



Minutes of the November 15th, 2022 Meeting

Eastern Shore of Virginia Ground Water Committee

The meeting of the Eastern Shore of Virginia Ground Water Committee was held at 10:00 AM on Tuesday, November 15th, 2022 in the hybrid format – virtually on the Zoom Platform and in person – in the conference room of the Eastern Shore Chamber of Commerce in Melfa, VA.

**signifies Zoom participant*

NO QUORUM

1. Call to Order

Chairman Muhly called the meeting to order at 10:05 AM.

2. Public Participation

Mr. Magrogen commented on the Captain's Cove 2022 Ground Water Report remarking that the Household Water Quality Reports aberrant measurements were interesting. Noting that it was unfortunate that the recommended levels were unenforceable. He thanked the Committee for their work.

3. Minutes of September 20th, 2022 Meeting

The draft minutes of the September 20th, 2022 Meeting were presented.



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Mem. Mastyl noted date inconsistencies in the minutes. Mem. Grossman clarified Cape Charles well specifications and updates to the Committee.

Committee members present reached a consensus to receive the meeting minutes with edits and corrections to noted date inconsistencies.

4. FY 2023 Proposed Annual Budget

Edits to the Eastern Shore of Virginia Ground Water Committee Proposed FY2023 Annual Budget were presented.

Discussion concerning edits made to the FY 2023 Proposed Annual Budget postponed to January

5. Financial Report

The FY 2023 Financial Status Report for September and October 2022 was presented.

Total Bills Payable equaled \$11,261.31; total revenues received equaled \$0.00.

Committee members present reached a consensus to receive the FY 2023 Financial Status Report for September and October 2022.

6. November 15, 2022 Staff Report

Staff updated the Committee on future events and board meetings.

7. Chloride Monitoring on the Eastern Shore of Virginia

Staff updated the Committee on the Sam Caldwell's price out of a \$40,000 groundwater-quality sampling effort. Mr. Caldwell explained that the samples would consist of a standard QA/QC of data from eight wells that do not include data analysis and interpretation or a multi-year effort. Sec. Meil inquired on the minimum number of studies necessary. Mr. Caldwell described that the number of studies depends on the intended goal. A trend would require a four-to-five-year effort as opposed to a single year static snapshot. Mr. Pope added that a historical trends and data would help with the effort.

Mem. Mastyl asked if the FY23 Budget included well-testing, which was confirmed by staff. Mr. Grossman inquired as to whether well testing locations were going to be determined before the next meeting. Mr. McMillan advised that Cape Charles, Chincoteague, and high demand zones west of Exmore are areas of interest. DEQ wells are also being looked at. Mr. Caldwell added that the study would need to prioritize future concerns and areas of historic intrusion. Mr. McMillan will determine priority locations



for testing. Sec. Meil reminded the Committee of the counties' funding allotment and the need to reflect that with the effort.

8. November 15, 2022 Ground Water Consultant Report

GWC Advisor McMillan and Mr. Myers of ARCADIS updated the Committee on benefits and limitations applying to groundwater resource protection issues related to wastewater discharge versus surface water discharge in concern to water balance and water quality specific to the Shore.

McMillan noted, in response to comments, that there is an existing model that can quantify the impacts of dewatering that suggest limited recharge to the Yorktown Aquifer. Sec. Meil clarified HRSD development numbers. Mr. Myers added that HRSD's SWIFT System appears to be limited.

9. Captain's Cove 2022 Ground Water Report

Staff presented the Committee with the initial 27-page draft of CAPTAINS COVE GROUND WATER AND RESIDENTIAL WATER SUPPLY REPORT OCTOBER 2022 draft.

In response to the study findings, Mem. Mastyl inquired as to whether there was a way to test for biofilm. Mem. Walker noted that biofilm presence may be dependent on the individual residences. Mr. Myers answered that there are ways to test for biofilm. Mem. Walker inquired if there are ways to determine the biofilm location. Mr. Myers replied that there are ways to identify the location through deductive testing.

Mem. Mastyl observed that there may be built in bias in the study survey. Chmn. Muhly noted that the survey had a wide geographic area and large sample.

Mem. Grossman observed that home treatment filtering systems may skew water test results. Ms. Mastyl suggested that the inclusion of water testing methods in the report may clarify. Mems. Grossman, Mastyl, and Walker advised that coliform levels be addressed in the report.

Chmn. Muhly informed the Committee that EPA standards are left to the states to address. Turbidity in Virginia only enforceable with surface water or groundwater under direct influence of surface water. Mr. Myers added that there is no correlation between the total dissolved solids (TDS) measured and turbidity. Chmn. Muhly confirmed that turbidity was not measured with the water testing. Mem. Walker advised that a jurisdiction diagram may help with illustrating agencies' responsibility. Mr. Myers informed the Committee that turbidity may not be enforceable. Mr. Pope added that turbidity aquifer enforcement would require legislation. Chmn. Muhly advised that the Committee reach out to local lawmakers to set groundwater turbidity standard.

Mem. Walker inquired as to whether there are regulations on biofilm. Mr. Myers responded there are no regulations but recommendations. Mem. Walker inquired as to whether the



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sample schedule is limited to untreated well water. Mem. Mastyl, Mr. Myers and Magrogan articulated that sampling methods should be more stringent with less dependence on self-monitoring. Mr. Caldwell added that water quality issues could be addressed and will forward the Committee a list of well testing criteria

Schedule Next Meeting & Adjournment

The next Committee meeting was scheduled for January 17, 2023 from 10AM-12PM at the ESVA Chamber of Commerce, Melfa, VA.

Chairman Muhly adjourned the meeting at 11:59 AM.

John Coker, Vice Chairman

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Elaine K. N. Meil, Secretary