

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:

ALLOCATIONS - WATER SUPPLY BRANCH
DIV. of WATER - DNREC
89 KINGS HIGHWAY
DOVER, DE 19901
FOR INFORMATION: (302) 739-9945

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

APPLICATION FEE VALIDATION -->
RECEIVED BY _____

PLEASE TYPE OR PRINT

1. Owner's Name Schell Brothers LLC.
Address 20184 Phillips Street
City Rehoboth Beach State DE Zip 19971 Telephone # 302-226-1994
Email Address _____

2. Project Name Autumndale
Address Phillips Branch Rd
City Harbeson State DE Zip 19951 Telephone # _____

3. Date of Application

4. Name, address, and telephone # of geologist (or Engineer): _____

5. Attach a map (USGS 7 1/2-minute quadrangle) with accurately and 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, where appropriate, the locations of service areas, water tanks, interconnections, and property/corporate boundaries.**

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

7. Facility information: (attach additional sheets if needed)

A. Facility Local ID	B. Facility Permit No.	C. Maximum Pump Capacity (Gallons Per Minute)	D. Maximum Use (Gallons Per Day)
Autumndale D1		120 GPM	53,182

These next 6 questions are specific to how your system runs for Irrigation purposes.

8. How many inches of water is required per week to meet the needs of your crop?

1" Per week

9. How many days would you typically spray irrigate in a week to meet the needs of item 8?

4-5 days Per Week

10. How many hours per day would the spray irrigation run on a typical day?

7-8 hrs Per day.

11. How many weeks is irrigation required during a typical growing season?

7 months (28-30 weeks)

12. Do you require any pre/post-season irrigation to adjust soil moisture prior to planting the crop?

No

13. If off-peak season irrigation is required, what is the weekly water need and for how many weeks?

N/A

14. Requested rates (Million Gals): 53,182 Day 1,063,640 Month 13,827,320 Year
← Based off 5 Days Week →

Sub-Total _____ System Total X (check Sub if systems interconnect)

15. For irrigation projects only: Total tillable acreage: _____ Irrigated acreage: 10.5

16. What is the estimated consumptive use, as a percentage of the total withdrawal? 100%

17. For each well listed in #8 (above), attach Completion Reports and pumping test reports as specified in the Well Permit. If reports not available, attach all information about the wells or intakes.

18. Describe all treatment the withdrawn water will receive prior to use.

No Prior Treatment

19. Are all facilities listed in #7 (above) individually metered? _____. Identify those not metered and submit a proposed schedule for meter installation.

20. 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.

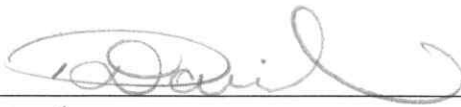
21. Drought Emergency Plan for projects with total system water withdrawal over 1.0 mgd. Attach the following plan description. **(not applicable to irrigation projects).**

A. Identification of all priority uses for water throughout the system or service area, water usage restriction schedules, implementation procedures, and any alternate sources of water.

22. AFFIDAVIT

I, Derek Davidson, 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 6/21/2024

SWORN TO AND SUBSCRIBED before me the _____ day of _____.

NOTARY PUBLIC

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

INSTRUCTIONS FOR FILING A WATER ALLOCATION PERMIT APPLICATION

State law (7 Del. C. Subsection 6003 (a)) requires permitting of projects withdrawing water from the surface or the ground at a rate greater than 50,000 gallons per day. For effected projects application must be made to the Department of Natural Resources and Environmental Control (DNREC) to obtain a Water Allocation Permit. All applications for public, industrial, and commercial Water Allocation Permits must be accompanied by one-time permit fee payment of \$375 for each surface-water body (stream or pond) and aquifer supplying the system, regardless of the number of withdrawal points in either. (NOTE: Irrigation projects and permit modifications do not require a fee payment). The amount of this fee payment **must** be verified with the Water Allocation Branch. Make the DNREC Water Allocation Permit fee payment check payable to the **State of Delaware**.

If the project is both within the Delaware River basin and its withdrawals are 100,000 gallons per day or greater, in any 30-day period, application must **also** be made to the Delaware River Basin Commission (DRBC). If so, complete the enclosed DRBC application and DRBC project review fee form. (NOTE: Governmental agencies are exempt from the DRBC project review fee payment). Make this check payable to the **Delaware River Basin Commission**. Submit the DRBC application **in duplicate** with the DNREC application, along with all required fee payments, to the Water Allocation Branch of the DNREC. The Branch will then forward the DRBC application and fee payment to them.

All checks must be signed by the project owner or authorized agent. Please submit the appropriate items to:

ALLOCATIONS - WATER SUPPLY SECTION
DIVISION OF WATER
DNREC
89 KINGS HIGHWAY
DOVER, DE 19901

The following are instructions for the DNREC application. General information for the DRBC application is attached to it. If you have questions while filling either application, you are urged to call the Water Allocation Branch at (302) 739-9945.

THE SYSTEM OWNER, WATER-FACILITY MANAGER, OR A QUALIFIED CONSULTANT MUST COMPLETE THIS APPLICATION. A SEPARATE APPLICATION IS NEEDED FOR EACH SYSTEM OWNED.

1. List all requested information for the owner of the system. For privately-owned projects, list all applicable corporate names. Include mailing and street addresses where appropriate.
2. List all information for the project if different from #1 above. Specify the development, site, or tract name as appropriate, where the withdrawals will be located.
3. List the date the application is signed.
4. If a geologist or engineer has been involved with the development of the water supply, or facilities, give their name, address, and telephone number. Exclude drilling contractors.

