

Attachment 1A

MEETING SUMMARY

H2O – Help to Others – Program Board of Directors

AGENDA

May 4, 2011

Lee Hall Maintenance and Operations Center

425 Industrial Park Drive

Newport News

1:30 PM

1. Discussion of Re-Launch of H2O - Help to Others - Program

HRPDC staff briefed the Board of Director's on activities to support re-launch of the H2O Program. Staff has been coordinating with HRSD on envelope donations, targeted for launch in the October – December 2011 timeframe. Staff is also researching viability of PayPal online donations and text message donations and will be adding a link to the program to the HRPDC website.

Mr. Ted Henifin indicated that, although HRSD will continue to assist with the distribution of donation envelopes, the utility will be switching billing systems and will incur a cost per transaction. HRSD asked if any other utility would volunteer to take over receipt of program donations. HRPDC staff will follow-up with HRSD to estimate the cost associated with processing donations.

In order to streamline program management and unburden utility departments, staff is researching third-party program administration through a social services organization such as The Salvation Army. The Salvation Army is already involved in the Dominion Energy Shares program, where Dominion allocates funds to each Salvation Army office at the beginning of each fiscal period. The office handles client applications for assistance and is responsible for sending payment to the utility.

With respect to evaluating the assistance amount of \$250, staff is researching the amount of the average combined bill and will report findings to the Board at a future meeting. The Board discussed the timing of warning notices and water shut-off. In general, the group commented that the \$250 assistance amount is appropriate to cover the average combined fees for a four month period.

Staff is also considering revisions to the criteria document, as the current language may be perceived to encourage payment delinquency. The Board noted that, although delinquency is not necessarily a prerequisite to qualify for assistance, a delinquency notice may effectively demonstrate a client's need.

The Board discussed the use of program funds to pay for combined utility, trash, and stormwater bills. Many localities have a hierarchy of how payments toward combined

bills are applied toward water fees, stormwater fees, trash fees, etc. Water and sewer fees are not necessarily paid first. It was noted that the Board needs to decide if the application of program funds beyond water and wastewater fees is appropriate.

ACTION: HRPDC staff will report back to the Board with information on program administration options and the average combined bill. Staff will provide recommendations on revising the criteria document.

**MEETING SUMMARY
DIRECTORS OF UTILITIES COMMITTEE
May 4, 2011
Lee Hall Maintenance and Operations Center
425 Industrial Park Drive
Newport News
1:30 PM**

1. Summary of April 6, 2011 Meeting of the Directors of Utilities Committee

The Summary of the April 6, 2011 meeting of the Directors of Utilities Committee was approved.

2. Private Property Infiltration and Inflow (I/I) Abatement Program

The development of a regional private property I/I abatement program was discussed at the April 21, 2011 Chief Administrative Officers (CAO) meeting. Mr. Ted Henifin represented HRSD at the CAO meeting and briefed the Committee on the discussion. Mr. Henifin emphasized that addressing private property I/I flows is required per the Special Order of Consent (SOC) and, therefore, development of an abatement program is not optional. The CAOs expressed support for development of a regional program and committed to further discussions to inform their respective elected officials.

Mr. John Carlock indicated that the topic will be included on May 19, 2011 HRPDC meeting agenda, with Mr. Henifin providing a briefing to the Commissioners. The Commissioners will be asked to endorse the concept of a regional program, subject to program development by the Committee. It is anticipated that a follow-up briefing on detailed program plans can be presented to the Commissioners in the fall.

Mr. Carlock clarified that, although the HRPDC is not a party to the SOC, the Directors of Utilities Committee (DUC) had in the past agreed to seek PDC acceptance or approval for SOC-related activities prior to approaching locality boards and councils. The development of a private property I/I abatement program is following this same process.

ACTION: The Committee recommends that HRPDC endorse the concept of a regional private property I/I abatement program, subject to program development by the DUC and future program briefings. The topic will be included on the May 19, 2011 HRPDC meeting agenda.

3. UASI Grant Proposals and Selection Panel Review

The selection panel completed the proposal evaluation and interview process. Mr. Eric Tucker briefed the Committee on the selection panel's activities. Of the six proposals received, four project teams were identified for further consideration and interviews. Following the interviews, the panel's general assessment of the four prospective project teams is summarized below:

- Tetra Tech EM Inc. did not demonstrate adequate knowledge of local water systems.
- URS Corporation's emphasis on a model/simulation project component was not balanced by an adequate treatment of security issues.
- Virginia Modeling, Analysis and Simulation Center proposed a logical analysis, but could have demonstrated better knowledge of local water and wastewater systems.
- Watermark Risk Management International, Inc. demonstrated good knowledge of local water systems and the capability to address the security component of the project.

The panel's recommendation for contractor selection is to move forward with contract negotiations with Watermark Risk Management. The panel also recommends that the project scope include two training exercises – one for the Peninsula and one for the Southside. The Committee unanimously accepted the panel's recommendation. Copies of the presentation made by Watermark Risk Management were circulated during the meeting.

