



**2013 Annual Report  
to the  
Nunavut Water Board**

**Licensee: Department of National Defence,  
Government of Canada**

**Licence: 3BC-BAF0919 – Type “B”**

**Location: BAF-3 North Warning System Site,  
Brevoort Island, Qikiqtani Region, Nunavut**

**Report prepared by: Nasittuq Corporation,  
29 March 2014**



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### **Executive Summary**

This 2013 Annual Report to the Nunavut Water Board (NWB) is submitted as required by the licence issued 10 September 2009 3BC-BAF0919 – Type "B", Part B. General Conditions, paragraph 1.

BAF-3 is an unattended (unmanned) North Warning System radar site on Brevoort Island, Nunavut. The site is visited quarterly for preventive maintenance inspections and as required for other work by Nasittuq staff based out of the Logistics Support Site - Iqaluit (LSS-Q), Iqaluit, Nunavut.

The annual water usage was 1,251.8 cubic meters. This is below the 1,750 cubic meters annual maximum allowed by the licence.

The water contained in the berms of fuel storage facilities was sent for laboratory analysis and confirmed to be within effluent quality limits before the water was pumped out of the berms.

Hazardous waste was removed from the site for disposal outside of Nunavut. The waste went to Safety Kleen, 2730 boulevard Industriel, Chambly, QC, J3L 4V2. The waste was 75 drums of assorted waste (fuel, fuel soaked absorbent, fuel contaminated activated carbon, oil, glycol, paint, etc.) and 2 crates of waste batteries.

Nonhazardous domestic solid waste was flown out to LSS-Q and disposed of at Iqaluit's landfill. Nasittuq has documented authorization from the community for receiving the waste.



The sump for the sewage outfall was not pumped out therefore no samples were taken for laboratory analysis.

No outdoor spills occurred.

The Spill Contingency Plan was revised. The table of fuel tanks was updated.

2013 was Year 7 of the remediation and monitoring of the January 2007 Jet A1 fuel spill. Monitoring continued at the upper site where the 2007 spill occurred. Work was done at the mid-site biopile area. There was contaminated soil where the last biopiles used to be located. This soil was removed and placed in a new biopile. Effluent from the biopiles was sent for laboratory analysis and confirmed to be within effluent quality limits as required by the water licence. Monitoring wells around the biopiles were sampled and analyzed as required by the water licence.

## **Introduction**

This 2013 Annual Report to the Nunavut Water Board (NWB) is submitted as required by the licence issued 10 September 2009 3BC-BAF0919 – Type “B”, Part B. General Conditions, paragraph 1.

BAF-3 is an unattended (unmanned) North Warning System radar site on Brevoort Island, Nunavut. The site is visited quarterly for preventive maintenance inspections and as required for other work by Nasittuq staff based out of the Logistics Support Site - Iqaluit (LSS-Q), Iqaluit, Nunavut.

## **Water Drawn from Water Supply Lake**

The annual water usage was 1,251.8 cubic meters. This is below the 1,750 cubic meters annual maximum allowed by the current licence. See Table 1 below for the volume of raw water drawn.

**Table 1. Monthly and annual raw water drawn.**

<b>Month</b>	<b>Raw water drawn in cubic meters (m<sup>3</sup>)</b>
January	0
February	0
March	0
April	0
May	0
June	0
July	0
August	1,251.8
September	
October	
November	
December	
<b>TOTAL</b>	<b>1,251.8</b>

## **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 waste went to Safety Kleen, 2730 boulevard Industriel, Chambley, QC, J3L 4V2. The waste receiver number for Safety Kleen is 1144094969.

See Table 2 below for the list of items sent for disposal.

See **Annex A** for the shipping documents: the completed movement documents for waste regulated under the Transportation of Dangerous Goods Regulations (TDGR) and Nasittuq Manifests for non-regulated waste.

**Table 2. Summary of waste sent for disposal.**

<b>Site</b>	<b>Description, TDG shipping name</b>	<b>Quantity</b>	<b>Movement Document or Nasittuq Manifest #</b>
BAF-3	Waste fuel contaminated activated carbon	23 drums	Mov. Doc. 2464777-8
	Waste solids containing flammable liquids n.o.s. (fuel, aviation, turbine engine)		
BAF-3	Waste fuel, aviation, turbine engine	16 drums	Mov. Doc. 2464777-8
BAF-3	Waste fuel water mixture	4 drums	Mov. Doc. 2464777-8
	Waste fuel, aviation, turbine engine mixture		
BAF-3	Waste paint	1 drum	Mov. Doc. 2464778-6
BAF-3	Waste paint related materials	1 drum	Mov. Doc. 2464778-6
BAF-3	Waste fuel soaked absorbent	14 drums	Mov. Doc. 2464778-6
	Waste solids containing flammable liquids n.o.s. (fuel, aviation, turbine engine)		
BAF-3	Batteries, wet, filled with acid	1 crate	Mov. Doc. 2464779-4
BAF-3	Batteries, wet, non-spillable	1 crate	Mov. Doc. 2464779-4
BAF-3	Waste aerosols	1 drum	Mov. Doc. 2464779-4
BAF-3	Waste fuel filters	1 drum	Mov. Doc. 2464779-4
	Waste solids containing flammable liquids n.o.s. (fuel, aviation, turbine engine)		

**Table 2. Summary of waste sent for disposal (continued).**

Site	Description, TDG shipping name	Quantity	Movement Document or Nasittuq Manifest #
BAF-3	Waste glycol	5 drums	Nas. Man. 31398, 31399, 31400, 31402
BAF-3	Waste oil	8 drums	Nas. Man. 31398, 31399, 31400, 31401
BAF-3	Waste oil filters	1 drum	Nas. Man. 31397

**Nonhazardous Solid Waste Disposal**

Nonhazardous domestic solid waste was flown out to LSS-Q and disposed of at Iqaluit's landfill. Nasittuq has documented authorization from the community for receiving the waste. See Table 3 below for the quantity of waste generated. The BAF-3 landfill still exists (see **Annex B**).

**Table 3. Monthly and annual nonhazardous domestic solid waste sent for disposal.**

Month	Waste generated (kg)
January	94
February	66
March	40
April	30
May	126
June	24
July	140
August	280
September	499
October	262
November	69
December	49
<b>TOTAL</b>	<b>1,679</b>



## **Monitoring Program**

See **Annex C** for the location of the sewage effluent outfall, Monitoring Station # BAF-2, with GPS co-ordinates. A sump for the sewage outfall was built in 2010.

**Annex D** is blank. The sump for the sewage outfall was not pumped out therefore no samples were taken for laboratory analysis.

See **Annex E** for the list of bermed fuel storage facilities, Monitoring Station # BAF-4, with GPS co-ordinates.

See **Annex F** for the analysis of berm water (water contained in the berms of fuel storage facilities). The results were confirmed to be within effluent quality limits before the water was pumped out of the berms.

See **Annex G** for the analysis of untreated effluent from the mid-site biopiles, for the final discharge point from the landfarm (Monitoring Station # BAF-3), and for the biopile monitoring wells (Monitoring Station # BAF-5).

## **Spills (Unauthorized Discharges)**

No outdoor spills occurred.

## **Revisions to the Spill Contingency Plan**

The Spill Contingency Plan was revised. The table of fuel tanks (Appendix 8) was updated.



### **Progressive reclamation work undertaken**

2013 was Year 7 of the remediation and monitoring of the January 2007 Jet A1 fuel spill (reported in the 2007 Annual Report).

Monitoring continued at the upper site where the 2007 spill occurred. See **Annex G** for information on the monitoring and for recommendations for 2014.

Work was done at the mid-site biopile area. The last two biopiles from the summit spill were decommissioned in 2012. Soil samples collected from beneath former biopiles (BP) 11 and 13 showed residual impacts above the Canadian Council of Ministers of the Environment (CCME) Canada Wide Standards for Petroleum Hydrocarbons (CWS for PHC) and above Dew Line Cleanup Criteria (for BP 11 only). Therefore, in 2013, the soil from beneath former BP 11 and 13 was removed and placed in new BP 17.

Untreated effluent from the biopiles was sampled and analyzed as required by the water licence (see **Annex G** for the results) and confirmed to be within effluent quality limits. Samples were taken in July and September.

Monitoring wells around the biopiles were sampled and analyzed as required by the water licence (see **Annex G** for the results). Samples were taken in July and September. In September, monitoring well 5 (MW 5) had insufficient water to analyze for all parameters listed in the water licence, therefore priority was given to Oil & Grease, total metals (arsenic and zinc were done; mercury was not), and phenols. In July and September, MW 5 exceeded the criterion for Oil & Grease. In July and September, all monitoring wells exceeded the criterion for Zinc (total). The cause of these exceedances is unknown.



## Annex A

### **2013 Movement documents for regulated waste and Nasittuq manifests for non-regulated waste.**

Note: On some completed movement documents (i.e. Parts A, B, and C completed), the shipping names in Part A are too faint to read. In such cases, another copy of the movement document with a legible Part A has been included.



