

FINAL - Newport Combined Sewer Overflow (CSO) Stakeholder Workgroup: Meeting #6A

ATTENDEES: See Attachment 1

DATE & PLACE: March 8, 2012 @ 3:00 PM; Newport Police Station Assembly Room,
120 Broadway Newport, RI

Welcome & Introductions

Julia Forgue introduced City staff as well as the CH2M HILL consultant team members.

Overview of Agenda

Julia Forgue provided an overview of the agenda and asked if there were any questions before moving forward. A summary of the agenda follows:

1. Overview of the CSO Program schedule
2. Approval of previous meeting's minutes
3. Follow-up on Parking Lot items
4. Middletown
5. Naval Station Newport
6. Key Meeting Topics
 - a. Results of Stakeholder Prioritization Criteria
 - b. System Behaviors & Control Technologies
 - i. Infiltration/Inflow
 - ii. Conveyance
 - iii. CSO Controls
7. Next meeting information

Overview of CSO Program Schedule

Becky Weig provided an overview of the, CSO Program Mission Statement and CSO Program schedule.

Previous Meeting's Minutes

The minutes of Meeting #6 were approved.

Update on Parking Lot from Previous Meeting

There were no Parking Lot items from the previous meeting.

Naval Station Newport

Jim Carlson from Naval Station Newport (the Station) and a member of the CSO Stakeholder Workgroup presented an update on the Station's sanitary sewer program.

The Station completed a lot of sanitary sewer work in the mid-1990s to separate stormwater from the sanitary sewer system. This reduced flow by about one-third to approximately 1.2 MGD.

The Station completed a sewer system assessment last spring and did identify some stormwater connections to the sanitary sewer system. They have scheduled these to be disconnected in 2014. In addition the Station will be completing manhole rehabilitation work over the next few summers.

The Station cleans and performs CCTV inspections of the sanitary sewer system on a 5-year cycle.

The Station also has plans to improve the metering at smaller lift stations.

Questions & Answers:

Q: Does the Station have any storage?

A: No.

Q: Is the Station seeing an increase in flows from additional schools being hosted at the site?

A: No. With the reduction of housing and demolition of older buildings on the station, the flows have been about the same. In addition to the demolition of older buildings, the Station has implemented a significant amount of water conservation.

Q: What is the Station's flow allotment per the contract?

A: 2.5 MGD.

Q: Does metering show an impact from rain events on the Station's system?

A: Yes. It depends on the storm event.

Middletown

Tom O'Loughlin, DPW Director for the Town of Middletown (the Town) and member of the CSO Stakeholder workgroup, presented an update on the Town of Middletown's sanitary sewer program.

The Sewer System Evaluation Study was completed in 2003. From the Study it was determined that the prioritized projects and areas were Bailey Brook Interceptor, lining rehabilitation of approximately 700 sanitary manholes, sliplining of sanitary sewers in the Coddington Manor, Chase Estates, Birchwood Manor and Evergreen Park areas.

The Town has completed all of the recommendations from the 2003 Sewer System Evaluation Study except the Forest Ave. project which will be going out to bid in about 2 months.

The Town has made its SSO Alternatives and Stormwater Alternatives reports available to the stakeholder workgroup. In these reports it states that the Town is going to continue to investigate and remove sources of I/I. For I/I investigation and removal the Town plans to perform CCTV of the sewer lines and private laterals in order to identify priority areas for repair and rehabilitation.

For stormwater, the Town has started work on the Esplanade project to relocate a stormwater outfall off shore. The Town is studying the feasibility of creating a stormwater utility.

Questions & Answers:

Q: In the SSO Alternatives Report the peak infiltration seems to be from some key subareas, is this true?

A: Yes, these are the target subareas on the priority list. There are a lot of clay pipes in these areas and no stormwater infrastructure. All of the properties in these areas have been inspected and sump pumps disconnected, but the areas need to be reinspected. If funding is available the Town may do some private lateral repairs.

Q: SSOs at Wave Ave. Pump Station have been significantly reduced since 2010. What has changed? Is it reduced I/I or is more flow being pushed to Newport?

A: Flow from the Wave Ave. Pump Station to Newport is the same. There is a design restriction on the pump station so there could be no increase in pumping to Newport. The reduction in SSOs is due to reduced I/I.

Q: Does Newport have data for flows from Wave Ave. Pump Station?

A: Yes, Newport has had access to the SCADA data for the pump station for 3 years.

Q: How are Middletown flows impacting Newport? How will Newport account for Middletown's planned I/I reduction?

