

Cell 1 construction begins this spring

Work will begin this spring to build the first storage cell of the Port Hope Project engineered aboveground mound, clearing the way for the cleanup of historic low-level radioactive waste once the cell is ready to receive waste in 2018.

Cell 1 will be the first of four cells in the engineered aboveground mound, which has been designed to safely isolate the low-level radioactive waste from the environment. The mound will encase the waste on the top, bottom and sides in multiple, thick layers of natural and specially manufactured materials. Its performance will be closely monitored during construction and for hundreds of years into the future to ensure its safety. Construction of the highly engineered cell is expected to take about 15 months.

Although the site is an existing low-level radioactive waste storage facility, recently completed work at the site will permit construction of the cell to take place in a non-radiological zone. Earlier this year, contractors working



Preparing the site: PHAI contractors removed low-level radioactive waste this past winter from the area where Cell 1 will be built.

on behalf of the Port Hope Area Initiative (PHAI) relocated low-level radioactive waste from the area where the cell will be built, stockpiling it on the site. The radiological-free area will provide space for support buildings and clean access for workers and construction vehicles.

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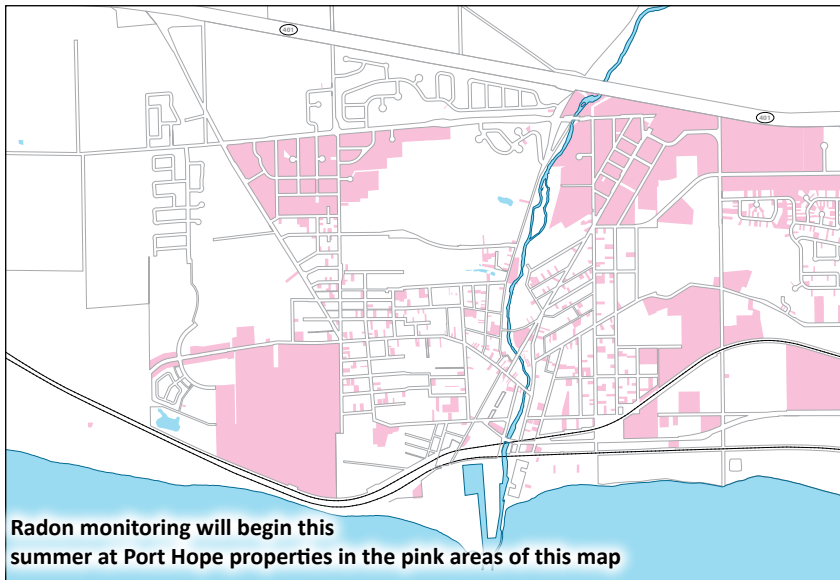
**Tour the new Port Hope Project
Waste Water Treatment Plant**

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Campaign 4 radon monitoring set to begin this summer



If your property is in a pink area on this map, you are one of 1,250 property owners included in Campaign 4 of the Property Radiological Survey. Radon monitoring is scheduled to begin at these properties in late summer.

The PHAI Management Office has sent consent forms and information packages to all Campaign 4 property owners. In mid-summer, contractors working on behalf of the PHAI will begin contacting property owners who have returned their signed forms to schedule an appointment to install the radon monitors, which will remain in place for six months.

As a personal security measure, each property has been issued a Site Identification Number that will be used during all communications between the property owner and the survey team.

Survey staff will also wear a badge and clothing that identifies them as a PHAI contractor.

Radon is the first of four investigations in each campaign. Over the course of five campaigns, the Property Radiological Survey will test all 4,800 properties in urban Port Hope and a few in the rural area for the presence of historic low-level radioactive waste.

The PHAI Management Office measures radon in

buildings because elevated levels may indicate the presence of historic low-level radioactive waste in the ground around or under the building.

If radon monitoring reveals levels above Health Canada guidelines, and historic low-level radioactive waste is confirmed as the source of the radon, the PHAI Management Office will take steps to reduce radon levels until the waste is removed. When elevated radon is confirmed as being naturally occurring, and not the result of historic low-level radioactive waste, the PHAI Management Office will provide guidance to the property owner about steps that can be taken to reduce the levels.



