

BOARD OF SUPERVISORS WORK SESSION

GOVERNMENT CENTER BOARD ROOM

JUNE 24, 2008 - 4 P.M.

A. Call to Order

B. Roll Call

C. Board Discussion

1. Youth Career Café

2. Stonehouse Reclaimed Water Feasibility Study

D. Break

Upper Peninsula Youth Career Cafe

**Empowering Youth to Succeed through
the Expansion of the
“Youth Career Cafe”**



Mission with a Vision

- Prepare youth for the workplace.
- The Youth Career Café is a place where youth ages 14-21 can prepare for the real world, learn to navigate the business world, and make school relevant.



Business Model

- Operate a Youth Career Café in a youth friendly environment, such as a shopping mall, that provides career counseling, GED training, skills testing, and job placements.
- Create business partnerships to fund operations – local government, schools, and business.

Program Activities



- Career Assessment
- Job Search Assistance
- Career Cluster Workshops
- Resume Writing Clinics
- Financial Aid/Scholarship Research Assistance
- Tutoring

Community Benefits:

- Expanding the pipeline of potential employees - response to workforce shortage.
- Enhancing the workplace readiness skills of the emerging workforce.



Community Benefits:



- Strengthening customer satisfaction with better trained employees.
- Reduce dependency on public assistance.
- Reduce crime.
- Increase percentage of high school graduates.
- Enhance taxpayer base.

A Success Story - Youth Career Café on the Peninsula

- Call to action by the Education and Training Committee of the Greater Peninsula Workforce Investment Board.
- Developed by the Peninsula Council for Workforce Development
- Two Peninsula Locations – Patrick Henry Mall, Netcenter
- Annual Cost \$150,000 (50% - In-kind Services) per location
- Community Partnerships
- Start date Fall 2008

Program Impact

- Engage 250+ youths a month
- Administer 40+ career interest assessments a month
- Provide core services to 250+ a month
- Engage 125+ youths per month in workplace readiness training.
- Refer 30+ youth a month to work based learning activities including internships, job shadowing, employment, and service training.
- Engage 25+ Youths per month in GED preparation
- Provide career and post secondary planning to 35+ a month

Recommendation

- Expand the Youth Career Café concept to an Upper Peninsula location (Historic Triangle location / Williamsburg, James City County, York County)



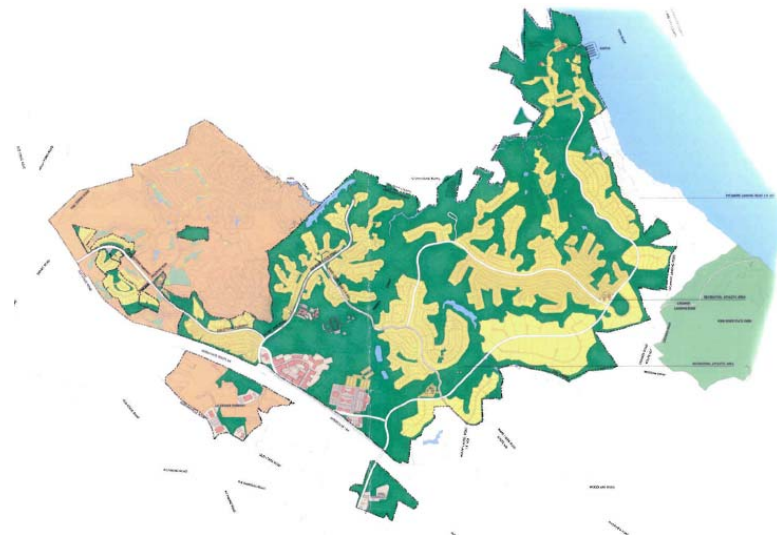
Stonehouse Reclaimed Water Feasibility Study

**James City County Board of Supervisors
Work Session**

June 24, 2008

Agenda

- **Introduction and History**
- **Summary of Study**
- **Next Steps and Questions**



Introduction and History

- **JCSA and HRSD Team**
- **Definition of Reclaimed Water**
 - Domestic, municipal, or industrial wastewater that is treated to standards that allow for its safe reuse.
- **Water reuse conserves drinking water supplies while maintaining the health of the Chesapeake Bay.**

