



# A-NPDC

ACCOMACK-NORTHAMPTON PLANNING DISTRICT COMMISSION  
P.O. BOX 417 • 23372 FRONT STREET • ACCOMACK, VIRGINIA 23001  
(757) 787-2936 • TOLL FREE (866) 787-3001 • FAX: (757) 787-4221  
WEBSITE: www.a-npdc.org

## Eastern Shore of Virginia Groundwater Commit

April 16, 2024 10:00 a.m.

ESVA Chamber of Commerce

19056 Parkway; Melfa, Virginia 23410



The committee’s mandate is to “assist local government and residents of the Eastern Shore in understanding, protecting, and managing groundwater resources, to maintain a groundwater resources protection and management plan, to serve as an educational and informational resource to local governments and residents of the Eastern Shore, and to initiate special studies concerning the protection and management of the Eastern Shore groundwater resource.”

### Virtual Attendance:

#### For Joining via Computer:

1. Click this link: <https://zoom.us/j/7577872936?pwd=OTNJdmhCc3pWdVNUZ0ZWYnVjdWpWUT09>
2. If prompted, enter the Meeting ID: 757 787 2936
3. If prompted, enter the Passcode: 7577872936

#### For joining via Phone (calling in):

1. Dial 1-646-558-8656
2. When prompted for meeting code enter 7577872936#
3. When prompted to identify as host or participant, enter #
4. When prompted for password, enter 7577872936#

Translation services available: Call 1-718-838-9317... #6980900. Press 1 for Spanish. Press 2 for Haitian Creole.

Servicios de traducción disponibles: Llame al 1-718-838-9317 ... # 6980900. Presione 1 para español.

Sèvis Tradiksyon Disponib: Rele 1-718-838-9317 ... # 6980900. Preze 2 pou kreòl ayisyen.



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## **Eastern Shore of Virginia Groundwater Committee April 16, 2024 Meeting**

- 1. Call to Order**
- 2. Public Participation**
- 3. Minutes of the March 19, 2024 Meeting**
- 4. March Financial Status Report**
- 5. April 16, 2024 Staff Report**
- 6. Residential Well Testing Programs**
- 7. Groundwater Outreach and Education**
- 8. April 16, 2024 Ground Water Consultant Report**
- 9. Committee Attendance Record FY2024**
- 10. Attachments**
- 11. Schedule Next Meeting for May 21, 2024 at 10:00  
a.m.  
Eastern Shore Chamber of Commerce / Board  
Room**
- 12. Adjournment**



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## MEMORANDUM

TO: Eastern Shore of Virginia Groundwater Committee

FROM: Kellen J. Singleton  
Interdisciplinary Planner, A-NPDC

DATE: April 16, 2024

SUBJECT: March 19, 2024 Meeting Minutes

Minutes of the March 19, 2024, Eastern Shore of Virginia Groundwater Committee Meeting are attached.

**Committee approval of the March 19, 2024, minutes is requested.**



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## Minutes of the March 19, 2024 Meeting Eastern Shore of Virginia Groundwater

### Committee

The meeting of the Eastern Shore of Virginia Groundwater Committee was held at 10:00 A.M. on Tuesday, March 19, 2024. It was held in the hybrid format - virtually on the ZOOM Platform and in person at the Eastern Shore Chamber of Commerce's board room in Melfa, Virginia.

<u>Member's Present</u>	<u>Member's Absent</u>	<u>Others Present</u>
John Coker, Chairman	Mike Mason	Kellen Singleton / A-NPDC
Calvin Washington Sr. / Vice Chairman		Curtis Consolvo / Geo Resources *
Paul Grossman		Paul Muhly
Daniel Hershey		Britt McMillan / ARCADIS *
Grayson Chesser		Faith Lewis / A-NPDC
Ann Hayward Walker		Patsy Felthousen
Sue Mastyl		Priscilla Hart
Charles Kolakowski *		Dana Simpson
		Rosemary Paparo
		Greg Felthousen
		James Forwalk
		Jeff Albrechtson
		Granville Hogg
		Mike O'Brien
		Joseph Betit *
		Caitlyn Kelly *
		Brian Collins *
		Dirk Lynch *



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		Hunter Cooper *
		Ashley Thornes *

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### 1. Call to Order

Chairman Coker called the meeting to order at 10:02 A.M.

### 2. Public Participation

Several residents from Onancock, VA, addressed the committee with concerns about the DEQ notice, in the Eastern Shore Post. The Town of Onancock will provide the water to a 465 unit development. The concern of an additional draw of 120 million gallons a year. The location of this development is county owned land between Onley and Onancock. The residents are concerned to hear of this information. It has not come before the town council meetings or the planning commission meetings. Discussion ensued and the fear of lowering the water supply drastically for future usage, coning, and potential saltwater intrusion concerns were voiced.

Dana Simpson was also concerned with the above mentioned topic. She would like to volunteer her graphic design services to the committee if we would need help to get something together to get our information to the public.

GWC Advisor, Britt McMillan, added as you pull more water out you are increasing the recharge to them. It will be slightly less than the full amount. He also wondered how many developments would happen if the Town of Onancock was not supplying the water.

Granville Hogg has two concerns. The first one is the Town Field Road issue. It has been an ongoing problem. The drain pipe was inserted 2½ feet and runs into the upper groundwater aquifer. It runs going out in excess of 300,000 gallons per month. The second concern was related to DEQ permits. He would like the committee to review what a mitigation plan is and what is required by a permit user to remediate the problem. He requested the committee to place him on the next meeting's agenda for 30 minutes to discuss these topics.