## 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/manifaste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

MOE 04-1917 (07/07)

Mailed by Consignee to Consignor - Postée par le destinataire à l'expéditeur

Copy / Copie 6 (brown / brun)



## MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal  
and provincial transport and environmental legislation.

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fédérale et provinciale sur l'environnement et le transport.

2464777-8

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

<b>A Generator / consignor Producteur / expéditeur</b>		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		<b>B Carrier / Transporteur</b>		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		23 Reference Nos. of other movement document(s)/manifest(s) used N° de référence des autres documents de mouvement/manifestes utilisés			
Company name / Nom de l'entreprise <b>DND O/c/o NASITTUQ CORP.</b>		Mailing address / Adresse postale City / Ville Postal code / Code postal 22 WING BLDG 109, HORNELEIGHTS, ON P0H 1P0 E-mail / Courrier électronique		Company name / Nom de l'entreprise <b>NUNAVUT EASTERN ARCTIC SHIPWAYS</b>		Mailing address / Adresse postale City / Ville Postal code / Code postal 101 OF VALLEYFIELD, DC V6T 6L4 E-mail / Courrier électronique					
Tel. No. / N° de tél. ( )				Tel. No. / N° de tél. ( )		Tel. No. / N° de tél. ( )					
Shipping site address / Adresse du lieu de l'expédition <b>NW SLRR BAF-3 NUNAVUT</b>		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		Registration No. / N° d'immatriculation Prov. 24		Port of entry Point d'entrée International border Point d'entrée International border		Port of exit Point de sortie International border Point de sortie International border			
Intended Receiver / consignee Récipiendaire / destinataire prévu <b>SAFETY-KLEEN</b>		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		Registration No. / N° d'immatriculation Prov. 25		Year / Année Month / Mois Day / Jour		Year / Année Month / Mois Day / Jour			
Mailing address / Adresse postale City / Ville Postal code / Code postal 6785 Route 132, Ville Ste-Catherine QC J5C 1B6 E-mail / Courrier électronique		Tel. No. / N° de tél. ( )		Signature 1/3/09 23 Class 109/101		Signature 1/3/09 23 Class 109/101		Time / Heure Year / Année Month / Mois Day / Jour A.M. P.M.			
Receiving site address / Adresse du lieu de destination <b>2330, boulevard Industriel</b>		Year / Année Month / Mois Day / Jour		Signature 1/3/09 23 Class 109/101		Year / Année Month / Mois Day / Jour		Time / Heure Year / Année Month / Mois Day / Jour A.M. P.M.			
City / Ville Province Postal code / Code postal Chambly QC J3L 4Y2		Year / Année Month / Mois Day / Jour		Signature 1/3/09 23 Class 109/101		Year / Année Month / Mois Day / Jour		Time / Heure Year / Année Month / Mois Day / Jour A.M. P.M.			
Prov. code Code prov.	3 Shipping name Appellation réglementaire	4 Class / Classe Sub (classé) Chapitre/ sub	5 UN No. N° NU	6 Packing / mat gr. Gr. d'emballage de risque	7 Quantity shipped Quantité expédiée	8 Unit Lor / ou Kg Unité	9 Packaging/Content No. / N° Code Int. ext.	10 Phys. state État phys	26 If waste or recyclable material to be transferred, specify intended company name/ Si les déchets ou matières recyclables doivent être transférés, précisez le nom du destinataire	27 Registration No/Provincial ID No. N° d'immatriculation/d'id provincial	
(i)	WASTE SOLIDS CONTAINING FLAMMABLE LIQUID, A.O.S. (fuel, aviation, turbine ENGINE)	4.1 UN 175	11	5001	KG 2301	S					
(ii)	WASTE FUEL, AVIATION, TURBINE ENGINE **	3 UN 1863	III	2475	L 1601	L					
(iv)	WASTE FUEL, AVIATION TURBINE ENGINE **	3 UN 1863	III	655	L 401	L					
11	12	13	14	15	16	17	18	19	20	21	
Notice No. N° de notification	Notice Line No. N° de ligne de la notification	Shipment Envoy	Off / De D or R code Code É ou R	C code Code C	Basel Annex VIII or I CED 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	Date shipped / Date d'expédition Year / Année Month / Mois Day / Jour	Time / Heure Year / Année Month / Mois Day / Jour
If handling code "Other" (specify) Si code de manutention « autre » (spécifier)											22
Receiver / consignee certification: I certify that the information contained in Part C is correct and complete. Attestation du récipiendaire / destinataire : J'atteste que tous les renseignements à la partie C sont exacts et complets.											23
Name of authorized person (print) Nom de l'agent autorisé (caractère d'imprimé) <b>Diane DAVISON</b>											24
Signature <b>24-Hour Number: 613-996-6666 Collect only USE IN CASE of DANGEROUS Goods Emergency</b>											25
Special handling / Manutention spéciale <input type="checkbox"/> Attached / O/joint <input type="checkbox"/> As follows / Ci-contre											26
Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour											27

MOE 04-1917 (07/07)

Retained by Consignor (Generator) - Gardée par l'expéditeur

Copy / Copie 2 (green / verte)



## 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.

2464778-6

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

<b>A Generator / consignor Producteur / expéditeur</b>		<b>B Carrier / Transporteur</b>			
Registration No. / Provincial ID No. N° d'immatriculation - d'id provincial <i>NUG10003</i>		Registration No. / Provincial ID No. N° d'immatriculation - d'id provincial <i>NU10003</i>		21 Reference No. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés	
Company name / Nom de l'entreprise <i>INDUS NUNAVUT CORP</i>		Company name / Nom de l'entreprise <i>INDUS NUNAVUT CORP</i>		C <b>Receiver / consignee Réceptionnaire / destinataire</b>	
Mailing address / Adresse postale City / Ville Province Postal code / Code postal <i>320 130th Street, Yellowknife, NWT, Canada, X1A 1B6</i>		Mailing address / Adresse postale City / Ville Province Postal code / Code postal <i>320 130th Street, Yellowknife, NWT, Canada, X1A 1B6</i>		Registration No. / Provincial ID No. N° d'immatriculation - d'id provincial	
E-mail / Courrier électronique ( )		E-mail / Courrier électronique ( )		22 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 <i>320 130th Street, Yellowknife, NWT, Canada, X1A 1B6</i>		Vehicle / Véhicule Trailer - Rail car No. 1 1 <sup>st</sup> remorque - wagon		Registration No. / N° d'immatriculation Prov. 24	
City / Ville Province Postal code / Code postal <i>Yellowknife, NWT, Canada, X1A 1B6</i>		Trailer - Rail car No. 2 2 <sup>nd</sup> remorque - wagon			
Intended Receiver / consignee Réceptionnaire / destinataire prévu <i>SAFETY KEEEN</i>		23 Registration No. / Provincial ID No. N° d'immatriculation - d'id provincial <i>NU100069</i>		25 Port of entry / Point d'entrée International use only International use only	
Mailing address / Adresse postale City / Ville Province Postal code / Code postal <i>1000 130th Street, Yellowknife, NWT, Canada, X1A 1B6</i>		Carrier Certification: I certify that I have received waste or recyclable material from the generator / consignor 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.		26 Port of exit / Point de sortie International use only International use only	
E-mail / Courrier électronique ( )		Name of authorized person (print): Nom de l'agent autorisé (caractère d'imprimé): <i>John Doe</i>		Tel. No. / N° de tel. ( )	
Receiving site address / Adresse du lieu de destination <i>320 130th Street, Yellowknife, NWT, Canada, X1A 1B6</i>		Year / Année Month / Mois Day / Jour <i>2013 01 01</i>		Date received / Date de réception Year / Année Month / Mois Day / Jour <i>2013 01 01</i>	
City / Ville Province Postal code / Code postal <i>Yellowknife, NWT, Canada, X1A 1B6</i>		Signature: <i>John Doe</i>		Time / Heure A.M. <input type="checkbox"/> P.M. <input type="checkbox"/>	
Prov. code / Code prov. (i)		4 Class / Classe Sub class(es) / Classe(s) sub. <i>WASTE PAINT</i>		5 UN No. N.N.U. <i>3</i>	
(ii)		6 Packing / réa. Gr. d'emballage / de réa. <i>50</i>		7 Quantité expédiée Quantité expédiée <i>50</i>	
(iii)		8 Units Lor. ou Kg Unités <i>kg</i>		9 Packaging/Contenant No. / N° Codes Int. ext. <i>10</i>	
(iv)		10 Phys. state Etat phys. <i>LIQUID</i>		11	
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741		742		743	
744		745		746	
747		748		749	
750		751		752	
753		754		755	



