Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

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Travis A. Voyles
Acting Secretary of Natural and Historic Resources

Michael S. Rolband, PE, PWD, PWS Emeritus
Director
(804) 698-4020

February 13, 2023

RE: Local Government Notification of Proposed Draft Groundwater Withdrawal Permit

Dear Local Official:

The Department of Environmental Quality has received an application to withdraw groundwater in the Eastern Virginia Groundwater Management Area. Part V of the Groundwater Withdrawal Regulations requires that the Department of Environmental Quality send a notice of every draft permit to the board of each local governing body located within the groundwater management area where the proposed withdrawal will occur prior to the date of public notice.

In accordance with section 9VAC25-610-250 B, please find the attached notice that will be advertised in the Richmond Times Dispatch on February 15, 2023. The notice will be available on the DEQ website by the start of the Public Notice period. Additional information on the permit application may be obtained by contacting me.

The Department will accept comments concerning the proposed issuance of this draft permit for thirty days. All comments must be received by March 17, 2023.

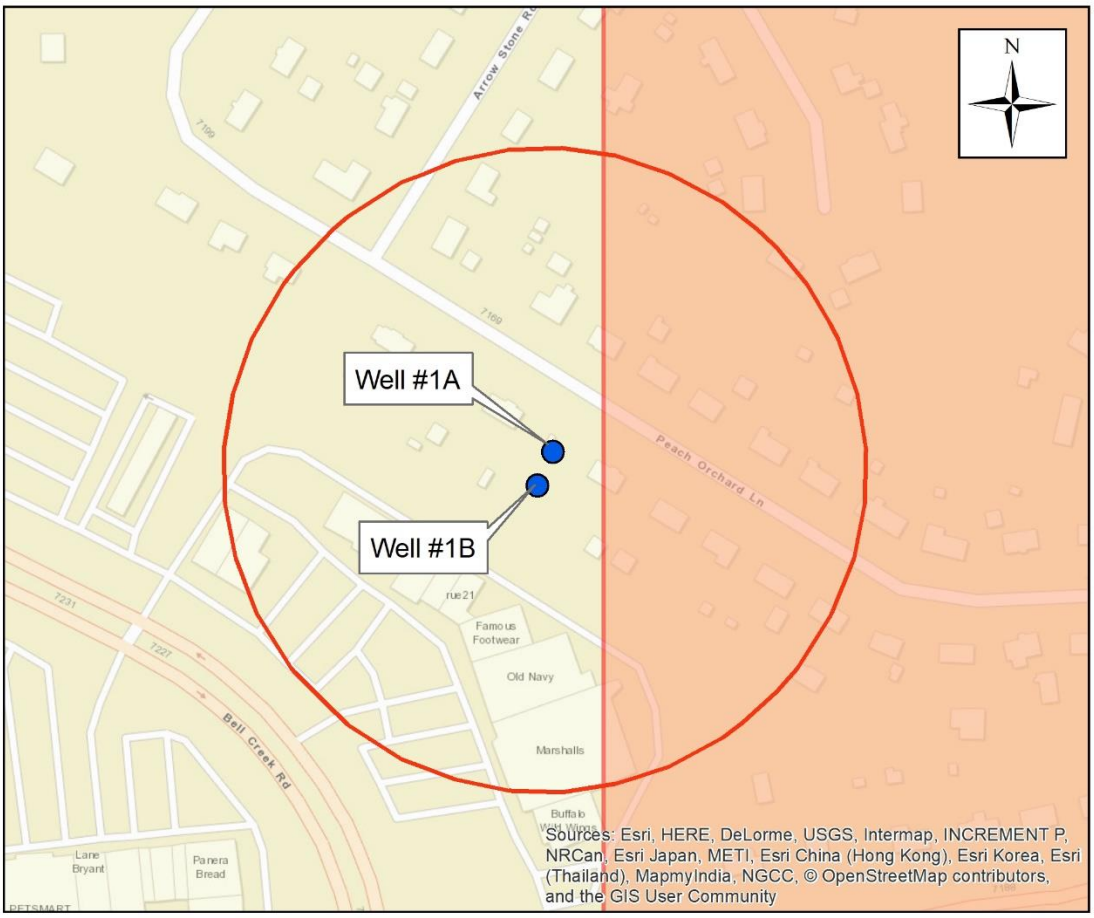
Sincerely,

Eric Seavey
Water Withdrawal Permitting Program

Public Notice – Environmental Permit

PURPOSE OF NOTICE: To seek public comment on a draft permit from the Department of Environmental Quality (DEQ) for the withdrawal of groundwater in Hanover County, Virginia.
PUBLIC COMMENT PERIOD: February 15, 2023 to March 17, 2023
PERMIT NAME: Groundwater Withdrawal Permit issued by DEQ pursuant to applicable water laws and regulations
APPLICANT NAME, ADDRESS AND PERMIT NUMBER: Aqua Virginia, Inc.; 2414 Granite Ridge Road, Rockville, VA 23146; GW0002602
NAME AND LOCATION OF WATER WITHDRAWAL: Walnut Grove Public Water System; 7150 Peach Orchard Lane, Mechanicsville, VA 23111
PROJECT DESCRIPTION: Aqua Virginia, Inc. has applied for a reissuance of a permit for a non-municipal public water supply system in Hanover County, Virginia. The permit would authorize the applicant to withdrawal a maximum of 6,500,000 gallons per year and 800,000 gallons per month from the Potomac aquifer. The groundwater withdrawal will provide potable water to residents of the Walnut Grove subdivision. The proposed withdrawal will utilize the Potomac aquifer at a depth between 310 feet to 390 feet below the land surface at the withdrawal site. An aquifer is a body of rock or layer of sediment in the ground in which groundwater is stored and transported. DEQ has made a tentative decision to issue the permit.
