

# Real-Time Control - Main Relief Sewer Storage

## Infrastructure Project

## Schuylkill Watershed



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**Status:** Monitoring

### Partners:

Philadelphia Water Department

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The Main Relief Sewer, a set of five sewers which provide flood relief to combined sewer areas in all of PWD's drainage districts, discharges to the Schuylkill River at Fairmount Park. Prior to this project, CSO was released into the river at the Main Relief Sewer outfalls. An inflatable dam was installed in the Main Relief sewer (13.5' by 13.5') with a potential storage volume of 6.2 million. This dam will reduce CSO discharges to the creek by utilizing the sewer for in-system storage. The inflatable dam retains the stored flow in the sewer and a new connecting sewer drains the stored flow to a nearby interceptor. The dam became fully operational in Fall 2006.



### Benefits:

- The installation of the inflatable dam results in significant reductions in CSO discharge volumes and frequencies at the outfall. Specifically, there is a 70% reduction in overflow volume and an average of 4 overflow events per year .

