

1. Work plan

It would be helpful if Chinook could provide a breakdown of the field activities in sequential order to help us better understand the proposed field work.

Proposed summer 2014 field activities

#	activity (what/how)	purpose/goal (why)	resources (personnel, equipment, supplies)	start (day x)	duration (days)	end point*	contingency*
	Raise level of depression in southwest corner using gravel from NWT source. Will be layered as follows: First layer: Sediment stop (straw material) Second layer: 6 in. rock (larger rock) Third layer: 6 in. minus crush rock (fines) Fourth layer: Approximate 10cm of on-site soil as cover. Fifth layer: C125BN coconut matting and seed application.	To further protect sump contents and prevent potential future erosion	Laborers, helicopter, barge, fill pre-loaded into sling bags, sediment stop rolls	Jul 25	5-10 days (aim for 15-20 bags/d)	Add approx. 0.5m gravel fill to further protect the sump contents. Add approx. 22m ³ of the on-site material as cover over the gravel fill to assist in re-vegetation	Chinook believes the sump contents are currently protected, the addition of fill is taking an extra measure. We believe that the pond could be left as is and not be cause for negative environmental effects.

	Gather remaining fill on-site using laborers to fill sling bags	To add as the fourth layer of fill in the southwest depression	Laborers, helicopter, sling bags, shovels	Jul 22	10 - 14 days (aim for 22 bags total)	Gather approx. 22m ³ of soil from the site to add as top layer in the southwest corner	22m ³ is a conservative estimate for what is required to assist in establishing vegetation. The crew will start filling soil bags with local fill to confirm the resources we identified during the spring visit that are on-site. If during the spring visit in 2015 Chinook determines re-vegetation is not occurring within the depression, other reclamation options are available, such as finding a top fill donor site close to the wellsite. Reclamation options such as this are a last resort as they create further disturbance in other areas.
	Install Nilex erosion control measures including C125BN and Sediment stop	To prevent potential erosion and facilitate re-vegetation	Labourers, C125BN, Sediment Stop, stakes and staples	Jul 25	Ongoing throughout project	C125BN will be rolled out and installed: 1) over the channels in the sump (similar to last year), 2) as the fifth layer covering the fill at the southwest depression of the sump, 3) generally over all disturbed areas	Contingency not required
	Stabilize the south berm using C125BN and willow transplants	To promote re-vegetation and stabilization of the south berm	Laborers, C125BN, willow transplant stems, stakes	Jul 25	2 days	Willow stems transplanted, vegetation taking hold, berm stabilized	Researching options to bring Black Spruce seedlings onto site.

(* end point = how do you determine the activity is complete and the purpose/goal has been achieved; contingency = what is plan B if the anticipated purpose/goal could not be achieved)

In addition, please provide a sketch (or map or photo) indicating the areas the individual activities take place in.

Please also indicate the location of the 'small amount of backfill available on-site' (as per email correspondence from July 4, 2014) on the sketch.

See Figure 2 attached.

2. Fill and cover material

Fill material: Please clarify on how much crush rock Chinook anticipates to haul to the site.

- 90m³ to 110m³ required to fill the depression (July 4, 2014)
- 50m³ (100 sling bags) proposed (July 4, 2014); 'fill material will be pre-loaded into 1m³ sling bags' (June 30, 2014)
- actual volume based on weight restrictions (July 4, 2014)

Chinook anticipates hauling approximately 50m³ of two sizes of rock to site:

- 1) 25m³ of 6in rock (larger rock typically used in gabions)
- 2) 25m³ of 6in less rock (finer rock)

The actual cubic meters of rock hauled to site is dependent on helicopter sling load weight restrictions. 50m³ is a conservative estimate; there will likely be more than 25m³ of the larger rock since a greater volume can be placed into a sling bag while remaining at the 1,800 lbs. weight restriction. The intent of the fill is to add to the protective cap layer and prevent the potential for erosion in the future.

Cover material: Please indicate what volume of cover material there is available on site. Is there sufficient cover material to allow for the establishment of vegetation?

MWH has estimated that 22m³ of cover material will provide for approx. 10 cm of topsoil. This is a conservative estimate. Fill will be sourced from various locations on-site (see Figure 2 attached). Due to weather issues during the 2013 program, the Kubota was not able to move efficiently around the site, which created some areas with a greater amount of fill than required. Please refer to the attached figure for approx. locations of excess fill.

3. Ponding

Diversion of flow from the sump area is desirable; it is however understood that limited ponding may occur during freshet and periods of precipitation.

Noted

4. Trenches

The long term goal is re-vegetation of the trenches, to blend in with the surrounding environment.

Noted, reclamation work is not planned for the trenches at this time. Over time, the trenches should re-vegetate and stabilize naturally. The trenches are assisting with item #3 Ponding.

5. Spill contingency plan

Does Chinook have a contingency plan in place in case of any spills (fuel, equipment fluids)?

Chinook is not planning on bringing equipment to the site other than the helicopter. MWH and Great Slave Helicopters will ensure that a spill kit and portable rubber berm for the fuel cache is available at the barge staging area (where the fuel drums will be staged). MWH and Great Slave Helicopters will abide and follow the Great Slave Helicopter Emergency Response Plan in the event of a spill. Please see the ERP attached.

*The GNWT Department of Lands considers the 2014 Reclamation Plan acceptable with the addition of the above information requests. The end result of Chinook Energy having final closure of their files will not be evident until the site has demonstrated the stability of the project area. **Noted***