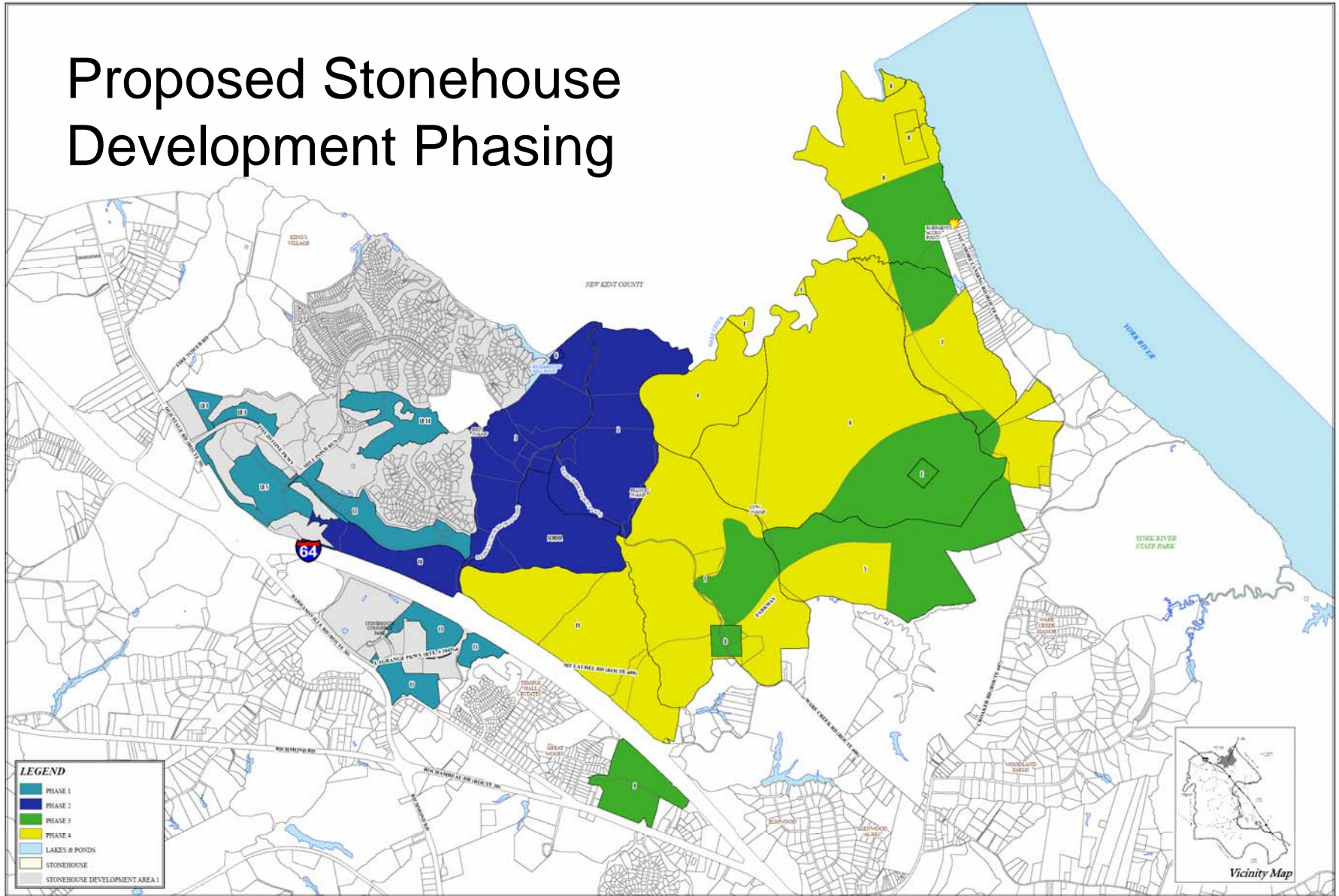
Scope of Study Tasks

- 1. Confirmation of Irrigation Demands**
- 2. Preliminary Evaluation of Reclaimed Water Delivery Options**
- 3. Treatment and Conveyance Concept Development and Evaluation**
- 4. Institutional Framework Development**
- 5. Feasibility Determination**

Summary of Study

- Irrigation Demands
- Wastewater Flows
- Revenue Calculation
- Preliminary Evaluation of Delivery Options

Proposed Stonehouse Development Phasing



STONEHOUSE CONCEPTUAL PHASING
 GS STONEHOUSE GREEN LAND SUB LLC
 JAMES CITY COUNTY, VA

JULY, 2007

NON-BINDING

SELLS | design studio
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Irrigation Demands

- **Proposed land use was based on developer's information**
- **Assumptions for irrigable area**
- **Water demand information included:**
 - Irrigation period
 - Maximum month
 - Average month
 - Average yearly

Irrigation Demands

- **Maximum month demand = 2.08 mgd**
- **Average day demand = 1.25 mgd**
- **Average annual reclaimed water demand = 262 million gallons**

Stonehouse Wastewater Flows

- **At full build out, wastewater flow will be approximately 469,000 gallons/day.**
- **Proposed build out is phased over 13 years.**
- **Wastewater from 3 to 4 houses is needed to supply reclaimed water for irrigation at 1 house.**

Revenue Calculation

- **Sell reclaimed water at \$4 per 1000 gallons**
- **Assume 20 year bond at 5% interest rate**
- **\$200,000 to \$350,000 annual operating and maintenance costs**

Revenue Calculation

- **Capital available from selling 200 million gallons average annual amount of reclaimed water for irrigation = \$6 M** (Does not include reduced revenue due to phasing of development.)
- **Initial construction costs are substantial and will need to be funded before the estimated revenue at full build out is collected.**

