2018-01-09 CAM-Main Cyclet 1 A	1340854 Sewage 2018-01-09 CAM-Main Cyclet 1 B	1340855 Sewage 2018-01-09 CAM-Main Cyclet 1 C
Others		Faecal Coliforms	0	ct/100mL			1	0	0

Figure 39: January 2017, sewage effluent laboratory results page 2 of 2

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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#:
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1801830
Date Submitted: 2018-02-07
Date Reported: 2018-02-14
Project: CAM-Main
COC #: 193271

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
					1344159 Wastewater 2018-02-05 CAM-Main Cyclot 1
Group	Analyte	MRL	Units	Guideline	
General Chemistry	pH	1.00			6.76
	Total Suspended Solids	2	mg/L		<2
Oil & Grease	Oil & Grease - Mineral	1	mg/L		<1
	Oil & Grease - Non-mineral	1	mg/L		<1
	Oil & Grease - Total	1	mg/L		<1
Subcontract	BOD5	1	mg/L		<1
Visible Sheen	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

146 Colonnade Rd. Unit 8, Ottawa, ON K2E 7Y1

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Figure 40: February 2018, sewage effluent laboratory results page 1 of 2



Environment Testing

Certificate of Analysis

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

Report Number: 1801824
Date Submitted: 2018-02-07
Date Reported: 2018-02-08
Project: CAM-MAIN
COC #: 193271

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1344147 Sewage 2018-02-05 CAM-MAIN CYCLET 1A	1344148 Sewage 2018-02-05 CAM-MAIN CYCLET 1B	1344149 Sewage 2018-02-05 CAM-MAIN CYCLET 1C
Group	Analyte	MRL	Units	Guideline				
Others	Faecal Coliforms	0	ct/100mL			0	0	0

Figure 41: February 2018, sewage effluent laboratory results page 2 of 2

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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#: 17-00919-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1803485
Date Submitted: 2018-03-12
Date Reported: 2018-03-19
Project: CAM-MAIN
COC #: 193334

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
General Chemistry	pH	1.00			1348522 Sewage 2018-03-05 CAM-MAIN CYCLET 1
	Total Suspended Solids	2	mg/L		
Oil & Grease	Oil & Grease - Mineral	1	mg/L		
	Oil & Grease - Non-mineral	1	mg/L		
	Oil & Grease - Total	1	mg/L		
Subcontract	BOD5	1	mg/L		
Visible Sheen	Visible Sheen		P/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

146 Colonnade Rd. Unit 8, Ottawa, ON K2E 7Y1

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Figure 42: March 2018, sewage effluent laboratory results page 1 of 2



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 17-00919-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1803484
Date Submitted: 2018-03-12
Date Reported: 2018-03-13
Project: CAM-MAIN
COC #: 193334

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1348519 Sewage 2018-03-05 CAM-MAIN CYCLET 1A	1348520 Sewage 2018-03-05 CAM-MAIN CYCLET 1B	1348521 Sewage 2018-03-05 CAM-MAIN CYCLET 1C
Others	Faecal Coliforms	0	ct/100mL			2	1	0

Figure 43: March 2018, sewage effluent laboratory results page 2 of 2

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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#: 0021060-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1805257
Date Submitted: 2018-04-11
Date Reported: 2018-04-18
Project: CAM-MAIN
COC #: 193272

Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.				
1353107 Sewage 2018-04-09 CAM-MAIN CYCLET 1				
Group	Analyte	MRL	Units	Guideline
General Chemistry	pH	1.00		7.22
	Total Suspended Solids	2	mg/L	<2
Nutrients	BOD5	1	mg/L	<1
Oil & 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	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

146 Colonnade Rd. Unit 8, Ottawa, ON K2E 7Y1

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Figure 44: April 2018, sewage effluent laboratory results page 1 of 2



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 0021060-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1805286
Date Submitted: 2018-04-11
Date Reported: 2018-04-12
Project: CAM-Main
COC #: 193272

Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.				
1353207 WW 2018-04-09 CAM-Main Cyclet 1A				
1353208 WW 2018-04-09 CAM-Main Cyclet 1B				
1353209 WW 2018-04-09 CAM-Main Cyclet 1C				
Group	Analyte	MRL	Units	Guideline
Others	Faecal Coliforms	0	ct/100mL	
				1
				1
				0

Figure 45: April 2018, sewage effluent laboratory results page 2 of 2

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Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 0021060-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1807116
Date Submitted: 2018-05-09
Date Reported: 2018-05-16
Project: CAM-MAIN
COC #: 193266

Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.				
1358049 Sewage 2018-05-07 CAM-MAIN Cyclelet 1				
Group	Analyte	MRL	Units	Guideline
General Chemistry	pH	1.00		6.92
	Total Suspended Solids	2	mg/L	<2
Nutrients	BOD5	1	mg/L	8
Oil & 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	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