## 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.

2464778-6

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

<b>A Generator / consignor Producteur / expéditeur</b>		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial	<b>B Carrier Transporteur</b>		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial	23		24						
Company name / Nom de l'entreprise <b>DND c/o NASITTUQ CORP</b>		City/Ville	Province	Postal code / Code postal	<b>NUNAVUT EASTERN ARCTIC SHIPPING (NEAS)</b>		Company name / Nom de l'entreprise <b>PORT OF VALLEYFIELD, QC H6T 4L4</b>	City/Ville	Province	Postal code / Code postal				
Mailing address / Adresse postale <b>2201 1/2 BLDG 109, HORNET II HEIGHTS, ON P0H 3P0</b>		E-mail / Courrier électronique ( )		Tel. No. / N° de tél. ( )	E-mail / Courrier électronique ( )		Tel. No. / N° de tél. ( )	E-mail / Courrier électronique ( )		Tel. No. / N° de tél. ( )				
Shipping site address / Adresse du lieu de l'expédition <b>MNS LRR BAF-3</b>		City/Ville	Province	Postal code / Code postal	Vehicle / Véhicule		Registration No. / N° d'immatriculation	Prov.	25					
Intended Receiver / consignee Recipientaire / destinataire prévu		2	Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial	NYND04969	Trailer - Rail car No. 1 1 <sup>er</sup> remorque - wagon		Port of exit Point d'entrée	International route only Internationale route only	26					
Recipient address / Adresse postale <b>SAFETY KIEEN</b>		City/Ville	Province	Postal code / Code postal	Trailer - Rail car No. 2 2 <sup>nd</sup> remorque - wagon		Point de sortie Point d'entrée	International route only Internationale route only	27					
Mailing address / Adresse postale <b>6785 Rue de la Ville Ste Catherine, QC J5E 1B6</b>		E-mail / Courrier électronique ( )		Tel. No. / N° de tél. ( )	Name of authorized person (print) Nom de l'agent autorisé (caractère d'imprimé)		Tel. No. / N° de tél. ( )	28						
Receiving site address / Adresse du lieu de l'expédition <b>2330 boulevard Industrial</b>		City/Ville	Province	Postal code / Code postal	Year / Année 1/3		Month / Mois 09	Day / Jour 23	Signature : Claudia Iskra ( )					
Intended Receiver / consignee Recipientaire / destinataire prévu		29	Year / Année Year / Année	Month / Mois Month / Mois	Day / Jour Day / Jour	Comments / Commentaires		Time / Heure A.M. <input type="checkbox"/> P.M. <input type="checkbox"/>	30					
Recipient address / Adresse postale <b>CHAMBLY QC</b>		City/Ville	Province	Postal code / Code postal	Quantity received Quantité reçue		Units / 1 Litre / ou Kg Unités	Comments / Commentaires	Shipment / Env. / Accepted <input type="checkbox"/> Refused <input type="checkbox"/> Accepted <input type="checkbox"/> Refuse <input type="checkbox"/>	Decont. / Pack. / Veh. / Cont.				
Mailing address / Adresse postale <b>536 4V2</b>		Prov. code / Code prov.		31	6. Packing / risk gr. Gr. d'emballage / Gr. de risque		7. UN No. N° UN	8. UN No. N° UN	9. Packaging/Content No. / N° Codes Int.-ext.	10. Phys. state État phys.				
Shipping name / Appellation négociante		4. Class / Classe Sub. classif.(s) Catégorie(s) sub.		11	12		13	14	15	16	17	18	19	
(i) <b>WASTE PAINT</b>		5		UN 1263	(a)		50	L	1	01	L			
(ii) <b>WASTE PAINT RELATED MATERIAL</b>		3		UN 1263	(a)		5	L	1	01	L			
(iii) <b>WASTE SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Excl. aviation, turbine, Engine)</b>		4.1		UN 3195	II		1798	Kg	14	01	S			
Notice No. N° de notification		Notice Line No. N° de ligne de la notification	Shipment Envio	OM / De O or R code Code O ou R	C code Code C	Basel Annex VIII or Annexe VIII de Bâle ou Code OCDE	H code Code H	Y code Code Y	Export Expédition	Import Importation	Customs code(s) Code(s) de douanes		31	
(i) <b>24-Hour Number: 813-996-6666</b>										Signature : G. Davison 8/24/2011 88-4444		32		
(ii) <b>USE IN CASE OF DANGEROUS Goods EMERGENCY</b>										Signature : A. Adams		33		
Generator / consignor 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 (caractère d'imprimé)		Signature : G. Davison 8/24/2011 88-4444		Comments / Commentaires		34		Name of authorized person (print) Nom de l'agent autorisé (caractère d'imprimé)		35		
MOE 04-1917 (07/07)		Retained by Consignor (Generator) - Gardée par l'expéditeur		Copy / Copie 2 (green / vert)		Special handling / Manutention spéciale <input type="checkbox"/> Attached (C/joint) <input type="checkbox"/> As follows/ Ci-contre :		36		Signature : ( )		37		
2013 Annual Report to the Nunavut Water Board Licence Number 3BC-BAF0919 – Type “B” BAF-3, Brevoort Island, NU		21		Date shipped / Date d'expédition Year / Année 1/3		Time / Heure A.M. <input type="checkbox"/> P.M. <input type="checkbox"/>		Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour		22				



## 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.

2464779-4

<b>A Generator / consignor Producteur / expéditeur</b>		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		<b>B Carrier Transporteur</b>		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial		<b>C Receiver / consigne Récepteur/ destinataire</b>		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial						
Company name / Nom de l'entreprise <i>SOLO CHEMICALS INC.</i>		Mailing address / Adresse postale <i>1000 10th Street, Suite 100, PO Box 1000</i>		Company name / Nom de l'entreprise <i>SOLO CHEMICALS INC.</i>		Mailing address / Adresse postale <i>1000 10th Street, Suite 100, PO Box 1000</i>		Receiver / consigne information same as in Part A Les renseignements du récepteur / destinataire est la même qu'à la Partie A		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial						
City / Ville <i>Calgary, AB</i>		Province <i>Alberta</i>		Postal code / Code postal <i>T2C 2R9</i>		City / Ville <i>Calgary, AB</i>		Province <i>Alberta</i>		Postal code / Code postal <i>T2C 2R9</i>						
E-mail / Courrier électronique <i>SOLO.CHEMICALS@SOLO.CHEMICALS.COM</i>		Tel. No. / N° de tél. <i>(403) 217-1000</i>		E-mail / Courrier électronique <i>SOLO.CHEMICALS@SOLO.CHEMICALS.COM</i>		Tel. No. / N° de tél. <i>(403) 217-1000</i>		E-mail / Courrier électronique <i>SOLO.CHEMICALS@SOLO.CHEMICALS.COM</i>		Tel. No. / N° de tél. <i>(403) 217-1000</i>						
Shipping site address / Adresse du lieu de l'expédition <i>1000 10th Street, Suite 100, PO Box 1000</i>		Vehicle / Véhicule Trailer - Rail car No. 1 1 <sup>re</sup> remorque - wagon		Registration No. / N° d'immatriculation		Prov. 24 Trailer - Rail car No. 2 2 <sup>me</sup> remorque - wagon		Company name / Nom de l'entreprise		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial						
City / Ville <i>Calgary, AB</i>		Point of entry Point d'entrée		International use only International use only		Port of exit Point de sortie		City / Ville <i>Calgary, AB</i>		Point of entry Point d'entrée						
Province <i>Alberta</i>		Postal code / Code postal <i>T2C 2R9</i>		Postal code / Code postal <i>T2C 2R9</i>		Postal code / Code postal <i>T2C 2R9</i>		Province <i>Alberta</i>		Postal code / Code postal <i>T2C 2R9</i>						
Intended Receiver / consigne Récepteur/ destinataire prévu <i>SAFETY KLEEN</i>		Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial <i>114003667</i>		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 récepteur / 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 destination		Date received / Date de réception Year / Année <i>2008</i>		Time / Heure Month / Mois <i>July</i>				
Mailing address / Adresse postale <i>1000 10th Street, Suite 100, PO Box 1000</i>		City / Ville <i>Calgary, AB</i>		Province <i>Alberta</i>		Postal code / Code postal <i>T2C 2R9</i>		Tel. No. / N° de tél. <i>(403) 217-1000</i>		Year / Année <i>2008</i>		Month / Mois <i>July</i>				
Email / Courrier électronique <i>SAFETYKLEEN@SAFETYKLEEN.COM</i>		Tel. No. / N° de tél. <i>(403) 217-1000</i>		Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie)		Tel. No. / N° de tél.		Signature		Day / Jour <i>15</i>		Time / Heure Day / Jour <i>15</i>				
Receiving site address / Adresse du lieu de l'expédition <i>2330 10th Street, Suite 100, PO Box 1000</i>		Year / Année <i>2008</i>		Month / Mois <i>July</i>		Day / Jour <i>15</i>		Signature		Year / Année <i>2008</i>		Month / Mois <i>July</i>				
City / Ville <i>Calgary, AB</i>		Province <i>Alberta</i>		Postal code / Code postal <i>T2C 2R9</i>		Year / Année <i>2008</i>		Month / Mois <i>July</i>		Day / Jour <i>15</i>		Time / Heure Day / Jour <i>15</i>				
Prov. code Code prov.	Shipping name Appellation réglementaire	4 Class / Classe Sub classe(s) Classe(s) sub.	5 UN No. N° NNU	6 Packing risk g. Gr. d'emballage/ de risque	7 Quantité shipped Quantité expédiée	8 Units Lor / ou Kg Unités	9 No. / N° Contenu Cotes Int-ext	10 Phys. stat. Etat phys.	11	Quantity received Quantité reçue	12 Units Lor / ou Kg Unités	13 Comments Commentaires	14 Handling Code / Code de manutention	15		
(i) *	WATER-BASED KIND OF ACID	8	2374	III	562 Kg	100	07	S					Accepted Accepté			
(ii) *	WATER-BASED KIND OF ACID	8	2374	III	46 Kg	100	07	S					Accepted Accepté			
(iii)	WATER ACIDS	2.1	1960	---	50 L	1	01	G					Accepted Accepté			
(iv)	WATER ACIDS	4.1	1960	---	27 Kg	1	01	S					Accepted Accepté			
Notice No. N° de notification		11 Notice No. N° de ligne de la notification	12 Shipment Envoy	13 Off / De	14 D or R code Code E ou R	15 C code Code C	16 Basé Annexe VIII ou OECD Code	17 Annexe VIII de Bâle ou Code OCDE	18 H code Code H	19 Y code Code Y	20 Export Exportation	21 Import Importation	22 Customs code(s) Code(s) de douanes	23		
(i)	* Envoyed by Certificate No. 8074															
(ii)	International use only															
(iii)	24-Hour Emergency Response Number: 1-800-666-6666															
(iv)	In case of differences contact: 1-800-666-6666															
Generator / consignor certification: I certify that the information contained in Part A is correct and complete.															Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie)	
Attestation du producteur / expéditeur: J'atteste que tous les renseignements à la partie A sont exacts et complets.															Signature	
Receiver / consigne information same as in Part A Les renseignements du récepteur / destinataire est la même qu'à la Partie A															Tel. No. / N° de tél.	
Receiver / consigne certification : I certify that the information contained in Part C is correct and complete.															Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie)	
Attestation du récepteur / destinataire : J'atteste que tous les renseignements à la partie C sont exacts et complets.															Signature	
Special handling / Manutention spéciale															Tel. No. / N° de tél.	
Attached (check): <input type="checkbox"/> As follows/ Ci-cointre:																
Date shipped / Date d'expédition Year / Année <i>2008</i>															Time / Heure Month / Mois <i>July</i>	
Date received / Date de réception Year / Année <i>2008</i>															Time / Heure Month / Mois <i>July</i>	
Scheduled arrival date / Date d'arrivée prévue Year / Année <i>2008</i>															Time / Heure Month / Mois <i>July</i>	

