

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 ALLOCATIONS BRANCH
DNREC - DIVISION OF WATER
89 KINGS HIGHWAY
DOVER, DE 19901
(302) 739-9945
<http://www.dnrecstate.de.us>

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

PLEASE TYPE OR PRINT

1. Owner Name Artesian Water Company, Inc.
Address 664 Churchmans Road
City Newark State DE Zip 19702 Phone # 302-453-6900
2. Project Name Stonefield Well 2
Address 226 Olivine Circle
City Townsend State DE Zip 19734 Telephone # () _____
3. Date of Application 02/13/2024 Peter Demicco, P.G.
310 Newark Road, Landenberg, PA 19350
4. Name, address, and telephone # of geologist (or engineer): (908) 507-9992
5. Attach a map (USGS 7 1/2 minute quadrangle only) with clearly marked locations of all facilities (wells, streams, and pond intakes). Applications for irrigation systems must also show the acreage served by each facility. All applications must show, if applicable, the locations of service areas, water tanks, interconnections, and property/corporate boundaries. See attached maps.
6. Purpose (check): Public Industrial Process Industrial Cooling Irrigation
 Commercial Contaminant /Recovery Other _____
7. 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
1	99806	450	580,000	N/A
2	99009	300	432,000	N/A

8. Requested rates(MG): _____ Day 1.012 Month 30.36 Year 369.38
Sub-Total System Total _____
9. For irrigation projects only: Total tailable acreage: N/A Irrigated acreage: N/A

10. What is the estimated consumptive use, as a percentage of the total withdrawal? 9.3%
11. Can water be transferred from facilities other than those listed in #8 (above)? Yes 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). The Stonefield water treatment facility is part of Artesian's regional New Castle County water system.
12. Discuss the feasibility of interconnecting with other systems. (not applicable to irrigation projects).
Artesian's system is interconnected with Wilmington, Newark, New Castle, Veolia Delaware, Chester Water Authority, and Middletown.
13. For each well listed in #8 (above), attach copies of 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.
Aquifer test report for well 2 is attached.
14. Attach copies of the latest reports on chemical and bacteriological analyses for the water from each facility. (not applicable to irrigation wells and irrigation surface-intakes).
Water quality reports for well 2 are attached.
15. Describe all treatment the withdrawn water will receive prior to use.
Treatment will consist of filtration for iron removal, chlorination, fluoridation, and phosphate addition.
16. Describe the method of treatment for this project's waste water. If the waste water is discharged to surface waters or lands, attach copies of 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 waste water.
There is no wastewater generated by this project.
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? 100% If not 100%, give a schedule of when it will be 100%. What is the present population? 234,516 in five years? 240,438.
19. Conservation Program for projects with total system water withdrawals over of 1.0 mgd. Attach the appropriate program description. (not applicable to irrigation projects). Conservation program is on file with DNREC.
- A. **Public water supply systems:** A Conservation Program which provides for the monitoring, prevention, and repair of leakage throughout the system, provides customer information relating to water conservation and water-saving devices.
- B. **Industrial, Commercial and other water supply projects:** A Conservation Program which provides for the investigation of all feasible conservation measures, and provides for the implementation of those feasible as soon as possible. A description of leak-detection monitoring and all feasible process-modifications for minimizing both water usage and loss.
20. Drought Emergency Plan for projects with total system water withdrawal over 1.0 mgd. Attach the following plan description. (not applicable to irrigation projects). Drought emergency plan is on file with DRNEC.
- 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.

21. AFFIDAVIT

I, Daniel Konstanski, 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 and belief.

Signature 

Date 2/13/24

SWORN TO AND SUBSCRIBED before me the 13th day of February A.D., 2024

Kara Margaret Money Donak
NOTARY PUBLIC

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

