Overview of the Low-Level Radioactive Waste Management Office and Activities Across Canada



6 March 2003





THE LLRWMO

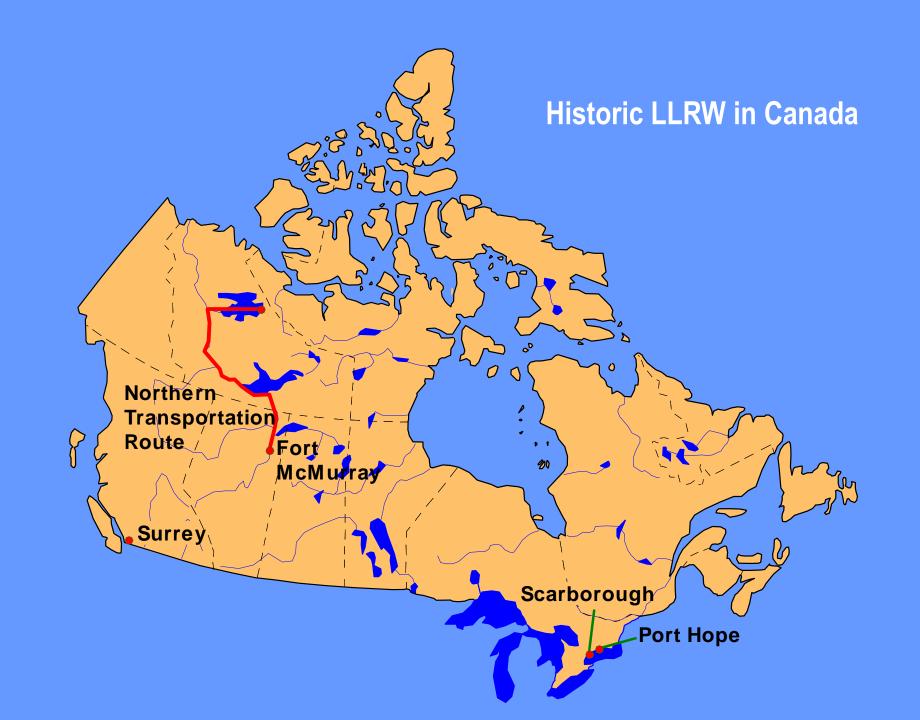
The Low-Level Radioactive Waste Management Office (LLRWMO) is currently celebrating its 20th anniversary as Canada's agent for the cleanup and long-term management of Historic LLR Waste.



Historic LLR Waste is defined as:

- Low-level radioactive waste for which the original producer cannot reasonably be held responsible.
- The federal government of Canada has accepted responsibility for Historic LLR Waste.

These wastes are found at locations across Canada.

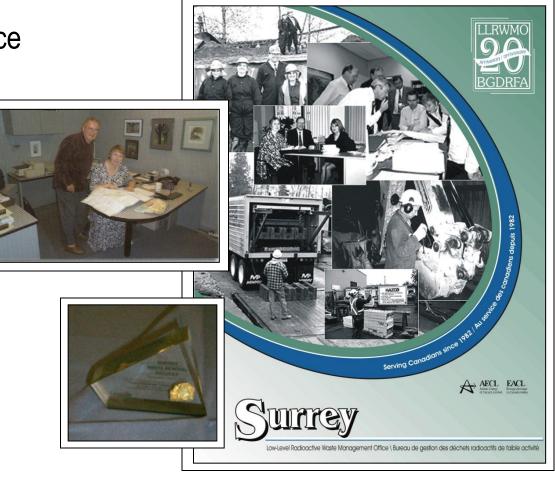




Surrey

(1984 - 2000):

- -Surrey Siting Task Force
- -Thornton Yard
- -Anvil Way 1, 2, 3
- -to CRL
- -to Riley, Alberta
- -to Arlington, Oregon



