



FACT SHEET

Lower Harbor Brook CSO Storage and Conveyances Project

Project:	LHB CSO Conveyances & Storage
Project Owner:	Onondaga County
Project Location:	State Fair Blvd, Syracuse
Sewershed:	Harbor Brook
Technology:	Underground Tank
Capacity:	4.9 million gallons
CSO Capture:	55 million gal/yr
No. of CSOs Abated:	3
Completion Date:	12/31/13
Contract Amount:	Conveyances – \$4,147,888 Storage – \$25,039,101
Bid Date:	Conveyances – 8/30/11 Storage – 10/18/11
Prime Contractor:	Conveyances – J.J. Lane Storage – C.O. Falter

Project Description: The Lower Harbor Brook CSO Conveyances and Storage Facility Project is a 4.9 million gallon combined sewer overflow storage facility that is located on County owned property on State Fair Boulevard between Hiawatha Blvd. and West Genesee Street in the City of Syracuse. The facility currently captures and stores the overflows from CSOs 003 and 004 for up to the 1-year, 2-hour design storm event. After the storm subsides, the contents of the storage tank are pumped to the Harbor Brook Interceptor Sewer for conveyance to the Metropolitan Treatment Plant (Metro) for full treatment. The project also includes construction of CSO conveyance pipelines on State Fair Blvd. and Hiawatha Blvd. to convey combined sewage from the overflow pipes to the storage tanks during rainfall and snowmelt events. Floatables and grit removal are included in this facility. The design incorporated odor control provisions into the facility and the tank is completely enclosed. Additionally the storage tank will receive flow from CSO 063 when the County completes construction of pipeline from Erie Blvd. and Emerson Ave. in 2015.

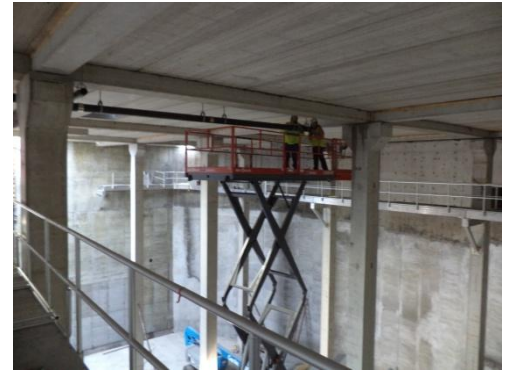
Green Components: To further enhance the sustainability of the facility, the project includes green infrastructure components. The stormwater runoff from the rooftops of the storage tank and controls building will be stored within the CSO storage tank and used for a second and third cleaning flush of the tank. This water will ultimately be treated at Metro eliminating the need for this stormwater to be treated on-site. The stormwater storage is designed to capture the 100-year storm (5.2 inches) from the tank and the control building rooftop.



Rendering – view from State Fair Blvd.



Rendering – Cross Section of
Underground Storage Facility



Lower Harbor Brook CSO Storage Facility – Construction Progress Photos

Project Update: The Lower Harbor Brook CSO Storage Facility was placed on line on December 31, 2013 and several small CSO events occurred over the first three months of 2014. The first large event occurred on March 29, 2014 with nearly 2" of rainfall in the City of Syracuse as well as significant snow melt. The snowpack was concentrated with water due to the very wet late season snow storms. The Lower Harbor Brook Storage Tank was filled during this event with the system operating essentially as designed. This first large event provided information for refinement of future operations. The storage system was dewatered with all of the contents pumped to the HBIS for conveyance to Metro for treatment. Site restoration began in late March with completion scheduled for June. The Contractor will stay onsite for the duration of the Performance Period as required in the Contract Documents.

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