### 3. Minutes of the February 20, 2024 Meeting

Adoption of the minutes for February 20, 2024, were requested.

Member Paul Grossman moved to approve the minutes of the February 20, 2024 meeting as presented. It was seconded by Member Walker, the motion was carried by unanimous vote.

### 4. February Financial Status Report

The February Financial Status Report was presented.

Member Grossman moved to approve the February Financial Status Report as presented. It was seconded by Member Mastyl, the motion was carried by unanimous vote.

### 5. March 19, 2024 Staff Report

Staff updated the committee on the active Groundwater Withdrawal permits in Accomack County, VA, as well as several upcoming State Water Control board events/meetings.

#### Groundwater Withdrawal in Accomack County, Virginia - GW0049201

Public Comment period: March 8, 2024 - April 8, 2024

Applicant name, address and permit number: Town of Onancock, 15 North Street, Onancock, VA 23417; GW0049201

Name and location of water withdrawal: Town of Onancock Water System; 15 North Street, Onancock, VA 23417



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### Groundwater Withdrawal in Accomack County, Virginia - GW0069101

Public Comment period: March 15, 2024 - April 15, 2024

Applicant name, address and permit number: Kuzzens Inc.; 3769 Grapeland Circle, Exmore, VA 23350; GW0069101

Name and location of water withdrawal: Melfa Farm; Fair Oaks Rd. (ST. Rt. 672), Melfa, VA 23410

### Groundwater Withdrawal in Accomack County, Virginia - GW0069901

Public Comment period: March 15, 2024 - April 15, 2024

Applicant name, address and permit number: Kuzzens Inc.; 3769 Grapeland Circle, Exmore, VA 23350; GW0069901

Name and location of water withdrawal: Tipton Farm; Seaside Rd., Marionville, VA 23408

For details please see:

<https://www.deq.virginia.gov/permits/public-notices/water/water-withdrawal>

Date and Time	Meeting Title	Board	Scope
Mar-23 2024 (Sat) 3:30 pm	<u>Screening &amp; Discussion: Against the Current Eastern Shore Community College</u>	WHRO Public Media And World	R
Mar-28 2024 (Thurs) 2:00 pm	<u>Sewage Collection and Treatment Regulation (9VAC25-790) Amendments - Regulatory Advisory Panel</u>	State Water Control Board	R
Apr-20 2024 (Sat) 10:00 am	<u>“Return to Our Roots” – Exmore Earth Day 2024</u>	Town of Exmore	H

Staff updated the committee on a scheduled Earth Day event, which will be held on 04/20/2024, in Exmore Town Park. There will be several events and it will be an opportunity for the committee to get outreach and information to the public. Staff has reached out to DEQ Tidewater Coordinator of Environmental Justice, Grace Holmes. She will be representing DEQ at the “Return to Our Roots” at the Exmore Earth Day 2024 event. Staff will coordinate with DEQ staff in a dual exhibit effort.

Staff reported the website update is a priority. It is an extensive process.

### 6. Residential Well Testing Program

A scope was drafted in March of last year. Member Walker, Member Paul Muhly, and Member Dan Hershey met during the summer and made more changes to the scope. A consultant will be needed because of the type of scope we want. This was allocated in the budget. The goal is to test the quality of the drinking water in underserved residential wells. Funding has come from both Accomack and Northampton Counties. Goal 1 of this program is to develop and implement a residential well testing program, in accordance with appropriate quantitative protocols provided by certified laboratories and/or agency guidelines. Goal 2 is to coordinate the communication and exchange of resulting data with local, state, and federal drinking and groundwater stakeholders. Goal 3 is to institute educational activities about drinking water quality for Eastern Shore





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communities. The committee would like to move on this before June 24, 2024. The committee needs to vote in the April meeting. The committee needs a Field Sampler and to select a lab the specimens will be tested. There should also be a fixed price for testing. The specimens will be collected and tested by using state protocols. Discussion ensued on the attachments that were enclosed in the packet.

**7. Groundwater Outreach and Education**

Staff is meeting April 20, 2024 with Member Mastyl and Member Walker to develop educational material. GWC Advisor McMillan would be happy to review the factsheets. Staff could review articles needing to be archived.

**8. Groundwater Sustainability: Regulatory Policies and Updates**

Member Grossman explained to the committee that Delegate Robert S. Bloxom was asked to propose the pond legislation. It is House Bill #1466 and has passed the House. If this passes it will take ponds out of the mines and minerals concerns. Member Grayson Chesser reiterated the importance of the above legislation. This would cut down on the need for borrow pits. Discussion ensued on the relevance of this legislation. The bill was modified to be a one time exemption only per land. Member Mastyl states there is a bill in the Senate presently that includes DEQ initiating a review of the Groundwater Management Act. The whole state would be affected by this review.

**9. March 19, 2024 Groundwater Consultant Report**

GWC Advisor McMillan wanted the committee to review the 02/20/2024 Groundwater Consultant Report. Discussion ensued on the three permits. He spoke of the special conditions and withdrawal amounts. Graphics were shown on screen to show the committee certain information.

A copy of the presentation will be attached to the packet.

**10. Attachments**

**11. Scheduled Next Meeting**

The next scheduled meeting for the Groundwater Committee will be held on Tuesday, May 20, 2024, at 10:00 A.M - 12:00 P.M. The meeting will be held at the Eastern Shore Chamber of Commerce's board room in Melfa, Virginia.

**12. Adjournment**

Member Grossman made the motion to adjourn. Seconded by Member Walker, it was approved unanimously.

The meeting was adjourned at 12:10 P.M.