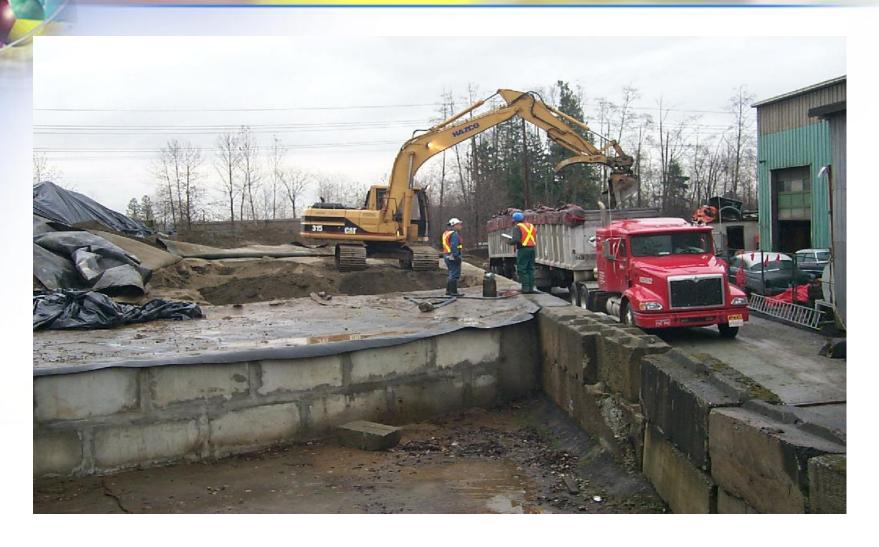








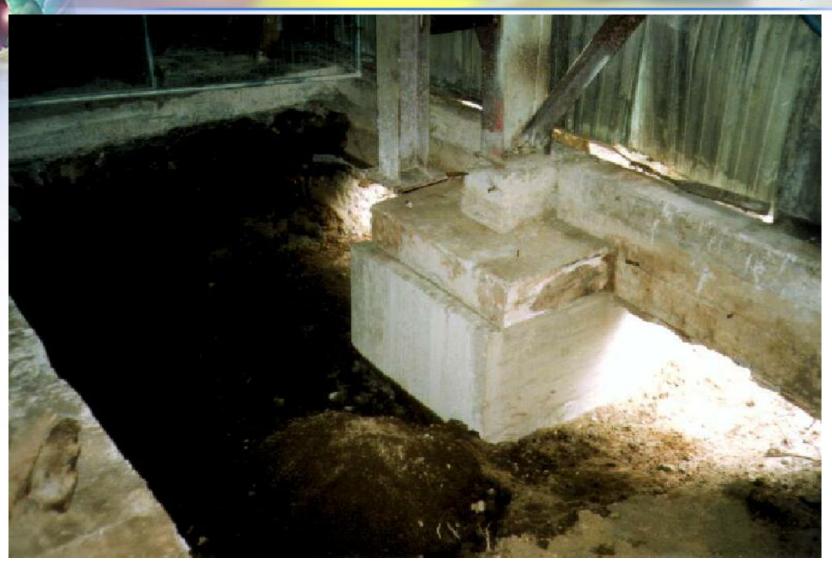




Surrey, British Columbia

















Chalk River, Ontario

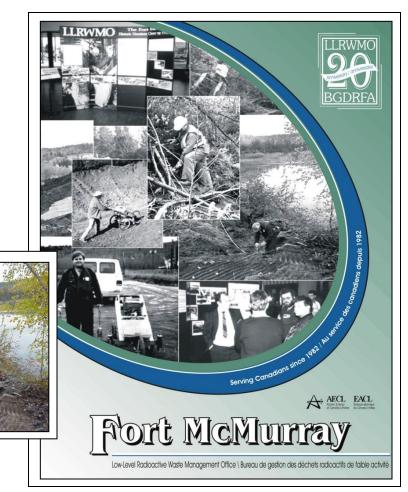




Fort McMurray & NTR

(1992 - date):

- -Northern Transport Route surveys
- -Fort McMurray sites (9)
- -Beacon Hill Mound
- -CN Waterways
- -closure and licensing