A: This will be covered during the key topics of today's meeting. According to DEM it is hard to estimate the amount of I/I reduction that will be achieved.

Key Meeting Topics**Results of Stakeholder Prioritization of Criteria**

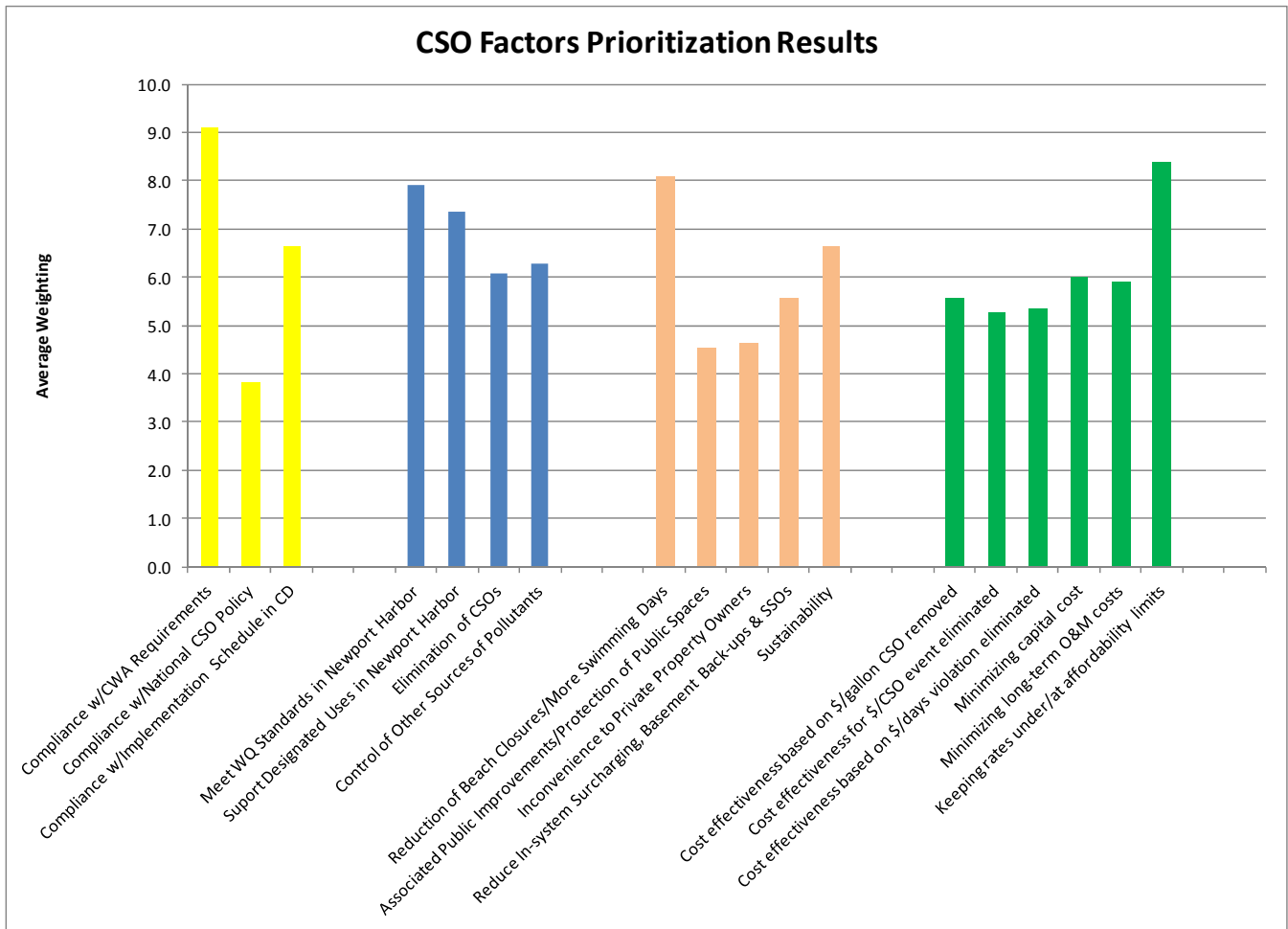
Becky Weig presented the results of the stakeholder prioritization exercise from the previous meeting. The full results are presented in Exhibit 1. In summary the 4 highest ranked categories were:

1. Meeting CWA requirements
2. Maintaining affordable rates
3. Reducing beach closures at King Park Beach
4. Meeting WQ standards.