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John Coker, Chairman

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Elaine K. N. Meil, Secretary/Treasurer



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## MEMORANDUM

TO: Eastern Shore of Virginia Groundwater Committee

FROM: Sandy Taylor  
Administrative Director, A-NPDC

DATE: April 16, 2024

SUBJECT: March 2024 Financial Statement

Attached is the March 2024 Eastern Shore of Virginia Groundwater Financial Statement.

**Committee approval of the March 2024 Financial Statement is requested.**



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## EASTERN SHORE OF VIRGINIA GROUND WATER COMMITTEE Financial Statement-March 2024 Fiscal Year 2024

	<u>Annual Budget</u>	<u>Current Activity</u>	<u>YTD Activity</u>	<u>Balance</u>
<b>Ground Water Consultant Appropriations:</b>				
Accomack County	\$ 14,251.00	\$ 0.00	\$ 7,125.50	\$ 7,125.50
Northampton County	7,415.00	\$ 0.00	\$ 3,707.50	3,707.50
Subtotal	\$ 21,666.00	\$ 0.00	\$ 10,833.00	\$ 10,833.00
<b>Ground Water Modeling Run Appropriations:</b>				
Accomack County	\$ 1,500.00	\$ 0.00	\$ 0.00	1,500.00
Northampton County	1,500.00	0.00	\$ 0.00	1,500.00
Subtotal	\$ 3,000.00	\$ 0.00	\$ 0.00	\$ 3,000.00
<b>Ground Water Committee Staff Support:</b>				
Accomack County	\$ 12,276.00	\$ 1,597.78	\$ 11,148.35	1,127.65
Northampton County	7,724.00	\$ 823.09	\$ 5,972.95	1,751.05
Subtotal	\$ 20,000.00	\$ 2,420.87	\$ 17,121.30	\$ 2,878.70
<b>Ground Water Member Fees:</b>				
Accomack County	\$ 2,640.00	\$ 0.00	\$ 1,075.50	1,564.50
Northampton County	2,640.00	\$ 0.00	\$ 711.23	1,928.77
Subtotal	\$ 5,280.00	\$ 0.00	\$ 1,786.73	\$ 3,493.27
<b>USGS Ground Water Model:</b>				
Accomack County	\$ 7,500.00	\$ 0.00	\$ 0.00	7,500.00
Northampton County	7,500.00	\$ 0.00	\$ 0.00	7,500.00
Subtotal	\$ 15,000.00	\$ 0.00	\$ 0.00	\$ 15,000.00
<b>Ground Water Plan Project Implementation</b>				
Accomack County	\$ 26,854.00	\$ 0.00	\$ 0.00	26,854.00
Northampton County	15,827.00	0.00	\$ 0.00	15,827.00
Subtotal	\$ 42,681.00	\$ 0.00	\$ 0.00	\$ 42,681.00
<b>Total Revenues</b>	<b>\$ 107,627.00</b>	<b>\$ 2,420.87</b>	<b>\$ 29,741.03</b>	<b>\$ 77,885.97</b>

### Bills Payable as of March 31, 2024

<u>DUE TO</u>	<u>DESCRIPTION</u>	<u>DATE</u>	<u>AMOUNT</u>
A-NPDC	Staff Support	03/01/2024-03/31/2024	\$ 2,420.87
Board Members	Meeting Fees		\$ 0.00
Arcadis	Consultant		\$ 0.00
<b>Total Bills Payable</b>			<b>\$ 2,420.87</b>

### Allocated Funds

	<u>Prior Year Funds</u>	<u>Expenditures</u>	<u>Balance</u>
Ground Water Modeling Run	\$14,000.00	\$14,000.00	\$ 0.00
Ground Water Plan Project Implementation	44,847.00	0.00	\$ 44,847.00
<b>Total Allocated Funds</b>	<b>\$ 58,847.00</b>	<b>\$ 14,000.00</b>	<b>\$ 44,847.00</b>



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## MEMORANDUM

TO: Eastern Shore of Virginia Groundwater Committee

FROM: Kellen J. Singleton  
Interdisciplinary Planner, A-NPDC

DATE: April 16, 2024

SUBJECT: April 2024 Staff Report

### Environmental Reviews and Permits:

N/A

### VA Pollutant Discharge Elimination System Program:

- Domestic Sewage Discharges of Less than or Equal to 1,000 Gallons per Day (VAG40)
- Seafood Processing Facilities (VAG52)
- Remediation of Contaminated Sites and Hydrostatic Tests (VAG83)
- Discharges of Stormwater Associated with Industrial Activity (VAR05)
- Non-Metallic Mineral Mining (VAG84)
- Concentrated Animal Feeding Operations (VAG01)
- Concrete Products Facilities (VAG11)
- Vehicle Wash and Laundry Facilities (VAG75)
- Non-Contact Cooling Water Discharges (VAG25)
- Pesticides Discharges (VAG87)
- Watershed Permit for Total Nitrogen and Total Phosphorus Discharges and Nutrient Trading in the Chesapeake Bay Watershed (VAN00)
- Potable Water Treatment Plants (VAG64)
- Discharges of Stormwater from Construction Activities (VAR10)
- Fundraising Car Wash Guidelines

For details please see:

<https://www.deq.virginia.gov/permits/water/surface-waters-vpdes>



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## VA Pollution Abatement Program:

Facility	Permit Number	City / County	Permit Action	DEQ Admin Office	Application Received	Application Complete	Draft Permit Sent to Owner
Accomack County Leachate Treatment Facility	VPA01079	Accomack County	Reissuance	Tidewater	12/11/2020	01/20/2021	
Tyson Farms Inc. - Temperanceville	VPA01035	Accomack County	Reissuance	Tidewater	10/06/2020	05/12/2021	
Atlantic Town Center Clean Water Plant	VPA01080	Accomack County	Issuance	Tidewater	04/11/2011		
Kuzzens Incorporated	VPA01047	Northampton County	Reissuance	Tidewater	0/28/2022	05/27/2022	
Perdue Foods LLC - Accomack	VPA01076	Accomack County	Reissuance	Tidewater	09/09/2022		

## Consent/Enforcement Orders:

N/A

## Groundwater Withdrawal Permits:

### **Groundwater Withdrawal in Accomack County, Virginia - GW0049201**

Public Comment period: March 8, 2024 - April 8, 2024

Applicant name, address and permit number: Town of Onancock; 15 North Street, Onancock, VA 23417; GW0049201



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Name and Location of Water Withdrawal: Town of Onancock Water System; 15 North Street, Onancock, VA 23417

**Groundwater Withdrawal in Accomack County, Virginia - GW0069901**

Public Comment period: March 15, 2024 - April 15, 2024  
 Applicant name, address and permit number: Kuzzens Inc.; 3769 Grapeland Circle, Exmore, VA 23350; GW0069901

Name and Location of Water Withdrawal: Tipton Farm; Seaside Road, Marionville, VA 23408

**Groundwater Withdrawal in Accomack County, Virginia - GW0069101**

Public Comment period: March 15, 2024 - April 15, 2024  
 Applicant name, address and permit number: Kuzzens Inc.; 3769 Grapeland Circle, Exmore, VA 23350; GW0069101

Name and Location of Water Withdrawal: Melfa Farm; Fair Oaks Road (St. Rt. 672), Melfa, VA 23410

**Groundwater Withdrawal in Accomack County, Virginia - GW0053801**

Public Comment period: March 22, 2024 - April 22, 2024  
 Applicant name, address and permit number: Kuzzen's Inc.; 3769 Grapeland Circle, Exmore, VA 23350; GW0053801

Name and Location of Water Withdrawal: Kuzzen's KMC Camp; 20508 Pat Town Road, Cheriton, VA 23316

For details please see:

<https://www.deq.virginia.gov/permits/public-notices/water/water-withdrawal>

**Upcoming Events/Meetings:**

<u>Date and Time</u> ↓		<u>Meeting Title</u>	<u>Organization</u>
<u>Apr-20 2024</u> <u>(Sat)</u>	<u>10:00</u> <u>am</u>	<u>"Return to Our Roots" - Exmore Earth Day 2024</u>	<u>Town of Exmore</u>



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For details please see:

<https://townhall.virginia.gov/L/meetings.cfm>

### Old Business:

GWC advisor Britt McMillan with addition and assistance from Chmn. Coker and staff has drafted and delivered a Public Comment concerning GW0053901 addressing concerns found in recent ground water withdrawal application Draft Town of Onancock (GW0049201) Permit to Eric Seavey - Manager, Office of Water Withdrawal Permitting.





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## Eastern Shore of Virginia Ground Water Committee

John Oler  
Chairman

Calvin Whalington  
Vice Chairman

Elaine Mel  
Secretary

Ritt McMillan  
Technical Advisor

To: Eric Seavey, DEQ Central Office

[cattlin.kelly@deq.virginia.gov](mailto:cattlin.kelly@deq.virginia.gov)

Re: Comment on Draft Town of Onancock (GW0049201) Permit

The Eastern Shore of Virginia Groundwater Committee has reviewed the draft Groundwater Withdrawal Permit for the Town of Onancock that is currently under Public Comment. Based on the information provided, the Committee believes that the proposed withdrawal is substantially consistent with the intent of the *Ground Water Supply Protection and Management Plan for the Eastern Shore of Virginia* and the *Virginia Ground Water Management Act*, and that the draft permit provides protection for the ground water resource. Therefore, the Eastern Shore of Virginia Groundwater Committee does not object to the proposed Ground Water Withdrawal Permit.

- 1) This draft permit is a renewal of an existing permit (GW0049201), issued March 1, 2008 for a community water system (CWS) operated by the Town of Onancock that currently supplies water to 778 connections, including 600 residential, 125 commercial and 53 support systems. Current permitted use is 80,615,000 gal/year and actual use from 2020 through 2023 have been within 80% of the permitted withdrawal amount, with 2023 use exceeding the permit amount. The demand over the next permit period is expected to increase with the connection to the existing Northern Water and Wastewater Spur and demand from connection to the Dialysis Center as well as planned future developments (Carnival Grounds, Commonwealth Senior Living, Liberty Street, and Coastal Square). To accommodate the current demand plus new connections over the 15-year permit period, the requested withdrawal amount for the new permit is 120,000,000 gal/year.

One future development identified in the Fact Sheets is the Coastal Square development, with 700 planned units identified in the Town's permit application. We would like to note that the current planned size of the development is 465 units. It is not clear if the entire 700 units factored into the original request or if a subset of the development was assumed. Based on historical use trends and the projected demand from the Water Supply Plan, the requested 120,000,000 gal/year for a 15-year permit appears reasonable. The Groundwater Committee wanted to update the Coastal Square development size and, if appropriate, adjust the permit amounts.