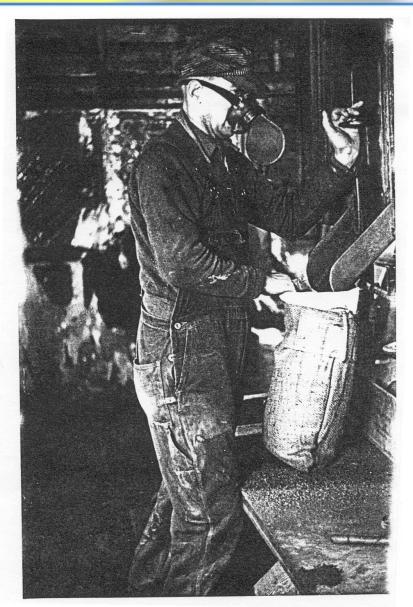


Port Radium Mine, NWT



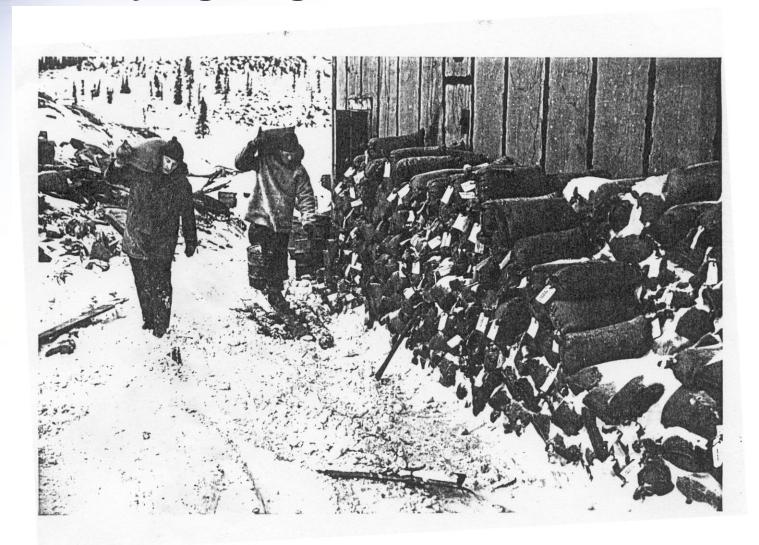


Filling uranium ore bags at Eldorado's Port Radium Mine in the NWT





Carrying Bags of Ore – Port Radium











Fort McMurray, Alberta





Railhead at Waterways, Albert













































LLRWMO



The Disposal Cell Fort McMurray, Alberta



LLRWMO

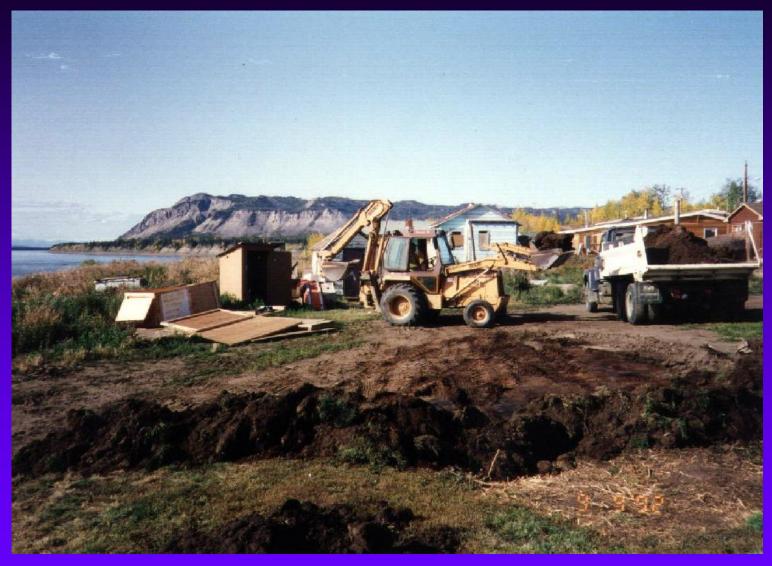


Construction of Disposal Cell Fort McMurray, Alberta



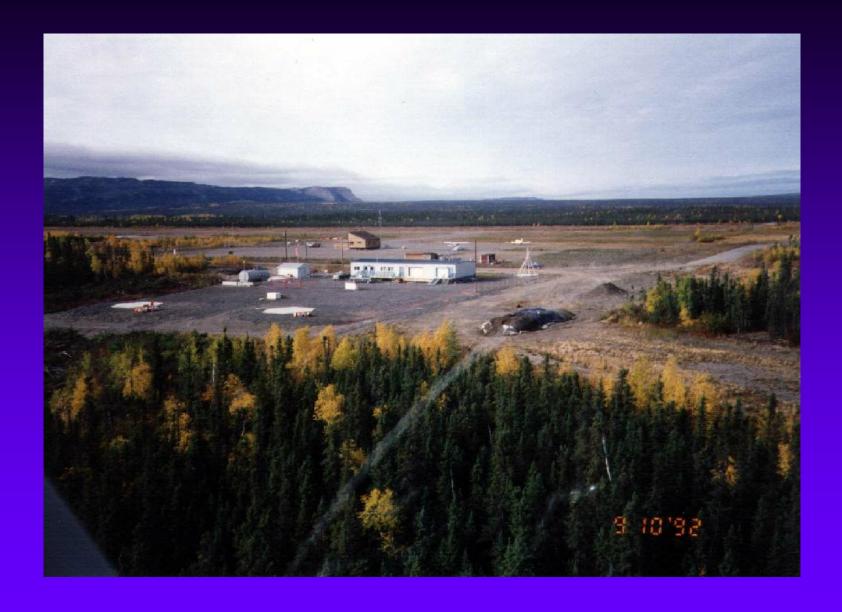






Tulita, North West Territories



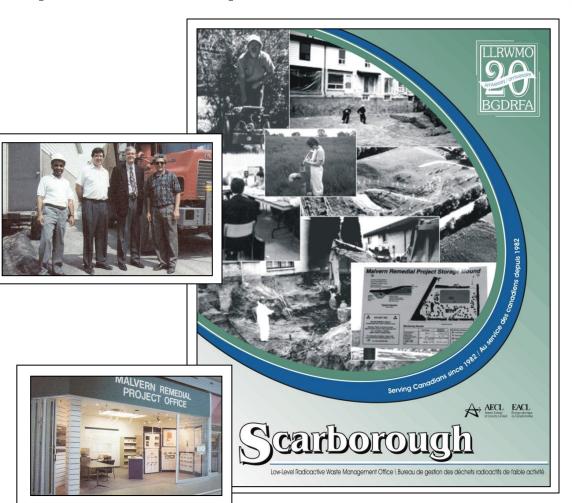




