

Project Name: Central Relief Drain CSO In-line Storage, Green Infrastructure & Distributed Storage

Project Type: Diversion, Inline Storage and Green Infrastructure

Rec Stream: Ohio River

Project Description: Modify weir elevations to maximize in-line storage to the extent practicable. Focused modeling and monitoring will be utilized to determine if the level of control is met. Green infrastructure and distributed storage within the CSO drainage areas will be constructed to reach the 8 overflow in a typical year level of control, if necessary.

Design Assumption: Assumes weir raises will be acceptable. Additional evaluating of potential flooding at weir raise level will need to be evaluated based on the configuration of each CSO structure. Green Infrastructure or bending weirs may be used to mitigate potential increase of flooding risks.

Capital Cost: \$2,184,000

Capital Benefit/Cost: 543.96

Present Worth Benefit Cost: 581.21

CSO	CSO Name	Existing May 2012 ¹		Baseline May 2012 ²	
		Avg. Annual Overflow Volume	Avg. Annual Frequency	Avg. Annual Overflow Volume	Avg. Annual Frequency
CSO028	CRD 6th & YORK	1.28	26	1.28	26
CSO029	CRD 8th & YORK	5.30	37	5.30	37
CSO034	CRD 4th & YORK	0.29	21	0.29	21
CSO036	CRD 3rd & BROADWAY	0.00	0	0.00	0
CSO178	CRD 9th & YORK "B"	18.58	48	18.58	48
CSO181	CRD 2nd & BROADWAY NO 2	15.70	61	15.70	61
CSO193	CRD S 6th & KENTUCKY	0.02	4	0.02	4
CSO195	CRD S 4th & OAK	1.55	42	1.55	42
CSO196	CRD S 3rd & OAK	0.00	1	0.00	1
CSO197	CRD S 3rd S OF OAK	1.87	45	1.87	45
CSO199	CRD S 3rd N OF MAGNOLIA	0.19	27	0.19	27
CSO200	CRD S 3rd & MAGNOLIA	2.54	57	2.54	57
CSO202	CRD S ORMSBY W OF 3rd	0.05	9	0.05	9

1. Existing May 2012 conditions reflect existing system operating conditions as of that date.

2. Baseline May 2012 assumes all SSDP projects are complete and critical combined sewer facilities (e.g. Morris Forman WQTC Southwestern Pump Station, Starkey Pump Station) are operating at optimal, sustainable levels.