

GE Fort Edward Plant Site
Investigation of Bedrock
Contamination in the Vicinity of
Former 004 Outfall

Presentation for
Hudson River PCBs Superfund Site
Community Advisory Group
July 28, 2005

A satellite-style aerial photograph of the Hudson River valley. The Hudson River is a prominent dark, winding feature running vertically through the center of the image. The surrounding land is a mix of green fields, brown patches, and dense urban areas. Two red arrows point to specific locations: one at the top of the river pointing to a small industrial area, and another further down the river pointing to a larger industrial complex. Two yellow text boxes with black borders are overlaid on the image. The first box, at the top left, contains the text 'GE Hudson Falls Plant Site' and is connected to the top arrow. The second box, in the lower right, contains the text 'GE Fort Edward Plant Site' and is connected to the lower arrow.

GE Hudson Falls Plant Site

GE Fort Edward Plant Site

An aerial photograph showing a river on the left side, flowing towards the bottom left. The right side of the image shows an industrial facility with several large buildings and structures. A red arrow points from a yellow label box on the left towards the riverbank. Another red arrow points from a yellow label box at the bottom towards the industrial site. The image is divided into four quadrants by a vertical and a horizontal white line.

004 Outfall Location

GE Fort Edward Plant Site

Past Actions

- Outfall pipe diversion in 1994; removal and replacement in 1995
- Investigation of riverbank area in mid 1990's
- Removal of riverbank sediment / soils in 2003 and 2004; discovery of bedrock seeps
- Installation of riverside collection and monitoring system beneath access road
- Installation and sampling of shallow bedrock monitoring wells