Scarborough:

(1982 - 1996)

- -Reesor Road
- -McClure Crescent
- -Soil sorting
- -McLevin Avenue
- -Malvern Town Centre
- -Passmore Mound





Malvern Development 1973





Malvern Remedial Project









Malvern Remedial Project







Scarborough, Ontario



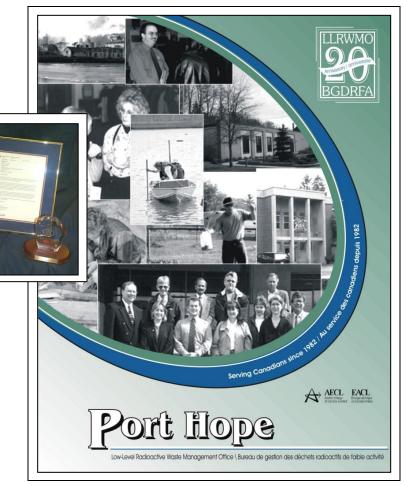




Port Hope

(1982 - date):

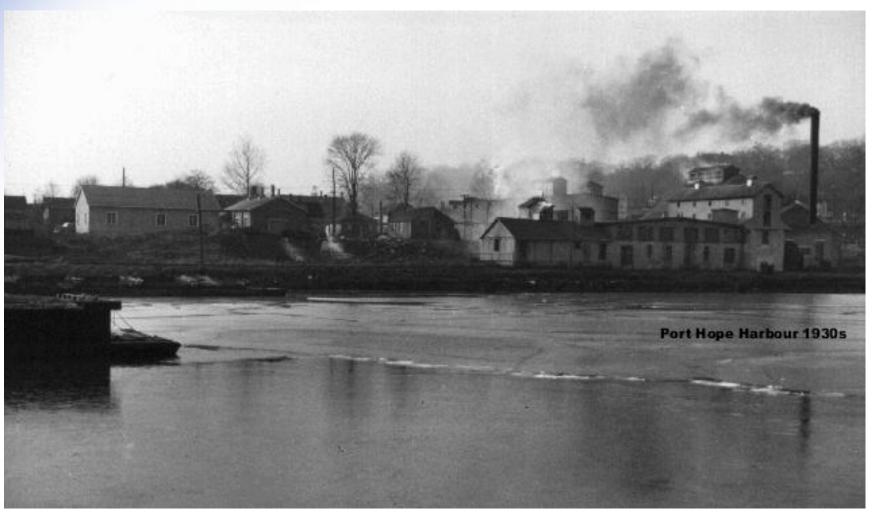
- -FPTF cleanups
- -Rollins & Strachan consolidations
- -Construction Monitoring & TSS
- -STF 1,2,3 and CLG's
- -Interim Waste Management
- -Community Principles & Agreement
- -Port Hope Area Initiative





