

Nunavut Water Board - Notes for Use

Standard Form for Annual Reporting Requirements of NWB2 Exploration Water Licenses

Under the terms of your water licence issued by the Nunavut Water Board ("NWB") for the use of water and the disposal of waste into water associated with mineral exploration (NWB2 Licenses), Licensees are required to submit to the NWB an Annual Report no later than March 31st of the year following the calendar year being reported.

In order to aid the Licensee with the preparation of the Annual Report and facilitate its review by the NWB, Licensees are **required** to use the following form.

Recommendation and Helpful tips for use:

Metric units shall be used to report any relevant data.

How to Add additional space within Text boxes - Right click mouse on the row number (directly to the left of your screen) which falls within the text box range and click insert. **Do not drag or drop text box to modify size of the text box because formatting will not be maintained and data will be lost.** If you have large amounts of data recommend adding additional worksheets. Go to the help menu for assistance.

Electronic versions should be submitted in Adobe to ensure protection of your information. If you do not have shortcut keys to save as a PDF. Go to print menu . Choose to print "Entire Worksheet" then select printer option Adobe PDF and you will be prompted to save the document as a PDF document. Reminder ensure you have saved your document in Excel so that future changes can be made.

Modify the Header - Select "View" then "Header" from the main menu. Select "Custom Header" and change to reflect the valid Water Licence No.

Textboxes denoted with * are optional.

Annual Reports shall be submitted by either fax, mail or email in adobe acrobat or Excel format to:

Nunavut Water Board
c/o Manager of Licensing
P.O. Box 119
Gjoa Haven, NU X0B 1J0
Tel: 867-360-6338
Fax:867-360-6369
Email: licensing@nwb-oen.ca

NWB Annual Report Year being reported: 2025
 License No: NWB 1BR-NUN1828 Issued Date: April 11, 2018
 Expiry Date: April 10, 2028

Project Name: Nunatta Environmental Services Inc. "Landfarm"
 Licensee: Nunatta Environmental Services Inc. "NESI"
 Mailing Address: 1575 Sivumuglaq St.
 Iqaluit,
 Nunavut
 X0A 3H0

Name of Company filing Annual Report (if different from Name of Licensee please clarify relationship between the two entities, if applicable):

General Background Information on the Project Location:
 NESI owns and operates a Hydrocarbon Impacted Soil Landfarm on the outskirts of Iqaluit, Nu. Operations consists of accepting soils impacted with petroleum products at various concentrations at the geosynthetic lined platform and using indigenous soil microorganisms and unique soil farming practices break down compounds into, water, carbon and hydrogen sulphide.

Licence Requirements: the licensee must provide the following information in accordance with

A summary report of water use and waste disposal activities, including, but not limited to: methods of obtaining water; sewage and greywater management; drill waste management; solid and hazardous waste management.

Water Source(s):	Rain and melt water, hydrocarbon contaminated
Water Quantity:	Quantity Allowable Domestic (cu.m)
	Actual Quantity Used Domestic (cu.m)
	Quantity Allowable Drilling (cu.m)
	Total Quantity Used Drilling (cu.m)

Waste Management and/or Disposal

Additional Details: No water was released into the environment 2025

A list of unauthorized discharges and a summary of follow-up actions taken.

Spill No.: (as reported to the Spill Hot-line)
 Date of Spill:
 Date of Notification to an Inspector:
 Additional Details: (impacts to water, mitigation measures, short/long term monitoring, etc)

Revisions to the Spill Contingency Plan

Additional Details: No revisions to the Spill Contingency plan

Revisions to the Abandonment and Restoration Plan

Additional Details: Abandonment and Restoration plan updated

Progressive Reclamation Work Undertaken

Additional Details (i.e., work completed and future works proposed)

Results of the Monitoring Program including:

The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where sources of water are utilized;

Additional Details: No water was drawn from source

The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where wastes associated with the licence are deposited;

Additional Details:

Results of any additional sampling and/or analysis that was requested by an Inspector

Additional Details: No requests by Inspector

Any other details on water use or waste disposal requested by the Board by November 1 of the year being reported.