Accomack-Norhampton Planning District Commission  
Address: PO Box 417 23372 Front Street Accomac, Virginia 23301  
Phone: (757) 787-2936



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## Eastern Shore of Virginia Ground Water Committee

John Colar      Calvin Washington      Elaine Mel      Britt McMillan  
Chairman      Vice Chairman      Secretary      Technical Advisor

- 2) The Fact Sheet cites *"The water quality of the Surficial aquifer is at a higher risk for impacts from contamination and is not expected to be capable of yielding an adequate and reliable supply of potable water for the Town."* The Groundwater Committee would like to note that there are more than one Community Water Supply on the Eastern Shore that successfully obtains some or all of its water from the Surficial aquifer. While it is true that the Surficial aquifer is at a higher risk for contamination from land use, the Yorktown-Eastover aquifer system is at a higher risk for contamination from saltwater intrusion. It is possible at least a portion of the Town's supply can be safely obtained from the Surficial aquifer although this would require site-specific testing.

The Groundwater Committee believes a better understanding of the 1) Surficial aquifer yields, 2) Surficial aquifer water quality, and 3) saltwater intrusion in the Yorktown-Eastover aquifer system are all important to maintaining a sustainable groundwater supply on the Eastern Shore of Virginia.

- 3) The groundwater model used to evaluate the potential for saltwater intrusion identified *"a potential for adverse changes to water quality as a result of the proposed withdrawal"* with a projected increase > 50 mg/L by the year 2045 with a *"potential for upconing of the potentially more saline waters of the Lower Yorktown-Eastover aquifer into the Middle Yorktown-Eastover aquifer"*.

The saltwater intrusion module in the current version of the model (VAHydroGW-ES) is not calibrated. Therefore the accuracy is limited and the results provide only guidance on what may occur, if upconing does occur, it may happen before the predicted 2045 date, in particular given that the actual 2023 Town withdrawals have already exceed the current permit limit. While it may not be necessary for the Town to establish a water quality monitoring network, this points to the need for more comprehensive saltwater intrusion monitoring on the Shore, similar to monitoring already occurring in the Eastern Virginia Groundwater Management Area.

Accomack-Norhampton Planning District Commission  
Address: PO Box 417 23372 Front Street Accomack, Virginia 23301  
Phone: (757) 787-2936



# A-NPDC

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## New Business:

Please welcome ANPDC Administrative Assistant, Faith Ann Lewis. Moving forward Faith will be drafting committee minutes and assisting Planning Staff with GWC website content and administrative tasks.



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## MEMORANDUM

TO: Eastern Shore of Virginia Groundwater Committee

FROM: Kellen J. Singleton  
Interdisciplinary Planner, A-NPDC

DATE: April 16, 2024

SUBJECT: Residential Well Testing Program

### Subcommittee Program Scope and Standards Update

The Residential Well Testing Program Subcommittee met on March 14. Members discussed scope, objectives, budget and timeline. Staff and subcommittee will begin finalizing the project budget as well as draft the RFP to procure services in carrying out the residential well testing scope of work with anticipated time of execution by the end of FY 2024. Mem. Walker has included definitions for quantitative and qualitative testing/analysis in the draft residential well testing program description.

Relevant documents and reference materials will be provided to committee members at or before the meeting date.



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## MEMORANDUM

TO: Eastern Shore of Virginia Groundwater Committee

FROM: Kellen J. Singleton  
Interdisciplinary Planner  
Accomack-Northampton Planning District  
Commission

DATE: April 16, 2024

SUBJECT: Groundwater Outreach and Education

### Groundwater Outreach and Education

#### **Groundwater Outreach and Education**

- Public mischaracterizations of ground water supply
- Information guide for decision makers and new membership
- Information handouts and material
- Public outreach and educational opportunities

Relevant documents and reference materials will be provided to committee members at or before the meeting date.



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## MEMORANDUM

TO: Eastern Shore of Virginia Ground Water Committee  
 FROM: Britt McMillan  
 Principal Hydrogeologist  
 Arcadis  
 DATE: April 16, 2024  
 SUBJECT: April 16, 2024 Ground Water Consultant Report

### Technical/Regulatory/Educational Items

- Two draft permits were submitted for public comment on or after April 22, 2024: KMC Camp (GW0053801) and Seybolt Farm (GW0069501). Both draft permits are renewals of current valid permits. KMC is requesting the same amount as their current withdrawal and Seybolt Farm Farm is requesting withdrawal amounts lower than their current permit. DEQ is accepting public comment on the draft KMC Camp permit through April 22, 2024 and public comment on the draft Seybolt Farm permits through May 6, 2024. Copies of 1) the draft Permit, 2) associated Fact Sheets that provide information on the basis for the permit conditions, and 3) instruction on providing public comment are available on the DEQ website under the heading "Contact for public comments, document requests and additional information": <https://www.deq.virginia.gov/permits/public-notices/water/water-withdrawal>

