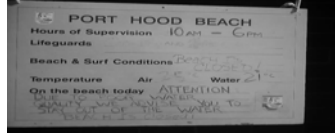


Ocean 11

Pollution 2



Land and Sea: Pollution

23 minutes

While you are watching the film, make a list of all the pollution items found in the water around the wharf in Terrance Bay.



Sydney



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Fourteen billion pounds of garbage are dumped into the world's oceans each year.

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Video: Halifax Harbour

11 minutes

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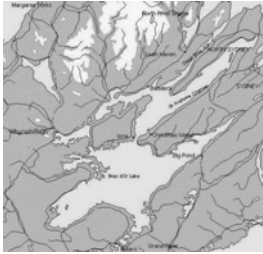


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The Bras d'Or Lake System

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The Bras d'Or Lake System is an enclosed body of water located in Cape Breton Island, Nova Scotia. It has limited exchange with the Atlantic through three channels, but only one of these, the Great Bras d'Or Channel, provides significant interchange. The Great Bras d'Or Channel opens into the Atlantic to the northeast with a sill depth of 9 metres and a minimum width of 500 metres. The Little Bras d'Or is a meandering channel of 8 km length, which also opens into the Atlantic in a northerly direction and has a sill depth of 5 metres and a mean width of 100 metres. St. Peter's Canal opens to the south into St. Peter's Bay and the Atlantic Ocean through a pair of locks so that it does not provide continuous exchange.

The Lake System consists of the Bras d'Or in the south, which is separated from a series of interconnected channels to the north – by the Bara Straits of minimum width 500 metres and (depth 22 metres. The bathymetry is highly variable with a number of major basins of extreme depth. St. Andrews Channel has the deepest basin with an observed depth of 280 metres. The Great Bras d'Or Channel and Lake contain a number of basins of depths 50 to 200 metres. The bay at the southwest end of St. Patrick's Channel has a basin of 38-metre depth and one of 46-metre depth. This bay is separated from the rest of the Lakes by Little Narrows of sill depth 13 metres. Bras d'Or Lake also has an irregular bottom with basins from 50 to 150 metres in depth.

Causes of Ocean Pollution

Causes of ocean pollution are due mainly to the ignorance of humans. Many people thought that seawater diluted the materials dumped, while others thought seawater actually killed the "germs". The growth of industrialized societies has greatly increased the use of the ocean as a dumping ground. Types of waste include many synthetic materials that are highly toxic. Some wastes enter the ocean directly from the source, as a pipeline, sewage plant and waste that is loaded onto barges, taken offshore and dumped. For many years, radioactive wastes have been dumped into the ocean by the United States.

Since oceans cover 71% of the earth's surface, water sources are the perfect carriers for pollution. Medical wastes, such as stale blood vials, hypodermic needles, and urine samples have been found in oceans around the United States and are being researched to determine the chance of contracting AIDS from such wastes. Other wastes have been known to cause viral and bacterial diseases, such as cholera, typhoid dysentery and diarrhea.

Farmers – pesticides and fertilizers

Effects: lower reproduction rates
increased stress on fish, so they are less healthy

New pesticides approved for potato farms
WebPosted Feb 17 2003 08:09 AM EST

CHARLOTTE TOWN – Potato producers on P.E.I. will have access to three less toxic pesticides this spring. The provincial government and potato industry have been looking for newer reduced-risk pesticides since thousands of fish died in Island rivers last year.

Pesticide-laced runoff from fields is suspected in many of the cases.

Fishermen - batteries, tin cans, oil, gas, old tires
fishing gear ("ghost nets")
plastic, ring tabs, lobster traps
non-biodegradable materials in general
fish guts

Effects: Bacteria are produced, which form a layer of slime on fish and plants.
This results in decreased oxygen and increased disease.

Industries – pulp and paper
chemicals
acid rain

Pleasure Boaters - plastics
bottles
wrappers
sewage
beer cans
ring tabs
gas
oil

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Transportation - green crabs in the Bras d'Or Lakes

- ships cleaning bilges
- ships emptying garbage and sewage
- cruise ships with large amounts of sewage
- oil spills

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Results:

- Increased costs
- Tourism decreases
- Drinking water unsafe
- Health problems for people and fish

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Write 150 words on the topic: Ocean Pollution.

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Vertical line of 25 empty boxes for notes.



Vertical line of 25 empty boxes for notes.



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Next: Pollution 3