

STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
APPLICATION FOR A WATER ALLOCATION PERMIT

VIOLATIONS ARE SUBJECT TO PENALTY PROVIDED BY 7 DEL. C. CHAPTER 60

MAIL TO:

OFFICIAL USE ONLY:

Water Supply Assessment & Protection
 DNREC - DIVISION OF WATER
 89 KINGS HIGHWAY
 DOVER, DE 19901
 (302) 739-9948
<https://dnrec.alpha.delaware.gov/>

DNREC ALLOCATION NO. _____
 DRBC DOCKET NO. D-_____-_____- CP

PLEASE TYPE OR PRINT

1. Owner Name: Town of Magnolia
 Address: P.O. Box 233, 3 East Walnut Street
 City: Magnolia State: DE Zip Code: 19962 Phone # (302) 943-0934
 Email Address: jrfcm4@gmail.com

2. Project Name: New Well
 Address: Same as Owner Address
 City _____ State _____ Zip _____ Telephone # (____) _____

3. Date of Application: 03/20/2024

4. Name, address, and telephone # of geologist (or engineer): Steven Cahill, DE P.G. #692
Verdantas, LLC
1143 Savannah Road
Lewes, DE 19958

Attach a map location of all facilities (wells, streams, and pond intakes). Applications for irrigation systems needs the acreage for each facility. All applications must show, if applicable, the locations of service areas, water tanks, interconnections, and property/corporate boundaries. **See attached Exhibit 1**

5. Purpose (check): Public _____ Industrial Process _____ Industrial Cooling _____ Irrigation
 _____ Commercial _____ Contaminant /Recovery Other _____

6. Facility information: (attach additional sheet(s) if needed)

A. Facility Local ID	B. Facility Permit No.	C. Maximum Pump Capacity (GPM)	D. Maximum Use (GPD)	E. Acreage Total/ Irrigated
1R (Town Hall)	69351	160	85,000	NA
3 (McIlvain Elementary)	46358	315	85,000	NA
Proposed New Well (East Walnut)		500	85,000	NA
2R** (East Walnut)	68805	700	85,000	NA

** Well 2R (68805) to be abandoned by licensed driller prior to operation of new well.

8. Requested rates (MG): 0.085 Per Day 2.635 per Month 31.62 per Year
 Sub-Total ___ System Total X

9. For irrigation projects only: Total tillable acreage: _____ Irrigated acreage: _____
10. What is the estimated consumptive use, as a percentage of the total withdrawal? **85%**
11. Can water be **transferred** from facilities other than those listed in #8 (above)? **No** If so, give the name and location, the use for the water, and list average daily, monthly, and yearly flows. (Interconnections with other systems should be marked on the map attached for #6).
12. Discuss the feasibility of interconnecting with other systems. (n/a to irrigation projects). **Tidewater Utilities serves areas north of Magnolia on State Street. Interconnection possible 1/8 mile north of Town on State Street.**
13. For each well listed in #8 (above), attach Completion Reports and pumping test reports as specified in the Well Permit. If these reports do not exist, attach all available information about the wells or intakes. **See Exhibit #2 (Well Completion Reports and DNREC Source Water Report)**
14. Attach the latest reports on chemical and bacteriological analyses for the water from each facility. (n/a to irrigation wells and irrigation surface-intakes). **See Exhibit #3, 2023 Water Quality Report**
15. Describe all treatment the withdrawn water will receive prior to use. **Chlorination, Fluoride, Iron Treatment**
16. Describe the method of treatment for this project's wastewater. If the wastewater is discharged to surface waters or lands, attach the latest chemical and bacteriological analyses of the effluent, including temperature (DMRs), and where appropriate the disposal project study. Otherwise, name the treatment facility for this wastewater. **No wastewater is generated from the drinking water treatment. Sanitary wastewater for Magnolia is served by Kent County Sewer System.**
17. Are all facilities listed in #7 (above) **individually metered**? **Yes**. Identify those not metered and submit a proposed schedule for meter installation.
18. For public supply projects only: what percent of individual service-connections are metered? **0%** If not 100%, when will it be 100%. What is the present population? **277 per 2020 Census** in five years? **283 by 2029 per DE population study***.

**Delaware Population Consortium, Annual Population Projections, October 2021*

19. Conservation Program for projects with total system water withdrawals over of 1.0 mgd. Attach the appropriate program description. (n/a to irrigation projects). **NA**
- A. **Public water supply systems:** A Conservation Program for the monitoring, prevention, and repair of leakage throughout the system, provides customer information relating to water conservation and water-saving devices. **NA**
- B. **Industrial, Commercial, and other water supply projects:** A Conservation Program that provides the investigation of conservation measures and provides the implementation of those as soon as possible. A description of leak-detection monitoring and all feasible process-modifications for minimizing both water usage and loss. **NA**
20. Drought Emergency Plan for projects with total system water withdrawal over 1.0 mgd. Attach the following plan description. (n/a to irrigation projects). **NA**
- A. Identification of all priority uses for water throughout the system or service are, priority locations, water usage restriction schedules, implementation procedures, and any alternate sources of water. **NA**
21. AFFIDAVIT

I, Steven Cahill, P.G., hereby affirm this application and any plans, reports, or documents submitted with this application to be true and correct to the best of my knowledge.

Signature JK Cahill

Date 3/20/2024

SWORN TO AND SUBSCRIBED before me the 20 day of March A.D., 2024

Steve Cahill appeared before me.
WJP
NOTARY PUBLIC

*Applications for withdrawal for agricultural/irrigation are not required to be notarized!