MOE 04-1917 (07/07)

Mailed by Consignee to Consignor - Postée par le destinataire à l'expéditeur

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## MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

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Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

2464779-4

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

<b>A Generator / consignor Producteur / expéditeur</b>		Registration No. / Provincial ID No. N° d'immatriculation - d'id provincial <i>NUN 100003</i>		<b>B Carrier / Transporteur</b>		Registration No. / Provincial ID No. N° d'immatriculation - d'id provincial <i>NUC 200001</i>		23 Reference No. of other movement documents(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés															
Company name / Nom de l'entreprise <i>NUVIT EASTERN ARCTIC SHIPPING</i>		Mailing address / Adresse postale City / Ville Province Postal code / Code postal <i>22 WING BLDG 103, MORNELL HEIGHTS, ON P0H 3P0</i>		Company name / Nom de l'entreprise <i>PORT OF VALLEYFIELD, QC J0T 6L4</i>		Mailing address / Adresse postale City / Ville Province Postal code / Code postal <i>450-373-2333</i>																	
Mailing address / Adresse postale City / Ville Province Postal code / Code postal <i>NW 5 LRR BAF-3</i>		E-mail / Courrier électronique Tel. No. / N° de tél. ( )		Mailing address / Adresse postale City / Ville Province Postal code / Code postal <i>BREVOORT ISLAND NUWUT</i>		E-mail / Courrier électronique Tel. No. / N° de tél. ( )																	
Shipping site address / Adresse du lieu de l'expédition Intended Receiver / consignee Récipientataire / destinataire prévu <i>SAFETY-KLEEN</i>		Registration No. / Provincial ID No. N° d'immatriculation - d'id provincial <i>1144009769</i>		Vehicle / Véhicule Trailer - Rail car No. 1 1 <sup>er</sup> remorque - wagon		Registration No. / N° d'immatriculation Prov. 24 Trailer - Rail car No. 2 2 <sup>nd</sup> remorque - wagon		25															
Mailing address / Adresse postale City / Ville Province Postal code / Code postal <i>6785, 6<sup>th</sup> WYRE, ST-CATHERINE, QC T5G 1B6</i>		E-mail / Courrier électronique Tel. No. / N° de tél. ( )		Port of entry Point d'entrée <i>CHAMBERY QC</i>		Port of exit Point de sortie <i>CHAMBERY QC</i>																	
Receiving site address / Adresse du lieu de destination Intended Receiver / consignee Récipientataire / destinataire prévu <i>2730, boulevard Industriel</i>		Year / Année Month / Mois Day / Jour Signature : <i>1/30/92 3 Claudia (Aja)</i>		6		Packing / risk gr. Gr. d'emballage/ Gr. de risque <i>UN No. NNU</i>		7															
Prov. code Code prov.		7 Case / Cases Appellation réglementaire <i>WASTE BATTERIES, wet FILLED WITH ACID</i>		8		8 Unit Unité <i>kg</i>		9 Quantity/Content Quantité expédiée <i>562</i>		10 No. / N° Codes Int.-Ext. <i>kg</i>		11 Phys. state Etat phys. <i>S</i>											
(i)		* <i>WASTE BATTERIES, wet NON SPILLABLE</i>		8		8 Unit Unité <i>kg</i>		9 Quantity/Content Quantité expédiée <i>46</i>		10 No. / N° Codes Int.-Ext. <i>kg</i>		11 Phys. state Etat phys. <i>S</i>											
(ii)		* <i>WASTE AEROSOLS</i>		21		8 Unit Unité <i>kg</i>		9 Quantity/Content Quantité expédiée <i>50</i>		10 No. / N° Codes Int.-Ext. <i>kg</i>		11 Phys. state Etat phys. <i>G</i>											
(iii)		* <i>WASTE SOLIDS CONTAINING FLAMMABLE Liquid, no 3, (not Aviation Turbulence)</i>		41		8 Unit Unité <i>kg</i>		9 Quantity/Content Quantité expédiée <i>74</i>		10 No. / N° Codes Int.-Ext. <i>kg</i>		11 Phys. state Etat phys. <i>S</i>											
12		13		14		15		16		17		18											
Notice No. N° de notification		Notice Line No. N° de ligne de la notification		Shipment Envoy		O/I De		D or R code Code O/I R		C code Code C		Basel Annex VIII or OECD Code Annexe VIII de la Bille ou Code OCDE		H code Code H		Y code Code Y		Export Expédition		Import Importation		Customs code(s) Code(s) de douanes	
(i)		* <i>Equivalency Certificate SU 8074</i>																					
(ii)		* <i>24-Hour Number Chamberlain 83996-6686. Collect only</i>																					
(iii)		* <i>USE IN CASE of DANGEROUS Goods Emergency</i>																					
Generator / consignor 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 (caractère d'imprimére)		Signature		20		Name of authorized person (print) Nom de l'agent autorisé (caractère d'imprimére)		Signature		21		Special handling / Manutention spéciale <input type="checkbox"/> Attached / C-joint <sup>**</sup> <input type="checkbox"/> As follows / Ci-contre :		22							

MOE 04-1817 (07/07)

Retained by Consignor (Generator) - Gardée par l'expéditeur

Copy / Copie 2 (green / vert



		NASITTUQ MANIFEST					
Suite 400, 160 Elgin Street, Ottawa, ON K2P 2P7							
NON NEGOTIABLE							
Filled By: <b>DDAVISON</b>		Date: <b>2013-07-21 3:47 PM</b>		TCN-31397			
Ship To: CLEAN HARBORS CANADA INC. 2730 BOULEVARD INDUSTRIEL CHAMBLY, QC, J3L 4V2 CA		From: BAF-3, BREVOORT ISLAND, DND Storeroom Nasittuq Corporation, NWS LSS Iqaluit, P.O. Box 1089 Iqaluit, NU, X0A 0H0 867-979-4818		Priority <b>1</b>			
Attention:		Attention:					
Carrier: <b>NEAS</b>		Routing:		Waybill #:	Total Pcs.	Total Weight:	
				<b>2</b>	<b>238 KG</b>		
<b>QTY</b> Order	<b>Type</b>	<b>Line Weight</b>	<b>Item</b>	<b>Description</b>	<b>WO or PO</b>	<b>B/Code or S/N</b>	<b>Remarks</b>
1.0	STEEL DRUM	87 KG	2003635	WASTE - FUEL FILTERS (DRUM)	EIN 323064	57"x27"x46"	
1.0	STEEL DRUM	114 KG	2002356	WASTE - OIL FILTERS (DRUM)	EIN 322433		
NOTE: All claims related to this shipment have to be filled with Nasittuq within 45 hours of receipt.				Received By:	Date		
				Received By:	Date		