ACTION: The Committee recommends commencing contract negotiations with Watermark Risk Management International, Inc. for consultant services in response to RFP no. WR-RFP-2011-01. Approval for the Executive Director to execute a contract, subsequent to successful negotiations, will be requested at the May 19, 2011 HRPDC meeting.

4. Committee Reports

- **Water Reclamation and Reuse Regulations:** Mr. Eric Tucker provided a summary of the April 21 and May 2, 2011 Advisory Committee meetings on revisions to the Water Reclamation and Reuse Regulation (9VAC25-740, effective October 1, 2008). The Advisory Committee identified two key issues in the existing regulations:
 - Lack of flexibility to accept variations in system design.
 - Lack of provisions to allow temporary use of reclaimed water during periods of drought.

A total of 22 amendments were proposed; four areas were subject to significant discussion as follows:

- Permit requirements: The current regulations require that a contract be negotiated between the supplier and each customer of reclaimed water. There are no provisions for a rate-setting process. City ordinances should be allowed to address this.
- Permit applications: The current regulations hold the supplier responsible for the proper storage and use by customers, but there are no provisions to allow suppliers to access and inspect customer use and storage facilities to confirm compliance with regulations.
- Permit requirements: The current regulations require point of compliance monitoring at various locations. This is excessive and the Advisory Committee suggests only requiring monitoring at the plant and at the end user location, since water quality demonstrated at the end user location would require water quality to be maintained throughout the transmission line.
- Design Criteria: The current regulations require pipes transmitting reclaimed water to display proper markings every 10 feet. This is problematic with respect to the conversion of existing or abandoned underground water systems to reclaimed water. The existing regulatory requirements discourage such system conversions because of the costs associated with excavation/site restoration. The Advisory Committee suggests that the 10-foot interval marking requirement be applicable only to above-ground pipe installations. Underground systems transmitting reclaimed water could be marked by signage and by markings at start and end point valves/covers. It was noted that representatives from the Virginia Department of Health (VHD) expressed concerns with this suggestion, but did not articulate that they were against it.

Mr. Tucker will provide HRPDC staff with materials from the April 21 and May 2, 2011 meetings. The Advisory Committee has two more meetings scheduled prior to the deadline for final comments.

- **Consensus on Regional Hydraulic Model Inputs and Calibration:** The Capacity Team developed a document to memorialize consensus on the input data and application of the Regional Hydraulic Model (RHM). The agreement was to be executed by parties to the Special Order of Consent (SOC) no later than May 1, 2011. Mr. Henifin indicated that consensus was not reached by the deadline, and that HRSD will be providing a letter to DEQ indicating as such. HRSD is working with Chesapeake to resolve outstanding issues. Mr. Henifin commented that reaching consensus will become more challenging in the future, and encouraged parties to raise issues and concerns early.

Mr. Craig Ziesemer commented that delays in consensus on the RHM will affect downstream work.

ACTION: No action.

- **Rehabilitation Guidelines, Standards and Tools (RGST) Business Rules:** As a follow-up to the April 6, 2011 DUC meeting discussion, Mr. Richard Stahr, Brown and Caldwell, provided an update on the development of the RGST Business Rules. The latest version of the document (version 13) was distributed to the DUC prior to the meeting. Mr. Stahr noted that the document is almost complete and a revised document (version 14) is forthcoming with changes regarding the following:
 - Rehabilitation Toolbox: The purpose of this section is to provide consistency in the development of rehabilitation cost estimates. The table will be revised to show a minimum cost and a cost range for each rehabilitation technique
 - Growth: Language will be added to provide a mechanism to adjust for population growth over the implementation period of rehabilitation plans.

Mr. Stahr reviewed his communications with DEQ following the April 6, 2011 DUC meeting and noted that the agency is not amenable to developing the Business Rules into a Minor Revision to the Regional Technical Standards (RTS). Therefore, the Capacity Team will revise the Business Rules document into a technical memorandum to be signed by the SOC parties.

The Capacity Team is preparing rehabilitation plans for a sampling of basins in accordance with the Business Rules and plans to review these with DEQ. This exercise is intended to reinforce understanding of the Business Rules and facilitate future DEQ review of rehabilitation plans.

SOC parties have agreed to a deadline of 5/1/2012 for completion of all rehabilitation plans; this allows for inter-party coordination of plans prior to the November 2012 deadline for plan submittal to DEQ. The rehabilitation plans will provide the basis for the Regional Wet Weather Management Plan (RWWMP).

Mr. Stahr indicated that HRSD is planning a data call to support work with localities on quantifying private system flow contributions.

The Committee discussed the Business Rules text. Questions or comments from the Committee are italicized.

- *The rules currently focus on gravity lines. Language must be added to address the treatment of force mains and pump stations in rehabilitation plans.*

The requirement for rehabilitation plans to be inclusive of all facilities necessitates an “out clause” to allow the force mains and pump stations to be addressed in the RWWMP.

The language regarding pump station upgrades needs to be flexible.