146 Colonnade Rd. Unit 8, Ottawa, ON K2E 7Y1

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Figure 46: May 2018, sewage effluent laboratory results page 1 of 2



Environment Testing

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Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 0021060-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1807122
Date Submitted: 2018-05-09
Date Reported: 2018-05-10
Project: CAM-MAIN
COC #: 193266

Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.				
1358059 Sewage 2018-05-07 CAM-MAIN Cyclelet 1A				
1358060 Sewage 2018-05-07 CAM-MAIN Cyclelet 1B				
1358061 Sewage 2018-05-07 CAM-MAIN Cyclelet 1C				
Group	Analyte	MRL	Units	Guideline
Others	Faecal Coliforms	0	ct/100mL	
				1 1 0

Figure 47: May 2018, sewage effluent laboratory results page 2 of 2

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Environment Testing

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Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 0021060-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1809100
Date Submitted: 2018-06-06
Date Reported: 2018-06-14
Project: CAM-MAIN
COC #: 193265

Group		Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
General Chemistry		BOD5	1	mg/L		1363348 Sewage
		pH	1.00			2018-06-04 CAM-MAIN Cyclet 1
		Total Suspended Solids	2	mg/L		
Oil and Grease		Oil & Grease - Mineral	1	mg/L		
		Oil & Grease - Non-mineral	1	mg/L		
		Oil & Grease - Total	1	mg/L		
		Visible Sheen		P/A		

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

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Page 2 of 3

Figure 48: June 2018, sewage effluent laboratory results page 1 of 2



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 0021060-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1809125
Date Submitted: 2018-06-06
Date Reported: 2018-06-07
Project: CAM-Main
COC #: 193265

Group		Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
Others		Faecal Coliforms	0	ct/100mL		1363475 WW 2018-06-04 CAM-Main Cyclet 1A
						1363476 WW 2018-06-04 CAM-Main Cyclet 1B
						1363477 WW 2018-06-04 CAM-Main Cyclet 1C

Figure 49: June 2018, sewage effluent laboratory results page 2 of 2

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Environment Testing

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Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 0021060-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1811695
Date Submitted: 2018-07-09
Date Reported: 2018-07-16
Project: CAM-MAIN
COC #: 193273

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
					1371493 Sewage 2018-07-04 CAM-MAIN CYCLET 1
Group	Analyte	MRL	Units	Guideline	
General Chemistry	BOD5	1	mg/L		<1
	pH	1.00			7.68
	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

146 Colonnade Rd. Unit 8, Ottawa, ON K2E 7Y1

Page 2 of 3

Figure 50: July 2018, sewage effluent laboratory results page 1 of 2



Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 0021060-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1811687
Date Submitted: 2018-07-09
Date Reported: 2018-07-10
Project: CAM-MAIN
COC #: 193273

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1371480 Sewage 2018-07-04 CAM-MAIN CYCLET 1A	1371481 Sewage 2018-07-04 CAM-MAIN CYCLET 1B	1371482 Sewage 2018-07-04 CAM-MAIN CYCLET 1C
Group	Analyte	MRL	Units	Guideline				
Others	Faecal Coliforms	0	ct/100mL			0	0	0

Figure 51: July 2018, sewage effluent laboratory results page 2 of 2

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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: 1813978
Date Submitted: 2018-08-08
Date Reported: 2018-08-15
Project: CAM-Main
COC #: 193268

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
					1379129 WW 2018-08-06 CAM-Main Cyclot 1
Group	Analyte	MRL	Units	Guideline	
General Chemistry	BOD5	1	mg/L		4
	pH	1.00			7.82
	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

146 Colonnade Rd. Unit 8, Ottawa, ON K2E 7Y1

Page 2 of 3

Figure 52: August 2018, sewage effluent laboratory results page 1 of 2



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: 1814041
Date Submitted: 2018-08-08
Date Reported: 2018-08-09
Project: CAM MAIN
COC #: 193268

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.			
					1379318 Sewage 2018-08-06 Cam-Main Cyclot 1A	1379319 Sewage 2018-08-06 Cam-Main Cyclot 1B	1379320 Sewage 2018-08-06 Cam-Main Cyclot 1C	
Group	Analyte	MRL	Units	Guideline				
Others	Faecal Coliforms	0	ct/100mL		0	0	0	

Figure 53: August 2018, sewage effluent laboratory results page 2 of 2

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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: 1816300
Date Submitted: 2018-09-10
Date Reported: 2018-09-17
Project:
COC #: 835556

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
					1386282 Sewage 2018-09-05 CAM-Main Cycle 1
Group	Analyte	MRL	Units	Guideline	
General Chemistry	BOD5	1	mg/L		<1
	pH	1.00			7.75
	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