		NASITTUQ MANIFEST					
Suite 400, 160 Elgin Street, Ottawa, ON K2P 2P7							
NON NEGOTIABLE							
Filled By: <b>DDAVISON</b>		Date: <b>2013-07-21 4:13 PM</b>		TCN-31398			
Ship To: CLEAN HARBORS CANADA INC. 2730 BOULEVARD INDUSTRIEL CHAMBLY, QC, J3L 4V2 CA		From: BAF-3, BREVOORT ISLAND, DND Storeroom Nasittuq Corporation, NWS LSS Iqaluit, P.O. Box 1089 Iqaluit, NU, X0A 0H0 867-979-4818		Priority <b>1</b>			
Attention:		Attention:					
Carrier: <b>NEAS</b>		Routing:		Waybill #:	Total Pcs.	Total Weight:	
				<b>2</b>	<b>288 KG</b>		
<b>QTY</b> Order	<b>Type</b>	<b>Line Weight</b>	<b>Item</b>	<b>Description</b>	<b>WO or PO</b>	<b>B/Code or S/N</b>	<b>Remarks</b>
1.0	DRUM	112 KG	2002344	WASTE - GLYCOL (DRUM)	EIN 323191	57"x27"x46"	
1.0	DRUM	139 KG	2002406	WASTE - OIL (45 GALLON DRUM)	EIN 325164		
NOTE: All claims related to this shipment have to be filled with Nasittuq within 45 hours of receipt.				Received By:	Date		
				Received By:	Date		



<b>NASITTUQ MANIFEST</b>																									
Suite 400, 160 Elgin Street, Ottawa, ON K2P 2P7																									
NON NEGOTIABLE																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Filled By: <b>DDAVISON</b></td> <td style="width: 50%;">Date: <b>2013-07-21 4:21 PM</b></td> </tr> <tr> <td colspan="2" style="text-align: right;">TCN-31399</td> </tr> </table>		Filled By: <b>DDAVISON</b>	Date: <b>2013-07-21 4:21 PM</b>	TCN-31399																					
Filled By: <b>DDAVISON</b>	Date: <b>2013-07-21 4:21 PM</b>																								
TCN-31399																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Ship To: CLEAN HARBORS CANADA INC. 2730 BOULEVARD INDUSTRIEL CHAMBLY, QC, J3L 4V2 CA</td> <td style="width: 50%;">From: BAF-3, BREVOORT ISLAND, DND Storeroom Nasittuq Corporation, NWS LSS Iqaluit, P.O. Box 1089 Iqaluit, NU, X0A 0H0 867-979-4818</td> </tr> <tr> <td colspan="2" style="text-align: right;">Priority <b>1</b></td> </tr> </table>		Ship To: CLEAN HARBORS CANADA INC. 2730 BOULEVARD INDUSTRIEL CHAMBLY, QC, J3L 4V2 CA	From: BAF-3, BREVOORT ISLAND, DND Storeroom Nasittuq Corporation, NWS LSS Iqaluit, P.O. Box 1089 Iqaluit, NU, X0A 0H0 867-979-4818	Priority <b>1</b>																					
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QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks																		
2.0	DRUM	381 KG	2002344	WASTE - GLYCOL (DRUM)	EIN 325165,325606	48"x48"x43"																			
1.0	DRUM	196 KG	2002406	WASTE - OIL (45 GALLON DRUM)	EIN 309224																				
<p>NOTE: All claims related to this shipment have to be filled with Nasittuq within 45 hours of receipt.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Received By:</td> <td style="width: 50%;">Date</td> </tr> <tr> <td colspan="2"></td> </tr> <tr> <td colspan="2"></td> </tr> </table>		Received By:	Date																						
Received By:	Date																								

<b>NASITTUQ MANIFEST</b>																									
Suite 400, 160 Elgin Street, Ottawa, ON K2P 2P7																									
NON NEGOTIABLE																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Filled By: <b>DDAVISON</b></td> <td style="width: 50%;">Date: <b>2013-07-21 4:24 PM</b></td> </tr> <tr> <td colspan="2" style="text-align: right;">TCN-31400</td> </tr> </table>		Filled By: <b>DDAVISON</b>	Date: <b>2013-07-21 4:24 PM</b>	TCN-31400																					
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QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks																		
1.0	DRUM	166 KG	2002344	WASTE - GLYCOL (DRUM)	EIN 325163	48"x48"x44"																			
2.0	DRUM	419 KG	2002406	WASTE - OIL (45 GALLON DRUM)	EIN 326036,326035																				
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Received By:	Date																								



## NASITTUQ MANIFEST

Suite 400, 160 Elgin Street, Ottawa, ON K2P 2P7

NON NEGOTIABLE

Filled By: <b>DDAVISON</b>	Date: <b>2013-07-21 4:27 PM</b>				TCN-31401
Ship To: CLEAN HARBORS CANADA INC. 2730 BOULEVARD INDUSTRIEL CHAMBLY, QC, J3L 4V2 CA	From: BAF-3, BREVOORT ISLAND, DND Storeroom Nasittuq Corporation, NWS LSS Iqaluit, P.O. Box 1089 Iqaluit, NU, X0A 0H0 867-979-4818	Priority <b>1</b>			
Attention:	Attention:				
Carrier: NEAS	Routing:	Waybill #:	Total Pcs. <b>4</b>	Total Weight: <b>892 KG</b>	
QTY Order	Type	Line Weight	Item	Description	WO or PO B/Code or S/N Remarks
4.0	DRUM	892 KG	2002406	WASTE - OIL (45 GALLON DRUM)	EIN 325189,325604 48"x48"x44"
0.0					EIN 325605,325190
NOTE: All claims related to this shipment have to be filled with Nasittuq within 45 hours of receipt.					Received By: _____ Date: _____
					Received By: _____ Date: _____

Filled By: <b>DDAVISON</b>	Date: <b>2013-07-22 8:40 AM</b>				TCN-31402
Ship To: CLEAN HARBORS CANADA INC. 2730 BOULEVARD INDUSTRIEL CHAMBLY, QC, J3L 4V2 CA	From: BAF-3, BREVOORT ISLAND, DND Storeroom Nasittuq Corporation, NWS LSS Iqaluit, P.O. Box 1089 Iqaluit, NU, X0A 0H0 867-979-4818	Priority <b>1</b>			
Attention:	Attention:				
Carrier: NEAS	Routing:	Waybill #:	Total Pcs. <b>1</b>	Total Weight: <b>185 KG</b>	
QTY Order	Type	Line Weight	Item	Description	WO or PO B/Code or S/N Remarks
1.0	DRUM	185 KG	2002344	WASTE - GLYCOL (DRUM)	EIN 326037 48"x48"x44"
NOTE: All claims related to this shipment have to be filled with Nasittuq within 45 hours of receipt.					Received By: _____ Date: _____
					Received By: _____ Date: _____

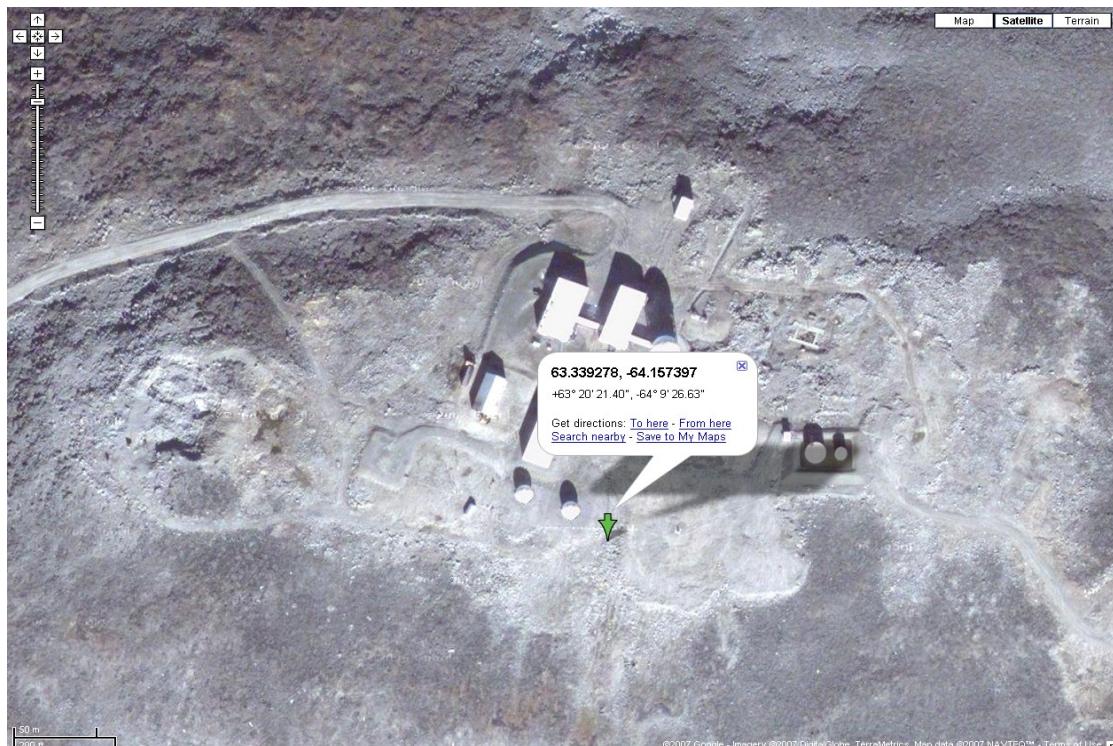
## Annex B

### Location of Landfill with GPS Co-ordinates



## Annex C

### Sewage Outfall Location (Monitoring Station # BAF-2) with GPS Co-ordinates





## Annex D

**This Annex has been left blank intentionally.  
(The sump of the sewage outfall was not pumped out therefore no samples were  
taken for laboratory analysis.)**



