



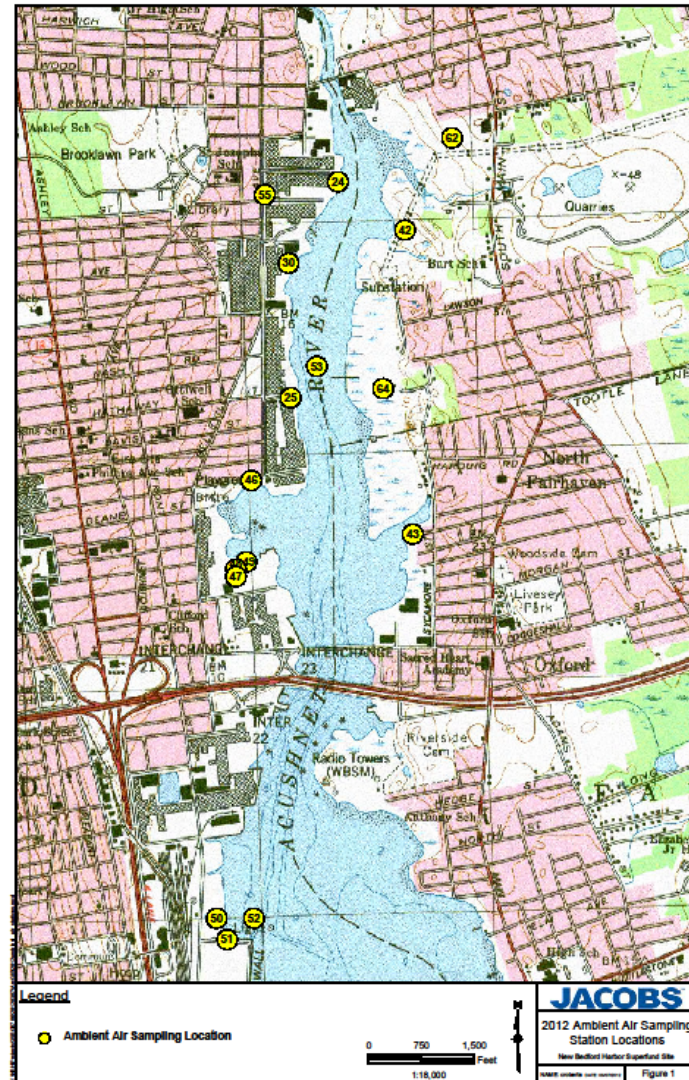
Overview of Ambient PCB Air Monitoring Program

CAD Cell Technical Working Group

25 April 2012

History of Ambient Sampling Program

- Foster Wheeler did the leg work in 1999 and 2000 with background air sample collection throughout New Bedford, Acushnet and Fairhaven.
- Pre and post dredge samples are collected each season. During dredging, air samples are collected on a monthly basis from the dredge and surrounding community locations. The locations sampled depend on the area being dredged.



Sample Train

- Samples collected per EPA Method TO-10A: **Determination Of Pesticides And Polychlorinated Biphenyls In Ambient Air Using Low Volume Polyurethane Foam (PUF) Sampling Followed By Gas Chromatographic/Multi-Detector (GC/MD) Detection**
- Air pump calibrated to 5 liters/minute
- Tubing connects pump to media
- Media is in two pieces
 - 32mm Quartz filter
 - PUF filter
- Samples are collected over a 24 hour period
- Intake is placed between 1 and 2 m high
- Media sent to laboratory for analysis



