

Halifax Harbour Solutions Project





Halifax Harbour Quick Stats

- * Cargo volume = 13.9 million metric tonnes(2004)
- 122 cruise vessels, over 210,000 cruise ship passengers(2004)
- One of the deepest/largest natural harbours in the world
- ✤ Ice free with minimal tides
- Economic impact of almost \$700 million
- Economic impact of over 9,000 direct and indirect jobs
- ✤ 1752 North America's oldest operating salt water ferry began
- ✤ 1758 North America's first naval dockyard opened



Moving Forward

4 Key Components of Harbour Solutions Project:

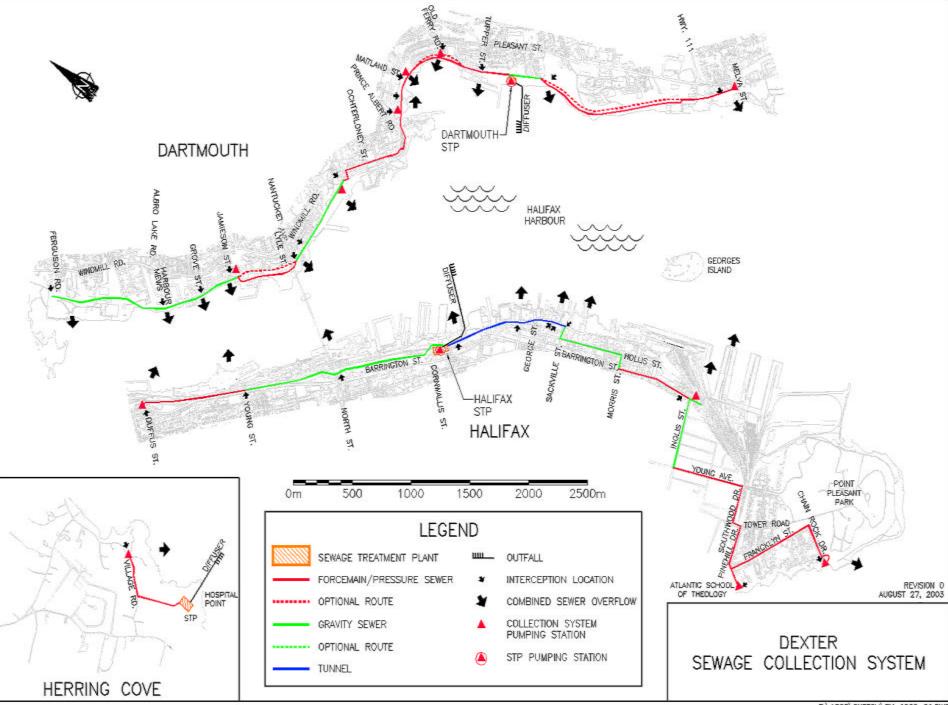
- Sewage Collection System, including piping, outfalls, diffusers, pumping stations & access roads
- Waste Water Treatment Plants design and construction
- Operation of Waste Water Treatment Plants
- Biosolids (sludge) management



Sewage Collection System

Dexter Harbour Solutions to build, HRM owns & operates

- Collects sewage and carries to WTP's
- Groundbreaking November 12, 2003
- Expected completion by September 2007
- Consists of all piping, pumping stations, outfalls and diffusers, 1Km underground tunnel



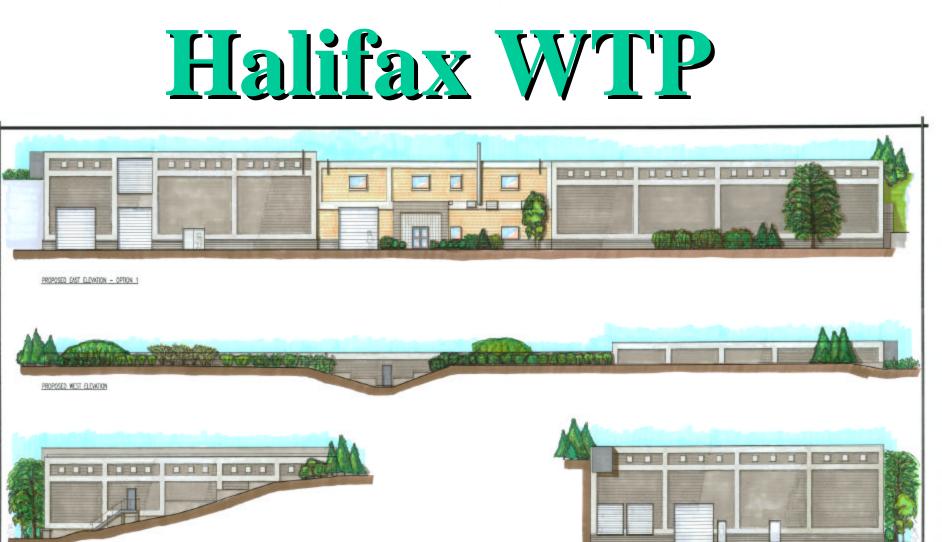
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Waste Water Treatment Plants Design & Construction

