

Certificate of Analysis

Nunatta Environmental Services Inc.

P.O. Box 267
Iqaluit, NU X0A 0H0
Attn: Jim Wilson

Phone: (867) 979-1488
Fax: (867) 979-1478

Client PO:
Project: Land Farm Water
Custody: 11332

Report Date: 20-Sep-2013
Order Date: 16-Sep-2013

Order #: 1338093

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
1338093-01	Black Tank

Approved By:



Mark Foto, M.Sc. For Dale Robertson, BSc
Laboratory Director

Any use of these results implies your agreement that our total liability in connection with this work, however arising shall be limited to the amount paid by you for this work, and that our employees or agents shall not under circumstances be liable to you in connection with this work

Certificate of Analysis

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Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
PAHs by GC-MS	EPA 625 - GC-MS, extraction	17-Sep-13	18-Sep-13

Certificate of Analysis

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Report Date: 20-Sep-2013

Client PO:

Project Description: Land Farm Water

Order Date: 16-Sep-2013

	Client ID:	Black Tank	-	-	-
	Sample Date:	15-Sep-13	-	-	-
	Sample ID:	1338093-01	-	-	-
	MDL/Units	Water	-	-	-

Semi-Volatiles

Acenaphthene	0.00005 mg/L	<0.00005	-	-	-
Acenaphthylene	0.00005 mg/L	<0.00005	-	-	-
Acridine	0.0001 mg/L	<0.0001	-	-	-
Anthracene	0.00001 mg/L	<0.00001	-	-	-
Benzo [a] anthracene	0.00001 mg/L	<0.00001	-	-	-
Benzo [a] pyrene	0.00001 mg/L	<0.00001	-	-	-
Benzo [b] fluoranthene	0.00005 mg/L	<0.00005	-	-	-
Benzo [g,h,i] perylene	0.00005 mg/L	<0.00005	-	-	-
Benzo [k] fluoranthene	0.00005 mg/L	<0.00005	-	-	-
Biphenyl	0.00005 mg/L	<0.00005	-	-	-
Chrysene	0.00005 mg/L	<0.00005	-	-	-
Dibenzo [a,h] anthracene	0.00005 mg/L	<0.00005	-	-	-
Fluoranthene	0.00001 mg/L	<0.00001	-	-	-
Fluorene	0.00005 mg/L	<0.00005	-	-	-
Indeno [1,2,3-cd] pyrene	0.00005 mg/L	<0.00005	-	-	-
1-Methylnaphthalene	0.00005 mg/L	<0.00005	-	-	-
2-Methylnaphthalene	0.00005 mg/L	<0.00005	-	-	-
Methylnaphthalene (1&2)	0.0001 mg/L	<0.0001	-	-	-
Naphthalene	0.00005 mg/L	<0.00005	-	-	-
Phenanthrene	0.00005 mg/L	<0.00005	-	-	-
Pyrene	0.00001 mg/L	<0.00001	-	-	-
Quinoline	0.0001 mg/L	0.007	-	-	-
2-Fluorobiphenyl	Surrogate	93.8%	-	-	-
Terphenyl-d14	Surrogate	65.2%	-	-	-

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Qualifier Notes:

None

Sample Data Revisions

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

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SARNIA
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Sarnia, ON N7T 5T7

OTTAWA • KINGSTON • NIAGARA • MISSISSAUGA • SARNIA

Client Name: NUWATTA ENVIRONMENTAL SERVICES	Project Reference: Land Farm Soil/Water	TAT: ☒ Regular ☐ 3 Day ☐ 2 Day ☐ 1 Day Date Required: _____
Contact Name: JIM WILSON	Quote #	
Address: Box 267, IQALUIT, NU X0A 0H0	PO #	
Telephone: 867-979-1488	Email Address: nunatta@northwestel.net	

Criteria: ☐ O. Reg. 153/04 (As Amended) Table ☐ RSC Filing ☐ O. Reg. 558/00 ☐ PWQO ☐ CCME ☐ SUB (Storm) ☐ SUB (Sanitary) Municipality: _____ ☐ Other: _____

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

Required Analyses

Sample ID/Location Name		Matrix	Air Volume	# of Containers	Sample Taken		FI	BT	TO	N	P	M	P	M	P
					Date	Time	1	S	CI	D	A	+	B	CC	C
1 BLACK TANK		SW	0	1	Sept 15	11:30	X	X			X	mg			
2 CELL # 3 FRONT		S	0	1			X	X	X	X	X	X			
3 CELL # 3 MIDDLE		S	0	1			X	X	X	X	X	X			
4 CELL # 3 BACK		S	0	1			X	X	X	X	X	X			
5 CELL # 4 FRONT		S	0	1			X	X	X	X	X	X	X	X	
6 CELL # 4 MIDDLE		S	0	1			X	X	X	X	X	X	X	X	
7 CELL # 4 BACK		S	0	1			X	X	X	X	X	X	X	X	
8															
9															
10															

Comments: * Same soil parameters as: NO 1323088.

* Analyze Black Tank sample for PAHs (extra bottle for samples submitted on NO 1337170)

Method of Delivery:

First Air

Relinquished By (Sign): <i>Jim Wilson</i>	Received by Driver/Depot: <i>DELOUSE</i>	Received at Lab: <i>SUNDEPORN</i>	Verified By: <i>MC</i>
Relinquished By (Print): <i>Jim Wilson</i>	Date/Time: <i>17/09/13 10:04 AM</i>	Date/Time: <i>SEP 17 2013 10:40</i>	Date/Time: <i>Sept 17/13 11:39</i>
Date/Time: <i>Sept 15 2013</i>	Temperature: _____ °C	Temperature: <i>9.6 °C</i>	pH Verified ☐ By: <i>N/A</i>