Quality Control

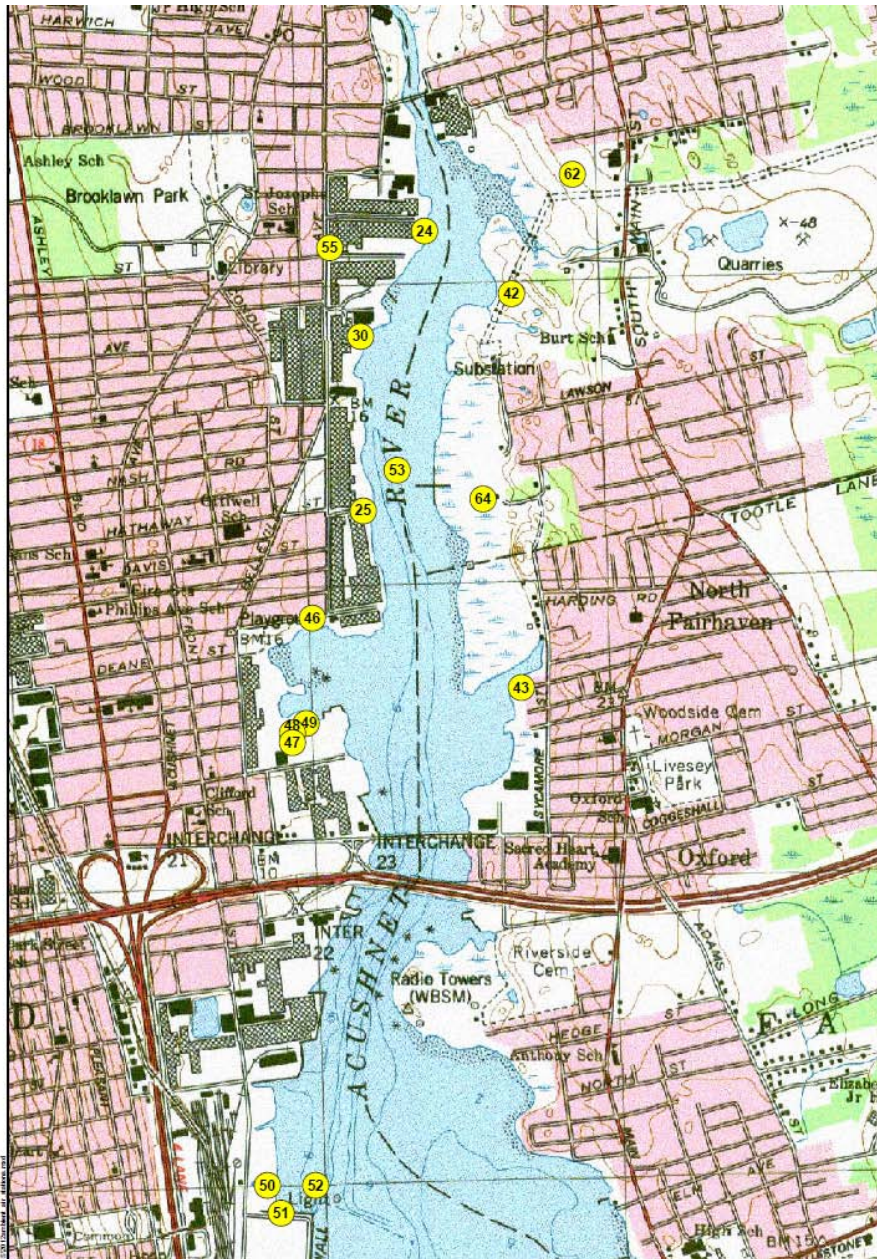
- Sample preparation
- Sample collection
- Analytical process
- Data Management



Air Sampling Results

- Look at raw data
 - Test America Laboratory
 - Cashins and Associates' CIH reviews
 - Look for any initial problems with data
- Tabulate validated data
 - Battelle chemists provide data validation
 - Posted on EPA web site for New Bedford Harbor

Current Monitoring Locations



24 Aerovox	
25 Cliftex	
42 NSTAR North	
43 Veranda	
46 Coffin	
Area C	47
	48
	49
Area D	50
	51
	52
53 Dredge	
55 Aerovox West	
56 Acushnet Park	
57 Riverside Park	
61 South Fence	
62 Century House	