The participants then discussed the results and why these criteria were their priorities. Key issues from the discussion were:

- For maintaining affordable rates, the connection between the total program cost and the implementation schedule will need to be explained.
- For reducing beach closures, key items that will be important in determining the importance of this criteria will be what does it cost to keep the beach open, how many days per year are estimate for closure, and other swimming areas that aren't designated beaches should also be considered.
- For maintaining water quality standards, it was ranked high because of the impact on tourism and public confidence on the use of the Harbor.
- For compliance with the Clean Water Act, it will be difficult to measure against, but the CD and implementation schedule should lay out the steps to achieve compliance.

EXHIBIT 1
Results of Stakeholder Prioritization of Criteria



Collection System Capacity Assessment – System Behaviors and Control Technologies

Peter von Zweck and Jen Reiners presented the preliminary findings of the Collection System Capacity Assessment (CSCA) which included the system behaviors and the control technologies that could be considered at this phase of the program:

- I/I Reduction
 - Control Technologies
 - Model Results
- Conveyance System and Plant Improvements
 - Overview of current characteristics
 - Control technologies for optimization of the existing system
 - Model results for conveyance and plant optimization

All of the preliminary results presented were for a 2-year, 6-hour storm. For I/I reduction alone, there were 12 scenarios evaluated using the hydraulic model and the preliminary results presented showed that I/I reduction alone, even at the maximum reduction, would not result in the elimination of CSOs. For conveyance and plant optimization, there were 18 scenarios evaluated using the hydraulic model

and the preliminary results presented showed that conveyance and plant optimization alone would not result in the elimination of CSOs. For combinations of I/I reduction and conveyance and plant optimization, 19 scenarios were evaluated using the hydraulic model and the preliminary results showed that there were a few combinations that included maximum I/I reduction in conjunction with conveyance and plant optimization may result in CSO elimination for a 2-year, 6-hour storm, but it was noted that the maximum level of I/I reduction may not be realistically feasible.

Questions & Answers:

Q: How much more capacity would be needed at the WPCP with reasonable I/I reduction?

A: That is something that will be covered at the next meeting.

Q: Is the goal to reduce CSO at both Wellington and Washington, or just one?

A: Both.

Q: Did the analysis provide any interesting or unexpected findings?

A: Two findings were interesting or unexpected:

- The amount of I/I attributed to private infrastructure was much more than seen in other CSO communities.
- The significance of changing the weirs on Thames St. was greater than expected.

Q: In the System Master Plan (SMP) is blended flow at the WPCP an option?

A: From the regulatory front this is an emerging area for RIDEM, but they would prefer to see full secondary treatment.

Parking Lot:


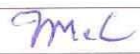
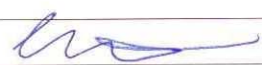
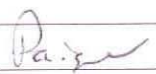
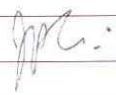
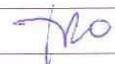

- There were no questions placed in the Parking Lot.

Next Meeting

The next meeting was set for May 3, 2012 at 3pm at Newport City Hall Council Chambers. The topic of the next meeting will be system behaviors and control technologies.

CSO Stakeholder Workgroup Meeting #6A

Attendees

MEETING DATE:	Thursday March 8, 2012 @ 3:00 PM	
LOCATION:	Police Station Assembly Room - Newport, RI	
Name	Affiliation	In Attendance
Workgroup Members		
Justin McLaughlin	City Council	
Ray Smedberg	Ad Hoc Committee	
David McLaughlin (Alternate)	Ad Hoc Committee	
John McCain	ALN	
Roger Wells (Alternate)	ALN	
Tina Dolen	Aquidneck Island Planning Commission	
Chris Witt (Alternate)	Aquidneck Island Planning Commission	
Charles Wright	Beach Commission	
Kathleen Shinnors (Alternate)	Beach Commission	
Bill Riccio	Dept. Public Services	
Eric Earls (Alternate)	Dept. Public Services	
Paige Bronk	Dept. Planning	
Bill Hanley (Alternate)	Dept. Planning	
Tim Mills	Harbor Master	
Mary E. Dever-Putnam	EPA	
James Carlson	NSN	
William Monaco (Alternate)	NSN	
Jody Sullivan	Newport County Chamber	
Ed Lopes (Alternate)	Newport County Chamber	
Evan Smith	NCCVB	
Cathy Morrison (Alternate)	NCCVB	
Shawn Brown	Middletown	
Tom O'Loughlin (Alternate)	Middletown	
Eric Beck	RIDEM	
Joseph Haberek for Angelo Liberti (Alternate)	RIDEM	
Jim Brunnhoeffer	RWU	
B. Gokhan Celik (Alternate)	RWU	