## Annex E

### Bermed Fuel Storage Facilities with GPS Co-ordinates

<b>Licence</b>	<b>Location</b>	<b>Monitoring Station # (Final Discharge Point of Bermed Fuel Storage Facility)</b>	<b>Berm's Location On- site</b>	<b>Berm's GPS Co-ordinates</b>
3BC-BAF0919 Type "B"	BAF-3 North Warning System Site, Brevoort Island, Qikiqtani Region, Nunavut	BAF-4	<ul style="list-style-type: none"><li>- Summit</li><li>- Berm of tanks W22A and W22B</li><li>- Beach</li><li>- Berm that used to contain tanks W22C and W22D</li><li>- Note: Tanks W22C and W22D were demolished in 2012. The berm was left intact.</li></ul>	63° 20' 23" N 64° 09' 18" W 63° 19' 52" N 64° 10' 40" W



## Annex F

### **Analysis of Berm Water (Effluent from Bermed Fuel Storage Facilities)**



02 July 2013  
Summit, Berm of tanks W22A and W22B  
Page 1 of 2

EXOVA OTTAWA

Certificate of Analysis



Client: Nasituq Corp. (Ottawa)  
160 Elgin Street, Suite 400  
Ottawa, ON  
K2P 2C4  
Attention: Ms. Barb Thomson  
PO#:  
Invoice to: Nasituq Corp. (Ottawa)

Report Number: 1314127  
Date Submitted: 2013-07-09  
Date Reported: 2013-07-12  
Project: BAF-3  
COC #: 127355

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
Metals	Cd	0.0001	mg/L		1040425 Water 2013-07-02 B3-W22AB Dissolved
	Co	0.0002	mg/L		
	Cr	0.001	mg/L		<0.001
	Cu	0.001	mg/L		<0.001
	Ni	0.005	mg/L		<0.005
	Pb	0.001	mg/L		<0.001

Guideline = \* = Guideline Exceedence  
\*\* = Analysis completed at Mississauga, Ontario.  
Results relate only to the parameters tested on the samples submitted.  
Methods references and/or additional QA/QC information available on request.

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



02 July 2013  
Summit, Berm of tanks W22A and W22B  
Page 2 of 2

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**Exova**

Client: Nasittuq Corp. (Ottawa)  
160 Elgin Street, Suite 400  
Ottawa, ON  
K2P 2C4  
Attention: Ms. Barb Thomson  
PO#:  
Invoice to: Nasittuq Corp. (Ottawa)

Report Number: 1314125  
Date Submitted: 2013-07-09  
Date Reported: 2013-07-12  
Project: BAF-3  
COC #: 127365

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
General Chemistry	pH	1.00		6.52	1040422 Water
Mercury	Hg	0.0001	mg/L	<0.0001	
Metals	Aqua-Regia Digest		mg/L	y	
	As	0.02	mg/L	<0.02	
	Zn	0.04	mg/L	0.20	
Nutrients	Phenols	0.001	mg/L	<0.001	
Oil & Grease	Oil & Grease - Total	1	mg/L	<1	
PCBs	Polychlorinated Biphenyls (PCBs)	0.1	ug/L	<0.1	
VOCs	Benzene	0.5	ug/L	<0.5	
	Ethylbenzene	0.5	ug/L	<0.5	
	Toluene	0.5	ug/L	<0.5	
	Toluene-d8	1	%	92	

Guideline = \* = Guideline Exceedence

\*\* = Analysis completed at Mississauga, Ontario.

Results relate only to the parameters tested on the samples submitted.  
Methods references and/or additional QA/QC information available on request.

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MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable  
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= Interim Provincial Water Quality Objective, TDR = Typical Desired Range



02 July 2013

Beach, Berm that used to contain tanks W22C and W22D  
(tanks demolished in 2012)

Page 1 of 2

EXOVA OTTAWA

Certificate of Analysis

Exova

Client: Nasittuq Corp. (Ottawa)  
160 Elgin Street, Suite 400  
Ottawa, ON  
K2P 2C4  
Attention: Ms. Barb Thomson  
PO#:  
Invoice to: Nasittuq Corp. (Ottawa)

Report Number: 1314123  
Date Submitted: 2013-07-09  
Date Reported: 2013-07-12  
Project: BAF3  
COC #: 127356

Group	Analyte	MRL	Units	Guideline
Metals	Cd	0.0001	mg/L	<0.0001
	Co	0.0002	mg/L	<0.0002
	Cr	0.001	mg/L	<0.001
	Cu	0.001	mg/L	<0.001
	Ni	0.005	mg/L	<0.005
	Pb	0.001	mg/L	<0.001

Guideline = \* = Guideline Exceedence  
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Results relate only to the parameters tested on the samples submitted.  
Methods references and/or additional QA/QC information available on request.

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= Interim Provincial Water Quality Objective, TDR = Typical Desired Range



02 July 2013

Beach, Berm that used to contain tanks W22C and W22D  
(tanks demolished in 2012)

Page 2 of 2

EXOVA OTTAWA

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**Exova**

Client: Nasittuq Corp. (Ottawa)  
160 Elgin Street, Suite 400  
Ottawa, ON  
K2P 2C4  
Attention: Ms. Barb Thomson  
PO#:  
Invoice to: Nasittuq Corp. (Ottawa)

Report Number: 1314121  
Date Submitted: 2013-07-09  
Date Reported: 2013-07-12  
Project: BAF3  
COC #: 127356

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
General Chemistry	pH	1.00		6.27	
Mercury	Hg	0.0001	mg/L	<0.0001	
Metals	Aqua-Regia Digest		mg/L	y	
	As	0.02	mg/L	<0.02	
	Zn	0.04	mg/L	0.05	
Nutrients	Phenols	0.001	mg/L	<0.001	
Oil & Grease	Oil & Grease - Total	1	mg/L	<1	
PCBs	Polychlorinated Biphenyls (PCBs)	0.1	ug/L	<0.1	
VOCs	Benzene	0.5	ug/L	<0.5	
	Ethylbenzene	0.5	ug/L	<0.5	
	Toluene	0.5	ug/L	<0.5	
	Toluene-d8	1	%	91	

Guideline = \* = Guideline Exceedence  
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Results relate only to the parameters tested on the samples submitted.  
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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

EXOVA OTTAWA 160 Elgin Street, Suite 400, Ottawa, ON K2P 2C4

Document ID: 1314121

## Annex G

### **2013 (Year 7) Remediation and Monitoring Activities of 2007 Jet A1 Fuel Spill**

#### Analytical Results

- Results for untreated effluent from mid-site biopiles, for the final discharge point from the landfarm (Monitoring Station # BAF-3)
- Results for mid-site biopile monitoring wells (Monitoring Station # BAF-5)

#### Other Information

- Excerpts from “BAF-3 2013 Field Season – Monitoring Report # 2” (draft) dated 31 October 2013 by Stantec Consulting Limited:
  - Upper Site: Monitoring Well Location Plan
  - Excerpt from 4.0 Results
  - Excerpt from 5.0 Recommendations



**14 July 2013**  
**Mid-site, Effluent from Biopiles**  
**Page 1 of 2**

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**Exova**

Client: Nasittuq Corp. (Ottawa)  
160 Elgin Street, Suite 400  
Ottawa, ON  
K2P 2C4  
Attention: Ms. Barb Thomson  
PO#:  
Invoice to: Nasittuq Corp. (Ottawa)

Report Number: 1315076  
Date Submitted: 2013-07-17  
Date Reported: 2013-07-22  
Project: BAF-3  
COC #: 171565

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1043026 Surfacewater
Metals	Cd	0.0001	mg/L	<0.0001	2013-07-14 Mid Site Berm Water	
	Co	0.0002	mg/L	<0.0002		
	Cr	0.001	mg/L	<0.001		
	Cu	0.001	mg/L	0.002		
	Ni	0.005	mg/L	<0.005		
	Pb	0.001	mg/L	<0.001		

Guideline = \* = Guideline Exceedence

\*\* = Analysis completed at Mississauga, Ontario.