Radon monitors will remain in place for six months

Campaign Update

With the launch of Campaign 4, approximately 4,000 properties will be involved in some aspect of the Property Radiological Survey. Here's an update on where we are in the five campaigns:

- **Campaign 1/Complete:** All testing at the first 430 properties is complete. Design work to plan the cleanup and restoration of approximately 45 properties, which have been identified as having historic low-level radioactive waste, is scheduled to begin this summer.
- **Campaign 2/Radon Monitoring Complete:** Fieldwork is underway at the 800 properties in this campaign and involves interior and exterior gamma radiation scans and borehole drilling/soil sampling.
- **Campaign 3/Radon Monitoring Complete:** A total of 1,450 properties have been tested for radon and the results provided to the property owners. The remaining tests are scheduled to begin this fall.
- **Campaign 4/Consent Forms Underway:** Consent forms and information packages have been sent to owners of 1,250 properties (see map). Radon monitoring is scheduled to begin in late summer.
- **Campaign 5/Under Development**



Soil sampling



Borehole drilling



Interior gamma scanning



Advanced technology was used to collect and map data along road allowances

Phase 1 road allowance testing complete

Radiological investigations that began last October on approximately 175 Port Hope road allowances and laneways are complete, with final reports expected by late summer. Follow-up borehole drilling/soil sampling will be scheduled for 2017. The road allowances surveyed were previously identified in 2001 as potential locations of historic low-level radioactive waste.

Flagging the way



Flags are used to mark utility locates

PHAI contractors are conducting Campaign 2 testing at properties throughout Port Hope. Prior to the work – which includes borehole drilling/soil sampling – the buried utilities that service each property must be located and marked so the contractor can avoid them. These locations are identified by flags and, sometimes, with spray paint. The flags will be removed by the contractor once the fieldwork is complete and it has been confirmed that no further drilling is required.

To ensure that the contractor is able to complete the work efficiently, please leave the flags and paint in place – just as the contractor has left them. Children and pets should be kept away from the locate markers.

Designing a cleanup: from planning to restoration

This summer, the PHAI Management Office will begin planning the cleanup and restoration of approximately 45 residential properties. Campaign 1 investigation results identified these properties as having historic low-level radioactive waste.

To minimize disruption to the community, the cleanup will be planned on a neighbourhood-by-neighbourhood basis, integrating the work at residential properties with the remediation of nearby major sites and road allowances, wherever possible.

The Port Hope Project timeline shows work currently underway – such as the Property Radiological Survey and the start of construction of the engineered aboveground mound – and work that will take the project through to completion – the cleanup and restoration of major sites, residential properties and specified industrial waste sites.

Three “known sites” – the former St. Mary’s School, Caroline Street Park and the Peter Street Interim Storage Mound – will also be included in these plans.

Approximately 375 of the 4,800 properties being tested are expected to require some degree of cleanup – from a small quantity of dirt to more extensive work, including interior remediation at some properties.

When the neighbourhood design packages have been completed, the PHAI Management Office will work with each owner to enter into an agreement to carry out the remediation and restoration of the property.

The cleanup is scheduled to begin in 2018, once the long-term waste management facility is ready to receive waste, and will continue for several years.



Schedule based on information as of April 2016 and subject to change

¹ Pine Street North, Sewage Treatment Plant, Centre Pier

² Abandoned pipeline, former St. Mary’s School property, Caroline Street Park, Peter Street Mound

³ Estimated 53,250 cubic metres of industrial waste as defined by Legal Agreement

* Ongoing monitoring and maintenance following mound closure

CLG welcomes new members



Joint CLG Orientation: Members of the 2016 Port Hope Project CLG and Port Granby Project CLG toured the Port Hope Harbour future clean-up site during an orientation session in February.

Five area residents, reflecting a cross-section of community interests, have joined the Port Hope Project Citizen Liaison Group (CLG), as a result of the latest recruitment campaign. The volunteer group provides the PHAI Management Office with community perspectives on the cleanup and safe long-term management of historic low-level radioactive waste in Port Hope.

Joining the CLG are:

- **Dan Bulger:** Representative, Northumberland Hills Association of Realtors
- **Amanda Yakiwchuk:** Representative, Port Hope Rotary Club
- **Judith Schroder:** Citizen at large, retired teacher
- **Stan Muldoon:** Representative, Pine Ridge Hiking Club
- **Dawn McArthur:** Representative, Joint Parent Council, Port Hope High School/Dr. Hawkins Sr. Public School

The new members join seven returning CLG members - Britt Earl, Terry Holmes, Robert Trew, Will Lambert, Janette Laffin, Brian Maxwell and Bree Nixon - to serve a minimum two-year term.

The PHAI will begin its next CLG recruitment this September, so please watch for information at www.phai.ca or phone the Project Information Exchange for an application.

