

# CSO LTCP Project Fact Sheet



**LTCP Project Number:** L\_SO\_MF\_092\_M\_09B\_B\_D\_8

**Project Name:** Logan Street and Breckinridge Street Storage Basin

**Project Type:** Off-Line Storage

**Receiving Stream:** South Fork Beargrass Creek

**Project Description:** This project includes a 11.83 MG underground covered storage basin for CSO091, 113, 117, 146, 149, & 152 to reduce overflows to 8 overflows per year. The facility will require a 11.83 MGD PS to return stored flow to the BGI.

**Design Parameters / Assumptions:** Basins are designed to the 9th overflow event volume, resulting in 8 CSO overflows/year. The 9th peak flowrate is evaluated to compare gravity vs. pumped conveyance. Design for pump-back is 24 hours. Type of basin based on hydraulics and surroundings.

**Surrounding Area Land Use:** The project is located within 'Public and Semi-Public', located at the corner of Logan St. and Breckinridge St. Adjacent land is 'Single Family Residential', 'Industrial' and 'Vacant and Undeveloped'.

**Apparent Utilities Description:** No major utilities conflict within the surrounding area of the proposed basin except for a few street lights

**Capital Projects:** 2007~Middle Fork Rehabilitation Phase 2 - Awaiting Start; 2013~RTC @ CSO146 & 117 - Awaiting Start

**Advanced Site Restoration:** N/A

**Estimated Capital Cost (2008):** \$30,320,000

**Capital Cost / Gallon Overflow Removed:** \$0.15

**Weighted Benefit / Cost Ratio (Capital Cost):** 44.12

**Overflow Points Addressed:**

<u>CSO Number</u>	<u>CSO Name</u>	<u>CSO Area (Acres)</u>	<u>2008 AAOV (MG / Yr)</u>	<u># of Overflows / Yr</u>	<u>Post LTCP AAOV (MG/Yr)</u>	<u>Post LTCP # Overflows / Year</u>
CSO091	Schiller Avenue Overflow	14.99	1.62	34	0.2	8
CSO113	Ellison Avenue Sewer	67.62	7.72	37	0.87	8
CSO117	Regulator Number 11 - Dry Run	74.17	92.76	39	12.67	8
CSO146	Sneads Branch Diversion	112.60	63.67	59	5.34	8
CSO149	Dry Run Diversion	226.53	56.35	37	5.96	8
CSO152	Regulator Number 7- Southeastern	260.56	75.35	51	7.37	8

*NOTE: CSO hydraulic statistics are predicted based on InfoWorks model results.*





**Integrated Overflow Abatement Plan  
Vol. 2 - Final CSO Long Term Control Plan**

South Fork Beargrass Creek  
SolutionID # L\_SO\_MF\_092\_M\_09B\_B\_D\_8  
Logan St and Breckinridge St Storage Basin

**Preliminary - For Budget Development Only  
Legend**

- PS Proposed Pump Station Solution
- Active CSO
- Eliminated CSO
- PS Pump Station
- Proposed Pipe Solution
- Force Main
- Collector < 12"
- Interceptor => 12"
- Combined Sewer Pipe
- Streams
- Proposed Storage Solution
- Floodway
- Metro Parks
- County Boundary

**General representation of overflow abatement solutions are for preliminary planning purposes. Alignments and locations may be altered during design.**

1 inch equals 400 feet  
Scalable when printed on 11" X 17" paper



Some boundaries are uniquely symbolized within the map.  
Map Revision  
December 3, 2008  
Aerial Date: 2006



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# CSO LTCP Project Fact Sheet



**LTCP Project Number:** L\_SO\_MF\_097\_M\_09B\_B\_D\_8

**Project Name:** Calvary / Creekside Storage Basin

**Project Type:** Off-Line Storage

**Receiving Stream:** South Fork Beargrass Creek

**Project Description:** This project includes an 3.46 MG underground covered storage basin for CSO097, 106, 110, 111, 137, 148, and 151 to reduce overflows to 8 overflows per year. The facility will require an 3.46 MGD PS to return flow to the interceptor.

**Design Parameters / Assumptions:** Basins are designed to the 9th overflow event volume, resulting in 8 CSO overflows/year. The 9th peak flowrate is evaluated to compare gravity vs. pumped conveyance. Design for pump-back is 24 hours. Type of basin based on hydraulics and surroundings.

**Surrounding Area Land Use:** This project is located within 'Parks, Cemeteries, etc.'. The project is located between Calvary Cemetery and Saint Xavier High School. It is located approx. 1000' Southeast of CSO097 & CSO106.