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

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Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO =  
Interim Provincial Water Quality Objective, TDR = Typical Desired Range



**14 July 2013**  
**Mid-site, Effluent from Biopiles**  
**Page 2 of 2**

**EXOVA OTTAWA**

**Certificate of Analysis**

**EXOVA**

Client: Nasittuq Corp. (Ottawa)  
160 Elgin Street, Suite 400  
Ottawa, ON  
K2P 2C4  
Attention: Ms. Barb Thomson  
PO#:  
Invoice to: Nasittuq Corp. (Ottawa)

Report Number: 1315075  
Date Submitted: 2013-07-17  
Date Reported: 2013-07-24  
Project: BAF-3  
COC #: 171565

Group	Analyte	MRL	Units	Guideline	Lab ID. Sample Matrix Sample Type Sampling Date Sample I.D.	1043025 Surfacewater 2013-07-14 Mid Site Berm Water
General Chemistry	pH	1.00				7.04
Mercury	Hg	0.0001	mg/L			<0.0001
Metals	Aqua-Regia Digest		mg/L			y
	As	0.02	mg/L			<0.02
	Zn	0.04	mg/L			<0.04
Nutrients	Phenols	0.001	mg/L			0.002
Oil & Grease	Oil & Grease - Total	1	mg/L			<1
PCBs	Polychlorinated Biphenyls (PCBs)	0.1	ug/L			<0.1
VOCS	Benzene	0.5	ug/L			<0.5
	Ethylbenzene	0.5	ug/L			<0.5
	Toluene	0.5	ug/L			<0.5
	Toluene-d8	1	%			93

Guideline = \* = Guideline Exceedence

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Interim Provincial Water Quality Objective, TDR = Typical Desired Range



18 September 2013

Mid-site, Effluent from Biopiles (Sample ID "Berm")

Page 1 of 3

EXOVA OTTAWA

Certificate of Analysis

Exova

Client: Nasittuq Corp. (Ottawa)  
180 Elgin Street, Suite 400  
Ottawa, ON  
K2P 2C4  
Attention: Ms. Barb Thomson  
PO#:  
Invoice to: Nasittuq Corp. (Ottawa)

Report Number: 1320796  
Date Submitted: 2013-09-21  
Date Reported: 2013-09-26  
Project: BAF3-Midesite  
COC #: 171597

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1050471 Water 2013-09-19 B3-MW6	1050472 Water 2013-09-19 B3-MW4	1050473 Water 2013-09-19 B3-MW7	1050474 Water 2013-09-19 Berm
Metals	Cd	0.0001	mg/L		0.0018	0.0003	0.0008	<0.0001	
	Co	0.0002	mg/L		0.0002	0.0034	0.0043	0.0045	
	Cr	0.001	mg/L		0.002	<0.001	0.001	<0.001	
	Cu	0.001	mg/L		<0.001	<0.001	<0.001	0.004	
	Ni	0.005	mg/L		<0.005	<0.005	<0.005	<0.005	<0.005
	Pb	0.001	mg/L		0.001	<0.001	<0.001	<0.001	<0.001

Guideline = \* = Guideline Exceedence

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= Interim Provincial Water Quality Objective, TDR = Typical Desired Range



18 September 2013  
**Mid-site, Effluent from Biopiles (Sample ID “Berm”)**  
**Page 2 of 3**

EXOVA OTTAWA

Certificate of Analysis

Client: Nasittuq Corp. (Ottawa)  
160 Elgin Street, Suite 400  
Ottawa, ON  
K2P 2C4  
Attention: Ms. Barb Thomson  
PO#:  
Invoice to: Nasittuq Corp. (Ottawa)

Report Number: 1320795  
Date Submitted: 2013-09-21  
Date Reported: 2013-09-26  
Project: BAF3-Midesite  
COC #: 171597

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1059466 water 2013-09-18 B3-MW6	1059467 water 2013-09-18 B3-MW4	1059468 Water 2013-09-18 B3-MW7	1059469 Water 2013-09-18 B3-MW5
General Chemistry	pH	1.00			6.33	6.34	6.45		
Mercury	Hg	0.0001	mg/L		<0.0001	<0.0001	<0.0001		
Metals	Aqua-Regia Digest		mg/L		y	y	y	y	
	As	0.02	mg/L		<0.02	<0.02	<0.02	<0.02	
	Zn	0.04	mg/L		71.3	61.1	94.8	140	
Nutrients	Phenols	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	
Oil & Grease	Oil & Grease - Total	1	mg/L		<1	<1			
		4	mg/L				<4	19	
PCBs	Polychlorinated Biphenyls (PCBs)	0.1	ug/L		<0.1	<0.1			
VOCs	Benzene	0.5	ug/L		<0.5	<0.5	<0.5	<0.5	
	Ethylbenzene	0.5	ug/L		<0.5	<0.5	<0.5	<0.5	
	Toluene	0.5	ug/L		<0.5	<0.5	<0.5	<0.5	
	Toluene-d8	0	%		104	104	105		
					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1059470 Water 2013-09-18 Berm			
Group	Analyte	MRL	Units	Guideline					
General Chemistry	pH	1.00			6.88				
Mercury	Hg	0.0001	mg/L		<0.0001				
Metals	Aqua-Regia Digest		mg/L		y				
	As	0.02	mg/L		<0.02				
	Zn	0.04	mg/L		0.06				
Nutrients	Phenols	0.001	mg/L		<0.001				

Guideline = \* = Guideline Exceedence

\*\* = Analysis completed at Mississauga, Ontario.

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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



18 September 2013

Mid-site, Effluent from Biopiles (Sample ID "Berm")

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EXOVA OTTAWA

Certificate of Analysis

Exova

Client: Nasittuq Corp. (Ottawa)  
160 Elgin Street, Suite 400  
Ottawa, ON  
K2P 2C4  
Attention: Ms. Barb Thomson  
PO#:  
Invoice to: Nasittuq Corp. (Ottawa)

Report Number: 1320795  
Date Submitted: 2013-09-21  
Date Reported: 2013-09-26  
Project: BAF3-Midesite  
COC #: 171597

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
Oil & Grease	Oil & Grease - Total	1	mg/L	<1	
PCBs	Polychlorinated Biphenyls (PCBs)	0.1	ug/L	<0.1	
VOCs	Benzene	0.5	ug/L	<0.5	
	Ethylbenzene	0.5	ug/L	<0.5	
	Toluene	0.5	ug/L	<0.5	
	Toluene-d8	0	%	105	

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14 July 2013  
Mid-site, Monitoring Wells  
Page 1 of 2

EXOVA OTTAWA

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160 Elgin Street, Suite 400  
Ottawa, ON  
K2P 2C4  
Attention: Ms. Barb Thomson  
PO#:  
Invoice to: Nasittuq Corp. (Ottawa)

Report Number: 1315074  
Date Submitted: 2013-07-17  
Date Reported: 2013-07-22  
Project: BAF-3  
COC #: 171565

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample ID. Guideline	1043021 Groundwater 2013-07-15 MW-4	1043022 Groundwater 2013-07-15 MW-5	1043023 Groundwater 2013-07-15 MW-6	1043024 Groundwater 2013-07-15 MW-7
Metals	Cd	0.0001	mg/L		0.0003	0.0007	0.0009	0.0011
	Co	0.0002	mg/L		0.0003	0.0002	0.0002	0.0002
	Cr	0.001	mg/L		<0.001	<0.001	<0.001	<0.001
	Cu	0.001	mg/L		<0.001	0.002	<0.001	<0.001
	Ni	0.005	mg/L		<0.005	<0.005	<0.005	<0.005
	Pb	0.001	mg/L		<0.001	<0.001	<0.001	<0.001

Guideline = \* = Guideline Exceedence  
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Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO =  
Interim Provincial Water Quality Objective, TDR = Typical Desired Range

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14 July 2013  
Mid-site, Monitoring Wells  
Page 2 of 2

EXOVA OTTAWA

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Attention: Ms. Barb Thomson  
PO#:  
Invoice to: Nasittuq Corp. (Ottawa)

Report Number: 1315073  
Date Submitted: 2013-07-17  
Date Reported: 2013-07-24  
Project: BAF-3  
COC #: 171565

Group	Analyte	MRL	Units	Lab ID. Sample Matrix	1043016 Water	1043017 Water	1043018 Water	1043019 Water
				Sample Type	2013-07-14 MW-4	2013-07-14 MW-5	2013-07-14 MW-6	2013-07-14 MW-7
				Sampling Date				
General Chemistry	pH	1.00			7.17	6.82	6.83	6.81
Mercury	Hg	0.0001	mg/L		<0.0001	<0.0001	<0.0001	<0.0001
Metals	Aqua-Regia Digest		mg/L	y	y	y	y	
	As	0.02	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02
	Zn	0.04	mg/L	9.46	25.9	14.9	39.4	
Nutrients	Phenols	0.001	mg/L		<0.001	<0.001	<0.001	<0.001
Oil & Grease	Oil & Grease - Total	1	mg/L		<1	7	<1	4
PCBs	Polychlorinated Biphenyls (PCBs)		0.1	ug/L	<0.1	<0.1	<0.1	<0.1
VOCs	Benzene	0.5	ug/L		<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	0.5	ug/L		<0.5	<0.5	<0.5	<0.5
	Toluene	0.5	ug/L		<0.5	<0.5	<0.5	<0.5
	Toluene-d8	1	%		95	99	102	102