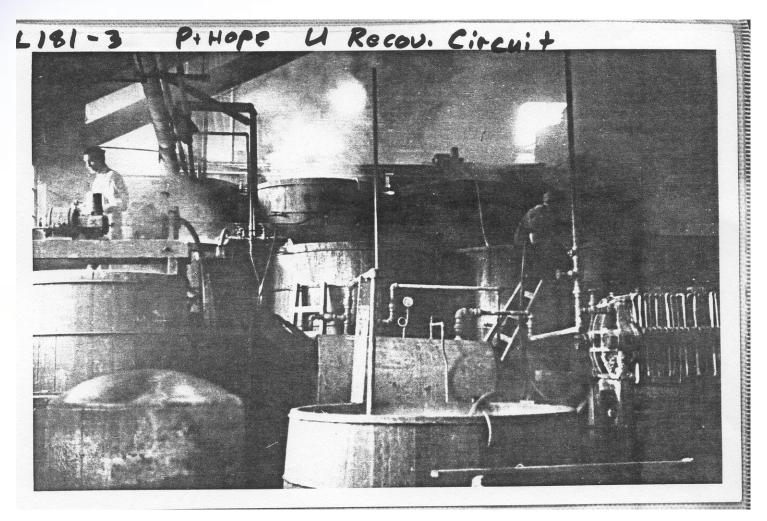


Port Hope Harbour –1930s



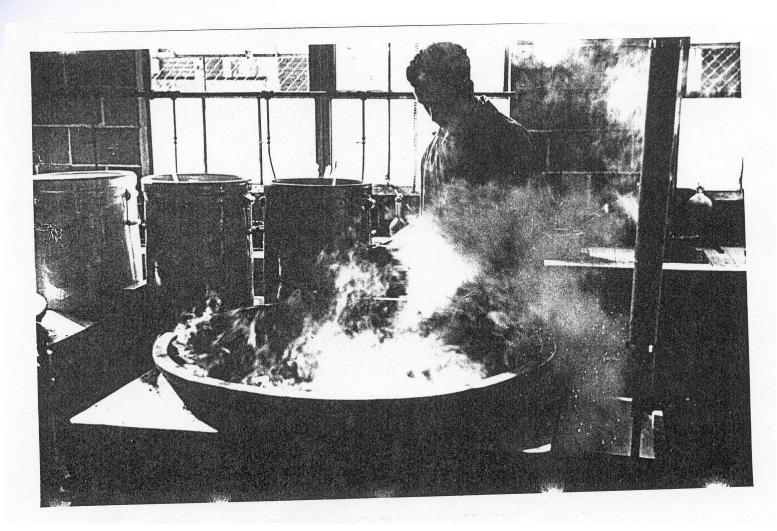


Port Hope Uranium Recovery Circuit





Radium Refining Operations



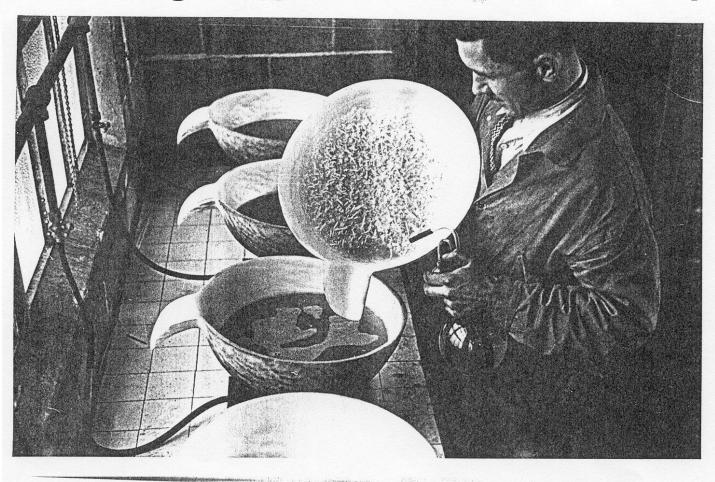


Radium refining operation at Eldorado's Port Hope Facility





Processing Radium Salts in Port Hope

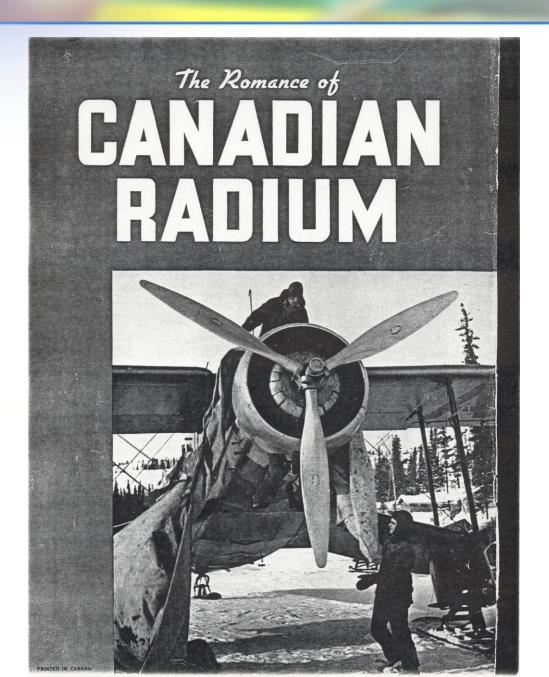






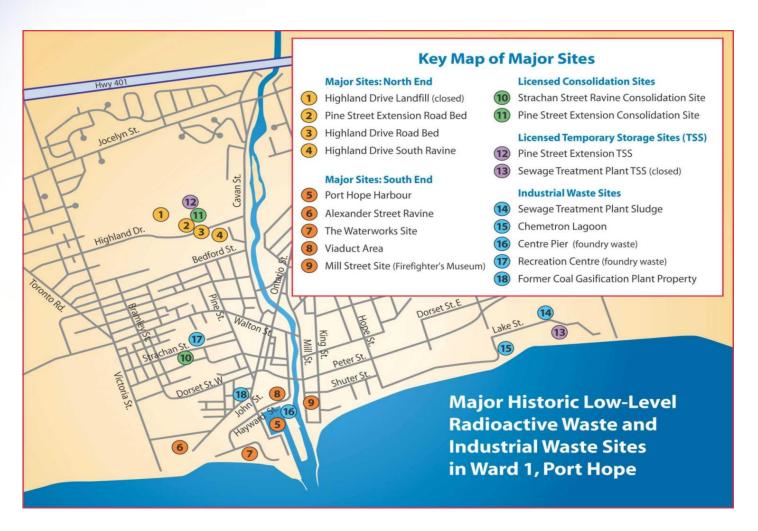








Interim Waste Management Program For Port Hope Ward 1 Waste Sites







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Port Hope – Waste Management

- Process wastes (chemical residues) were deposited at a number of locations within the Town of Port Hope, including:
 - Plant site
 - Lakeshore Site
 - Monkey Mountain Site
- 1948 -1954 **Welcome** waste site
- 1955 -1988 Port Granby waste site





Port Hope – Wastes and Cleanups

- 1976 to 1981 major remedial cleanup of Port Hope
- Site at Chalk River filled to capacity, switch to Interim Waste
 Management mode of operation for remaining waste
- 1980 AECB orders Eldorado to decommission Port Granby and Welcome Waste Management Sites
- 1986 Eldorado identifies potential concepts and local sites
- Area residents concerned



Initiatives For Waste Management

- 1986, Government of Canada orders Eldorado STOP WORK!! on its disposal project
- 1986 to 1995 Siting Process looks for willing host for Port Hope Area wastes somewhere in Ontario
- 1995 with only one potential host community identified,
 Deep River negotiations between federal government
 and Deep River unsuccessful



Community Discussions

- 1997 to 1999 Hope Township, Town of Port Hope and Municipality of Clarington developed individual conceptual designs for long-term management facilities with funding from NRCan
- Proposals sent to federal government from all three municipalities by mid-1999
- Negotiations began in early 2000



Community Negotiations

Negotiations lead to:

Principles of Understanding

(initialed by all four parties in October 2000)

Legal Agreement

(finalized in December 2000)



Key Elements of Agreement

Legal Agreement sets out terms of reference for the project.

- Cleanup of specific LLRW and industrial wastes
- Build long-term waste management facilities based on community-developed conceptual designs
- Establishment of Property Value Protection Program
- Hosting fee of \$10 million per municipality.