Additional Details: No request by NWB

Any responses or follow-up actions on inspection/compliance reports

Additional Details: (Dates of Report, Follow-up by the Licensee)

Any additional comments or information for the Board to consider

Date Submitted: February 28, 2025
 Submitted/Prepared by: James H. Wilson for Nunatta Environmental Services Inc.
 Contact Information: Tel: 867-979-1488
 Fax: n/a
 email: jim@nunatta.ca

Soils removed from Landfarm 2025

Project #	Customer	Cu/M
	City of Iqaluit for dump cover	340

Cubic meters

Total removed **340**

LAB RESULT WERE USED TO CONFIRM THIS SOIL WAS GOOD TO BE USED
CIRNAC inspector Sean Nauilaq approved removal of soil

Water/Snow received at Landfarm 2025**SNOW**

Project #	Customer	Cu/m	Date	Contaminant
25-16	Nunavut airport services	3	Feb 17 2026	hydraulic oil
25-15	Northern Properties #5064	66	04/29/2026 Snow	sewage and city says hydrocarbons in sample
25-24	Northern properties #5064	55	3/20/2025 snow	sewage
25-24B	Northview	121	5/1/2025	snow with sewage and city says hydrocarbons
Total cu/M snow received in cu/M water		245 147	Approximatly .6 cubic meters water from each	

WATER

Project #	Customer	Litres	Date	Contaminant
25-31	Northview	22	Summer of 2025 fuel spill cleanup	P50 diesel fuel
25-39	Northview	7	over summer of cleanup fuel spill	P 50 Arctic diesel
cu/L water received 2025 cubic meters of water		29		
Grand total of water received		176		

Soils contained in Landfarm cells freezep 2024

Cell #	Dimension	Cell reference	Soil in progress	Rocks	Protective layer	Total soil contained	Soil remediated and ready to remove.
	Meters		Cu/M	Cu/M	Cu/M	Cu/M	
1	60X30	tipping point cell #1	1200		687	1887	
2	50X25	QEC cell #2	0	10	290	300	
3	90X30	final cell cell#3	0	6	900	900	
4	60X30	fertilized soil Cell #4	3200	60	800	800	
		Totals	4400	76	2677	7153	0

Cell #2 which was to be rebuilt and made bigger. Instead it has been repurposed to contain all the consumables from the Quilliq Energy Plant. We store the oil, solvents and antifreeze to be delivered to the plant as required. The waste from there is brought back and stored in that cell until the following summer when it is shipped south for disposal the following year. Moving and storage is done by Nunatta.