Facility	Type	Aquifers				New	Draft Permit (Gal)			Perce n-tile	Public Comment Deadline
		YTEO					Monthly	Annual	Increase		
Permit No	Name	S	U	M	L						
GW0080100	Cherrystone Campground			✓	✓	N	3,340,000	11,800,000	6%	52%	Oct 2
GW0053901	Perdue Farms		✓	✓	✓	N	78,000,000	700,000,000 to 650,000,000	-7%	100%	Oct 30
GW0080000	Afshan Farm				UNK	Y	1,216,860	4,725,900	NA	13%	Nov 6
GW0060601	Midwood Farm		✓	✓		N	3,000,000	10,000,000	-56%	50%	Nov 13
GW0037302	Shore Health and Rehab		✓			N	810,000	6,600,000	28%	26%	Jan 22
GW0070301	Shelley Farm		✓			N	6,550,000	16,600,000	0%	69%	Jan 29
GW0070501	Jones 3 Farm		✓			N	9,629,000	11,974,000	0%	55%	Jan 29
GW0079000	Eastern Shore Nursery				UNK		6,300,000	36,890,000	NA	81%	Feb 12
GW0044201	Town of Chincoteague		✓	✓	✓	N	34,100,000	219,400,000	0%	98%	Feb 12
GW0070001	Walker Farm		✓			N	7,500,000	13,100,000	0%	61%	Mar 4
GW0049201	Town of Onancock				✓	N	10,597,000	120,000,000	49%	98%	April 8
GW0069101	Melfa Farm			✓		N	20,200,000	46,250,000	-26%	82%	April 15
GW0069901	Tipton Farm		✓	✓		N	22,400,000	38,000,000	-46%	80%	April 15
GW0053801	KMC Camp				✓	N	572,000	2,300,000	0%	2%	April 22
GW0069501	Seybolt Farm		✓	✓	✓	N	5,664,000	10,014,000	-69%	42%	May 6

Notes:

Type: A = Agriculture  
 CA = CAFO (Confined Animal Feeding Operation)  
 I = Industrial  
 P = Public Water Supply

Aquifers: S = Surficial aquifer (the % indicates the percent of the total withdrawal from the surficial aquifer)



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YTEO = Yorktown-Eastover aquifer system  
 U, M, L = Upper, Middle, Lower YTEO

New:

Y = New Permit  
 N = Re-issued Permit

Percentile: Compares annual amount to other permitted withdrawals on the Eastern Shore. For a percentile of 75%, 75% of the permits are less than the draft permit and 25% are greater. Large withdrawals (> 75-percentile) are presented in orange.

Facility		Special Conditions		
Permit No	Name	WQ	Alt	Other
GW0080100	Cherrystone Campground	✓		Chloride monitoring. Well video logging, survey, and pump reset.
GW0053901	Perdue Farms	✓	✓	Tiered (decreasing) withdrawals, Alt Source Development Plan, Well Abandonment
GW0080000	Afshan Farm		✓	Pump intake, geophy logs, video logging
GW0060601	Midwood Farm			Pump intake, geophysical logs, well abandon, pond controls
GW0037302	Shore Health and Rehab			Well abandon
GW0070301	Shelly Farm			None
GW0070501	Jones 3 Farm			None
GW0079000	Eastern Shore Nursery			Flow meters, geophysical logs, pump intake, pond level control
GW0044201	Town of Chincoteague	✓		Well abandon, alternative source evaluation
GW0070001	Walker Farm			Pond level control
GW0049201	Town of Onancock			None
GW0069101	Melfa Farm			Pond level control. Well abandonment.
GW0069901	Tipton Farm			None
GW0053801	KMC Camp			None
GW0069501	Seybolt Farm			None

Draft Kuzzen's KMC Camp (GW0053801) is for a renewed permit for an existing groundwater withdrawal. Previous permit was issued June 1, 2011 and expired May 31, 2021 and has been administratively continued. The original (and current) permit was to withdrawal 2,300,000 gallons per year and 572,000 gallons per month. The draft permit is requesting the same amount.

The groundwater use is for a potable water supply to provide water for a migrant labor camp that houses 11 dormitories, 1 crew leader's house, and two combined laundry and bathhouses. The camp houses up to 336 individuals per week and is occupied approximately 6-months per year beginning mid-June and extends to the end of the agricultural season. The Camp operates under a Health Department (VDH) permit (VA3131855) as a non-community (NC) public water supply.

Water use is for drinking and domestic uses (food preparation, cleaning, laundry, sanitary). Irrigation use is not permitted.

Water is supplied from two active wells, both screened in the Middle Yorktown-Eastover aquifer.

DEQ No.	Well No.	Screen Interval (ft bgs)	Aquifer
165-00491	#2	210-240	MYT
165-00568	#3	205-235	MYT

**Withdrawal Amounts:**  
 amount is 2,300,000

The requested withdrawal gallons per year, which is a

very small withdrawal on the Shore (less than 3% of the permitted groundwater withdrawals on the





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Shore are less). The maximum withdrawal under the current permit was 2,018,118 gallons in 2012. The actual use is close (88%) to the permitted withdrawal amount.

**Alternative Sources (Surficial aquifer):** As stated in the DEQ Fact Sheets: *“Within the Surficial aquifer the water quality is variable, and typically requires some level of treatment. The upper and middle portions of the confined Yorktown-Eastover aquifers do supply potable quality water which requires little treatment, if any.”*

**Special Conditions:**  
None

**Additional Remarks:**

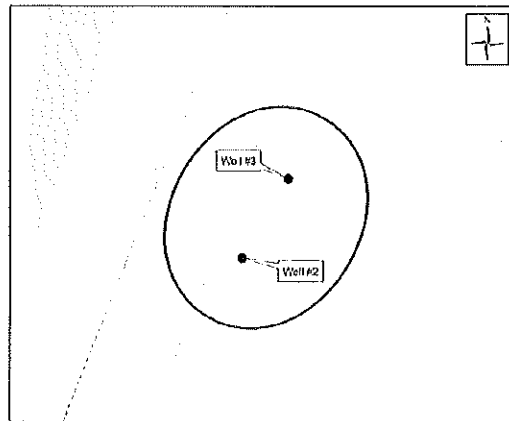
a. The alternative sources states that the Surficial aquifer *“...typically requires some level of treatment...”* and that the upper and middle portions of the confined Yorktown-Eastover aquifer *“...requires little treatment, if any...”*. It is worth noting that there isn’t necessarily much difference between these two statements.

