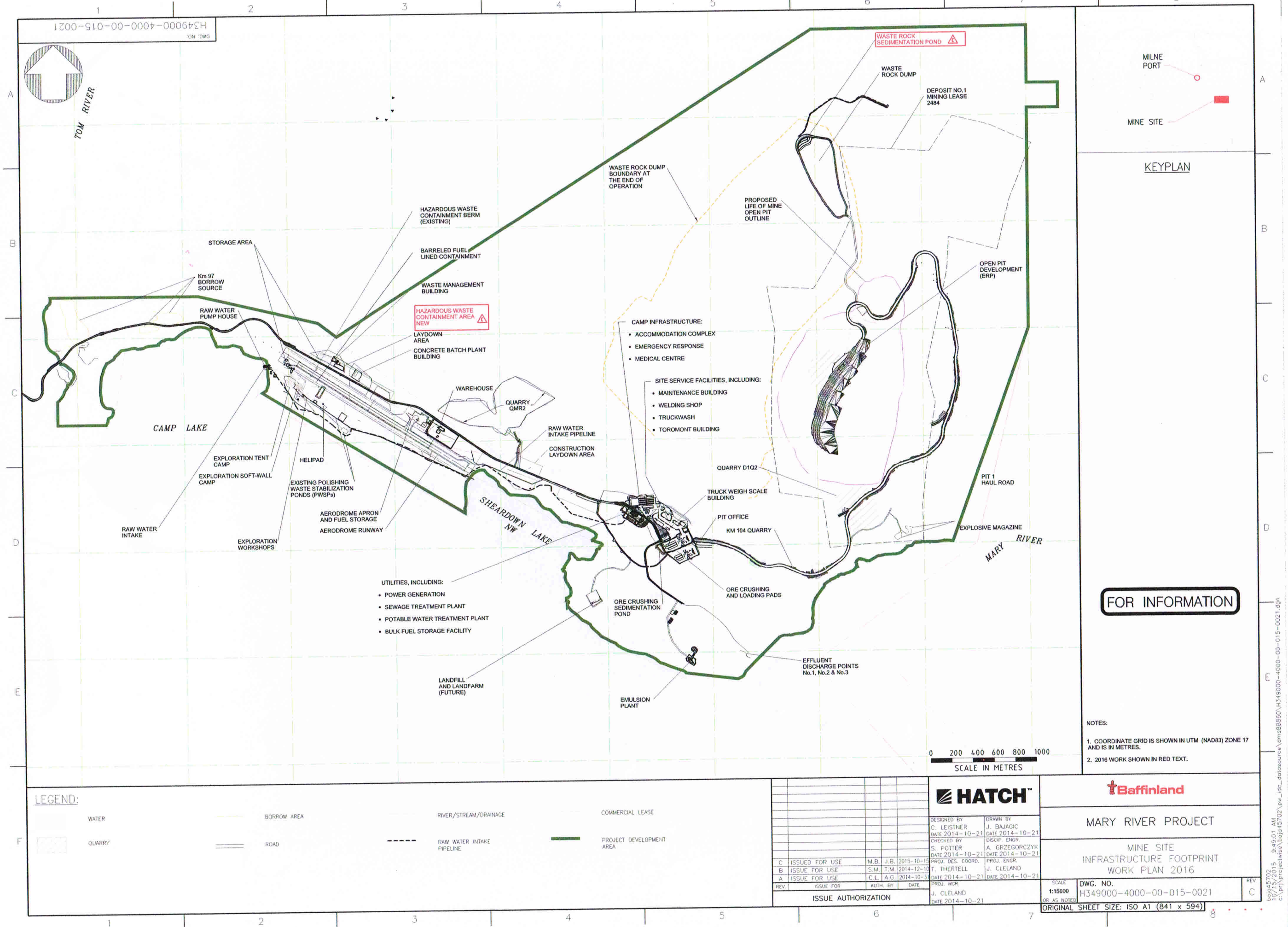

Mary River Drawing



4.0 MILNE INLET

4.01 General

There are still changes taking place at Milne Inlet, since our last inspection in September of last year.

The sediment ponds at the shore that were under construction last season are now operational.

Since our last review, all facilities are fully functional except for minor shortcomings.

4.02 Hazardous Waste Storage (MP-HWB-3 and MP-HWB-4)

General Conditions

This particular structure has been constructed as a two-cell structure and is now only used to store a few items.

A new hazardous waste storage facility has now been constructed near the loadout area for storing hazardous waste to be shipped out and is in full operation at this time.

Stability

There is no water ponding in both cells of the original structure. We are advised that water has been pumped from these structures and sand in the structures is wet.