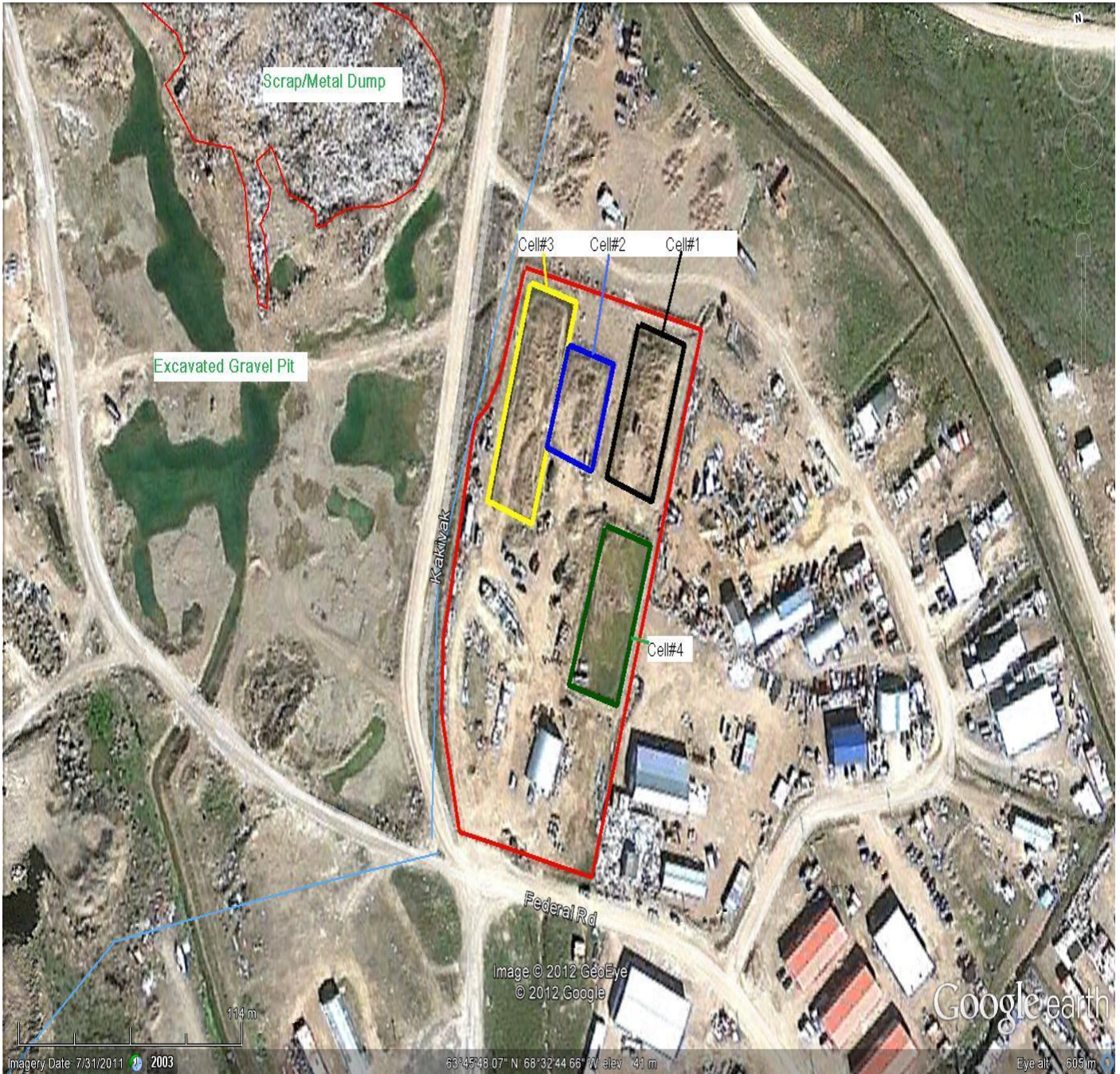
Map Overview



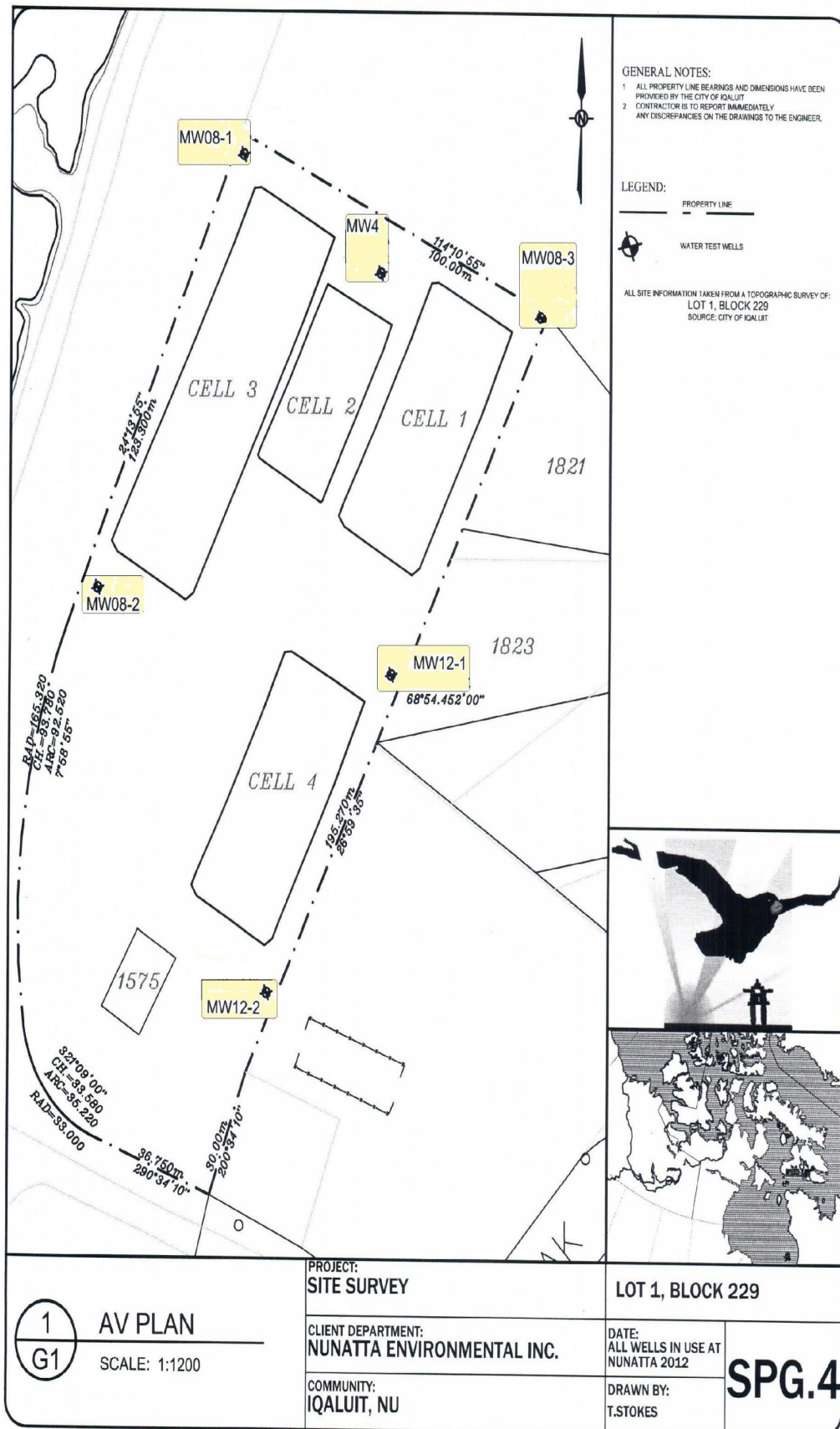
Landfarm



Landfarm Details



Monitoring Well Locations



2025 Monitoring Summary

With the construction of the new Garbage sorting plant down grade from our landfarm we have seen them build the ground level of our lot. This has caused shadows on our wells which are located close to the property line. The other issue is the city has allowed airport and any construction work being done in the city to pile asphalt along our fence and now it is 3 meters above our ground level. The asphalt pile is taller than our 8 foot fence. This was our discharge point for water discharged after it was tested and confirmed good enough to release.

Water pumped within landfarm cells 2025

Date	Action	From	Destination	Litre
May 29	pump	cell #4	totes	21,000
May 30	pump	Cell #4	black tank	56,000
May 31	pump	Cell #4	totes	16,000
			TOTAL PUMPED	93,000 Liters

Water is pumped into pond hole dug into the soil in our cell. This strips the water of hydrocarbons and thaws out the soil faster. It aids in the evaporation of the water in the cell, reducing the amount to be treated on a windy, sunny day we estimate we can evaporate off more than 2000 liters.

Water is pumped as required. If melt is fast we pump more often or if it rains.

This also helps us reduce or eliminate the need for pumping out at seasons end.

No water released in to the environment in 2025

Total pumped	93,000
Total Cu/M	93 cubic meters

Construction of cell #2

In 2013 Nunatta Environmental applied for and was approved for an extension and replacement of liner for cell #2. The cell was used for rocks and cobbles removed from the screening process. The liner used in cell #2 was only 20 mm and Nunatta felt this liner should be brought up to the 30 mm minimum standard & at the same time the cell could be made longer to accommodate our equipment. Nunatta purchased 40 mil liner and #16 cloth to make it better than code. Liner is on site in Iqaluit. Permission was granted for the summer of 2014 construction season but due to cold weather and no place to put all the rocks stored in that cell delayed the work.