Tour the Waste Water Treatment Plant



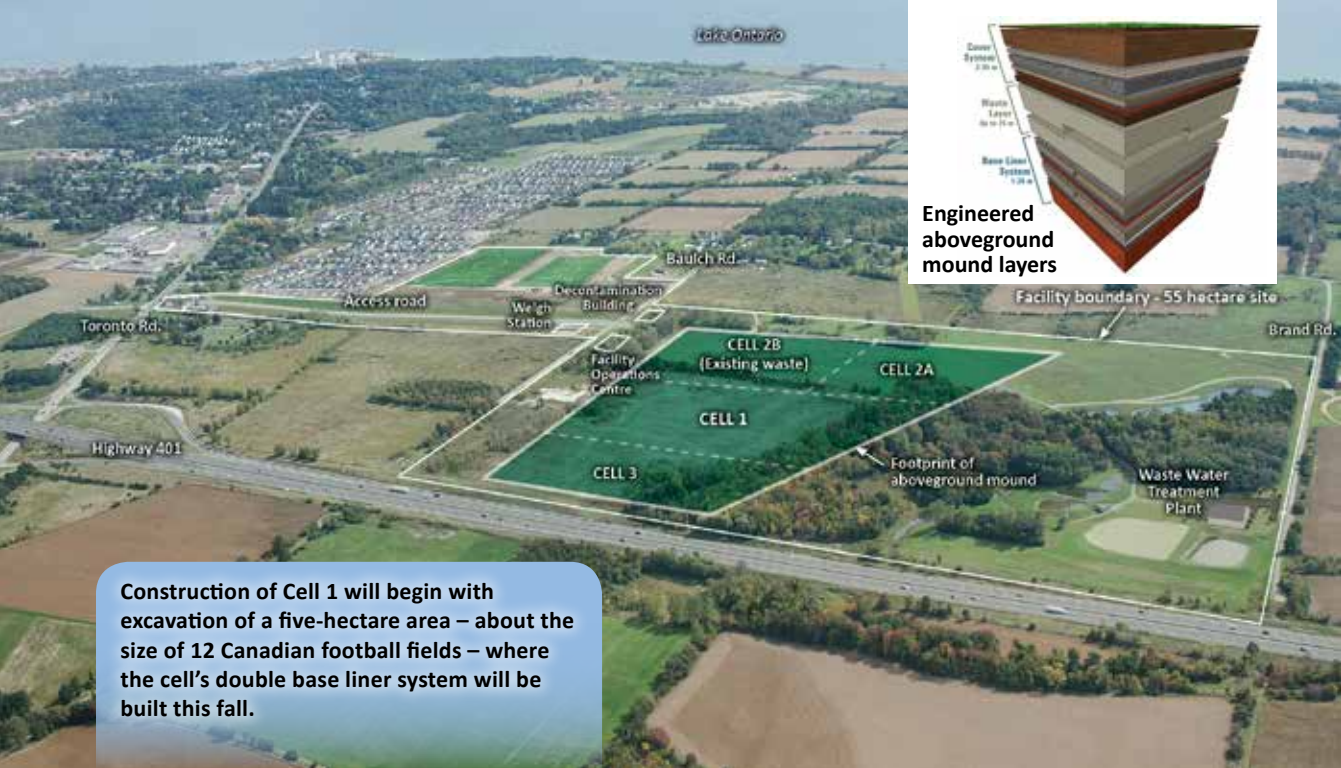
Join PHAI staff for a first-hand look at the new Port Hope Project Waste Water Treatment Plant.

When: Friday, April 22 and Saturday, April 23, 2016

Where: Port Hope Project Waste Water Treatment Plant

To sign up, please phone the PHAI Management Office by April 20 at 905.885.0291 or email us at info@phai.ca

Space is limited, and only registered participants will be permitted to join a tour.



...Cell 1 construction continued from pg. 1

The contractor will be required to adhere to stringent health and safety plans, in compliance with the Canadian Nuclear Safety Commission licence for the Port Hope Project. Contractor requirements for the protection of the public, workers and the environment include dust management, occupational health and safety, radiation protection and traffic safety plans.

Completion of Cell 1 of the engineered aboveground mound will enable the cleanup of historic low-level radioactive waste to begin in 2018. Waste from various sites in Port Hope will be consolidated and safely stored for hundreds of years in the long-term waste management facility. The waste is the result of Eldorado's radium and uranium refining operation in Port Hope between the 1930s and 1950s.

Port Hope Area Initiative Project Information Exchange

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