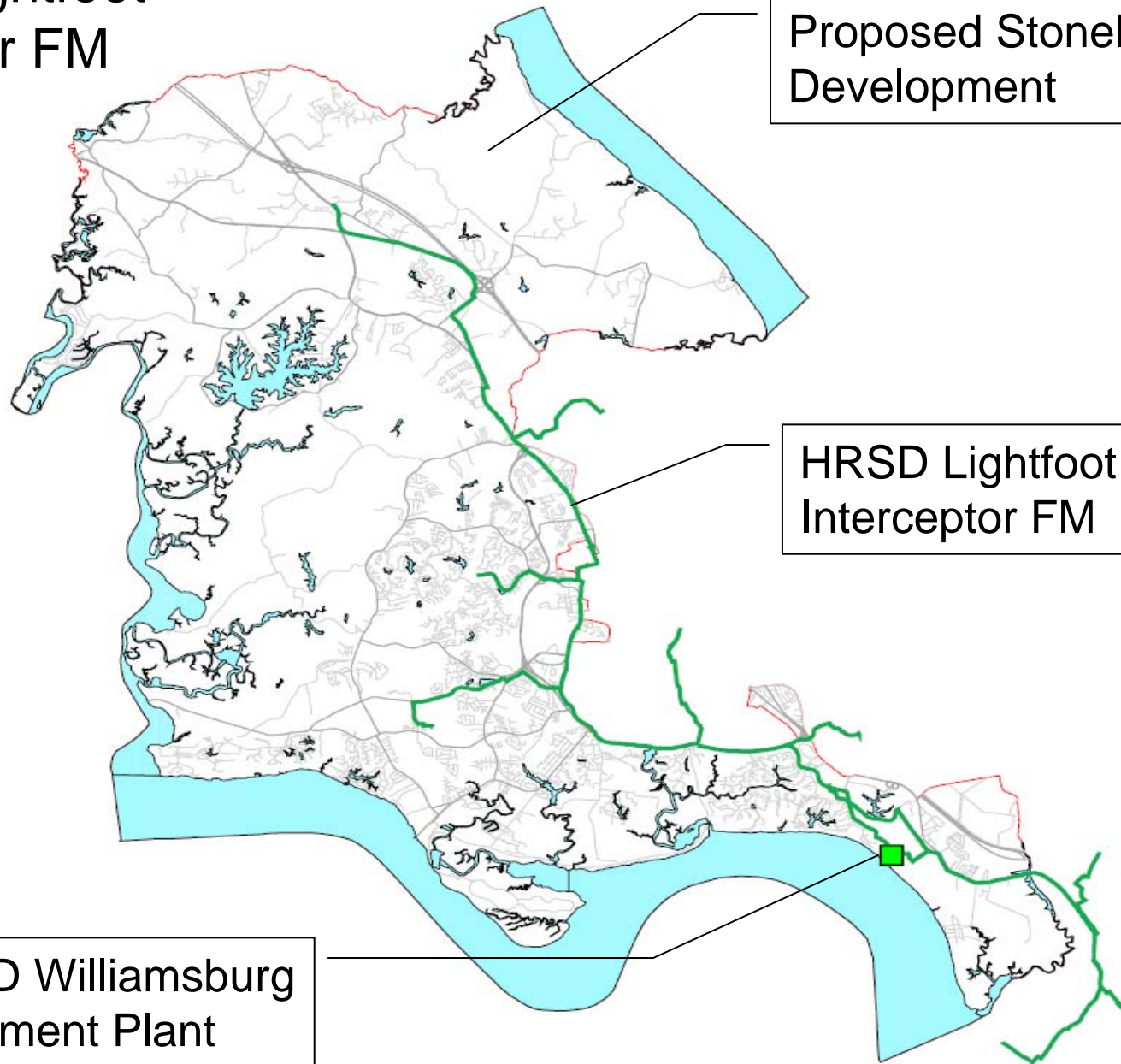
Proposed Delivery Options

- 1. Onsite wastewater treatment plant**
- 2. Offsite wastewater treatment plant**
- 3. Pipe effluent from West Point plant**
- 4. Pipe effluent from Williamsburg plant**

Proposed Delivery Options

- **Onsite or offsite wastewater treatment plant:**
 - Evaluated costs for 3.5 mgd and 1.0 mgd treatment plants. For 1 mgd plant, will need to supplement reclaimed water for irrigation with potable water.
- **Costs not estimated for piping effluent from the West Point plant because plant does not have enough capacity at 0.6 to 0.8 mgd.**
- **Pipe effluent from Williamsburg plant to Stonehouse – 20 mile pipeline.**

Map of Lightfoot Interceptor FM



Proposed Stonehouse
Development

HRSD Lightfoot
Interceptor FM

HRSD Williamsburg
Treatment Plant

Preliminary Evaluation

- **Capital available from selling 200 million gallons average annual amount of reclaimed water for irrigation = \$6 M**
- **Cost for 1.0 mgd plant > \$17 M**
- **Cost for 20 mile pipeline >\$26 M**
(Does not include cost for pump stations, storage tank, or additional treatment at Williamsburg plant.)

Conclusion

The revenue from selling reclaimed water at Stonehouse will not generate adequate funds to cover the construction costs of these options.

At a breakeven cost for the 1 mgd treatment plant option, the price of reclaimed water would be > \$8 per 1000 gallons.

Next Steps

- **JCSA and HRSD will continue to explore other water reuse options in James City County.**

Questions?