Since 2018 Nunatta Staff has been busy dealing with large projects in all parts of Nunavut. To do this work we have to be away during the summer months. When Covid hit we thought this would be a good time to work on the landfarm bringing cell #2 up to code with a new thicker liner. The lockdown of southern travelers made extra work for Nunatta who were on the road all summer doing work in Grise Fiord, Umingmaktok, Bathurst Inlet, Cape Dorset and the landfarm got missed. This trend has continued to 2022 with our staff working remotely most of the summer months. In fall of 2022 Quilliq Energy approached Nunatta to see if they could have all their consumables stored at Nunatta inside a lined cell. This was due in part to the water crisis that happened in Iqaluit over the summer when diesel fuel was found in drinking water samples. It was suggested it might have come from items stored at the Quilliq energy power plant located next to the water treatment plant. So everything was removed from site and oils, glycols, and waste were moved to Nunatta Landfarm cell #2. Since then it has been decided Quilliq Energy was not the cause of the contamination.

In the mean time, Quilliq energy has concluded that it is much easier to have consumables delivered and waste removed when required rather than try to store it all on site. Nunatta has cell #2 full of drums and totes but still has plans to replace the liner should a warm summer with less remote work come into play in the near future. There has been no change in our plans to replace the liner at some point.

TABLE 1
 PARACEL LABORATORIES
 WORKORDER: 2531343
 REPORT DATE: 08/07/2025

CLIENT: Nunatta Environmental Services Inc.
 ATTENTION: Jim Wilson
 PROJECT: Land Farm Spring Samples
 REFERENCE:

Parameter	Units	MDL	Regulation	Sample							
				Land farm cell #1	Land farm cell #1	Land farm cell #1	Land farm cell #1	Land farm cell #1	Land farm cell #1	Land farm cell #1	Land farm cell #1
Sample Date (m/d/y)			Select Reg	07/29/2025 09:00	07/29/2025 09:00	07/29/2025 09:00	07/29/2025 09:00	07/29/2025 09:00	07/29/2025 09:00	07/29/2025 09:00	07/29/2025 09:20
Physical Characteristics											
% Solids	% by Wt.	0.1	REGS	93.6	91.7	92.4	92.0	92.6	92.9	92.6	92.2
Microbiological											
Heterotrophic Plate Count	CFU/g	1000	REGS	NDOGHPC	NDOGHPC	NDOGHPC	NDOGHPC	NDOGHPC	NDOGHPC	NDOGHPC	NDOGHPC
Metals											
Antimony	ug/g dry	1.0	REGS	ND (1.0)	N/A	N/A	ND (1.0)	N/A	N/A	ND (1.0)	N/A
Arsenic	ug/g dry	1.0	REGS	1.9	N/A	N/A	2.0	N/A	N/A	1.5	N/A
Barium	ug/g dry	1.0	REGS	23.9	N/A	N/A	29.2	N/A	N/A	23.7	N/A
Beryllium	ug/g dry	0.5	REGS	ND (0.5)	N/A	N/A	ND (0.5)	N/A	N/A	ND (0.5)	N/A
Boron	ug/g dry	1.0	REGS	3.3	N/A	N/A	1.7	N/A	N/A	1.8	N/A
Cadmium	ug/g dry	0.5	REGS	ND (0.5)	N/A	N/A	ND (0.5)	N/A	N/A	ND (0.5)	N/A
Chromium	ug/g dry	5.0	REGS	21.6	N/A	N/A	23.6	N/A	N/A	19.1	N/A
Cobalt	ug/g dry	5.0	REGS	5.3	N/A	N/A	6.1	N/A	N/A	ND (5.0)	N/A
Copper	ug/g dry	5.0	REGS	14.5	N/A	N/A	13.6	N/A	N/A	9.2	N/A
Lead	ug/g dry	1.0	REGS	4.5	N/A	N/A	7.8	N/A	N/A	3.5	N/A
Lead	ug/g dry	1.0	REGS	N/A	N/A	N/A	N/A	7.3	N/A	N/A	N/A
Molybdenum	ug/g dry	1.0	REGS	1.3	N/A	N/A	1.1	N/A	N/A	ND (1.0)	N/A
Nickel	ug/g dry	5.0	REGS	7.9	N/A	N/A	9.7	N/A	N/A	7.1	N/A
Selenium	ug/g dry	1.0	REGS	ND (1.0)	N/A	N/A	ND (1.0)	N/A	N/A	ND (1.0)	N/A
Silver	ug/g dry	0.3	REGS	ND (0.3)	N/A	N/A	ND (0.3)	N/A	N/A	ND (0.3)	N/A
Thallium	ug/g dry	1.0	REGS	ND (1.0)	N/A	N/A	ND (1.0)	N/A	N/A	ND (1.0)	N/A
Tin	ug/g dry	5.0	REGS	ND (5.0)	N/A	N/A	ND (5.0)	N/A	N/A	ND (5.0)	N/A
Uranium	ug/g dry	1.0	REGS	ND (1.0)	N/A	N/A	ND (1.0)	N/A	N/A	ND (1.0)	N/A
Vanadium	ug/g dry	10.0	REGS	44.1	N/A	N/A	46.9	N/A	N/A	40.6	N/A
Zinc	ug/g dry	20.0	REGS	46.7	N/A	N/A	42.4	N/A	N/A	38.8	N/A
Volatiles											
Benzene	mg/kg dry	0.02	REGS	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)
Ethylbenzene	mg/kg dry	0.05	REGS	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Toluene	mg/kg dry	0.05	REGS	0.07	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
m/p-Xylene	mg/kg dry	0.05	REGS	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
o-Xylene	mg/kg dry	0.05	REGS	0.62	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Xylenes, total	mg/kg dry	0.05	REGS	0.67	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Hydrocarbons											
F1 PHCs (C6-C10)	mg/kg dry	7	REGS	135	62	61	33	65	114	44	61
F2 PHCs (C10-C16)	mg/kg dry	4	REGS	1650	625	544	254	766	2050	568	648
F3 PHCs (C16-C34)	mg/kg dry	8	REGS	821	284	344	67	241	1070	322	141
F4 PHCs (C34-C50)	mg/kg dry	6	REGS	148	51	81	ND (6)	46	249	77	28

NOTE - Cell #3 is empty except for the cover layer (liner) and is being used for storage of waste.

NOTE - Cell #3 is empty except for the cover layer (liner) and is being used for storage of waste.

TABLE 1
 PARACEL LABORATORIES LTD.
 WORKORDER: 2541382
 REPORT DATE: 10/16/2025

CLIENT: Nunatta
 ATTENTION: Jim Wilson
 PROJECT: Nunatta Fall
 REFERENCE: Preferred