Given 1) how small the withdrawal amount is and 2) the use is for potable supply, there would not be any benefit to the resource if the withdrawal was from the Surficial aquifer.

b. The area of impact (estimated 1-foot drawdown) is very small, extending only 120 feet from the pumping center. The DEQ Fact Sheets states that the area of impact extends beyond the property boundary and therefore a Mitigation Plan.

It’s not clear where the property boundary is, but from the information provided, it would appear that the AOI is within the overall Camp area (and a Mitigation Plan would not be required). Regardless, there are not any other wells within the area of impact.

**Kuzzen's KMC Camp  
Area of Impact - Middle Yorktown-Eastover Aquifer**



● Kuzzen's KMC Camp Wells  
— Middle Yorktown-Eastover Area of Impact  
Simulated drawdown at or exceeding one foot in the Middle Yorktown-Eastover (MYE) aquifer resulting from a two-dimensional Hantush-Jacob (1955) analytical simulation of 2,300,000 gpy, 60 year withdrawal from the Middle Yorktown-Eastover aquifer.



Technical evaluation performed by Aquaveo, LLC for the Virginia DEQ, Office of Water Supply January 3, 2024

Maximum radius of one foot drawdown (Area of Impact) extends approximately 120 feet from the pumping center.



Draft Seybolt Farm (GW0069501) is for a renewed permit for an existing withdrawal. The current permit was issued February 1, 2014 with an expiration date of January 31, 2024. The permit has been administratively continued until a new permit is issued.

Groundwater use is for agricultural irrigation. Principal crop is potatoes, corn, snap beans, and soybeans and is irrigated through center pivot method. The center pivot is monitored by a FieldNET system that has an overwatering sensor that cease working if problems are detected. A

Farmable area is 48-acres. Water is supplied from five wells, one screened in the Surficial aquifer and the remainder screened in the Upper and Middle Yorktown-Eastover aquifers.



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DEQ No.	Well No.	Screen Interval (ft bgs)	Estimated Aquifer	Apportioned Withdrawal (%)
100-01273	#1	25-105	Surficial	15
100-01274	#2	145-175	UYT	11
100-01275	#3	145-220	UYT - MYT	26
100-01276	#4	145-220	UYT - MYT	27
100-01292	#5	192-232	MYT	21

The water withdrawal apportioned to the Surficial aquifer in the DEQ Technical Analysis is 15% of the total withdrawal.

**Withdrawal Amounts:** The requested withdrawal amount of 10,014,000 gallons per year is a 69% **reduction** in the previous (current) groundwater withdrawal permit of 32,292,000 gal/year. The amount requested is for a moderate amount, 42% of the permitted withdrawals on the Shore are less. Maximum historical use over the previous permit term (2014-2024) was 6,700,000 gal/year in 2021. This amount is approximately 2/3's (67%) of the requested amount.

**Alternative Sources (Surficial aquifer):**

Seybolt Farm does not include an on-site irrigation pond. While no explanation on the absence of any on-site ponds is given in the Fact Sheets, the most likely reason is the size of the farm isn't sufficient to support an irrigation pond.

As stated in the DEQ Fact Sheets: "...Seybolt Farm does utilize the Surficial (Columbia) aquifer for some of its irrigation water." And "Site specific investigations of the Surficial aquifer have been required for Poultry Farms and new or expanded facilities on the Eastern Shore. Since the permitted withdrawals are not an increase to an existing permitted facility, a site-specific investigation of the Surficial aquifer is not required during this permit term."

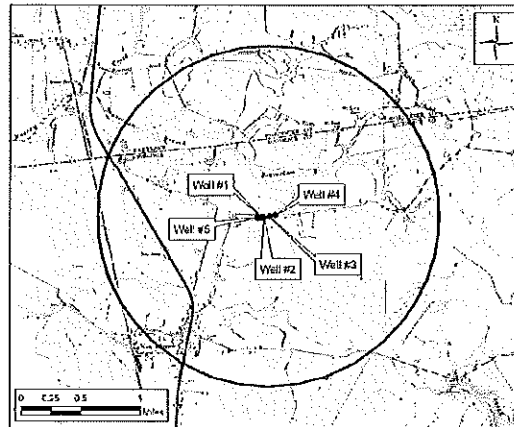
**Special Conditions:**

None

**Additional Remarks:**

1. The Fact Sheet notes that a portion of the irrigation water is withdrawn from the Surficial aquifer and that there is no requirement to evaluate the Surficial aquifer on the basis that the requested amount is not new or an increase. The requested amount is a 69% **reduction** in the current permit amount.
2. Aquifer testing was previously completed for the Upper and Middle Yorktown-Eastover aquifer (using Well #2 and Well #5) as part of the previous permit in 2013. Aquifer testing was not completed for the Surficial aquifer. An aquifer test, or at a minimum a pumping test if a suitable observation well is not available, of the existing Surficial aquifer well would provide additional information on the unconfined aquifer. Note that Seybolt Farm is not far from Commonwealth Chesapeake Corporation where the withdrawal is from the surficial aquifer and aquifer testing has been completed. While additional information would be

**Seybolt Farm  
 Area of Impact - Middle Yorktown-Eastover Aquifer**



• Seybolt Farm Wells  
 — Middle Yorktown-Eastover Area of Impact

Simulated drawdown at or exceeding one foot in the Middle Yorktown-Eastover (MYE) aquifer resulting from a two-dimensional Hantush-Jacob (1955) analytical simulation of 3,223,933.33 gpy, 50 year withdrawal from the Middle Yorktown-Eastover aquifer.

