EASTERN VIRGINIA GROUNDWATER MANAGEMENT ADVISORY COMMITTEE

WORK GROUP #1 – ALTERNATIVE SOURCES OF SUPPLY

MEETING NOTES – MEETING #5

TUESDAY, JANUARY 12, 2016
DEQ PIEDMONT REGIONAL OFFICE

Meeting Attendees:

EVGMAC – WORKGROUP #1	
Brad Campbell – Aqua-Virginia (alternate)	David Jurgens – City of Chesapeake
Larry Dame – New Kent County	Whitney Katchmark – Hampton Roads PDC
Judy Dunscomb – The Nature Conservancy	Mike Kearns – Sussex Service Authority
Jason Early – Consulting Hydro-Geologist	Dave Morris – City of Newport News
Bill Gill – Smithfield Foods	Paul Rogers, Jr. – Farmer – Production Agriculture
Carole Hamner – WestRock	Erik Rosenfeldt – Hazen and Sawyer
Steve Herzog – Hanover County	Mike Vergakis – James City County
Gregg Jones – Cardno	Kristen Lentz – City of Norfolk

EVGMAC – WORKGROUP #1 – STATE AGENCIES	
John Aulbach – VDH - ODW	Scott Kudlas - DEQ
John Loftus – VA Economic Development Partnership	Skip Harper – VA Dept. of Housing & Community Development

NOTE: Advisory Committee Members NOT in attendance: Jay Bernas – Hampton Roads Sanitation Distric ; Richard Costello – VA Home Builders; Kyle Duffy – International Paper; Katie Frazier – VA Agribusiness Council; Jeff Gregson – VA Well Drillers Association; Thomas Swartzwelder – King and Queen County ; Chris Thomas – King George County SA; Wanda Thornton – Eastern Shore Groundwater Committee; Brett Vassey – VA Manufacturers Association; Allen Knapp – VDH - OEHS

INTERESTED PARTIES ATTENDING MEETING	
Mike Alter – Clear Creek	Brad McMullen – Accodes
Preston Bryant – McGuire Woods Consulting	Jamie Mitchell – HRSD
Brad Campbell – Aqua	Doug Powell – JCSA
Jeff Corbin –Restoration Systems	John Preyer – Restoration Systems
Brent Fults – CBNLT	Scott Reed – CBNLT
Ted Garty – Chesapeake DPU	Gina Shaw – City of Norfolk
Barett Hardiman – Luck Companies	Chris Tabor – Hazen & Sawyer
Cory Hart – Citizen	Rick Thomas – Timmons Group
Jacqueline Hart – Citizen	Shannon Varner – Troutman Sanders
Dan Holloway – CH2M Hill Consulting	Andrea Wortzel –Troutman Sanders
Craig Maples – Chesapeake DPU	

SUPPORT STAFF ATTENDING MEETING	
Debra Harris - DEQ	Mark Rubin – VA Center for Consensus Building

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The meeting began at 1:07 p.m.

1. Welcome & Opening Comments – Introductions (Mark Rubin – Meeting Facilitator)

Mark Rubin, Executive Director of the Virginia Center for Consensus Building at VCU, opened the meeting at 1:07 p.m.. He welcomed everyone to the meeting and asked each person to provide a short introduction. Additionally, all attendees were reminded to sign-in. Mr. Rubin then reviewed the agenda for the meeting (Attachment A).

2. Presentation – Lessons Learned in Reservoir Development (Dave Morris)

Dave Morris from the City of Newport News presented an overview of the planning process and the lessons that were learned during the failed King William Reservoir Project (Attachment B). After the presentation, Mr. Morris answered questions from the group. It was noted that the lessons learned were valuable and, currently, the timeline for a reservoir project is decreasing on the state side.

3. Presentation - A Potential Impoundment Site on the Peninsula (Andrea Wortzel/CBNLT)

Andrea Wortzel, Troutman Sanders/CBNLT, presented information on changes in water supply planning since the King William Reservoir Project and the role of the private sector in meeting water supply needs (Attachment C). Ms. Wortzel provided recommendations for accommodating public/private partnerships to help with meeting water supply demands. After her presentation, Ms. Wortzel responded to questions and comments from the group such as the importance of balancing environmental concerns with need and economics and the benefits of a public/private partnership. Many factors would have to be evaluated for a successful partnership. It was noted that this group can evaluate the public/private partnership options and can make recommendations to the General Assembly regarding changes that may be needed to current law in order to accommodate these types of partnership for water supply planning.

The work group took a break from 2:31 p.m. until 2:47 p.m.

