Sanikiluaq Landfill and Sewage Lagoon Report.

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The Sanikiluaq landfill and sewage lagoon complex is located to the north area of the Airport run way. The runway is located at the highest point of the area.

The road connecting the airport to the land fill and sewage lagoon take a few turn leading to the land fill at the north side of the road. About 50 meters from the entrance to the land fill across the way are located about 60 - 220 liters barrel, the barrel contained used oil, glycol, and other unknown liquids. The quantity and type of material stored on the area is unknown.

Evidence of leaking and contaminant is evident in the stain on the ground and the smell of fuels on the air. Beside this section is located and area that contain construction debris like used drywall, studs and old material from demolish houses, adjacent to the area are old pressure tank and stoves. The entire area is located along the depression that ends at the highest point of the sewage lagoon, that means the water from melting snow and rain from the entire area drains down and collect at the sewage lagoon.



Fig #1
The barrels located on the area are old and rusted with evidences of leaking shown by the stain in the ground.



Fig #2
At the center and lower part of the picture the ground is covered by a dark stain. It is suspected that some of the barrels are the contributor to the stains.



Fig #3
The settlement maintainer is standing on a different area to demonstrate the extent of the stain.



Fig #4
Only some of the barrels are placed on pallets, some of the barrels have been shot causing them to leak and rust. At the top of the picture on the way down from the area is the buildings demolition and construction debris.



Fig #5
The entire area is not prepared or designed to store hazardous material.



Fig #6
The label on the tank does indicate the original material that at one point was used to transported lubricant to the community. At this time is missing a cap and it may contain used oil.



Fig #7
The original material that the container carried was corrosive enough that needed to be place on a plastic container.



Fig #8

The water that pass thru the barrels behind the picture, run across the shallow road crossing to the garbage from demolition and construction debris on the way to the sewage lagoon.



Fig #9

The garbage from the demolishing contains everything from pails, to bed frames, stoves, ventilation ducts, drywall and wood. At the top of the picture is the sewage lagoon.



Fig #10
At the end of the construction debries and the beginning of the sewage lagoon are fuel tanks, steal frames, and plastic material.



Fig #11
At the center of the picture are three sewage discharge location used at different time during the year, during the summer is at the centre, later on the fall is at the culver, during the winter is at the right of the picture.



Fig #12
Demonstrate the discharge location near to the flag.



Fig #13
The picture shows some paper and debris from the from the winter discharge.



Fig #14
During the winter discharge leaves debris along the ground prior to enter to the lagoon.



Fig #15
This is the berm that holds the material in the lagoon, the lagoon has never been decanted, and water from the lagoon goes thru the berm at slow rate entering into the wet land. The accumulation of lagoon matter at the berm has created soil that is able to sustain grass that produces an effective filter.



Fig #16

This is a view into the lagoon from the berm at the top part is visible the stock pile of gravel at the end of the run way.



Fig #17

The water on the lower right is the water that passed thru the berm entering into the wet land. At the top part is the demarcation of the wetland. The grass shows the healthy condition of the wetland. The grasses provide the last filtration and polishing of the water



Fig #19
The water after passing thru the berm completes the travel through the wetland reaching the sea after travel a long distance.



Fig #20
Across the road from the barrels is located the land fill, this area have a burning site that is unique to Sanikiluaq, the structure is control burning area on the land fill to prevent the paper from blowing away for the area specially when the burning is happening. The structure use to have door.



Fig #21
Some distance away from the control burn area is this tire dump. The area is located prior to the steel dump.



Fig #22
The steel dump contains mostly vehicles and ATV's and snowmobiles. The vehicles may contain fuels and oil.