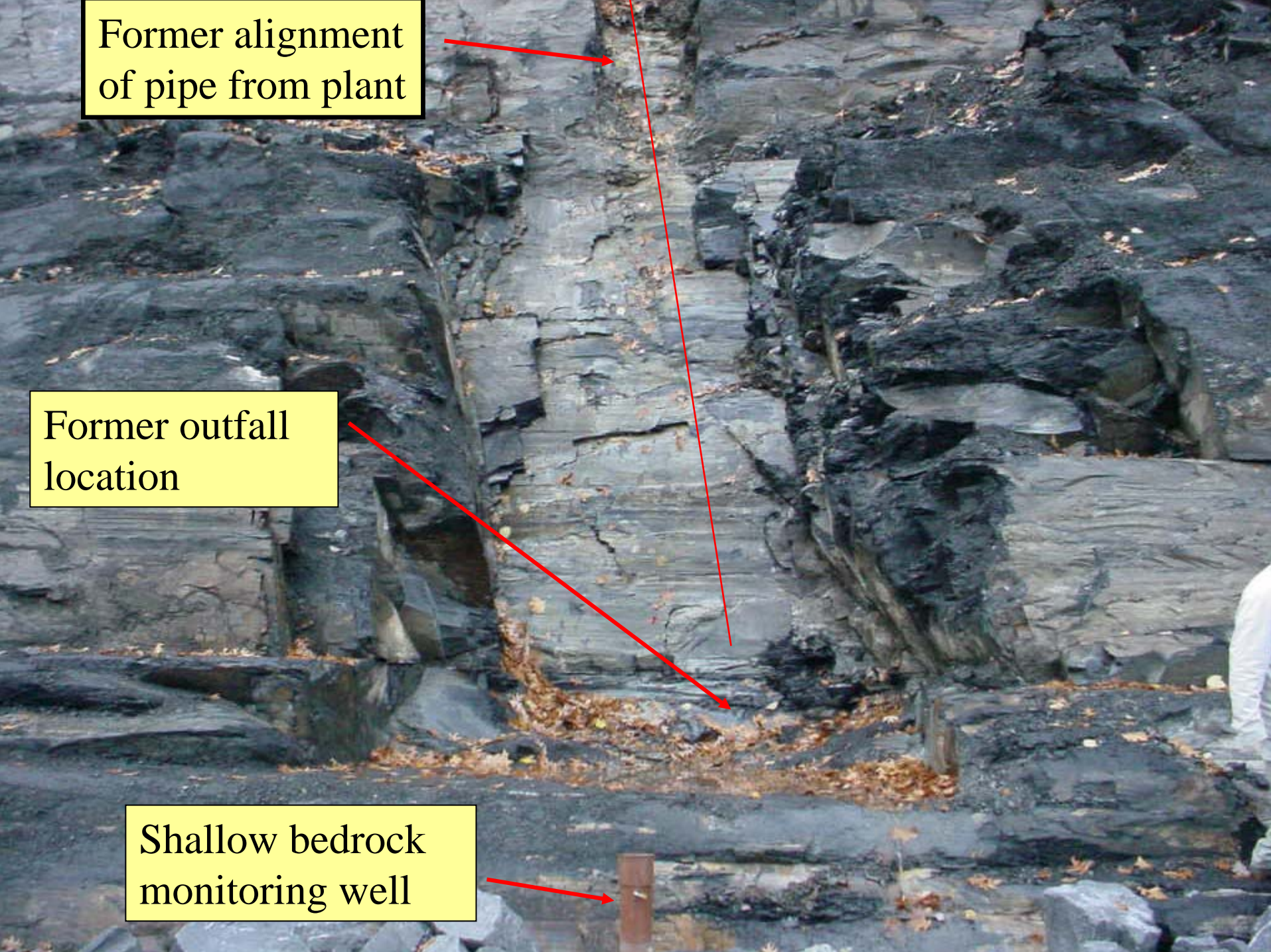
Former outfall structure



Former alignment
of pipe from plant

Former outfall
location

Shallow bedrock
monitoring well



Shallow bedrock monitoring well ~
50 feet south of outfall location



Additional shallow bedrock monitoring wells south of former 004 outfall location



Sample Results – June 2004

MW 01: 86,200 ug/l

MW 02: 70.3 ug/l

MW 03: 85.2 ug/l

MW 04: 0.250 ug/l

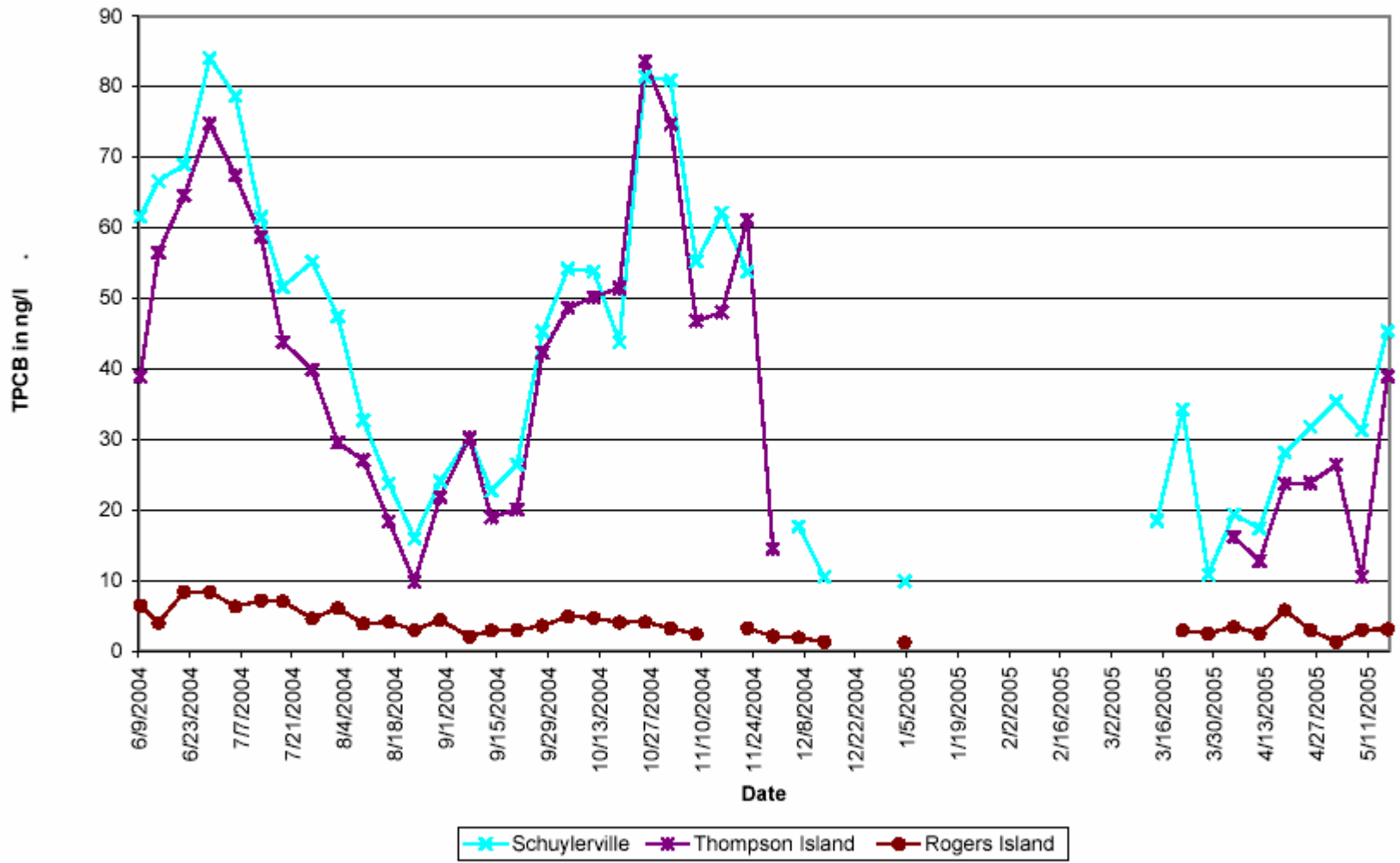
MW 05: 1.14 ug/l

MW 06: 2.20 ug/l

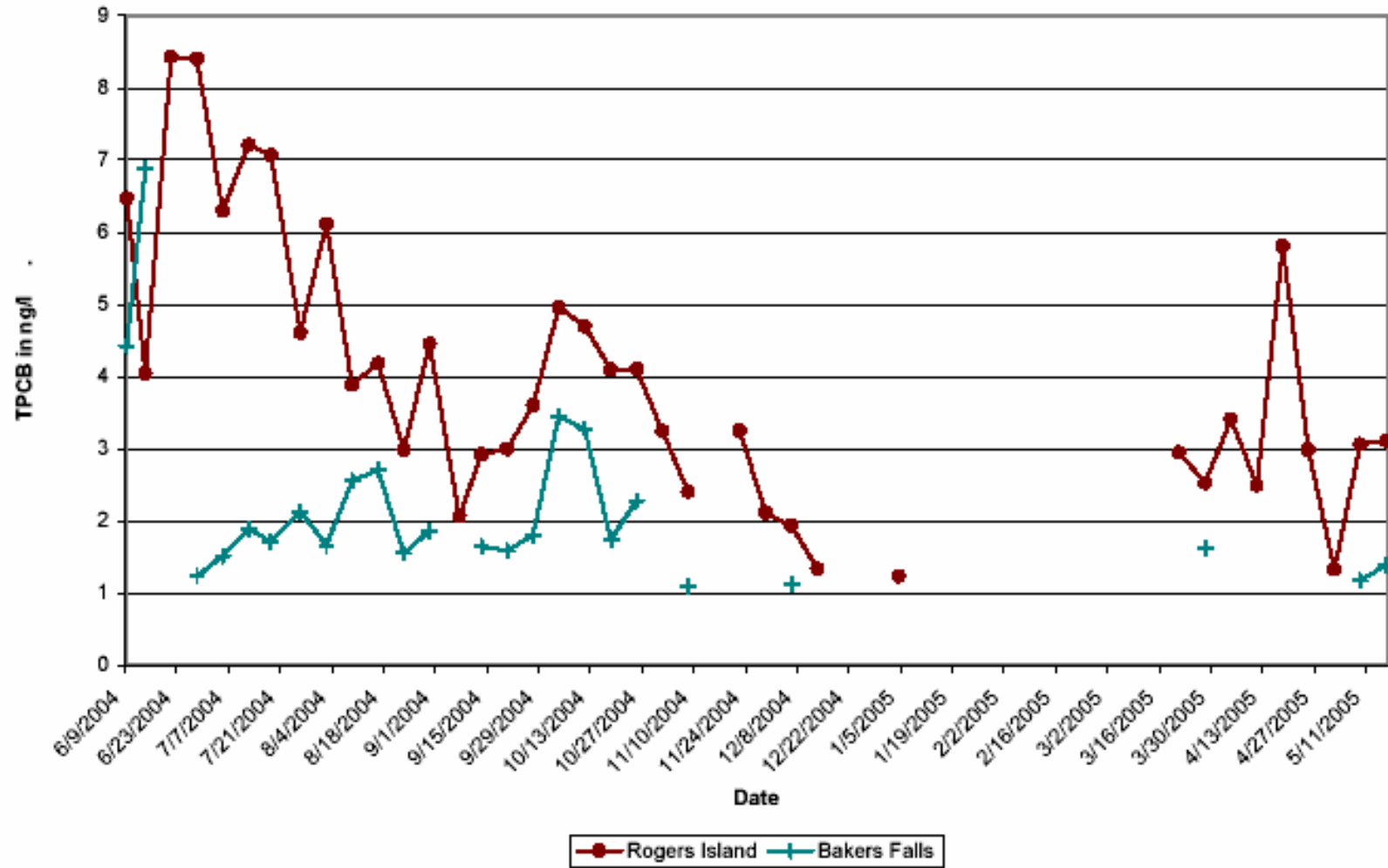
Relative Importance of Upstream Sources

- GE Baseline Monitoring Program (BMP) – part of dredging project remedial design effort
- Sampling done in upper Hudson River at Bakers Falls, Rogers Island, Thompson Island Dam, Schuylerville, Stillwater, Waterford

GE HR BMP Surface Water Total PCB



GE HR BMP Surface Water Total PCB



Upcoming Work

- Further investigation is needed to determine if the conditions observed during the riverbank sediment / soil removal extend significantly into the bedrock, and to determine if impacts on river persist
- Also need to determine nature and extent of contamination in order to evaluate remedial alternatives

Scope of Upcoming Work

- Upstream and downstream surface water sampling in vicinity of site
- Installation of additional shallow bedrock monitoring wells
- Sampling of discharge from riverbank to river

Next Steps

- Investigation to begin in Summer 2005
- Further work to be determined by the results of studies done this year

For More Information

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