3 waste water treatment plant sites

- downtown Halifax at Cornwallis and Lower Water St.
- Dartmouth on land from the Coast Guard base
- Hospital Point in Herring Cove
- all are designed to blend in visually, all received input from community
- all are designed for no impact from noise or odour



Operational Spring 2007

PROPOSED NORTH ELEVATION

PROPOSED SOUTH ELEWINON

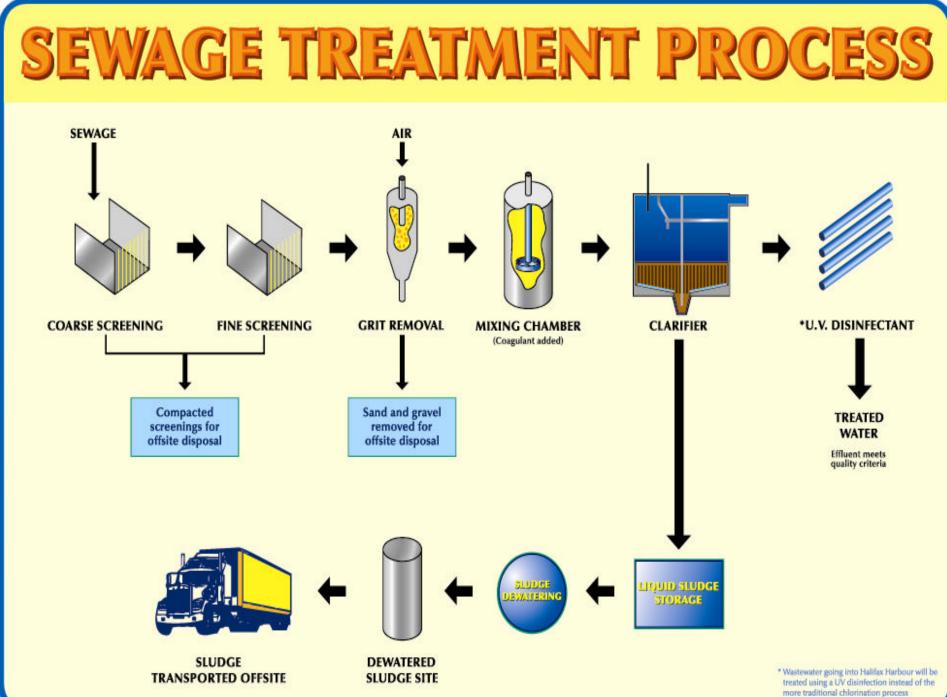
Dartmouth

Operational Summer 2007



Operation of Waste Water Treatment Plants

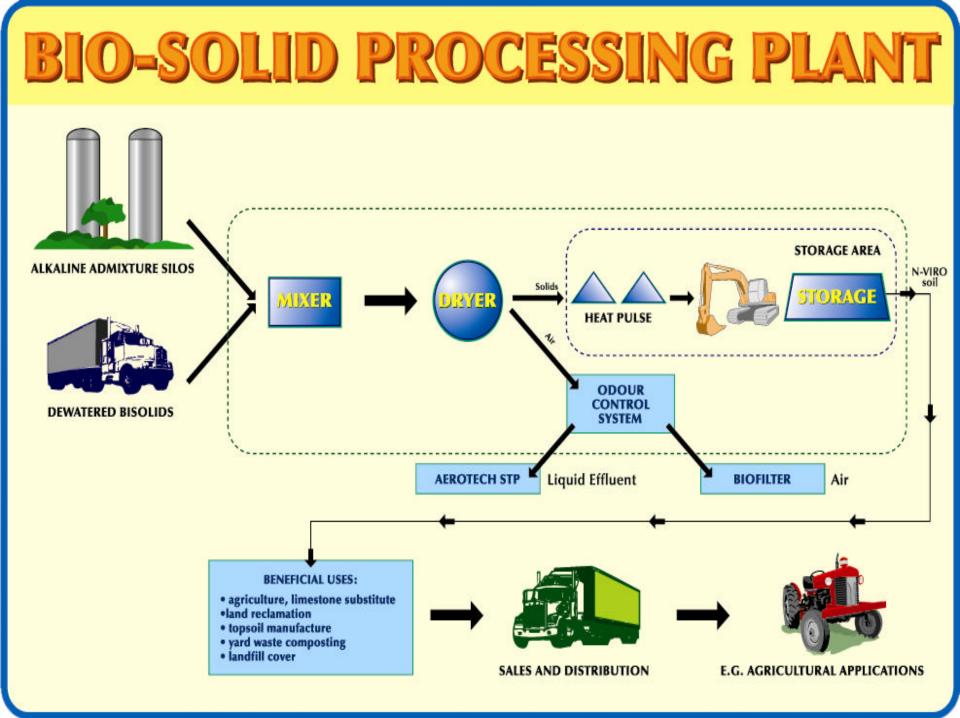
- HRM will own and operate
- Advanced primary treatment of sewage
 - Removes 70% of suspended solids in the wastewater
 - High-intensity ultra-violet lights are used to kill bacteria (UV disinfection) meeting or exceeding all regulatory water quality targets