**Apparent Utilities Description:** No major utilities conflict within the area of the proposed basin

**Capital Projects:** 2013~Elimination of CSO106; 2007~Middle Fork Rehab Phase 2 & 2013~RTC @ CSO097, 110 & 151 - Awaiting Start

**Advanced Site Restoration:** N/A

**Estimated Capital Cost (2008):** \$10,900,000

**Capital Cost / Gallon Overflow Removed:** \$0.07

**Weighted Benefit / Cost Ratio (Capital Cost):** 81.77

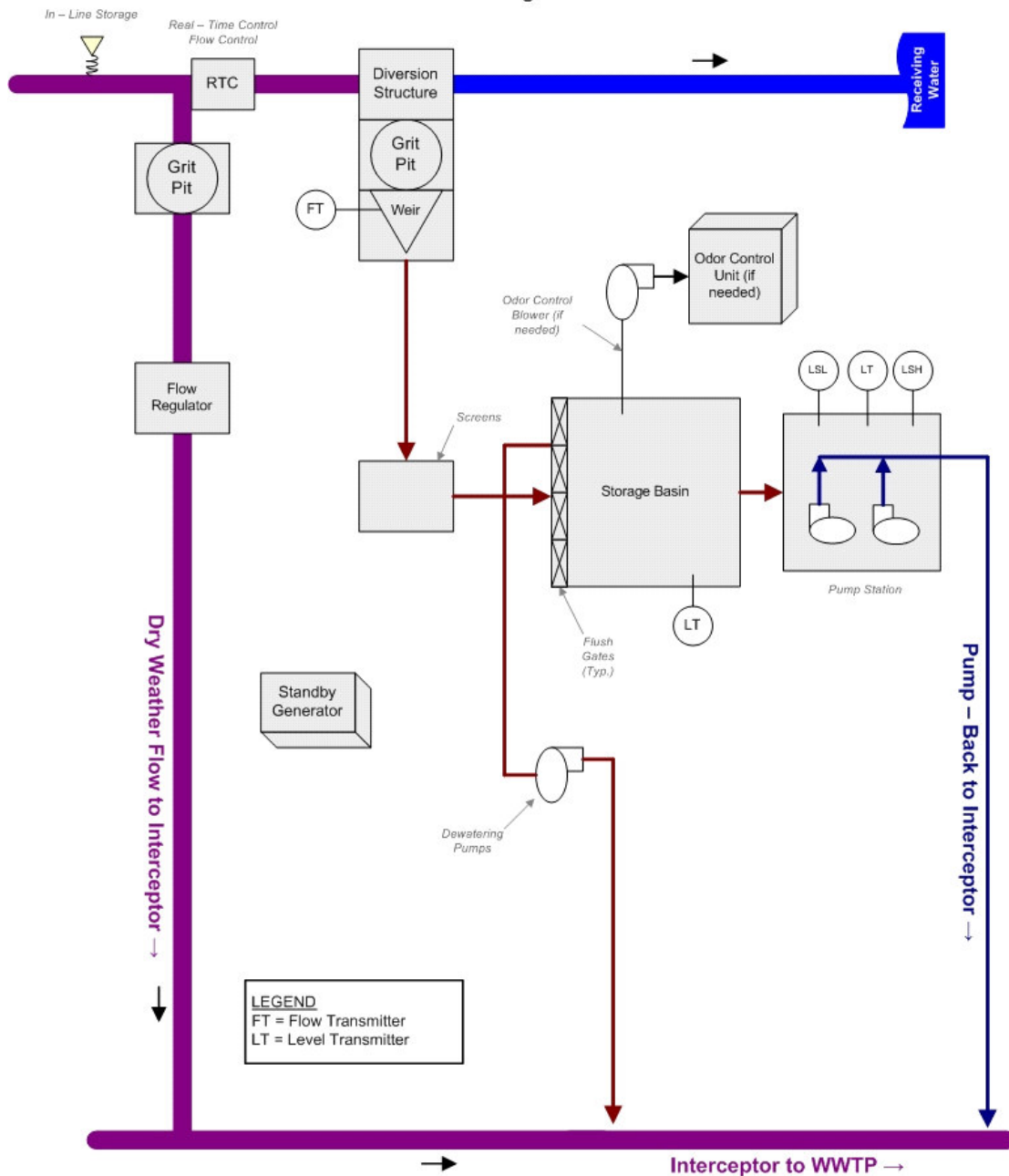
**Overflow Points Addressed:**

<u>CSO Number</u>	<u>CSO Name</u>	<u>CSO Area (Acres)</u>	<u>2008 AAOV (MG / Yr)</u>	<u># of Overflows / Yr</u>	<u>Post LTCP AAOV (MG/Yr)</u>	<u>Post LTCP # Overflows / Year</u>
CSO097	Cantonment Siphon Number 2	0.00	12.31	44	1.35	8
CSO106	Royal - Neff	11.80	0.33	17	0.17	8
CSO110	Regulator Number 3 - Goss Avenue	73.04	27.53	44	2.51	8
CSO137	Calvary Cemetery	26.65	3.97	37	0.51	8
CSO148	Eastern Parkway Diversion	24.89	1.26	26	0.37	8
CSO151	Regulator Number 5 - Castlewood	219.74	80.26	57	8.23	8

*NOTE: CSO hydraulic statistics are predicted based on InfoWorks model results.*

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**Hybrid Technology:  
Off-Line Storage with Real Time Control  
Pumped Effluent  
Flow Diagram**





**Integrated Overflow Abatement Plan**  
**Vol. 2 - Final CSO Long Term Control Plan**  
 South Fork Beargrass Creek  
 SolutionID # L\_SO\_MF\_097\_M\_09B\_B\_D\_8  
 Calvary / Creekside Storage Basin

**Preliminary - For Budget Development Only**  
**Legend**

- PS Proposed Pump Station Solution
- Active CSO
- Eliminated CSO
- PS Pump Station
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- Force Main
- Collector < 12"
- Interceptor => 12"
- Combined Sewer Pipe
- Streams
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**General representation of overflow abatement solutions are for preliminary planning purposes. Alignments and locations may be altered during design.**

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