Remediation of a PCB-impacted Former Radar Station

TYPE OF CLIENT:
Government

COST ($CAN):
- ❑ < 500 K
- ❑ 0.5 – 1 M
- ❑ 1 – 5 M
- ☑ 5 – 10 M
- ❑ > 10 M

BACKGROUND

The restoration of this former radar station presented many challenges: it was a multi-tasked project involving the remediation of hazardous soil, site decommissioning and civil engineering work. It was also performed in a remote area with no road access and characterized by a northern climate which dictated a very short time frame for project completion. As the project was implemented in a native community, another challenge was to maximize the local economic benefits of the project, notably by utilizing local services, equipment and manpower.

SERVICES

- Overall project management, including detailed project planning, securing all necessary permits, on-site project and subcontractor management as well as reporting;
- Preparation of a site-specific Health & Safety Program, Emergency Response Plan, Personnel Exposure Monitoring Program and Worker Orientation Seminar;
- Recruitment and training of 30 local workers from the native community.

Site Decommissioning
- Demolition of a generator, a concrete slab and footings;
- Removal, handling and final disposal of asbestos-containing material;
- Landfill of construction and site debris;
- Decommissioning of an underground pipeline;
- Removal of PCB-contaminated coating on three diesel generators and disposal at an approved facility;
- Cleaning, transportation, dismantling and recycling of three diesel generators.

Site Remediation
- Excavation, segregation, containerization (in custom-made 3.1 m^3 steel containers), transportation by barge and shipping of 6,000 tons of hazardous PCB-contaminated soil (>50 ppm) to an off-site thermal treatment facility;
- Landfill of 5,000 yd^3 of PCB-contaminated soil (<50 ppm);
- Placement for treatment with an *ex situ* Biopile process of 2,500 m^3 of hydrocarbon-contaminated soil;
- Treatment of 9 M liters of PCB-contaminated groundwater and surface water runoff utilizing an activated carbon system.

Civil Engineering Work and Landscaping
- Off-site construction of a 5,500 m^3 engineered landfill and landfill cover;
- Supply, placement and compaction of 15,000 m^3 of grading and fill material.

The successful implementation of this very challenging project highlights Biogenie's ability to provide creative and customized solutions and clearly demonstrates its outstanding project management capabilities.