146 Colonnade Rd. Unit 8, Ottawa, ON K2E 7Y1

Page 2 of 3

Figure 54: September 2018, sewage effluent laboratory results page 1 of 2



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: 1816306
Date Submitted: 2018-09-10
Date Reported: 2018-09-11
Project:
COC #: 835556

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1386293 Sewage 2018-09-05 CAM-Main Cycle 1A	1386294 Sewage 2018-09-05 CAM-Main Cycle 1B	1386295 Sewage 2018-09-05 CAM-Main Cycle 1C
Group	Analyte	MRL	Units	Guideline				
Others	Faecal Coliforms	0	ct/100mL			3	1	2

Figure 55: September 2018, sewage effluent laboratory results page 2 of 2

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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: 1818440
Date Submitted: 2018-10-10
Date Reported: 2018-10-17
Project:
COC #: 836429

		Lab I.D.	Sample Matrix	Sample Type	Sampling Date	Sample I.D.
		1392349	Sewage		2018-10-03	CAM-Main Cyclet 1
Group	Analyte	MRL	Units	Guideline		
General Chemistry	BOD5	1	mg/L		<1	
	pH	1.00			7.41	
	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

146 Colonnade Rd. Unit 8, Ottawa, ON K2E 7Y1

Page 2 of 3

Figure 56: October 2018, sewage effluent laboratory results page 1 of 2



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: 1818434
Date Submitted: 2018-10-10
Date Reported: 2018-10-11
Project:
COC #: 836429

		Lab I.D.	Sample Matrix	Sample Type	Sampling Date	Sample I.D.
		1392340	Sewage		2018-10-03	CAM-MAIN CYCLET 1A
		1392341	Sewage		2018-10-03	CAM-MAIN CYCLET 1B
		1392342	Sewage		2018-10-03	CAM-MAIN CYCLET 1C
Group	Analyte	MRL	Units	Guideline		
Others	Faecal Coliforms	0	ct/100mL		1	0

Figure 57: October 2018, sewage effluent laboratory results page 2 of 2

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SOW Ref: 16.F.5.d



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: 1820971
Date Submitted: 2018-11-19
Date Reported: 2018-11-26
Project:
COC #: 837906

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
General Chemistry	BOD5	1	mg/L		1399836 Sewage
	pH	1.00			2018-11-13 CAM-MAIN CYCLET 1
	Total Suspended Solids	2	mg/L		
Oil and Grease	Oil & Grease - Mineral	1	mg/L		
	Oil & Grease - Non-mineral	1	mg/L		
	Oil & Grease - Total	1	mg/L		
	Visible Sheen		P/A		

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

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Figure 58: November 2018, sewage effluent laboratory results page 1 of 2



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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: 1820966
Date Submitted: 2018-11-19
Date Reported: 2018-11-20
Project:
COC #: 837906

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1399825 Sewage 2018-11-13 CAM-MAIN CYCLET 1A	1399826 Sewage 2018-11-13 CAM-MAIN CYCLET 1B	1399827 Sewage 2018-11-13 CAM-MAIN CYCLET 1C
Microbiology	Faecal Coliforms	0	ct/100mL			0	0	0

Figure 59: November 2018, sewage effluent laboratory results page 2 of 2

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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: 1822462
Date Submitted: 2018-12-13
Date Reported: 2018-12-20
Project:
COC #: 838987

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
General Chemistry	BOD5	1	mg/L		1404125 Water
	pH	1.00			2018-12-10 Raytheon // Cam-Main Cyclot 1
	Total Suspended Solids	2	mg/L		
Oil and Grease	Oil & Grease - Mineral	1	mg/L		
	Oil & Grease - Non-mineral	1	mg/L		
	Oil & Grease - Total	1	mg/L		
	Visible Sheen		P/A		

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

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Figure 60: December 2018, sewage effluent laboratory results page 1 of 2



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: 1822463
Date Submitted: 2018-12-13
Date Reported: 2018-12-14
Project:
COC #: 838987

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1404126 Sewage 2018-12-10 CAM-Main Cyclot 1A	1404127 Sewage 2018-12-10 CAM-Main Cyclot 1B	1404128 Sewage 2018-12-10 CAM-Main Cyclot 1C
Microbiology	Faecal Coliforms	0	ct/100mL			0	0	0

Figure 61: December 2018, sewage effluent laboratory results page 2 of 2

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**ANNEX D: LOCATION OF BERMED FUEL STORAGE FACILITIES AND ANALYSIS OF BERM WATER**

