

# **Abandonment and Restoration Plan for Karrak Lake Research Station, F-14 Satellite Camp (Karrak River Camp), and Perry River Camp, Nunavut**

**January 2015**

This amended Abandonment and Restoration Plan is in effect as of 1 May 2015. It applies specifically to lands under administration of Environment Canada, located at:

Karrak Lake Research Station: 67° 14' 14" N and 100° 15' 33" W

F-14 Satellite Camp: 67° 21' 09" N and 100° 20' 59" W

Perry River Camp: 67° 41' 41" N and 102° 11' 27" W

## **Final Restoration**

The final restoration at both of the above-mentioned locations will commence once research programs are complete. All work under this plan will be complete prior to the date of expiry of all water licenses, land use, and sanctuary entrance permits. Photos of restored areas will be taken. The details of restoration are as follows:

*Fuel cache:* All fuels (jet a, gasoline, naphtha, lubricating oils and fluids) and empty drums will be removed from the site. Contaminated soil, if present, will be handled as stated in the Spill Contingency Plan.

*Buildings:* All buildings on sites are constructed of lumber, and will be combusted. Open burning is currently not permitted as per Land Use Permit N2014N0021 or Water License 3BC-KAR1316, but as per discussions with Sean Joseph (NWB) and Eva Paul (AANDC) in November-December 2014, we will request permission for open burning of painted lumber for a specified period upon abandonment of sites.

*Chemicals, metals, and other non-combustible materials:* All chemicals such as paints, adhesives, etc., of which there is very little, will be removed from the site. Metal, motors, and other non-combustibles will be shipped to Cambridge Bay or Resolute (c/o Polar Continental Shelf Project) for disposal, or to Environment Canada facilities for surplus.

*Sumps and disposal pits:* Sumps and disposal pits for sewage, non-combustible food waste, and ash are back-filled and leveled annually upon seasonal camp closure, and the same will be conducted at restoration.

## **Progressive Reclamation**

On an annual basis, some progressive reclamation occurs. Empty fuel drums, propane cylinders, non-combustible household trash (glass, tin), non-functional motors (except those saved for parts), and hazardous materials (spent batteries) are shipped to Cambridge Bay, Resolute, or Saskatoon, Saskatchewan, for disposal or recycling. Disposal pits are back-filled regularly throughout the season; recolonization of these areas by vegetation is less than 5 years post-disturbance.

## **Seasonal and Interim Closure**

*Fuel cache and hazardous materials:* Small amounts of fuel remaining in drums are consolidated into one drum; empties are stacked to facilitate removal from the field site in the following spring. All fuel pumps are removed from drums, and stored in buildings. All jerry cans and other hazardous materials (e.g., lubricating oils) are stored in buildings.

*Buildings:* Motors, canoes, water tank, weather station, wind generator blades, clotheslines, etc. are stored in buildings. Windows and doors on all buildings are fitted with plywood covers with extruding nails (“bear windows/doors”).

*Sumps and disposal pits:* Disposal pits are back-filled and leveled regularly throughout the season. Boulders extracted from pits during their creation are piled on top of leveled pits.

*Boats:* Boats are removed from water and stored upside down about 50 m from the nearest high-water mark. Motors are stored in buildings.

### **Contact Personnel**

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