Parameter	Units	MDL	Regulation	Sample					
				Cell #4 front Left	Cell #4 front Right	Cell #4 Middle Left	Cell #4 Middle Right	Cell #4 Rear Left	Cell #4 Rear Right
Sample Date (m/d/y)			Select Reg	10/07/2025 08:00	10/07/2025 08:00 AM	10/07/2025 08:00 AM	10/07/2025 08:00 AM	10/07/2025 08:00	10/07/2025 08:00
Physical Characteristics									
% Solids	% by Wt.	0.1	REGS	90.1	90.0	90.7	90.2	90.1	90.2
Microbiological Parameters									
Heterotrophic Plate Count	CFU/g	1000	REGS	Confluent	>200000	>200000	>200000	>200000	>200000
Metals									
Antimony	ug/g dry	1.0	REGS	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Arsenic	ug/g dry	1.0	REGS	2.1	2.4	2.1	2.8	2.6	2.4
Barium	ug/g dry	1.0	REGS	34.5	36.4	34.8	38.3	41.3	40.4
Beryllium	ug/g dry	0.5	REGS	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Boron	ug/g dry	5.0	REGS	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Cadmium	ug/g dry	0.5	REGS	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Chromium	ug/g dry	5.0	REGS	20.5	25.1	24.0	23.7	28.3	26.5
Cobalt	ug/g dry	1.0	REGS	5.5	6.1	6.0	6.4	7.1	7.1
Copper	ug/g dry	5.0	REGS	20.9	18.4	15.9	16.5	17.6	17.8
Lead	ug/g dry	1.0	REGS	6.5	5.4	5.2	5.5	6.3	5.5
Mercury	ug/g dry	0.1	REGS	N/A	N/A	N/A	N/A	N/A	N/A
Molybdenum	ug/g dry	1.0	REGS	1.1	ND (1.0)	ND (1.0)	1.0	1.3	ND (1.0)
Nickel	ug/g dry	5.0	REGS	8.9	9.7	9.5	10.1	10.9	10.9
Selenium	ug/g dry	1.0	REGS	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Silver	ug/g dry	0.3	REGS	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)
Thallium	ug/g dry	1.0	REGS	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Tin	ug/g dry	5.0	REGS	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Uranium	ug/g dry	1.0	REGS	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Vanadium	ug/g dry	10.0	REGS	41.1	49.1	48.1	47.1	55.6	53.4
Zinc	ug/g dry	20.0	REGS	46.9	46.4	44.2	49.2	51.8	48.8
Volatiles									
Benzene	mg/kg dry	0.02	REGS	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)
Ethylbenzene	mg/kg dry	0.05	REGS	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Toluene	mg/kg dry	0.05	REGS	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
m/p-Xylene	mg/kg dry	0.05	REGS	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
o-Xylene	mg/kg dry	0.05	REGS	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Xylenes, total	mg/kg dry	0.05	REGS	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)
Hydrocarbons									
F1 PHCs (C6-C10)	mg/kg dry	7	REGS	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)	ND (7)
F2 PHCs (C10-C16)	mg/kg dry	4	REGS	135	180	153	197	125	203
F3 PHCs (C16-C34)	mg/kg dry	8	REGS	176	142	214	171	131	182
F4 PHCs (C34-C50)	mg/kg dry	6	REGS	52	30	62	55	47	50
F4G PHCs (gravimetric)	ug/g dry	50	REGS	N/A	N/A	N/A	N/A	N/A	N/A

2025 Water Wells Sample Results

During the summer of 2025 no water samples were collected by Nunatta
All wells were either dry or frozen. See explanation below

In the summer of 2023 the City of Iqaluit started construction of a new garbage sorting facility behind and beside Nunatta Environmental. The new building has a very large foot print and includes storage for sea cans, bulk bins, a large inground scale and scale house. In order to drain the property they added to the grade and elevated their land by more than 1 meter. In soing so they left Nunatta Environmental sitting in a hole. The pile snow up against the fence which will melt and run into Nunatta property and might disturb our old cell which has been built with a low berm wall. Now that the city has built up the land it might cause our cells #1 to overtop during the spring freshet. Nunatta will attempt to remove as much snow around the berm to keep this from happening. We do not understand how the city can regrade this lot without consulting Nunatta or understanding they have blocked off the natural drainage of the lands above this facility.

Nunatta was in Baker Lake doing work for the GN when the regrading and changing of the fence happened.

Now our water test wells have been burried even deeper and are shadowed so there is no thawing of the soil at all

On another note the airport had the apron ripped up and fixed then repaved. All of the old pavement has been removed and piled beside our fence on the water discharge side of our lot. The pile of asphalt is now almost 3 meters taller than ground level and it above our fence.

This is causing a lot of drifting snow to collect on and around our cell #3. Since this has been an area we store things it will be difficult to clear all the snow out and we run the risk of overtopping during the spring melt.

