

Cell 1 excavation complete at long-term waste management facility

With excavation of the first cell in the engineered aboveground storage mound complete and installation of the highly engineered base liner now underway, the Port Hope Project remains on track to start cleaning up the historic low-level radioactive waste in the Municipality of Port Hope in 2018.

The site of the long-term waste management facility in Port Hope has been the centre of significant construction activity since last spring, when the general contractor, ECC/Quantum Murray LP, finished site preparation work and began bringing in more equipment, materials and construction crews to build Cell 1. In addition to the excavation work, perimeter berms around the facility have been

built. Currently, the high-quality clay that lines the cell is being installed and compacted, and truckloads of other specially designed materials for the



The mound's clay liner is being compacted by machinery known as a "sheep's foot roller."

mound's base liner system are being delivered and stockpiled on the site so that work can begin quickly after any shutdown required to maintain the integrity of the liner in winter.

The clay liner is critical to the mound's performance, as it works with other components to encase the waste within the mound and prevent contaminated water from entering the environment. Compaction of the clay will be followed by installation of additional manufactured layers and a leachate collection system to pump contaminated water out of the mound for treatment at the recently built waste water treatment plant on site.

The first of four cells in the engineered aboveground mound, Cell 1 will also provide long-term storage for approximately 450,000 cubic metres of waste currently located at the site. The contract to build the

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PHAI generating regional business opportunities

As contracts continue to be awarded for the Port Hope Project, the PHAI Management Office and its contractors are generating business opportunities for regional companies.

ECC/Quantum Murray LP, the prime contractor for the site preparation and construction of Cell 1 of the aboveground mound, has already awarded over \$6.5 million in subcontracts.

Examples include:

- Clay for the engineered base liner system: St Marys Cement, Bowmanville
- Aggregate construction material hauling: James Dick Construction and Turk Valley Common Fill, GTA
- Cell construction materials: Scarborough Supply, Whitby and Terrafix, GTA

The Property Radiological Survey investigations by ARCADIS have generated almost \$220,000 worth of local business in the past year, including accommodations and meals, car rentals, landscaping, hardware supplies and cleaning services.



In addition, contracts generated by the PHAI Management Office, have benefitted area businesses. For example:

- Bailey's Automotive of Port Hope provides vehicle maintenance/repairs for the PHAI fleet
- Randall's Office of Baltimore supplied furniture and renovation materials
- Ongoing printing services are provided by Richard's Printing of Port Hope

The PHAI will continue to create economic opportunities throughout the region in the form of jobs, supplies and services as the project advances over the next several years.

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remaining cells is expected to be awarded early next year.

While construction is underway, the contractor must adhere to stringent health and safety plans, as required by the PHAI under the

Canadian Nuclear Safety Commission licence for the Port Hope Project. Contractor requirements for the protection of the public, workers and the environment include radiation protection, dust management, occupational health and safety, and traffic management.

PHAI and Cameco: A co-operative cleanup

It was standing-room only during a public information session that explained the co-ordination of the work associated with the PHAI cleanup of historic low-level radioactive waste and Cameco's site renewal in the Port Hope Harbour waterfront area. PHAI activities include removal of contaminated sediment in the harbour and remediation of the Centre Pier.

Cameco is conducting work through Vision in Motion, its project to decommission former processing wastes and facilities and revitalize its



waterfront property. Through close cooperation, the PHAI and Cameco are determining the most efficient ways to complete the work, while minimizing impacts on the community.

Property Radiological Survey: campaign update

To date, almost 4,000 properties are involved in some aspect of the Property Radiological Survey, which will test approximately 4,800 properties in Port Hope for the presence of historic low-level radioactive waste. Here's an update on where we are in the five campaigns:

CAMPAIGN 1 – Survey Complete

Site-specific remediation designs are underway for the 45 properties confirmed to have waste; in total, 430 properties were tested.

CAMPAIGN 2 – Fieldwork Complete

Radiological results for 800 properties are expected shortly.

CAMPAIGN 3 – Fieldwork Underway

Fieldwork has begun for interior and exterior gamma radiation scans and borehole drilling/soil sampling at 1,250 properties.

CAMPAIGN 4 – Radon Monitoring

Radon monitors have been deployed at 1,250 properties and will remain in place for approximately six months.

CAMPAIGN 5 – Under Development

Planning for testing the remaining 1,250 properties is underway.

The importance of a Compliance Letter

Perhaps you feel you don't need to participate in the Property Radiological Survey because you think your property doesn't have waste. As important as it is to confirm where the waste is, it is equally important to confirm where it isn't.

Ninety per cent of properties are not expected to require a cleanup, and those property owners will be issued Compliance Letters stating that their property meets PHAI Clean-up Criteria and requires no further investigations or monitoring. A Compliance Letter is

important if you plan to sell, bequeath or renovate your home, and can only be issued for properties at which all PHAI testing has been completed.

If your property does not meet PHAI Clean-up Criteria, it will be cleaned up – at no cost to you – and a Compliance Letter issued.

If you have declined to participate in the Property Radiological Survey, please reconsider participating now and contact the PHAI at 905.885.0291.

Community members encouraged to join Citizen Liaison Group

The PHAI Management Office is accepting applications for the 2017 Port Hope Project Citizen Liaison Group (CLG). The deadline for applications is December 9, 2016.

The CLG attracts community members with an interest in learning about the project and providing feedback to the PHAI Management Office. Joining as members-at-large or as representatives of community groups or associations, the volunteers reflect broad perspectives and diversity from sectors including the environment, conservation, business, industry, education, health, recreation and general community life.

Members serve for a two-year term, with the option to extend for a maximum term of four years. No special knowledge about the PHAI is required, and anyone over the age of 18 may apply.



In August, CLG members participated in on-site field demonstrations to increase their understanding of how the PHAI conducts various types of environmental monitoring.

To apply to the CLG, visit www.phai.ca

Recent events



For the 14th year, the PHAI had a booth at the 2016 Port Hope Fall Fair in September where PHAI staff spoke with community members and shared information about current project activities.



The PHAI officially broke ground on July 6, 2016 at the site of the Port Hope Project Long-Term Waste Management Facility. The ceremony marked the start of construction of the first cell of the engineered aboveground mound where historic low-level radioactive waste will be safely stored for the long term.

Photo (l. to r.): Tim Stemp, Quantum Murray; Paul Hunt, ECC; Dr. Shannon Quinn, AECL; Mayor Bob Sanderson, Municipality of Port Hope; Kim Rudd, Parliamentary Secretary to the Minister of Natural Resources and MP for Northumberland - Peterborough South; Craig Hebert, PHAI; and Kurt Kehler, CNL

Coming up soon...

Canadian Nuclear Safety Commission holds public meeting to receive update on PHAI projects

November 10, 2016

Town Park Recreation Centre
62 McCaul Street, Port Hope

Public Attitude Survey now underway

A telephone public attitude survey is now being conducted in Port Hope, on behalf of the PHAI, by CCI Research Inc. Please participate – your feedback is important.