Maximum radius of one foot drawdown (Area of Impact) extends approximately 1.5 miles from the pumping center.

Technical evaluation performed by Aqueveo, LLC for the Virginia DEQ, Office of Water Supply March 4, 2024





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helpful, location of the Seyboit Farm is not in a critical information need area compared to other areas of the Shore.

2. **Public Comments:** Previously, the Groundwater Committee responded to all draft Permits as part of the public comment phase. These comments were provided at a time DEQ gave the Groundwater Committee a "courtesy copy" of the draft Permit prior to the 30-day comment period. After DEQ ceased providing the courtesy copy and given the shorted time frame to address comments, this practice ceased. With the large number of recent draft permits it would be beneficial to comment on draft permits as necessary. Given the shortened response period (compared to the past), it is helpful to have structured response options along with individualized comments. Four structured response options are provided below:

- a. "The Committee believes that the proposed withdrawal is consistent with the intent of the *Ground Water Supply Protection and Management Plan for the Eastern Shore of Virginia* and the *Virginia Ground Water Management Act*, and that the draft permit provides adequate protection for the ground water resource. Therefore, the Eastern Shore of Virginia Groundwater Committee supports the proposed Ground Water Withdrawal Permit." *{add qualifying text, such as citing beneficial uses or concerns regarding implementation}*
- b. "The Committee believes that the proposed withdrawal is substantially consistent with the intent of the *Ground Water Supply Protection and Management Plan for the Eastern Shore of Virginia* and the *Virginia Ground Water Management Act*, and that the draft permit provides protection for the ground water resource. Therefore, the Eastern Shore of Virginia Groundwater Committee does not object to the proposed Ground Water Withdrawal Permit." *{add qualifying text, such as citing beneficial uses or concerns regarding implementation}*
- c. "Based on the information provided, the Committee believes that the proposed withdrawal may conflict with the intent of the *Ground Water Supply Protection and Management Plan for the Eastern Shore of Virginia* and the *Virginia Ground Water Management Act*, and may have a detrimental effect on the ground water resource. Therefore, the Eastern Shore of Virginia Groundwater Committee would like several issues clarified before the Ground Water Withdrawal Permit is issued." *{add qualifying text that specifies the issues, such as definition of the impact area, water conservation requirements, or monitoring}*
- d. "Based on the information provided, the Ground Water Committee believes that the proposed withdrawal may conflict with the intent of the *Ground Water Supply Protection and Management Plan for the Eastern Shore of Virginia* and the *Virginia Ground Water Management Act*, and may have a detrimental effect on the ground water resource. Therefore, the Eastern Shore of Virginia Groundwater Committee has concerns about the Draft Ground Water Withdrawal Permit and believes that a Public Hearing is appropriate to resolve these concerns." *{add qualifying text that specifies the issues, such as definition of the impact area, water conservation requirements, or monitoring}*

From the three draft Permits the following are the more significant groundwater resource concerns:

- 1) How to increase use of the Surficial aquifer when use of the Surficial aquifer isn't regulatorily required.
- 2) What are the causes of the Critical Area in the Upper Yorktown-Eastover aquifer (near Tyson) and Middle Yorktown-Eastover aquifer (near Perdue)? How much does secondary drawdown from other nearby groundwater users contribute to the Critical Area? Is the Critical Area expanding or likely to expand?
- 3) What is the source of error for areas where the model significantly under-predicts water levels compared to actual measured water levels. Potential errors include:
  - a. aquifer misclassification,



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- b. differences in how the model simulates water levels compared to how water levels are measured in the wells (the model simulates average water levels over an area while the wells measures water levels from a point)
    - c. unaccounted for withdrawals (withdrawals that are not permitted)
  2. Groundwater level trends on the Eastern Shore of Virginia. Groundwater level trends for the VDEQ and USGS maintained monitoring well network was last evaluated in 2020 for the Shore. Overall trends with an emphasis on changes in water levels over the past 4-years will be presented.



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## MEMORANDUM

TO: Eastern Shore of Virginia Groundwater Committee

FROM: Kellen J. Singleton  
Interdisciplinary Planner, A-NPDC

DATE: April 16, 2024

SUBJECT: Committee Attendance Records

The FY2024 Committee Attendance Records are attached.



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## EASTERN SHORE OF VIRGINIA GROUND WATER COMMITTEE FY 2024 ATTENDANCE RECORD

Member	Term Exp.	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
<b>ACCOMACK COUNTY</b>													
Calvin Washington Sr.	Vice Chair, July 2025	-	-	-	-	-	-	X	X	X			
Paul Muhly	Vice Chair; Next vote: July 2025	*	X	X	X	*	*	-	-	-			
Dan Hershey	June 2025	*	X	X		*	*	X	X	X			
Grayson Chesser	June 2023	*	X	X		*	*	X	X	X			
Sue Mastyl	April 2025	*	X	X	X	*	*	X	X	X			
<b>NORTHAMPTON COUNTY</b>													
John Coker	Chair, Next Vote: July 2025	*		X	X	*	*	X		X			
Paul Grossman	March 2024	*	X	X	X	*	*	X	X	X			
Steve Sturgis	July 2024	*	X		X	*	*	X	X				
Ann Hayward Walker	December 2024	*	X	X	X	*	*		X	X			
<b>NON-VOTING EX-OFFICIO MEMBERS</b>													
Charles Kolakowski	NA	*				*	*		X	X			
Mike Mason	NA	*				*	*						
Elaine Meil	NA	*				*	*		X				
-	Not a Member			X					()				Alternate Present
*	No Meeting Held			NA									





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