- *Does HRSD plan to project for pump station design? The sooner we can agree on targets, the sooner we can deal with the pump station issue.*
That is part of the overall policy review and will be addressed between the Capacity Assessment and the RWWMP – about a two-year period.

- *The formula for rehabilitation uses a gallons-per-day ERU approach. Do we need to convert these numbers to total flows or show both ERUs and total flows to correlate with data provided in prior DEQ submittals?*

This point is acknowledged; some interpretation will be needed.

- *Have the attorneys reviewed the document?*

The SOC language regarding rehabilitation plan cost is vague – only indicating that costs need to be provided. This document is intended to assist in determining costs.

Parties have already agreed to these milestones. If attorneys are to become involved, parties need to be mindful of the SOC timeframe.

There is precedent that Capacity Team work is not reviewed by legal counsel.

The Business Rules are an extension of the RTS.

DEQ does not want an enforceable document – this discounts the need for attorney review.

A non-enforceable document could be advantageous. There is the concern that localities may not be able to make commitments beyond those approved by city councils.

About 50 percent of localities have developed first order cost estimates at this point and are using this information to understand future commitments.

EPA’s Region 3 has set precedent by rejecting Baltimore’s proposed 2-year level of service.

Mr. Stahr asked the Committee if the Capacity Team may move forward or if there are any “show stopper” issues from the Directors’ prospective. Questions or comments from the Committee are italicized.

- *Consideration should be given as to how to address areas where development stopped prior to completion of construction.*

- *CDM population projections need further discussion.*

- *I/I flows from known defects on private property should be addressed.*

The single-family home aspect is addressed by estimating I/I flow contribution based on inch diameter miles of pipe, but the Capacity Team is still struggling with the treatment of commercial properties.

Mr. Stahr requested that any further comments be submitted as soon as possible and estimated that the Capacity Team will be able to provide updated Business Rules to the DUC for approval in July, as well as a summary of DEQ's review of the sample rehabilitation plans.

Mr. Stahr reviewed the following deadlines from Minor Revision No. 1:

- May 1, 2011: Consensus on the RHM inputs
- October 2011: HRSD boundary conditions
- December 2011: Model documentation
- July 2012: Locality conditions

ACTION: No Action.

5. Staff Reports

- **Committee Decision-Making Procedures:** The guidelines for committee decision-making procedures were finalized per comments received at the April 6, 2011 Committee meeting and distributed to the Committee on April 26, 2011. The Committee had no further comments or questions on this document.
- **Regional Water Supply Plan:** The Committee agreed that demand projections at the locality/system level should be included in an appendix to support the regional and sub-regional projections presented in the plan. The committee also agreed to include in an appendix the 10-year water use data used to develop per-capita use estimates.

HRPDC staff provided a handout outlining a proposed schedule for plan completion and submittal of the plan to HRPDC at the June meeting. The Committee accepted the schedule and indicated that Directors will likely brief city managers on the plan prior to the HRPDC meeting. Staff will distribute the final plan to DUC on June 3, 2011 when it is submitted for inclusion in the HRPDC agenda packet.

- **Hampton Roads Water Quality Response Plan:** HRPDC staff is conducting the annual update of the Hampton Roads Water Quality Response Plan Contact List. Many localities have already submitted updated information. Revisions should be sent to Tiffany Smith (tsmith@hrpdcva.gov) by May 31, 2011.
- **Sanitary Sewer Overflow Reporting System (SSORS):** After reviewing the budget allocations, HRPDC staff recommends requesting a revised fee proposal from the consultant for this year and next year and that the contract amount remain the same

through next year. The Committee accepted this recommendation and HRPDC staff will follow-up with the consultant.

6. Other Business

- The Committee considered topics for discussion at the June 1, 2011 Joint Meeting of the Utility Directors and Health Directors. The Committee agreed to include the following:
 - Water Reclamation and Reuse Regulation
 - UASI Water Supply Assessment and Emergency Response Training project
 - VDH regulatory updates

The following topics were suggested for the July DUC meeting:

- Planning for safe shelter for municipal assets during a major catastrophe.
- VDH requirements for boil water notices and the Total Coliform Rule revisions (invite Dan Horne for discussion)

ACTION: No Action.

