# Halifax Harbour Water Quality Monitoring Project Weekly Summary #90

Survey Date: Nature of Survey: Report File (this document): Data File: 07 March 2006 Coliform Survey HHWQMP\_report090\_060307.doc HHWQMP\_data090\_060307.xls

#### Data Return:

97%
na
96%
97%

## Sample Notes:

Site DYC was frozen and not sampled.

An alternate BYC site was sampled at the ice edge. Location:  $44^{\circ}$  43.035 N,  $63^{\circ}$  39.852' W

The site for the fourth QA/QC sample was not documented.

# **QA/QC** samples:

### Fecal Coliform (CFU/100ml)

Site	D2-10m	H3-1m	SYC-1m
Reference	270	0	3
QA/QC	230	0	5

### **Comments:**

General: The Harbour is relatively unstratified. There has been no appreciable precipitation or melting in the previous week. There is relatively dense water at bottom of narrows so there is a possibility of some up Harbour flow of bottom water into mid depths of Basin. The fecal coliform values are highest in the surface samples in the Inner Harbour. The values in the Basin are relatively low but are higher in 10 m samples. This distribution is unremarkable and seems to be typical of relatively unstratified conditions where little estuarine or meteorologically induced circulation occurring.

Chlorophyll: The elevated fluorescence values noted last week have continued to increase. It appears that the spring bloom has begun. There is a maximum fluorescence at about 10m throughout the Harbour. The highest values are in the Basin, where values  $> 30 \text{ mg/m}^3$  occur. These values decrease somewhat going out of the Harbour, to a maximum of about 16 mg/m<sup>3</sup> at site B2.

Dissolved Oxygen: The dissolved oxygen levels are somewhat higher than last week. The data indicate that the surface values everywhere in the Harbour are between 9 and 10 mg/L. The DO values in the bottom water in the Basin are slightly higher than to last week at just over 3.5 mg/L. This indicates that there may have been some limited exchange of bottom water as well as intermediate water. The Basin deep water represents the only values below the applicable use-specific guidelines this week. The DO data is not ground-truthed and absolute values are questionable (see DO discussion in QR#1).







**Yacht Clubs** 





Harbour Water Quality Monitoring Program



# **Yacht Clubs**



