

## ***Certificate of Analysis***

### **Nunatta Environmental Services Inc.**

P.O. Box 267  
Iqaluit, NU X0A 0H0  
Attn: Jason Taylor

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

Client PO:  
Project: Landfarm Cell 4  
Custody: 61147

Report Date: 23-Jun-2010  
Order Date: 21-Jun-2010

**Order #: 1026067**

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

<b>Paracel ID</b>	<b>Client ID</b>
1026067-01	Cell 4
1026067-02	Post WTR Cell 4 (48hrs)

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

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Project Description: Landfarm Cell 4

### Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
BTEX	EPA 624 - P&T GC-MS	22-Jun-10	23-Jun-10
CCME PHC F1	CWS Tier 1 - P&T GC-FID	22-Jun-10	23-Jun-10

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Project Description: Landfarm Cell 4

<b>Client ID:</b>	Cell 4	Post WTR Cell 4 (48hrs)	-	-
<b>Sample Date:</b>	21-Jun-10	21-Jun-10	-	-
<b>Sample ID:</b>	1026067-01	1026067-02	-	-
<b>MDL/Units</b>	Water	Water	-	-

## Volatiles

Benzene	0.5 ug/L	<0.5	<0.5	-	-
Ethylbenzene	0.5 ug/L	<0.5	<0.5	-	-
Toluene	0.5 ug/L	99.1	<0.5	-	-
m,p-Xylenes	0.5 ug/L	<0.5	<0.5	-	-
o-Xylene	0.5 ug/L	0.8	<0.5	-	-
Xylenes, total	1.0 ug/L	1.0	<1.0	-	-
Toluene-d8	Surrogate	100%	100%	-	-

## Hydrocarbons

F1 PHCs (C6-C10)	200 ug/L	<200	<200	-	-
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### Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
<b>Hydrocarbons</b>									
F1 PHCs (C6-C10)	ND	200	ug/L						
<b>Volatiles</b>									
Benzene	ND	0.5	ug/L						
Ethylbenzene	ND	0.5	ug/L						
Toluene	ND	0.5	ug/L						
m,p-Xylenes	ND	0.5	ug/L						
o-Xylene	ND	0.5	ug/L						
Xylenes, total	ND	1.0	ug/L						
Surrogate: Toluene-d8	80.8		ug/L		101	76-118			

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### Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
<b>Hydrocarbons</b>									
F1 PHCs (C6-C10)	ND	200	ug/L	ND				32	
<b>Volatiles</b>									
Benzene	ND	0.5	ug/L	ND				20	
Ethylbenzene	ND	0.5	ug/L	ND				35	
Toluene	ND	0.5	ug/L	ND				30	
m,p-Xylenes	ND	0.5	ug/L	ND				34	
o-Xylene	ND	0.5	ug/L	ND				32	
Surrogate: Toluene-d8	80.2		ug/L	ND	100	76-118			

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### Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
<b>Hydrocarbons</b>									
F1 PHCs (C6-C10)	1970	200	ug/L	ND	98.6	68-117			
<b>Volatiles</b>									
Benzene	38.8	0.5	ug/L	ND	97.1	55-141			
Ethylbenzene	39.4	0.5	ug/L	ND	98.5	61-139			
Toluene	39.4	0.5	ug/L	ND	98.6	54-136			
m,p-Xylenes	81.1	0.5	ug/L	ND	101	61-139			
o-Xylene	39.2	0.5	ug/L	ND	98.0	60-142			
Surrogate: Toluene-d8	78.4		ug/L		98.0	76-118			

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### Sample and QC Qualifiers Notes

None

### Sample Data Revisions

None

### Work Order Revisions/Comments:

None

### Other Report Notes:

n/a: not applicable

MDL: Method Detection Limit

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

%REC: Percent recovery.

RPD: Relative percent difference.

*CCME PHC additional information:*

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.
- F1 range corrected for BTEX.
- F2 to F3 ranges corrected for appropriate PAHs where available.
- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.
- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.

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Chain of Custody Record

Nº 61147

Pg. \_\_\_ of \_\_\_

Company Name: Nunatta ENV. Services  
Contact Name: Jason Taylor  
Address: P.O. Box 267 Igloolik Nu X0A 0T0  
Tel: (867) 979-1488 Cell: \_\_\_\_\_  
Email: nunatta@northwestel.net

Project Ref: Land Farm cell 4  
PO# \_\_\_\_\_  
Quote # \_\_\_\_\_ ☐ Not Quoted  
Preservative to be added by Paracel? ☐ Yes ☐ No

Date Required: \_\_\_\_\_

Turn Around Time: ☐ 1-day ☐ 2-day ☐ Regular

Regulatory/Guideline Requirements

Matrix Types: S-Soil/Sed GW-Ground Water SW-Surface Water SS-Storm/Sanitary Sewer A-Air O-Other RDW-Regulated Drinking Water

## Sample Information

## Analysis Required

Paracel Order #

1026067

## Sample Identification

Paracel Order #	Matrix	Air Volume	# Containers	Date Sampled dd/mm/yy	FI - FI	BTx (normal)													Hazardous? (Y/N)
1	cell 4	SW	1	06/21/10															N
2	Post wtr cell 4 (48 hrs)	SW	1	06/21/10															
3																			
4	Unregistered Ingot																		
5																			
6	Only 1 vial submitted per each.																		
7	Only do FI + BTx on each sample per Johnson																		
8																			
9																			
10																			

Comments: \_\_\_\_\_

2 day return time at 50% surcharge

Relinquished By: Jason Taylor  
Date: 06/21/10 Time: 10 AM

Received at Depot:  
Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received at Lab: [Signature]  
Date: June 22, 10 Time: 8:30

Verified By: [Signature]  
Date: June 22, 10 Time: 11:23

Please refer to the back page for Locations and Sample Preservation, Container and Hold Time Requirements.

WHITE - Lab Copy, PINK - Client Copy