Committee Meeting Sign-In Sheet

| Locality/Agency | Representative | Representative | Representative | Representative |
|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| HRSD | Ted Henifin | Phil Hubbard | | |
| Chesapeake | Jim Walski | | | |
| Franklin | | | | |
| Gloucester | Martin Schlesinger | | | |
| Hampton | Jason Mitchell | | | |
| Isle of Wight | | | | |
| James City County | Larry Foster | | | |
| Newport News | Brian Ramaley | Everett Skipper | Steve Land | Rhonda Sturgis |
| Newport News | Parimal Patel | | | |
| Norfolk | Kristen Lentz | Eric Tucker | | |
| Poquoson | Bob Speechley | Ellen Roberts | | |
| Portsmouth | | | | |
| Smithfield | | | | |
| Southampton | | | | |
| Suffolk | Craig Ziesemer | | | |
| Surry | | | | |
| Virginia Beach | Bob Montague | | | |
| Williamsburg | | | | |
| Windsor | | | | |
| York | | | | |
| HRPDC | John Carlock | Katie Rider | Lisa Hardy | Tiffany Smith |
| HRPDC | | | | |
| New Kent | | | | |
| DEQ | | | | |
| EPA | | | | |
| USGS | | | | |
| VDH | | | | |
| VDH | | | | |
| VDH | | | | |
| AECOM | | | | |
| AquaLaw | | | | |
| Brown & Caldwell | Richard Stahr | | | |
| CH2M-Hill | | | | |
| Christian Barton | | | | |
| Hurt & Proffitt, Inc. | | | | |
| McGuire Woods | | | | |
| Prism C.E. | | | | |
| Remsa, Inc. | | | | |
| Troutman Sanders | | | | |
| URS | | | | |

**Regional WSP
Schedule for Final Plan Review**

MAY 2011

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|--|--|--|----------|--------|----------|
| 1 | 2 | 3 | 4 DUC Meeting | 5 | 6 | 7 |
| 8 | 9 <i>WSP draft sec. 6/7 to DUC for review</i> | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 DUC comments due WSP draft sec. 6/7 | 17 | 18 <i>Pre-Final WSP to DUC for review (sec. 1-7 & appendices)</i> | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 Memorial Day Holiday | 31 DUC comments due Pre-Final WSP (sec. 1-7 & appendices) | | | | |

JUNE 2011

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|--------|---------|---|---|--|----------|
| | | | 1 DUC Meeting ----- <i>Staff prepares</i> <i>Final WSP</i> -----> | 2 | 3 PDC Agenda Due (12 noon) Includes FINAL WSP | 4 |
| 5 | 6 | 7 | 8 PDC Agenda Mailed | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 PDC Meeting *commence local program adoption process | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | | |

Attachment 2A
JOINT MEETING SUMMARY
DIRECTORS OF UTILITIES COMMITTEE
DIRECTORS OF HEALTH
December 1, 2010
HRPDC - Chesapeake

1. Summary of November 3, 2010 Meeting of the Directors of Utilities Committee

The Summary of the November 3, 2010 meeting of the Directors of Utilities Committee was approved.

2. Summary of the June 2, 2010 Joint Meeting of the Directors of Utilities Committee and Health Directors

The summary of the June 2, 2010 joint meeting of the Directors of Utilities Committee and Health Directors was approved.

3. VDH Regulatory Update

Mr. Dan Horne, VDH, briefed the group with a state and federal legislative update on items pertaining to drinking water and water utilities. Items discussed include:

- EPA approved VDH's Arsenic rule on November 8, 2010 granting VDH primary enforcement responsibility. EPA granted VDH interim primacy on rules for Long Term 2 Enhanced Surface Water Treatment Rule and Stage 2 Disinfectants/Disinfection By-Products Rule on November 16, 2010. VDH's draft Groundwater Rule is currently under EPA Review.
- EPA Revised Total Coliform Rule
- Expansion of Eastern Virginia Groundwater Management Area
- Ground Water Withdrawal Regulations
- Biosolids
- Water Reuse

Handout from Mr. Horne attached.

Mr. Dan Dietrich, VDH, briefed the group on EPA's current efforts to revise recreational water quality standards.

Presentation from Mr. Dietrich attached.

ACTION: No action taken.

4. HRSD Program Update

Mr. Jay Bernas and Mr. Bruce Husselbee, HRSD, provided an update on current programs, including HRSD's Capital Improvements Plan, GIS/Envista resources, and the training program for construction inspectors.

Presentation from Mr. Bernas and Mr. Husselbee attached.

ACTION: No action taken.

5. Staff Reports

- A. Capacity Team Update: The Committee was briefed on the Capacity Team efforts to develop sewer system rehabilitation guidelines to ensure consistent efforts across the various localities.
- B. Urban Areas Security Initiative (UASI) Grant Update: HRPDC staff indicated that funds were allocated for the UASI grant for the Water Supply Assessment and Emergency Response Training project, and staff will begin drafting the RFP. The draft RFP will be sent to the Committee for review.
- C. Groundwater Program Update: HRPDC staff consulted with DEQ. The agency expects to use the new Virginia Coastal Plain groundwater model for permit evaluations after the regulations are updated. Staff also discussed the potential for an HRPDC-DEQ cost sharing project to fund additional USGS modeling work. Further discussion with DEQ is pending.
- D. Regional Water Supply Plan: HRPDC staff will distribute for Committee review the first draft section of the Regional Water Supply Plan. Staff indicated that work is continuing on schedule and the consultant's tasks are anticipated to be completed by the end of 2010.
- E. Infiltration and Inflow (I/I) Ordinance Brief to HRPDC: Regarding the private sewer system infiltration and inflow (I/I) abatement program, the Committee agreed that the Capacity Team should discuss the potential for addressing private-side I/I by applying HRSD's "enabling act," which allows HRSD to access private property. Following consideration by the Capacity Team, a brief should be prepared for review by the Directors of Utilities Committee prior to presentation to HRPDC, tentatively in March 2011.