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18 September 2013

Mid-site, Monitoring Wells (Sample IDs B3-MW6, B3-MW4, and B3-MW7)

Page 1 of 2

EXOVA OTTAWA

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180 Elgin Street, Suite 400  
Ottawa, ON  
K2P 2C4  
Attention: Ms. Barb Thomson  
PO#:  
Invoice to: Nasittuq Corp. (Ottawa)

Report Number: 1320796  
Date Submitted: 2013-09-21  
Date Reported: 2013-09-26  
Project: BAF3-Midesite  
COC #: 171597

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1050471 Water 2013-09-19 B3-MW6	1050472 Water 2013-09-19 B3-MW4	1050473 Water 2013-09-19 B3-MW7	1050474 Water 2013-09-19 Bem
Metals	Cd	0.0001	mg/L		0.0018	0.0003	0.0008	<0.0001	
	Co	0.0002	mg/L		0.0002	0.0034	0.0043	0.0045	
	Cr	0.001	mg/L		0.002	<0.001	0.001	<0.001	
	Cu	0.001	mg/L		<0.001	<0.001	<0.001	0.004	
	Ni	0.005	mg/L		<0.005	<0.005	<0.005	<0.005	<0.005
	Pb	0.001	mg/L		0.001	<0.001	<0.001	<0.001	<0.001

Guideline = \* = Guideline Exceedence

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Methods references and/or additional QA/QC information available on request.

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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



18 September 2013

Mid-site, Monitoring Wells (Sample IDs B3-MW6, B3-MW4, B3-MW7,  
and B3-MW5)

Page 2 of 2

EXOVA OTTAWA

Certificate of Analysis

**Exova**

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Ottawa, ON  
K2P 2C4  
Attention: Ms. Barb Thomson  
PO#:  
Invoice to: Nasittuq Corp. (Ottawa)

Report Number: 1320795  
Date Submitted: 2013-09-21  
Date Reported: 2013-09-26  
Project: BAF3-Midesite  
COC #: 171597

Group	Analyte	MRL	Units	Guideline	Lab I.D.	Sample Matrix	Sampling Date	Sample I.D.	1059466	1059467	1059468	1059469
General Chemistry	pH	1.00							2013-09-18	B3-MW6	2013-09-18	B3-MW7
Mercury	Hg	0.0001	mg/L						<0.0001	<0.0001	<0.0001	
Metals	Aqua-Regia Digest		mg/L			y			y	y	y	
	As	0.02	mg/L			<0.02			<0.02	<0.02	<0.02	
	Zn	0.04	mg/L			71.3			61.1	64.6	140	
Nutrients	Phenols	0.001	mg/L			<0.001			<0.001	<0.001	<0.001	
Oil & Grease	Oil & Grease - Total	1	mg/L			<1			<1			
		4	mg/L							<4		19
PCBs	Polychlorinated Biphenyls (PCBs)	0.1	ug/L			<0.1			<0.1			
VOCs	Benzene	0.5	ug/L			<0.5			<0.5	<0.5	<0.5	
	Ethylbenzene	0.5	ug/L			<0.5			<0.5	<0.5	<0.5	
	Toluene	0.5	ug/L			<0.5			<0.5	<0.5	<0.5	
	Toluene-d8	0	%			104			104	105	105	
					Lab I.D.	Sample Matrix	Sampling Date	Sample I.D.	1059470			
									Water			
									2013-09-18	Bern		
Group	Analyte	MRL	Units	Guideline					6.88			
General Chemistry	pH	1.00										
Mercury	Hg	0.0001	mg/L						<0.0001			
Metals	Aqua-Regia Digest		mg/L			y						
	As	0.02	mg/L			<0.02						
	Zn	0.04	mg/L			0.08						
Nutrients	Phenols	0.001	mg/L			<0.001						

Guideline = \* = Guideline Exceedence

\*\* = Analysis completed at Mississauga, Ontario.

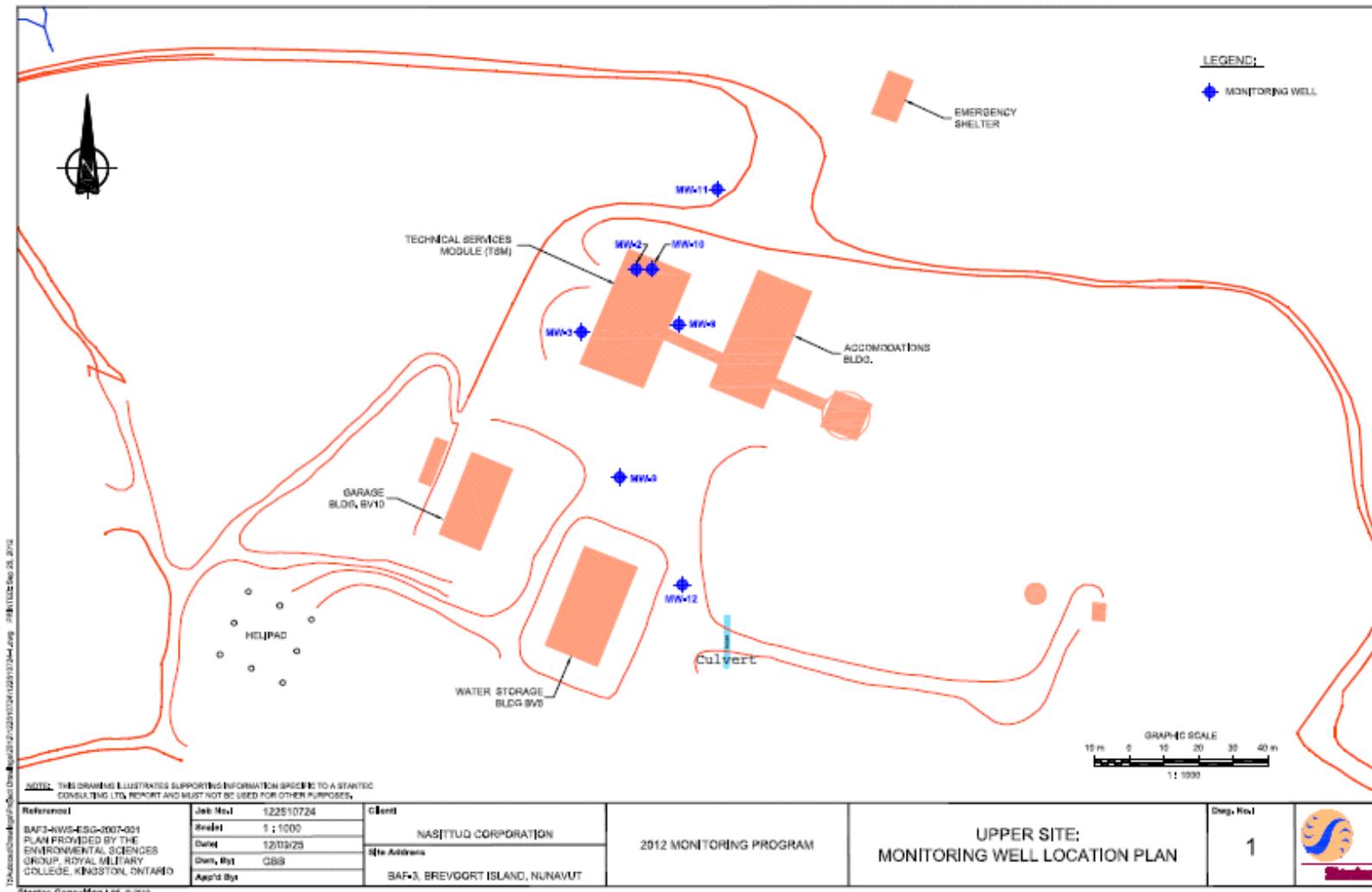
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Excerpts from “BAF-3 2013 Field Season – Monitoring Report # 2” (draft) by Stantec Consulting Limited

- Upper Site: Monitoring Well Location Plan





Excerpts from “BAF-3 2013 Field Season – Monitoring Report # 2” (draft) by Stantec Consulting Limited

#### - 4.0 Results

Stantec’s report, 4.0 Results, 4.1 Upper Site Groundwater Monitoring states “In comparing the results from this sampling event to historical results, it can be seen that, for the original set of wells (MWs 2, 3, 8, 9, and 10), BTEX parameters were generally lower with the exception of results for MW 8, where an increasing trend is shown. Newer wells MW 11 (north of the roadway alongside the TSM) and MW 12 (south of the TSM, just east of the Water Building) show an increasing trend in MW 11 and a flat trend in MW 12 - relative concentrations in MW 11 are still well below those across most of the original wells.”

#### - 5.0 Recommendations

Stantec’s report lists the following recommendations:

- continue to monitor “the apparent migrations of the dissolved PHC plume at the upper site, both northerly and southerly”;
- undertake 2 monitoring visits in 2014; and
- determine the source of the high zinc (total) concentrations in the mid-site monitoring wells and the source of the oil and grease in MW 5.

PHC means petroleum hydrocarbon.