Our review of the area around the dykes, at the base of the slopes, showed no sign of seepage. The structure is considered stable.

Recommendations

We have no recommendations with respect to the use of these two cells at this time. Prior to our inspection in September, we request that water not be pumped from the structures.

4.03 Fuel Tank Farm

General Conditions

Since both 2012 and 2013 the fuel tank farm has been expanded considerably with the addition of a number of new tanks. No tanks have been added since last season but there is room to place additional tanks.

We note that the sump placed in the containment is still located at the high end of the containment. There is water ponding in the low end of the containment.

Stability

We have minor water ponding at the low end of the containment confirming the integrity of the liner.

Recommendations

We recommend that a sump be considered at to the low point at the north end of the containment, to better facilitate the removal of water to minimize the treatment of water should a minor spill occur within the containment.

4.04 New Effluent Pond (PWSP)

General Conditions

The pond was put into operation in 2014.

The containment pond was operating at approximately sixty-percent of capacity at the time of our inspection.

Stability

We noted no sign of weakness in any of the construction.

Recommendations

We have no recommendations with respect to the use of this structure having no negative comments on the construction of this structure.

4.05 Landfarm Containment

General Conditions

The landfarm containment is complete except for soil cover on the dykes in the area of the sump.

The landfarm was constructed to accommodate approximately 9000 m³ of oil contaminated soil and seasonal water accumulations.

At the time of our inspection the landfarm was in operation and some sorting of contaminated materials had taken place.

There is considerable contaminated waste in the landfarm in addition to contaminated soil. No landfarming of treated contaminated soil has taken place.

It appears as though the structure has been constructed in accordance with good construction practice for structures of this type.

Stability

The structure appears stable as constructed.

Recommendations

We recommend that the remaining dyke structure, without protective cover over it, be covered as per the design drawings. This, however, is not an absolute requirement.

4.06 Contaminated Snow Containment

General Conditions

The construction of the contaminated snow containment structure is contiguous with the east end of the landfarm.

It appears as though the structure has been constructed in accordance with good construction practice for structures of this type.

The snow containment facility has a containment volume of 929 m³ based on estimates of snow volume provided by the owner and only a small percentage of the capacity is utilized.

The structure has been constructed with good quality control.

Stability

The structure appears stable as constructed.

Recommendations

We have no recommendations with respect to this construction at this time.

4.07 Sediment Pond East

General Conditions

The construction of this sedimentation pond for drainage from the east side of the site is complete.

The basin is shaped and the liner has been installed throughout the basin from inlet to the berms on the north side of the basin.

There has been no cover placed over the liner to this point and rip rap has not yet been placed in the outlet weir.

The liner at the inlet has tears and punctures and water can leak out under the liner at this time.

Stability

We still have concerns over the stability of the liner and recommend possibly tire ballast over the liner which appears possibly subject to wind damage. This shall provide a function for used tires.

Recommendations

We recommend review of the use of a ballast (possibly tires) on the exposed liner at the dyke to prevent wind uplift.

We further recommend the re-installation of the liner at the inlet.

4.08 Sediment Pond West

General Conditions

The construction of this sedimentation pond for drainage from the west side of the site is nearing completion except for the west end on the south side where the liner must be "tucked" in as set out in our report last year.

As well, the inlet culvert construction is allowing water to be conducted under the liner and must be repaired.

Stability

We have some concern over the stability of the liner on this pond as we have with the east pond and recommend the further use of tire ballast on the liner.

Recommendations

Complete construction at the inlet structure to ensure contaminated water flows into the containment and not under it.

4.09 Quarry

General Conditions

The quarry was inactive at the time of our review and most blasted rock had been removed from the quarry site.

Stability

Rock faces appear stable.

Recommendations

We have no recommendations to be made with respect to the quarry.

4.10 Loading Area Contaminated Storage (Now MP-HWB-1)

General Conditions

This area has been constructed near the loading dock to facilitate assembly of hazardous materials for shipment out. It appears that all material from the temporary hazardous storage containment have now been assembled here.

Construction appears to have taken place in accordance with standardized drawings prepared in the past.

Stability

Construction appears stable.

Recommendations

We have no recommendations with respect to this structure.

4.13 Fueling Facility Containment

General Conditions

A new fueling facility for the fueling of B trains is under construction utilizing design drawings prepared by our office.

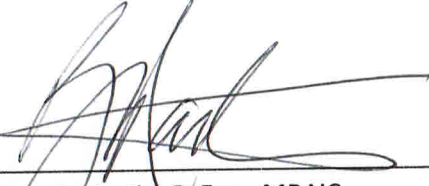
Work conforms to the design drawing.

A second cell is now to be constructed south of the existing.

4.12 Overview

Work on containment structures is now almost complete and only the hazardous waste cells MP-HWB-3 and 4 require decommissioning.

Respectfully submitted,


Barry H. Martin, P. Eng., MRAIC

Milne Inlet Photos



Hazardous Waste Storage MP-HWB-3



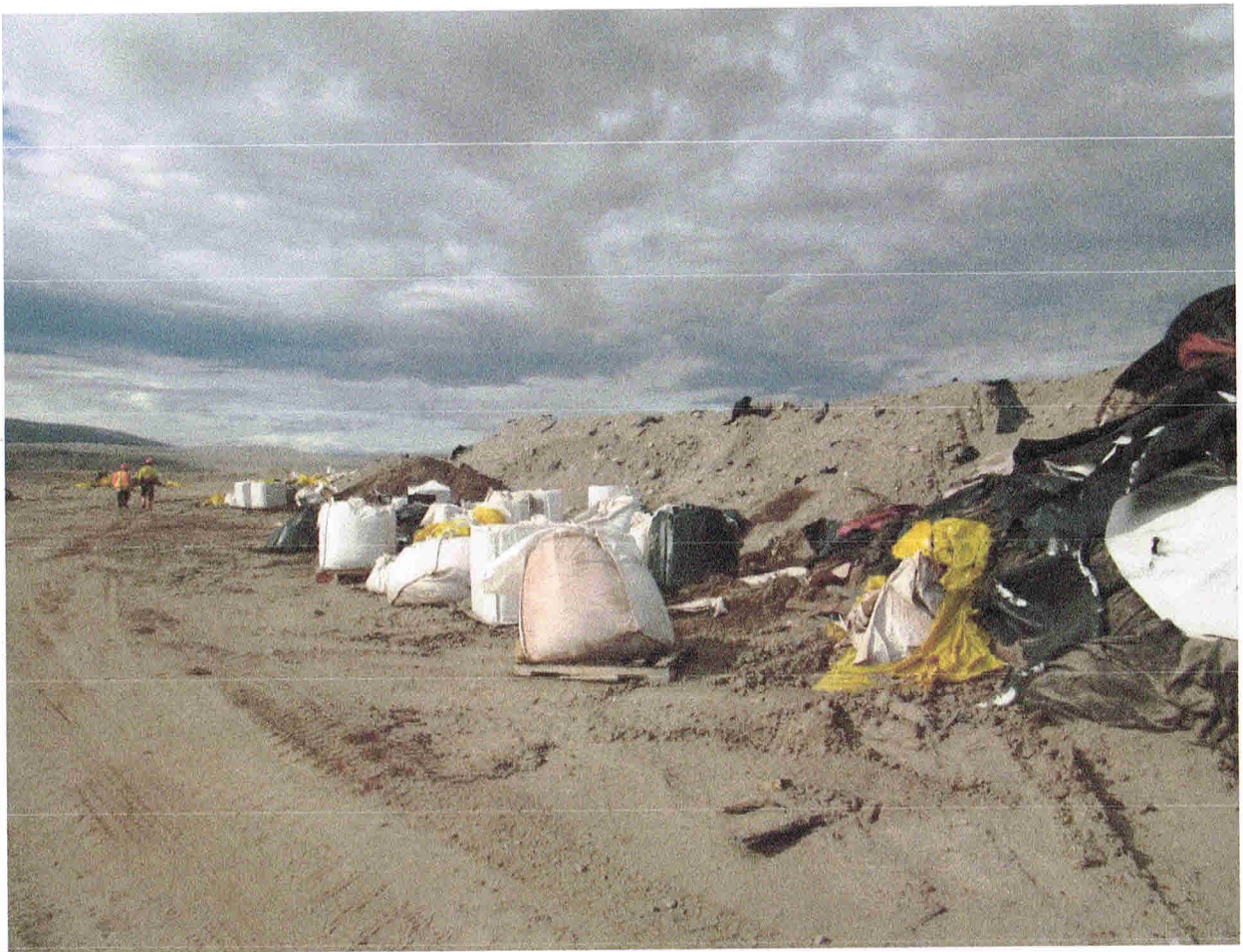
Hazardous Waste Storage MP-HWB-4



Fuel Tank Farm



New Sewage Effluent Pond



Land Farm



Contaminated Snow Containment



Sediment Pond East



Sediment Pond West



Quarry



Loading Area Contaminated Storage MP-HWB-1



Fuelling Facility Containment