4. Presentation - Opportunities of Potential Quarry Storage (Barrett Hardiman)

Barrett Hardiman, Luck Stone, presented information on the use of quarries for water storage as an option to consider for meeting water supply demands (Attachment D). Mr. Hardiman noted that there are many benefits of this public/private partnership such as readily available quarries and reduction in costs of reservoir development. This is unique situation regarding the market and you need to work with a knowledgeable partner and whose goals align with yours. Finally, it was noted that east of the fall line there are two sand/gravel quarries but they are not being marketed as water storage facilities; however, there are many hard rock quarries located west of the fall including at least four around the Richmond area.

5. Discussion of Options (Mark Rubin)

Mark Rubin introduced the topic of the options for water supply that were discussed by the presenters today. It was noted that there are a lot of similarities between impoundments and reservoirs as both are potential storage options. It was also noted that both of these presentations include a public/private partnership which may be a new way to think about water supply options.

Regarding the use of impoundments, the work group agreed that this idea was worth looking into further. Concepts to consider for this evaluation were: safe yield, water quality, groundwater, water demand centers, timing, proximity to need, regulatory issues with need, inventory, infrastructure,

grandfathered uses, and effects on aquifer recharge.

The next idea that was discussed was the use of quarries. The work group agreed that this was a good idea but there may be limited applicability to the Eastern Virginia Groundwater Management Area as most of the rock quarries are west of the fall line. It was noted that there are sand/gravel quarries east of the fall line, but these types of quarries have been used mostly for irrigation needs. The issue for use as an alternative source is that the water balance is not known and therefore, the rates of retention are unknown. However, it was noted that the use of quarries is an interesting idea, particularly as an alternative source along the fall line. If alternative quarry sources can be found along the fall line where the greatest aquifer impacts occur due to use elsewhere in the system, perhaps the idea of tolerating fall line impacts can be further explored..

6. Evaluation Criteria/Next Steps (Mark Rubin)

Mark Rubin asked the group to look at the handout, Groundwater Factors for Evaluative Matrix of Alternative Supply (Attachment E). It was hoped that at the next meeting the group will firm up an evaluation matrix for alternative supply and to prioritize this list of factors as well. There was some discussion on the need for ranking the alternative supplies. It was noted that the justification and explanation of the various alternative sources evaluated needs to include some factors such as costs and maybe a few other criteria to be used for evaluation. It was then suggested that perhaps a smaller group of members may be able to discuss the criteria questions in more detail.

Action Item: A doodle poll will be sent out to set a date for the next meeting sometime the week of February 22nd.

7. Public Comment

Jacqueline Hart, concerned citizen, provided comment on her concerns regarding the proposed alternatives. Her main concern is with protection of private rights including the ability of citizens to live and build where they want and the interests of private well owners.

The meeting was then adjourned at 3:56 p.m.

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Attachments

Attachment A - Agenda

Work Group #1 – Alternative Sources of Supply
Eastern Virginia Groundwater Management Advisory Committee
Draft Agenda for 1/12/16 – Meeting #5
DEQ Piedmont Regional Office – Training Room
1:00 – 4:00 P.M.

I. Welcome and Introductions (Mark Rubin)

II. Presentation – Lessons Learned in Reservoir Development (Dave Morris)

III. Questions and Discussion of Issues

IV. Presentation – A Potential Impoundment Site on the Peninsula (Andrea Wortzel/CBNLT)

V. Questions and Discussion of Issues

VI. Presentation – Opportunities of Potential Quarry Storage (Barrett Hardiman)

VII. Discussion of Opportunities and Constraints of Identified Alternative Sources Using Regional Map

VIII. Report Outs of the Break-out Groups

IX. Wrap-up

X. Scheduling and Next Steps

XI. Public Comment

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Attachment B: Permitting a Reservoir Project in VA Coastal Plain

Attachment C: The Need for Storage and the Role of the Private Sector

Attachment D: Opportunities for Potential Quarry Storage

Attachment E:

Groundwater Factors for Evaluative Matrix of Alternative Supply

1. Practicable
   a. Affordable
   b. Available
   c. Feasible
2. Protects public health – able to assure public that public health is protected
3. Adequate/ sustainable supply -- volume
4. Protect quality and integrity of products that rely on water
5. Reliability
6. Consistency of quality
7. Ease of monitoring as to quality and quantity
8. Availability during emergencies
9. State and Federal regulatory consistency
10. Rural and small locality sensitivity
11. Effective waste management from the purification process
12. Balance between current users and future needs
13. Minimize the stranding of existing infrastructure
14. Consistency in design standards
15. Preserve ability of citizens to live and build where they want
16. Protect interests of private well owners
17. Encourage small scale alternative sources
18. Consistency in consumption standards

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