TABLE 1
PARACEL LABORATORIES LTD.
WORKORDER: 2532037
REPORT DATE: 08/11/2025

CLIENT: Nunatta
ATTENTION: Jim Wilson
PROJECT: Landfarm Water
REFERENCE: Preferred

Parameter	Units	MDL	Regulation	Sample		
				Black tank	Tote X	Tote O
Sample Date (m/d/y)			Select Reg	08/01/2025 08:30 AM	08/01/2025 08:30 AM	08/01/20
Volatiles						
Benzene	mg/L	0.0005	REGS	ND (0.0005)	ND (0.0005)	ND
Ethylbenzene	mg/L	0.0005	REGS	ND (0.0005)	ND (0.0005)	ND
Toluene	mg/L	0.0005	REGS	ND (0.0005)	ND (0.0005)	ND
m/p-Xylene	mg/L	0.0005	REGS	ND (0.0005)	ND (0.0005)	ND
o-Xylene	mg/L	0.0005	REGS	ND (0.0005)	ND (0.0005)	ND
Xylenes, total	mg/L	0.0005	REGS	ND (0.0005)	ND (0.0005)	ND
Hydrocarbons						
F1 PHCs (C6-C10)	mg/L	0.025	REGS	ND (0.025)	ND (0.025)	ND
F2 PHCs (C10-C16)	mg/L	0.1	REGS	ND (0.1)	ND (0.1)	ND (0.1)
F3 PHCs (C16-C34)	mg/L	0.1	REGS	ND (0.1)	ND (0.1)	ND (0.1)
F4 PHCs (C34-C50)	mg/L	0.1	REGS	ND (0.1)	ND (0.1)	ND (0.1)

Summary of Activities at Nunatta Environmental Services Inc. (NESI)**NWB licence 1BR-NUN-1828 Type "B"**

Landfarm in Iqaluit for 2025 season

Water/ Snow

Snow was brought in from job at 4086 contaminated with diesel fuel this snow was put into a small sub berm inside cell #1 so when it melted the fuel could not run off into the water ditch around the cell berm/ When the water leached through the soil it was stripped of the hydrocarbons and they remained in the soil

Water from job at 2600"E" was delivered and again put into holes in the soil we dug with excavator. this water was allowed to seep through the soil and again stripping any hydrocarbons out and leaving them in the soil

Soils

Soil brought into landfarm this year were treated as we put them into the pile. Treatment was with a fertilizer and it remained there until we ran the soil through the screening plant in September. This screening removes all big rocks and stones over 3 inches then the soil is put into Cell #3 in smaller piles. this allows the soil to breathe and allows water and sun to help in remediating the soil.

This year the city of Iqaluit wanted soil for dump cover. Nunatta samples cell #3 separately so the results could be forwarded to the city for their environmental check. All the soil met their standards and was removed and put taken to the landfill site. In total 800 cubic meters removed from cell #3.

Soil in back of cell #1 has tested clean for last couple years but we have not been able to get to it due to so much soil in front. The plan for 2024 is to clean up the soil in front and remove the soil in back of the cell. It was put here due to cell #3 being over full and we needed to store soil and cell 31 had least amount at the time

Plans for 2024 is to clean up and remove more soil from within the landfarm. Cell #4 is very close and screening it during summer should make it pass and the city can use it in the fall as dump cover

Test Wells

Monitoring wells did not thaw out on the south east end or the south side of the property. Ones on north side are always dry due to excavation practices of the pit next door. The level of the pit floor ranges from 3 to 5 meters below the level of Nunatta landfarm. We test often to see if we can get water in the wells. sometimes we get mud but mostly frozen or no water

Remediation practices

Nunatta Environmental Services has been improving soil remediation practices and each year find ways of reducing the time the soil spends in our landfarm. With these practices of careful monitoring and proper additions to the soil including inoculation of bacteria and enzymes from remediated soil into the new soils, Nunatta has been able to reduce the remediation time to less than 1/2 of what it was 6 years ago.

Information gathered from soil sampling and testing in association with the University of Saskatchewan's Soil Toxicology Department, Nunatta has been able to put them into practice at its landfarm.

We cannot thank Dr. Stephen Sciciliano enough for his assistance and for taking my phone calls and answering my emails over the past few years.