Table D-1: Analysis of Berm Water at CAM-M in 2018

Berm	Maximum concentration of any grab sample (ug/L)	CAM W22A	CAM W20B&C
Location on-site		Summit	Airstrip
Discharge Latitude²		69° 7'2.76"N	69° 6'12.01"N
Discharge Longitude		105° 7'2.69"W	105° 7'36.60"W
Date		11-Jun-18	15-Jun-18
pH (pH Units)	6 to 9	7.57	7.57
Oil and Grease (ug/L)	5000	1000	<1000
Arsenic (total) (ug/L)	100	<20	<20
Cadmium (dissolved) (ug/L)	10	<0.1	0.5
Chromium (dissolved) (ug/L)	100	<1	<1
Cobalt (dissolved) (ug/L)	50	<0.2	0.6
Copper (dissolved) (ug/L)	200	12	4
Lead (dissolved) (ug/L)	50	<1	<1
Mercury (total) (ug/L)	0.6	<0.1	<0.1
Nickel (dissolved) (ug/L)	200	<5	<5
PCB (total) (ug/L)	1000	<0.1	<0.1
Phenols (ug/L)	20	4	<1
Zinc (total) (ug/L)	500	<40	90
Benzene (ug/L)	370	<0.5	<0.5
Toluene (ug/L)	2	<0.5	<0.5
Ethyl benzene (ug/L)	90	<0.5	<0.5

² Final discharge point of bermed fuel storage facility



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Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 0021060-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1809772
Date Submitted: 2018-06-14
Date Reported: 2018-06-20
Project: CAM-Main (Berm Sample)
COC #: 193335

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
General Chemistry	pH	1.00			1365566 Water
Mercury	Hg	0.0001	mg/L		2018-06-11 ML-W22A-1 Total Metals
Metals	Aqua-Regia Digest				
	As	0.02	mg/L		
	Zn	0.04	mg/L		
Oil and Grease	Oil & Grease - Total	1	mg/L		
PCBs	Polychlorinated Biphenyls (PCBs)	0.1	ug/L		
Subcontract	Phenols	0.001	mg/L		
VOCs Surrogates	Toluene-d8	0	%		
Volatiles	Benzene	0.5	ug/L		
	Ethylbenzene	0.5	ug/L		
	Toluene	0.5	ug/L		

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

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Figure 62: CAM W22A berm water laboratory results page 1 of 2 (11-Jun-2018)



Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Mr. Will Wyman
PO#: 0021060-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1809773
Date Submitted: 2018-06-14
Date Reported: 2018-06-18
Project: CAM-Main (Berm Sample)
COC #: 193335

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
Metals	Cd	0.0001	mg/L		1365567 Water
	Co	0.0002	mg/L		2018-06-11 ML-W22A-1 Dissolved Metals
	Cr	0.001	mg/L		
	Cu	0.001	mg/L		
	Ni	0.005	mg/L		
	Pb	0.001	mg/L		

Figure 63: CAM W22A berm water laboratory results page 2 of 2 (11-Jun-2018)

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Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
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Attention: Mr. Will Wyman
PO#: 0021060-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1810033
Date Submitted: 2018-06-19
Date Reported: 2018-06-27
Project: CAM-Main (Berm Sample)
COC #: 176789

Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.					1366444 Water - 2018-06-15 ML-W20 BC-1
Group	Analyte	MRL	Units	Guideline	
General Chemistry	pH	1.00			7.57
Mercury	Hg	0.0001	mg/L		<0.0001
Metals	Aqua-Regia Digest				Y
	As	0.02	mg/L		<0.02
	Zn	0.04	mg/L		0.09
Oil and Grease	Oil & Grease - Total	1	mg/L		<1
PCBs	Polychlorinated Biphenyls (PCBs)	0.1	ug/L		<0.1
Subcontract-Inorg	Phenols	0.001	mg/L		<0.001
VOCs Surrogates	Toluene-d8	0	%		93
Volatiles	Benzene	0.5	ug/L		<0.5
	Ethylbenzene	0.5	ug/L		<0.5
	Toluene	0.5	ug/L		<0.5

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

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Figure 64: CAM W20B&C berm water laboratory results page 1 of 2 (15-Jun-2018)

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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#: 0021060-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1810034
Date Submitted: 2018-06-19
Date Reported: 2018-06-20
Project: CAM-Main (Berm Sample)
COC #: 176789

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
					1366445 Water - 2018-06-15 ML-W20 BC-1
Group	Analyte	MRL	Units	Guideline	
Metals	Cd	0.0001	mg/L		0.0005
	Co	0.0002	mg/L		0.0006
	Cr	0.001	mg/L		<0.001
	Cu	0.001	mg/L		0.004
	Ni	0.005	mg/L		<0.005
	Pb	0.001	mg/L		<0.001

Figure 65: CAM W20B&C berm water laboratory results page 2 of 2 (15-Jun-2018)

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