6. Roundtable Discussion

The Committee roundtable discussion included mosquito abatement and alternative onsite sewage (AOSS) disposal regulations. Newport News indicated receiving criticism for mosquito spraying from a few individuals and an environmental group. The health directors recommended that consistent use of data-driven, evidence-based mechanisms

to mitigate risk of mosquito-borne diseases remains in the best interest of public health. As for AOSS disposal regulations, the Committee discussed the key components of the proposed final AOSS regulations, and the Committee noted the change that localities cannot prohibit AOSS under the new rules, that existing system repairs and new system installation costs will increase, and that development of rural areas may increase.

ACTION: No action taken.

7. **FY 2012 Budget**

The HRPDC staff discussed the proposed water and wastewater budgets for next year. The Committee directed HRPDC to develop budgets to accommodate a potential 5% reduction.

ACTION: HRPDC will distribute a revised budget to the Committees for review.

Committee Meeting Sign-In Sheet

| Locality/Agency | Representative | Representative | Representative | Representative |
|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| HRSD | Jay Bernas | Bruce Husselbee | Ted Henifin | |
| Chesapeake | Jim Walski | | | |
| Franklin | | | | |
| Gloucester | | | | |
| Hampton | | | | |
| Isle of Wight | | | | |
| James City County | Larry Foster | | | |
| Newport News | Eileen Leininger | Joe Du Rant | Reed Fowler | Everett Skipper |
| Norfolk | | | | |
| Poquoson | Bob Speechley | | | |
| Portsmouth | Bryan Foster | | | |
| Smithfield | | | | |
| Southampton | | | | |
| Suffolk | Craig Ziesemer | | | |
| Surry | John Edwards | | | |
| Virginia Beach | Tom Leahy | | | |
| Williamsburg | | | | |
| Windsor | | | | |
| York | | | | |
| HRPDC | Jennifer Tribo | Whitney Katchmark | John Carlock | Tiffany Smith |
| New Kent | | | | |
| DEQ | | | | |
| EPA | | | | |
| USGS | | | | |
| VDH | David Trump | Venita Owens | Erin Sutton | John Schellenberg |
| VDH | Agnes Flemming | Jay Duell | Nancy Welch | Dan Dietrich |
| VDH | Dan Horne | | | |
| AECOM | Gary Heisler | Peter Oram | | |
| AquaLaw | | | | |
| Brown & Caldwell | | | | |
| CH2M-Hill | | | | |
| Christian Barton | | | | |
| Hurt & Proffitt, Inc. | W. Page Cockrell | | | |
| McGuire Woods | | | | |
| Troutman Sanders | | | | |
| URS | | | | |

**VDH – Office of Drinking Water
Update Items for HRPDC Meeting
1 Dec 2010**

1. **Regulations Status Update**
 - Arsenic – primacy granted 8 Nov 2010
 - Long Term 2 Enhanced Surface Water Treatment Rule – interim primacy granted 16 Nov 2010
 - Stage 2 Disinfectants/Disinfection By-Products Rule – interim primacy granted 16 Nov 2010
 - Ground Water Rule being implemented – regulations drafted, currently under review by EPA
 - What's coming from Feds?
 - Revised Total Coliform Rule – proposal published 14 July 2010

2. **DEQ Regulations**
 - Expansion of the Eastern Virginia Groundwater Management Area
 - NOIRA stage completed (published 6 July 2009)
 - Proposed amendments prepared, under review at Governor's Office
 - Next step will be publication of proposed amendments in *Virginia Register*, followed by public comment & public hearing
 - Ground Water Withdrawal Regulations
 - NOIRA stage completed (published 6 July 2009)
 - Proposed amendments prepared, under review at Governor's Office
 - Next step will be publication of proposed amendments in *Virginia Register*, followed by public comment & public hearing
 - Biosolids (amendment to reflect move from VDH to DEQ)
 - NOIRA stage complete (published 23 June 2008)
 - Proposed amendments prepared, under review at Governor's Office
 - Next step will be publication of proposed amendments in *Virginia Register*, followed by public comment & public hearing
 - Water Reuse
 - NOIRA has been prepared, is under review at Secretary's Office
 - Next step will be review at Governor's Office
 - 22 items specifically identified as potential amendments – "Other amendments...may be considered...based on comments received in response to NOIRA or discussions of the regulatory advisory panel (RAP)."

Recreational Water Quality Criteria Update

Dan Dietrich, MS
Beach Monitoring Program Coordinator

1

Background

- EPA directed to
- Review recreational water quality standard
 - Evaluate water quality and illness
 - Evaluate “rapid methods”

Epi studies in Great Lakes, Gulf of Mexico, California, and Atlantic—illness rates seem to match initial studies
Rapid methods—Previously, EPA had not come forward with a preference. It now seems that the method will be qPCR
Question was, will qPCR relate to illness. Answer seems to be yes

2

October 2010

- EPA is finalizing epidemiology results
- It appears qPCR (rapid methods) is a suitable method
- It appears criteria numbers will remain the same
- At present, EPA is not considering bacteria source

EPA reports are scheduled to come in Dec. 15, 2010
 EPA evaluated sources with qPCR methods—
 Found that sources other-than-human were difficult to isolate (cross reactions, interference, portion human, etc)
 Could not readily determine risk of illness from these sources
 Not anticipating any “discounting” of these sources from criteria

Up and Coming:

- Criteria 2012
- Implementation 2013
- EPA modeling tools
- US Congress determination of “rapid method” definition (ranges between 2-6 hours)

EPA is scheduled to put out their rec water criteria in October, 2012. Before that, there will be a comment period in the fall of 2011
 States are expected to use the criteria starting in 2013

EPA is working on modeling tools that may aid in forecasting or site-specific criteria development

EPA is not able to increase funding or define the “rapid” part of “rapid methods.” Congress will need to do that.

Considerations

- EPA is considering states' concerns
- Some flexibility envisioned
- Laboratory costs and personnel requirements

EPA has been surprisingly engaged with states and appear to be listening to concerns.

EPA worked to clarify "rapid method" of 2-6 hours "once the sample made it to the lab."

EPA anticipates leaving current "site specific standards" options open to states, some flexibility in implementation, and consideration of approving new methods as they arise

Sample collection techniques will be the same---analysis will be very different

Molecular techniques more expensive (at least initially) than microbiology-petri dish methods

Personnel will need to be trained and/or able to run qPCR

Questions?





HRSD's Update to the Director of Utilities Committee

December 1, 2010

Outline

- Capital Improvement Program (CIP)
- GIS/Envista
- Construction Inspection Program

FY2011 to FY2020 Capital Improvement Program

- CIP is a plan, not an approval of funds
- Ten-year program
- 187 projects
- Total est. cost = \$1.45 billion
- FY2011 to FY2020 est. cost = \$1.1 billion
- Decision analysis method for CIP prioritization

3



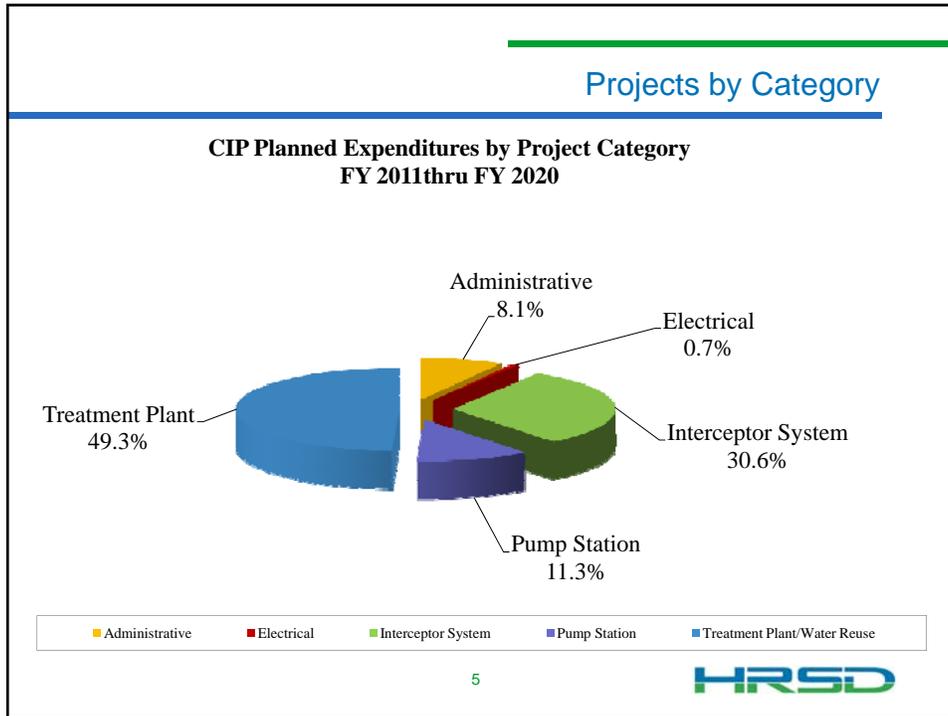
HRSD's Nutrient Reduction Program

- In 2006, Waste Load Allocations (WLAs) were assigned
- Deadline – 2011

Total Capital Expenditures = \$250 M
WQIF Grant Reimbursements = \$ 75 M*
HRSD Expenditures = \$175 M

4





CIP by Jurisdiction

CAPITAL IMPROVEMENT PROGRAM

FY 2011 TO FY 2020
CIP Jurisdiction Summary

| Virginia Beach | | Project Status |
|-----------------------|---|----------------|
| AT-107-2A | East Princess Anne Trunk Force Main Reinforcement (VDOT 0165-134-V05) | Design |
| AT-107-2B | East Princess Anne Trunk Force Main Reinforcement (VDOT 0165-134-108) | Design |
| AT-108 | Eastern Branch Sections A & B, Green Run Section C, and 24-Inch Kempsville Road Force Main Replacements | Construction |
| AT-112 | Hilltop Point O'Woods Interceptor Force Main Replacement - Phase I & II | Construction |
| AT-114 | Providence Road Pressure Reducing Station Modifications | Proposed |
| AT-115 | Shipp's Corner Pressure Reducing Station Modifications | Proposed |
| AT-117 | Arctic Ave Pump Station Environmental Assessment and Improvements | Study |
| AT-118 | Kempsville Road Interceptor Force Main Replacement - Phase I | Proposed |
| AT-120 | Atlantic Treatment Plant Administration Building Renovation and Expansion | Proposed |
| AT-121 | Atlantic Treatment Plant Secondary Clarifier Renovation | Proposed |
| AT-122 | Atlantic Treatment Plant Digester Gas Combined Heat and Power | Design |

6

Typical CIP Summary

| Hilltop Point O'Woods Interceptor Force Main Replacement - Phase I & II | | | | | | | | | | | | |
|---|-----------------|--------|------|----------------|------|------|------|------|------|------|------|--------------------|
| AT-112 | | | | | | | | | | | | |
| CD | | | | | | | | | | | | |
| SYSTEM | Atlantic | | | CATEGORY | | | | | | | | Interceptor System |
| TYPE | S&B Replacement | | | PROJECT STATUS | | | | | | | | Construction |
| PROGRAM CASH FLOW PROJECTIONS (\$,000) | | | | | | | | | | | | |
| Project | Year | FY10 | FY11 | FY12 | FY13 | FY14 | FY15 | FY16 | FY17 | FY18 | FY19 | |
| \$1,000 | 06,400 | 05,200 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | |

PROJECT DESCRIPTION

This project will construct a new 42-inch interceptor force main along Larkin Road in Virginia Beach from Great Neck Road east along Virginia Beach Boulevard, east on Larkin Road to Village Road. This line will consist of 8,500 linear feet of pipe. The new line will replace existing line SF-126.

This project will also construct a new 42-inch interceptor force main along Larkin Road in Virginia Beach. The replacement line will be extended from Larkin Road east on Village Road, east on Thomas Boulevard, across the Friends School grounds, along Reynolds Drive, to Pines Drive. This line will consist of 7,000 linear feet of pipe. The new line will replace existing line SF-134.

PROJECT JUSTIFICATION

SF-126 is 42 years old and has had many repairs. The Sustainable Asset Replacement Plan identifies this line as being within the ten-year target window for replacement. High pressure in the Larkin Bridge area of Virginia Beach call for either a larger line or a parallel line. Since this line is due to be replaced soon, it is more economical to replace the two lines with one larger one. The pressure problems will be corrected upon completion of this project.

SF-134 was installed in 1966. High pressures in the Larkin Bridge area of Virginia Beach call for either a larger line or a parallel line. Since this line is due to be replaced soon, it is more economical to replace the two lines with one larger one. The pressure problems will be corrected upon completion of this project. This project will relocate SF-134 outside the City of Virginia Beach and DOT Larkin Road improvements project limits.

| FUNDING TYPE | REQUIRED SERVICES | CONTACTS |
|---------------|----------------------|--|
| Revenue Bonds | Outside Design | Reporting Dept: Operation - Interceptors |
| | Outside Construction | Dept Contact: John Doss |
| | | Managing Dept: Engineering |

Acct No: 2-3100-XXXX-3500

V&B No:

| PROPOSED SCHEDULE | COST ESTIMATE |
|-------------------------------|---|
| A/E Selection: Aug-06 | Consulting/Engineering: \$1,303,029 |
| Construction Approval: Sep-06 | Construction: \$18,300,150 |
| Final CIP Change: Oct-06 | |
| Design Phase: Jun-07 | Total Program Cost: \$19,603,179 |
| Bid Phase: Feb-08 | Contingency: 5% |
| Construction: Aug-08 | Contingency: \$978,089 |
| Project Completion: Sep-11 | Total Program Cost: \$20,581,268 |

RELATED INFRASTRUCTURE

SF-126A, SF-D6 1965 HILLTOP-POINT O'WOODS INTER FM AT-0843 Atlantic Treatment Plant Expansion Phase I

SF-134A, SF-C1 1967 ATLANTIC TRUNK INTER FM AT-0843 Atlantic Treatment Plant Expansion Phase I

Contract C

CD P# 2011 10 P# 2008

REVISION DATE: March 15, 2010

AT-112

HRSD's Online Public GIS

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GUARANTEED ANALYSIS 2-2-0

HRSD

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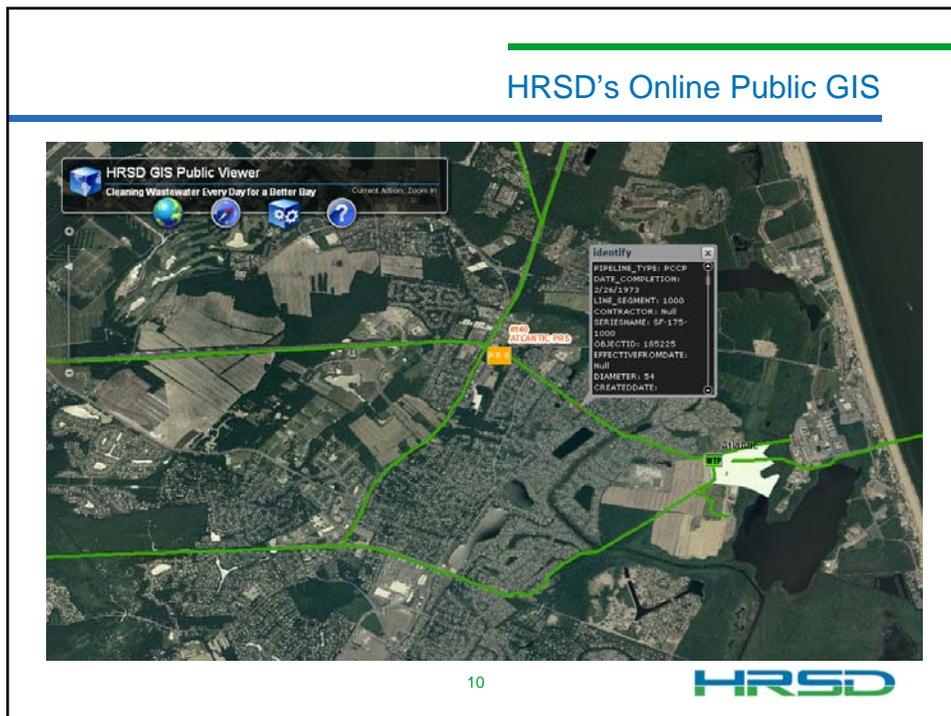
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HRSD's Online Public GIS



HRSD's Online Public GIS




envista

Envista Utility Coordination Software

- Web based project mapping software
 - Improves project coordination between utilities and jurisdictions
 - Identifies and notifies stakeholders of conflicts
 - Provides a tool for timely resolution of issues due to project conflicts
 - Reduces costs through improved communication and project coordination





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Envista Utility Coordination Software

- Current local subscribers to Envista System
 - HRSD
 - City of Virginia Beach
 - City of Norfolk
 - City of Portsmouth
 - Columbia Gas of VA

- Prospective Subscribers
 - City of Newport News
 - Virginia Natural Gas



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Envista - Conflicts

Dashboard Projects Events Conflicts Moratoriums Opportunities Permits Mailbox

Conflict Details - 30630204

| | | |
|------------------------------|---|---------------------------------------|
| Conflict ID: 30630204 | Status: Unresolved | City: Virginia Beach, Virginia |
| Date Overlap: Yes | Paving Sequence: No | |
| Scope: External | Conflict Type: Project <=> Project | |
| Distance: 0 ft | Size: 4103 sq ft / 279 ft | |

Source

ID: 367

Name: [East Princess Anne Trunk Force Main Reinforcement \(VDOT 0165-134-108\)](#)

Owner: Hampton Roads Sanitation District (SA)

Contact: John Dano

Type: Project (Sanitary Sewer)

Location: 36.760186, -76.054433 ; Close With Specified Route 36.760188, -76.054433; 36.760150, -76.054429; 36.760132, -76.054429; 36.760115, -76.054424; 36.760098, -76.054418; 36.760081, -76.054411; 36.760064, -76.054402; 36.760046, -76.054392; 36.760032, ...

Response Status: Unresolved

Description: This project consists of the design and construction of approximately 9,300 linear feet of 42-inch force main from the General Booth Fire Station west to Holland Road. A new larger force main is necessary to replace the existing 30-inch East Princess Anne Trunk Force Main in accordance with the Atlantic Interceptor System Master Planning Study. This section of the project is to be implemented as part of the VDOT/City of Virginia Beach Henrico Parkway roadway project.

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Target

ID: 2-107

Name: [SEABOARD ROAD](#)

Owner: Virginia Beach Public Works

Contact: Rob Jessen

Type: Project (Roadway)

Location: 36.794214, -76.033630 ; Close With Specified Route 36.793619, -76.033629; 36.755186, -76.033698; 36.755156, -76.033699; 36.755111, -76.033691; 36.755075, -76.033682; 36.755721, -76.033672; 36.755792, -76.033660; 36.755792, -76.033654

Construction Inspection Program

- Improve the consistency of pipeline construction inspection
- Partnership with ODU
- 18 hours (Fri/Sat)
- Initial Program - Dec 10th and 11th

Construction Inspection Course

- Construction Orientation
- Understanding the Design/Construction Process
- Construction Site Safety
- Construction and Construction Management Basics
- Records, Documentation, and Communication

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Questions

- Contact info for the CIP and GIS
Jay Bernas
jbernas@hrsd.com
318-4335
- Contact info for the Construction Inspection Program
Bruce Husselbee
bhusselbee@hrsd.com
460-7012

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