5. All specified information must be clearly marked plotted on the map. For irrigation projects, the applicant may also provide soils maps as supplements to the topographic map.
6. Only one may be checked. Leave blank if uncertain.
7. ATTACHMENTS #7 is a listing of information on withdrawal facilities (wells, stream, or pond intakes).

If all withdrawals are from a SINGLE SOURCE (one aquifer, one stream, or one pond) an attachment is needed only if there are more than six facilities. In this case attach a blank copy of the first page of the application. Complete all items through #7 on the original and complete all items through #8 on the attachment.

If withdrawals are from MULTIPLE SOURCES (different aquifers and/or surface waters) attachments will be needed regardless of the number of facilities. In this case attach a separate blank copy of the first page of the application for each aquifer, stream, and pond. Complete all items on each page and check SUB-TOTAL on each by item #8. For the entire system, sum all "SUB-TOTALS" onto a separate, fully completed attachment but leave the FACILITY INFORMATION (item #7) blank and check "SYSTEM TOTAL" by item #8.

On all items #8 be sure to list a REQUESTED RATE for each period and indicate "SUB-TOTAL" or "SYSTEM TOTAL" where appropriate. IF A DRBC APPLICATION IS REQUIRED, ALL INFORMATION MUST AGREE BETWEEN BOTH APPLICATIONS.

A. FACILITY LOCAL ID - List the facility's name as it is called by the owner, e.g., #1, Well A, North Intake, Pond 1. All surface water intake pumps should be listed separately. All facilities used for emergency stand-by, i.e., fire fighting, should be listed.

B. FACILITY PERMIT NO. - List the well construction or surface intake permit number. Leave blank if unknown.

C. MAXIMUM PUMP CAPACITY - For each facility list the maximum capacity of the PUMP. The maximum capacity would be under wide-open discharge, unconnected to distribution lines. Otherwise, list the highest known capacity of the pump, well, or intake.

D. MAXIMUM USE - For each facility use the MAXIMUM PUMP CAPACITY (from C. above) to list the maximum volume intended to be pumped for one day.

8. REQUESTED RATES - A Water Allocation must be designed for daily, monthly, and yearly withdrawals based on DEMAND. For recovery projects and certain industrial withdrawals, the REQUESTED RATES could be based on continuous pumping at maximum capacity. For irrigation systems: the applicant should assume a growing season with little or no rainfall. Generally, the REQUESTED RATES will NOT be based on maximum capacity because for a given period the maximum capacity will typically far exceed the demand. However, REQUESTED Rates must have headroom for peak demand in all periods. Also allow for the necessary margin to meet projected increases in demand for at least the next five years. If the REQUESTED Rates are an increase over an existing allocation, attach a statement to document the need for the increase and give a proposed developmental schedule. Do Not include pumpage from any emergency stand-by facilities as part of the Requested Rates. List rates in million gallons (MG).

Each facility will be permitted to its maximum daily capacity, but not more than the daily allocation for the entire system. The system will be allocated for maximum daily, monthly, and yearly withdrawal rates, and maximum pumping water-levels will be established where necessary. Unless adverse affects have, or could result from these withdrawals, or unless the requests are not substantial, the REQUESTED RATES

will be granted in the water allocation permit. Please plan carefully.

9. Account for all acreage which presently can be irrigated, and all additional acreage which could or will be irrigated, e.g., planned extension of spray systems, new wells, etc. List the total acreage of all land at the project site, regardless of whether the lands are or could be irrigated.
10. Consumptive use is the amount of withdrawn water not returned to the surface or ground waters (e.g., water to non-local sewer systems, crop up-take, evaporations, etc.).
11. Identify all interconnections, transfer agreements, which can or could supply water to this system.
12. Identify and describe any other system(s) with which an interconnection is physically possible and detail all discussions to that effect which may have occurred among the concerned parties.
13. Wells listed within should have completion reports if they were installed after 1969. If the application does not have completion reports available, they may be available from the drilling contractor. Pumping test data must be submitted for each well if required by the well permit or by the Division of Water. Otherwise, give ALL known construction and pump information for each facility (e.g., depth, screened interval, diameter, pump capacity, etc.).
14. Chemical and bacteriological analyses are conducted for potable supplies by the Division of Public Health, Office of Drinking Water (302) 739-5410. These are the yearly Sanitary Survey, and the Quarterly and Monthly reports for routine analyses. Any analyses appropriate for the project should be submitted.
15. Describe all treatment the withdrawn water will receive prior to use. Examples are but not limited to, chlorination, iron removal, aeration, filtration, fertilizer and chemigation additives, etc.
16. Describe all treatment the wastewater will receive prior to discharge. Examples include the various physical and biological treatments and treatment stages for the waste stream. The latest available NPDES reports on chemical and bacteriological analyses must be included. Provide analyses as appropriate for wastewater spraying projects, groundwater recovery projects, etc. If applicable, name the regional treatment facility receiving the project's wastewater.
17. For irrigation facilities metering refers to elapsed-time indicators on engines and motors, as well as in-line flow meters. For all other facilities, metering refers only to approved, in-line flow meters, or flow-integrators where appropriate. Metering is required and, if meters are lacking a proposed schedule for installation must be submitted for review by the Division of Water.
18. If service connection metering is not 100%, the schedule for 100% metering should be described via a customer break-down, including any existing service metering and recent ordinances thereto. Provide the latest available population figure along with the best projected estimate.
19. Describe all existing conservation measures, and all feasible measures which are planned.
20. Describe all existing drought emergency plans, and all feasible plans, which could be implemented in the event of a declared drought.
21. **The owner or the appropriate official of the owner (as listed in item #1) must sign and date the application. All applications, except for agricultural irrigation, must be notarized.**