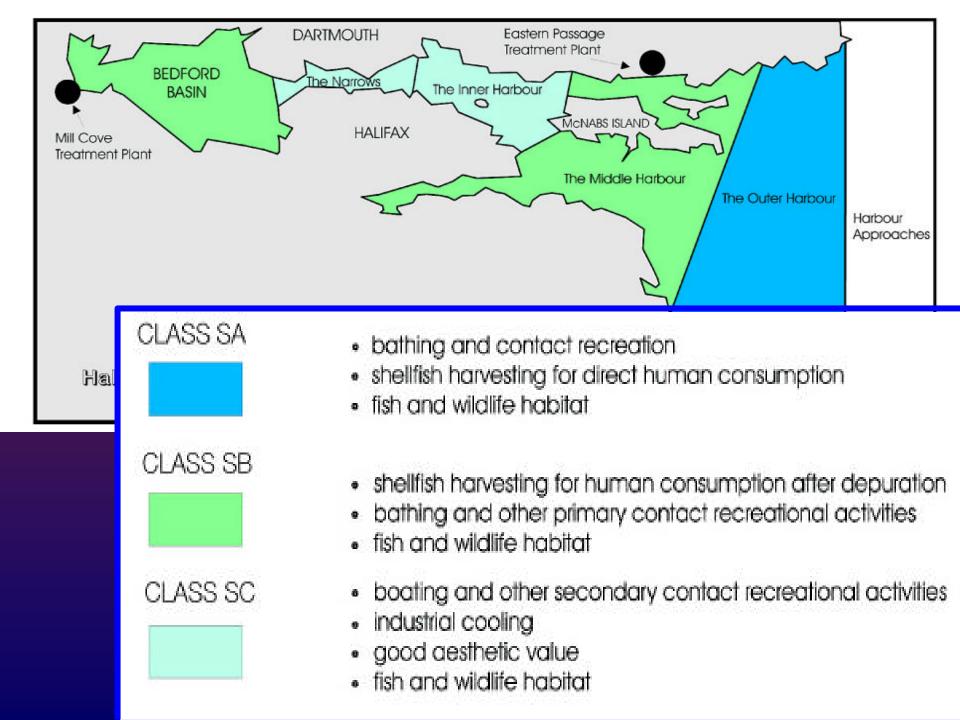




Biosolids Management

- October, 2004, Council agrees to enter into an agreement with SGE Acres Ltd.
- By product of the sewage treatment process
- Dewatered sludge removed from settling tanks and transported to sludge processing facility
- Construction underway operational spring 2007





Harbour Solutions Project - Water Sampling In Halifax Harbour

Responsibilities of HRM Citizens

- Reducing and/or eliminating the use of household hazardous products
- Not pouring leftover cleaning products, paints, solvents and pesticides down kitchen drains
- Encouraging responsible disposal practices at your place of business
- Being aware of and supporting programs and facilities HRM has undertaken to reduce pollution sources
- Conserve water



Source Control Program

- Wastewater Discharge By-law
- Working with businesses to identify harmful waste materials and limit their use or disposal
- Household Hazardous Waste Depots
- Support efforts of Federal Government to curtail dumping of ship wastewater in the Harbour
- Pesticide By-law
- Extensive public education/stewardship program underway

Pollution Prevention Program – Water Sampling



How Can You Stay Informed?

- Naturally Green Newsletter
- HRM Website (www.halifax.ca/harboursol)
- E-mail (contactHRM@halifax.ca)
- HRM Call Centre (490-4000)
- Harbour Solutions Project Office (490-4756)
- News Releases
- Public Meetings

Tunnel - September 2004

Tunnel - April 2005

Halifax Treatment Plant – January 2005

Halifax Treatment Plant – April 2005







Halifax Pipe Bridge – December 2004

Halifax Pipe Bridge - December 2004

Halifax Outfall Pipe - December 2004

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650m Dartmouth Outfall Pipe - April 2006