AFFECTED AREA: The radial distance from the wells to where computer modeling predicts the aquifer may experience one foot of drawdown due to the withdrawal is illustrated on a map that can be viewed at https://www.deq.virginia.gov/permits-regulations/public-notices/water/water-withdrawal
HOW TO COMMENT AND OR REQUEST A PUBLIC HEARING: DEQ accepts comments and requests for public hearing by hand delivery, e-mail, fax or postal mail. All comments and requests must be in writing and be received by DEQ during the comment period. Submittals must include the names, mailing addresses or email addresses of the commenter/requester and of all persons represented by the commenter/requester. A request for public hearing must also include: 1) The reason why a public hearing is requested. 2) A brief, informal statement regarding the nature and extent of the interest of the requester or of those represented by the requestor, including how and to what extent such interest would be directly and adversely affected by the permit. 3) Specific references, where possible, to terms and conditions of the permit with suggested revisions. A public hearing may be held, including another comment period, if public response is significant, based on individual requests for a public hearing, and there are substantial, disputed issues relevant to the proposed permit.
CONTACT FOR PUBLIC COMMENTS, DOCUMENT REQUESTS AND ADDITIONAL INFORMATION: Eric Seavey; Central Office, P.O. Box 1105, Richmond, VA, 23218; Phone: 804-754-6250; E-mail: eric.seavey@deq.virginia.gov; FAX: 804-698-4178 The public may review the draft permit and application at the DEQ office named above {by appointment} or may request copies of the documents from the contact person listed above.

Walnut Grove Public Water System
Area of Impact - Potomac Aquifer



Walnut Grove Public Water System Wells

Potomac AOI

Potomac Aquifer Critical Cells

0 0.025 0.05 0.1 Miles

Simulated drawdown at or exceeding one foot in the Potomac aquifer resulting from a 2-dimensional Hantush-Jacob (1955) simulation of 50 years at 6,500,000 gallons per year from the Potomac aquifer. Maximum radius of one-foot drawdown (Area of Impact) occurs 534 feet from the pumping center.

Technical Evaluation performed by Aquaveo, LLC for the Virginia DEQ, Office of Water Supply Planning
April 28, 2021

DEQ
VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY