



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
MAIL CODE 401-04Q
DIVISION OF WATER SUPPLY & GEOSCIENCE
BUREAU OF WATER ALLOCATION & WELL PERMITTING
P.O. BOX 420
TRENTON, NEW JERSEY 08625-0420
(609) 984-6831



PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS APPLICATION FORM

Provide all requested information, as applicable

AGRICULTURAL WATER USAGE CERTIFICATION APPLICATION

Use this form for diversions greater than 70 gallons per minute and 3.1 million gallons or greater per month.

This application is for: (Please check one, as appropriate)

- Existing Diversion, not previously Certified* No.: _____
- New Diversion, not previously Certified* No.: _____
- Renewal of Existing Certification No.: _____ Expiration Date: _____
- Minor Modification of Existing Certification No.: _____ Expiration Date: _____
- Major Modification of Existing Certification No.: _____ * Expiration Date: _____

*Requires Public Notice. The BWA will send public notice to the appropriate newspaper and bill the applicant for the notice. The certification will not be issued until the bill has been paid.

| |
|---|
| List Reason(s) for Modification: _____ _____ _____ _____ _____ _____ |
|---|

TABLE OF CONTENTS FOR APPLICATION AGC-001

A. GENERAL INSTRUCTIONS AND GUIDELINES FOR COMPLETING AGC-001.....PAGE 3

B. LOCATION AND PROPERTY INFORMATION.....PAGE 8

C. CERTIFICATIONS.....PAGE 10

D. DIVERSION REQUEST AND DIVERSION SOURCE INFORMATION.....PAGE 11

E. MAPPING AND DIVERSION SOURCE LOCATION IDENTIFICATION REQUIREMENTS.....PAGE 13

F. IRRIGATION DESCRIPTION.....PAGE 13

G. OPERATIONAL CONSIDERATIONS.....PAGE 14

H. REQUIRED SUBMITTAL ATTACHMENTS.....PAGE 15

TABLE 1 – COUNTIES AND MUNICIPALITIES IN THE HIGHLANDS PLANNING OR PRESERVATION AREA.....PAGE 16

FIGURE 1 – HIGHLANDS PRESERVATION AND PLANNING AREAS (NORTH).....PAGE 17

FIGURE 2 – HIGHLANDS PRESERVATION AND PLANNING AREAS (SOUTH).....PAGE 18

A. GENERAL INSTRUCTIONS AND GUIDELINES FOR COMPLETING AGC-001

A. Cover Page:

Existing Diversion, not previously Certified – to be used for certifying either an existing operation that has, up to this point, not required water in sufficient quantities that a certification was required (i.e. former registration); or for someone who has been diverting over 3.1 million gallons of water per month (100,000 gallons per day or greater) but has not yet obtained their certification.

New diversion, not previously Certified – to be used for certifying a new farming operation; or an operation that is only now beginning to require the use of water over 3.1 million gallons of water per month.

Renewal of Existing Certification – to be used for renewing a certification without change.

Minor Modification of Existing Certification – to be used for minor changes such as: change of address or name; transfer of ownership or operation; replacement well; removing a source; request a reduction in allocation; or increase in pumping capacity for an off-stream pond that does not require an increase in allocation.

Major Modification of Existing Certification – to be used when a certification holder proposes to relocate a well or intake; add a new diversion source; increase pumping capacity and/or monthly and/or annual allocations; or change a certification condition. Please provide a written description of the proposed modifications.

List reasons for modification – proposed new source, increased pump capacity, increase in acres irrigated, etc.

This form includes seven sections, B through H. All sections of the form must be completed and all requested information provided or the application will be returned. Additional sheets may be attached if necessary. For additional information, please contact your local Rutgers Cooperative Extension County Agricultural Agent (find your local agent at www.njaes.rutgers.edu/county) or the Bureau of Water Allocation & Well Permitting at 609-984-6831.

B. Location and Property Information

1. Actual Diversion Location - Provide the name of the farm management unit of which the application is for and the physical street address or nearest cross streets of the diversion location. Attach additional sheets if more than one physical location applies.
2. Property/Land Owners – Provide the legal name and information for the owner of the property/land on which the diversion is located.
3. Applicant/Operating Entity(ies) – Provide the name and information, as it is legally referred to, of the operating entity of the subject farm management unit. The operating entity is the firm, public agency, individual, or other entity which has the primary management and decision making authority for the farm management unit.
 - a. The Application Contact is the individual responsible for all aspects/inquiries regarding the application.
 - b. Check the Authorized Representative box if an Authorized Representative has been designated in Section C3 of the Application.
 - c. The Report Form Recipient/Permit Contact is the designated individual responsible for completing Annual Water Use Report Forms. All Water Use Report Forms will be mailed to the designated individual at the Operating Entities address.
4. Responsible Entity/Organization – Provide specified information for the person, company, or corporation financially responsible for the activity relating to the diversion and that has overall legal responsibility over the activities occurring at the site, or the organization liable or accountable for overall farm management unit operations. The responsible entity may be the same as the Applicant/Operating Entity noted in Section B3. If so, check the appropriate box provided. If not, provide the requested information for the Responsible Entity. The landowner is ultimately responsible for the activities that occur on the landowner's land.
5. Billing Contact - Check the box of the appropriate address (either the Responsible Entity/Organization or the Applicant/Operating Entity) and indicate the individual contact for all billing inquiries. For new and modification

Agricultural Certification applications, the cost of publishing the public notice in the newspaper and all public hearing costs will be billed to this address.

6. Other Permits/Agencies –

- a. The NJDEP and Delaware River Basin Commission (DRBC) have entered into an Administrative Agreement for water diversion projects within the jurisdiction of the DRBC whereby the NJDEP and the county agricultural agent perform the review and issue the final decision without involvement of the DRBC. However, agricultural certification applications which include surface water diversions that are from “Shared Interstate Waters” or for which the DRBC Executive Director or a Signatory Party (another State in the Delaware River Compact) has determined may result in a significant adverse impact to water resources in the basin still must obtain a docket issued by the DRBC. In New Jersey, “Shared Interstate Waters” means the Delaware River Mainstem (tidal and non tidal), and the tidal portions of its tributaries.

DRBC applications for a docket can be obtained from and are to be sent to: DRBC, P.O. Box 7360, West Trenton, NJ 08628-0360. Evidence must be provided to the Department that such application has been made if a proposed diversion is from “Shared Interstate Waters”.

- b. For new or modified applications (where an increase in allocation is requested), identify if any of the diversion sources or the farm management unit are located in the Highlands Preservation or Planning Area (see attached Table 1, pg. 16 and Figures 1 and 2, pgs. 17-18). The Department’s i-MapNJ tool (see Section E, pg. 5) can be utilized to determine if a farm management unit is in the Highlands Preservation or Planning Area. If the farm management unit is located in the Highlands Preservation Area, the Highlands Act requires the development and implementation of a **Farm Conservation Plan** if any agricultural or horticultural development has resulted in an increase of new agricultural impervious cover (as defined by N.J.A.C. 2:92) of **at least 3% but less than 9%** of the total land area of the farm management unit since August 10, 2004. The Highlands Act also requires the development and implementation of a **Resource Management System Plan** if any agricultural or horticultural development has resulted in an increase of new agricultural impervious surface (as defined by N.J.A.C. 2:92) of **9% or greater** of the total land area of the farm management unit since August 10, 2004. If the applicant was required to develop either of these Plans, submit a copy of the Plan with the water usage certification application, as the Department is prohibited from issuing permits/certifications for projects that are inconsistent with the Highlands regulations. If you require assistance, contact the NJ Department of Agriculture, Division of Agricultural & Natural Resources or your local Natural Resources Conservation Service office (<http://www.nj.nrcs.usda.gov/contact/NJcountylisting.html>).

C. Certifications – Provide Certifications as indicated in Section C.

1. Applicant’s Certification: the applicant’s signature advises the County Agricultural Agent and the Department that the applicant has considered the provisions of the law and has provided true and accurate information to the best of their knowledge.
2. County Agricultural Agent’s Certification: the agent’s signature advises the applicant and the Department that the quantity of water identified under D.2. is reasonably required to meet the applicant’s water needs.
3. Applicant’s Authorized Representative’s Certification: this is to be used only in instances where the applicant/owner or applicant/operator is designating someone else to handle the matters relating to the application and the diversion on their farm. If the landowner is not the grower/applicant, this must be completed. A notary public is required for authorization.

D. Diversion Request and Diversion Source Information – Identifies the quantity of water involved, the type of use the diversion is used for, and the diversion sources.

1. For existing certifications, identify existing approved allocation from all diversion sources.
2. Identify the allocation requested from all diversion sources. The requested allocation is to be calculated with the help of the County Agricultural Agent (million gallons per year (MGY) is expressed in a calendar year). This must be based upon expected demands during the next 5 years, not the available pump capacity.

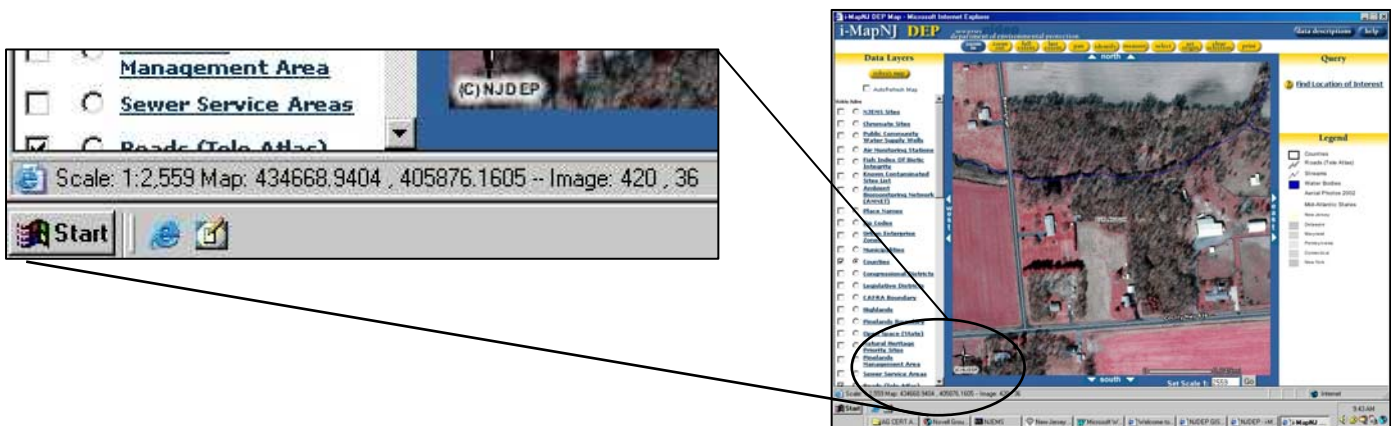
3. Identify in general terms, what the diversion is to be used for, e.g., irrigation of vegetables, irrigation of sod, aquaculture, horticulture, etc.
 4. Applications must reference valid State Well Permit Numbers and wells must be permitted for their intended use. **Applications without valid State Well Permit Numbers for existing wells will be returned.** Wells that do not have an existing well permit number must obtain one. Wells installed prior to 1947 would not have had a well permit number assigned originally. To obtain a well permit number for a proposed or existing well, contact a licensed well driller. Well drillers can be found in the local phone book, and be sure to ask to see their license.
 5. Identify the various diversion sources that could be used to provide water. The Well Local Name or Intake Local Name is the applicant's labeling system to identify the various diversion sources (i.e., Well 1 or Simpson Pond). Each pumping location on a particular stream or pond is considered a separate source. In addition, if a mobile pump is utilized at more than one location, each location is considered a separate diversion source. Drainage area is the total surface area, upstream of a point on a stream, where the water from rain or snowmelt which is not absorbed into the ground flows over the ground surface, back into streams, to finally reach that point. Note that the drainage area for surface water sources can be obtained by contacting the United States Geological Survey (USGS) at (609) 771-3900 with the latitude and longitude, NJ State plane coordinates of the intake, or a known landmark that would be on the USGS quad sheet, such as a bridge.
 6. Item d., Retention Ponds, refers to ponds that were installed to contain and/or recycle on-site runoff. In Section D.5, it is important to identify if any ponds are supplemented by use of a well(s) or a stream so that water is not double counted. A supplemental source is a source that is used to fill a freestanding pond via pumping and transporting, and an on-stream pond is a pond that has a stream running directly through or exiting from it.
- E. Mapping and Diversion Source Location Identification Requirements – Attach a map or aerial photograph which has been produced from the Department's internet mapping tool (i-MapNJ) (available on the Department's website at www.nj.gov/dep/gis) or comparable mapping tool that can determine coordinates. The diversion source locations must also be provided and may be determined by i-MapNJ, Global Positioning System (GPS), a New Jersey licensed surveyor, or other method meeting the Department's standards at N.J.A.C. 7:1D.

Example

| Source | X – NJ State Plane (US Feet) | Y – NJ State Plane (US Feet) |
|--------|---------------------------------|---------------------------------|
| Well 1 | 434668.9404 | 405876.1605 |



Note: The x, y coordinates are shown in i-MapNJ on the lower left hand of screen



- F. Irrigation Description– Identify the irrigation equipment and practices, acreage involved, characteristics used to determine potential water demand, a description of the method used to measure the amounts of water diverted, and how water use quantities are determined.
1. Identify the irrigation system (equipment and piping) and water use practices. The irrigation system(s) should be described in sufficient detail so that the farmer with the assistance of the County Agricultural Agent can determine the hourly capacity of the system(s).
 2. Identify the method(s) that are used to track and tabulate water use from the individual sources on a monthly basis (i.e. daily start and stop times written in log book and/or entered into computer data base, hour meter readings taken at beginning and end of the month, or totalizing flow meter readings taken at the beginning and end of the month). Cranberry growing operations must supply the method used to measure water usage to ensure the same volume of water is not counted multiple times if it is transferred within the bog system of the cranberry growing operation.
 3. Farming Activity
 - a. Identify crop and soil types and the areas in acreage currently under cultivation.
 - b. Identify crop and soil types and the areas in acreage to be cultivated during the next five years (effective period of the certification).
 - c. Include a map showing the area currently under cultivation and a map showing the area planned to be cultivated during the next 5 years (effective period of the certification). This information can be submitted on one map along with the diversion source locations.

Section F.3b may be completed in lieu of an Agricultural Development Plan. However, if another plan has already been completed and that plan is submitted with the application, Section F.3b may be left blank. A Water Management Plan developed in cooperation with the US Department of Agriculture, Natural Resources Conservation Service or other similar plan will be accepted.

- G. Operational Considerations – Section G identifies the requirements of the Water Supply Management Act, which must be considered in order to obtain diversion privileges. This section must be completed by the applicant. The questions should be answered based upon the expected operation of the applicant’s diversion sources under normal operating conditions. Pursuant to N.J.A.C. 7:20A-2.6(a)13, certification holders are responsible for adverse impacts caused by their diversions. The Department reserves the right to modify or revoke a certification to remedy an unforeseen impact on the diversion privileges of an existing permit or certification holder.
1. Pursuant to N.J.A.C. 7:20A-1.2(c), diversions used for agricultural, aquacultural, or horticultural purposes are considered to be in the public interest. However, the activity must be done in such a manner as to not constitute a risk to the public health or safety. A risk would be considered drying up nearby wells, streams or ponds, or an improper construction of any diversion related structures or facilities.
 2. It is important to know if the applicant’s water use will have any impact on the water use of other individuals. A new diversion may lower an existing water level; as long as it does not preclude another user from obtaining their required amounts of water it is not considered undue interference.
 3. Water levels fluctuate naturally, and also decline in response to the pumping of diversion sources. It is not uncommon to see water levels decline during the dry months of the irrigation season. However, these water levels should recover and return to normal levels before the next growing season. If they do not, water levels and diversions must be assessed to determine if a problem is developing.
 4. Excessive pumping of diversion sources during dry periods can cause a reduction of flow in a stream or river. Reduction of the flow to a point that causes unsanitary conditions downstream or caused the stream to dry up, could be considered an injury to public or private interests and must be avoided.

Pursuant to N.J.A.C. 7:20A-2.6(a)12, the Department may impose a minimum passing flow on all water usage certifications that have the potential to impact surface water bodies.

5. Excessive pumping of diversion sources can reduce the water levels in area ponds, lakes and streams which in turn could affect the viability of those areas. Activities, which adversely impact these waters, must be avoided.
6. Heavy pumping of wells can lower the natural ground water levels to an extent that the areas from which they are drawing in water includes:
 - a. areas which contain sources of saltwater (i.e. ocean, bays and saltwater portions of rivers and streams); and/or
 - b. potential sources of pollution such as leaky underground storage tanks, landfills, and dumps; and/or
 - c. areas where known pollution is being cleaned up.

Public supply wells, surface water bodies, wetlands, known contaminated sites, and groundwater contamination plumes, can be identified on i-MapNJ (see Section E. above). Zooming in to a scale that shows aerial photography allows nearby homes (which could have wells) to be identified.

It is important that an existing or proposed diversion does not create a water level reduction of such magnitude that it intersects either a saltwater source or source(s) of pollution, or interferes with an on going pollution cleanup. In any of these instances this could result in the eventual loss of the aquifer as a source of water.

7. The lowest quality of water should be utilized for the irrigation of crops that are not for human/animal consumption. The Department considers groundwater to be the highest quality water. The lowest quality water is considered to be reuse of captured stormwater and the use of reclaimed water where feasible.
8. Impervious surface is defined as any structure or surface that prevents the infiltration of precipitation into the land (i.e. asphalt or concrete roadways, buildings, greenhouses, plastic cover – that remain in place for more than 6 months per calendar year). This helps the Department determine the potential for capturing stormwater for reuse. Please provide impervious surface in square footage.
9. Water conservation methods can be identified as tools or watering practices that utilize less water. For instance, the use of rain sensors would prevent an irrigation system from being automatically started during periods of rain. In addition, drip irrigation is a type of irrigation that applies water slowly and directly to the roots of the plant, thereby using less water than more conventional forms of irrigation like overhead irrigation.

H. Required Submittal Attachments

1. The completed cover page and sections B, C, D, E, F, G, and H must be submitted or the application is not considered complete and may be returned.
2. A map(s) showing diversion source locations, property boundary, and area cultivated must be submitted, see Section E and F.3.c. for mapping requirements.
3. County Agricultural Agent calculations certifying the amount of water required, as indicated under Section C.2, must be included. Pursuant to N.J.A.C. 7:20A-2.4(d), the County Agricultural Agent will calculate a water allocation adequate to meet the applicant's water use requirements. The amount of water requested must be limited to the type of crops under cultivation, and the area in acres of the farm management unit actually under cultivation. For uncultivated acreage or where there is a formal written agricultural development plan or an alternate plan, the amount of water requested must be based on future use or expansion into non-cultivated areas during the next 5 years (effective term of the water use certification).
4. FOR EXISTING CERTIFICATIONS ONLY: A copy of the water use log or other record of the daily and/or monthly hours of operation for each diversion source for the last month the irrigation system was used, and/or quantity of water diverted monthly from each diversion source for the same period diverted, must be included. If a totalizing flow meter is utilized, a copy of month end flow meter readings for each metered diversion source must be included.
5. Submit a copy of the letter of transmittal for the DRBC application, if applicable (see Section B.6.a.)

- 6. Submit a copy of the Highlands Farm Conservation Plan, if applicable (see Section B.6.b.)
- 7. Submit a copy of the Highlands Resource Management Plan, if applicable (see Section B.6.b.)

B. LOCATION AND PROPERTY INFORMATION

The Department is now maintaining a single database of regulated sites. The following information will prevent unnecessary duplication of data.

1. ACTUAL DIVERSION LOCATION

Name of farm management unit application is for (for farm management units pending or under construction, please use the proposed name)

Street Address/Location (or nearest cross streets if no address is available or if address is a P.O. Box)

City or Town _____ Zip Code _____ + _____

Municipality _____ County _____

Does the farm management unit span multiple municipalities? Yes No or counties? Yes No

| | | | |
|----------------------------|-----|----------------------------|-----|
| Site Municipality 1: _____ | | Site Municipality 2: _____ | |
| Block | Lot | Block | Lot |
| | | | |
| | | | |
| | | | |
| | | | |

(attach additional sheets if necessary)

2. PROPERTY/LAND OWNERS(S) INFORMATION

Name _____ Telephone () _____

Mailing Address _____

City or Town _____ State _____ Zip Code _____ + _____

Organization Type: Partnership Authority/District/Commission Other _____
 (Check one) Individually Owned Commercial/Industry

3. APPLICANT/OPERATING ENTITY(IES)

Name _____ Telephone () _____

Mailing Address _____

City or Town _____ State _____ Zip Code _____ + _____

Fax () _____ E-Mail _____

CONTACT INFORMATION

a. Application Contact (contact at the above address for all application matters):

If someone other than the landowner will be the applicant, they must be authorized under Section C.3 of the application to act as the authorized representative in all matters pertaining to the application. If so please check here:

b. If an Authorized Representative has not been designated, provide an Application Contact:

Name _____ Telephone () _____

c. Report Form Recipient/Certification Contact (contact at the above address for water use reports and information):

Name _____ Telephone () _____

4. RESPONSIBLE ENTITY/ORGANIZATION

If the responsible entity/organization is the Applicant located in No. 3 above, check here:

If the responsible entity/organization is different from the Applicant in No. 3 above, complete the following:

Organization Name _____ Telephone () _____

Mailing Address _____

City or Town _____ State _____ Zip Code _____ + _____

Fax () _____ E-Mail _____

Organization Type: Authority/District/Commission Partnership Other _____
(Check one) Commercial/Industry Individually Owned
 Lessee Renter

Note: Lessee and Renter must be designated as the Authorized Representative in Section C.3

5. BILLING CONTACT

Billing for public notice and public hearing costs (if applicable) should go to mailing address of:

Applicant/Operating Entities address in No. 3 Responsible Entity/Organization address in No. 4

6. OTHER PERMITS/AGENCIES

a. Does the application include a surface water source in the Shared Interstate Waters of the Delaware River?
___Yes ___No ___ Unknown (If no, proceed to section B.6.b)

If yes and approved by the Delaware River Basin Commission (DRBC) please list your Docket No.: _____.

If yes and you do not have a Docket No., please submit a copy of this application to the DRBC and provide a copy of the application cover letter to the DRBC (proof of filing) with this application. (see pg. 4 of General Instructions)

Unknown, your application will be screened by NJDEP. You will be notified if you need to file an application with DRBC.

- b. Is one or more diversion source located in the Highlands Preservation or Planning Area and is this a new or modified application with an increased allocation request? ___Yes ___No (If no, proceed to section C.1) (See Table 1 and Figures 1 and 2 attached for towns located in the Highlands Preservation and Planning Areas)

If yes a copy of the following must be provided:

- 1) If any agricultural or horticultural development in the Highlands Preservation Area resulted in an increase in new agricultural impervious surface (as defined by N.J.A.C. 2:92) of **at least 3% but less than 9%** of the total land area of the farm management unit since August 10, 2004, a copy of **an approved farm conservation plan**, shall be submitted.
- 2) If any agricultural or horticultural development in the Highlands Preservation Area resulted in an increase in new agricultural impervious surface (as defined by N.J.A.C. 2:92) of **9% or greater** of the total land area of the farm management unit since August 10, 2004, a copy of **an approved resource management system plan**, shall be submitted.

C. CERTIFICATIONS

1. APPLICANT'S CERTIFICATION

To the best of my knowledge, the information submitted in this application is true, accurate and complete. I am aware that there are significant civil and criminal penalties for submitting false, inaccurate or incomplete information, including the possibility of fines and/or loss of the privileges granted under the water usage certification.

_____ Date

_____ Applicant Signature

_____ Applicant Name (please print)

2. COUNTY AGRICULTURAL AGENT'S CERTIFICATION [PURSUANT TO N.J.A.C. 7:20A-2.3(i)]

Based upon the information presented in this application, I am certifying that the quantity of water identified under D.2 is reasonably required to meet agricultural, aquacultural, or horticultural water needs of the applicant. Calculations are attached.

_____ Date

_____ County Agricultural Agent's Signature

Copy of calculations attached

_____ County Agricultural Agent's Name (please print)

3. APPLICANT'S AUTHORIZED REPRESENTATIVE (IF APPLICABLE)

I, the Applicant/Owner _____ or Applicant/Operator (when the owner of the farm management unit and the operator of the farm management unit are distinct parties) authorize to act as my designated representative in all matters pertaining to my application the following person:

Name _____ Phone _____

Address _____ County _____

City or Town _____ State _____ Zip Code _____

Occupation/Profession _____

(Signature of Applicant/Owner)

(Signature of Applicant/Owner)

AUTHORIZED REPRESENTATIVE'S CERTIFICATION

Sworn before me this _____ day of _____ 20 _____

I agree to serve as Authorized Representative for the above mentioned applicant

Notary Public

(Signature of Authorized Representative)

D. DIVERSION REQUEST AND DIVERSION SOURCE INFORMATION

- 1. Present certified water use:
 - a. All sources: _____ million gallons per month (MGM) at a maximum rate of _____ gallons per minute (gpm).
 - b. All sources: _____ million gallons per year (MGY).
- 2. Proposed water use:
 - a. All sources: _____ MGM at a maximum rate of _____ gpm.
 - b. All sources: _____ MGY.

Note: Monthly allocations are established based upon the maximum withdrawal expected during any one month (31 days) and the annual allocations are established based on withdrawal expected during the calendar year.

- 3. Diversion to be used for _____.
- 4. Complete the following for each existing and proposed source:

a. Groundwater (wells):

| Well Local Name | State Well Permit No. (mandatory) | Existing (E) or Proposed (P) | Date Drilled | Depth (feet) | Diameter (inches) | Pump Capacity (gpm) |
|-----------------|-----------------------------------|------------------------------|--------------|--------------|-------------------|---------------------|
| | | | | | | |
| | | | | | | |
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b. Streams/River Pumping Location(s)

| Intake Local Name | Source Intake SI ID (if already certified) | Existing (E) or Proposed (P) | Stream Name | Drainage Area (at intake) * | Pump Capacity (gpm) |
|-------------------|--|------------------------------|-------------|-----------------------------|---------------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

*For more information contact USGS at (609) 771-3900 (have latitude and longitude of the intake when you call)

c. Pond Pumping Location(s)

| Intake Local Name | Source Intake SI ID (if already certified) | Existing (E) or Proposed (P) | Average Depth (feet) | Surface Area (Acres) | Source of Water | Pump Capacity (gpm) |
|-------------------|--|------------------------------|----------------------|----------------------|-----------------|---------------------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

d. Retention Ponds (RP):

| Intake Local Name | Source Intake SI ID (if already certified) | Existing (E) or Proposed (P) | Size (in gallons) | Source of Water | Pump Capacity (gpm) |
|-------------------|--|------------------------------|-------------------|-----------------|---------------------|
| | | | | | |
| | | | | | |

5. Do any of the above wells or streams supplement the water supply in any of the ponds? Yes No
 If yes, please indicate the source and the amount:

| Well or Stream Name (from 4a or 4b above) | Supplement Which Pond? (from 4c or 4d above) | Supplemental Source(s) Amount (mgm) |
|---|--|-------------------------------------|
| | | |
| | | |
| | | |

6. Are any of the ponds located on-stream? Yes No

If yes, please identify which pond and the stream: _____

E. MAPPING AND DIVERSION SOURCE LOCATION IDENTIFICATION REQUIREMENTS

Attach a map or aerial photograph which has been produced from the Department’s internet mapping tool (i-MapNJ or comparable mapping tool) (I-MapNJ available on the Department’s website at www.nj.gov/dep/gis). Attach multiple maps if necessary.

The map must be produced at a scale whereby streets and key features are clearly visible and must depict the following:

1. The location of each existing and proposed diversion source identified (well, stream, pond, RP).
2. A depiction of the property boundary.

The diversion source coordinates must also be determined by Global Positioning System (GPS), a New Jersey licensed surveyor, or other method meeting the Department’s standards at N.J.A.C. 7:1D (for example, i-MapNJ).

List the New Jersey State plane coordinates for each diversion source:

| Source | X – NJ State Plane (US Feet) | Y – NJ State Plane (US Feet) |
|--------|------------------------------|------------------------------|
| | | |
| | | |
| | | |
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F. IRRIGATION DESCRIPTION

1. Provide a description of the irrigation or water use practices and the irrigation equipment (type, capacity of nozzles in gpm, maximum number of nozzles operating at one time, average and maximum irrigation time in hours per day, how the ponds are fed, etc.)

2. Provide a description of the method used to measure the amounts of water diverted from each source (for cranberry operations make sure that method does not result in the multiple counting of water being used):

3. Farming Activity:

- a. Current crops under cultivation:

| Total Acres | Acres Farmed | Predominate Soil Type/Texture | Crop Type | Acreage Planted | Acreage Irrigated |
|-------------|--------------|-------------------------------|-----------|-----------------|-------------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

- b. Future plans for crops to be cultivated during the next five years:

If same as above please check here:

| Total Acres | Acres Farmed | Predominate Soil Type/Texture | Crop Type | Acreage Planted | Acreage Irrigated |
|-------------|--------------|-------------------------------|-----------|-----------------|-------------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

- c. Map of current and future activities:

Mapping which clearly identifies the area currently under cultivation/irrigation and also shows the area planned to be cultivated/irrigated during the next five years must be included.

G. OPERATIONAL CONSIDERATIONS

Answer all of the following statements to the best of your ability (yes or no answers are acceptable for some responses):

| | |
|----|--|
| 1. | Has or will the plans proposed pursuant to this certification application provide for the proper and safe construction of related diversion sources and structures? _____ |
| 2. | Has or will the diversion of the quantity of water requested interfere with other existing water users in your area (i.e. other farm diversions, public supply wells, domestic wells, etc.)? _____ |
| 3. | Has or will the diversion continue to reduce the amount of water available from the source? _____ |

| | |
|-----|--|
| 4. | Has or will the diversion visibly reduce the flow of a river or stream? _____ |
| 5a. | Will the diversion visibly reduce the level of a lake or pond? _____ |
| 5b. | Has or will the diversion dry up portions of a nearby stream, lake, pond, etc.? _____ |
| 6. | <p><i>Do you have any ground water (i.e. well) diversion?</i> Yes <input type="checkbox"/> No <input type="checkbox"/> (if no, proceed to question 9 below)</p> <p>In the case of a groundwater diversion, answer questions a.–b below:</p> <p>a. Is there a body of salt water within ½ mile of your diversion source(s)? _____</p> <p>i. If yes, what is the approximate distance from your nearest diversion sources? _____</p> <p>ii. Has or will the diversion cause an increase in saltwater intrusion? _____</p> <p>b. Is there groundwater contamination within ½ mile of your diversion source(s?) Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown</p> <p>i. If yes, what is the approximate distance from your diversion sources? _____</p> <p>ii. Has or will the diversion spread groundwater contamination? _____</p> <p>iii. Has or will the diversion interfere with any groundwater remediation plan or activity? _____</p> |
| 7. | Is the water the lowest quality for the intended use? _____ |
| 8. | How much of your farm management unit is agricultural impervious surface? _____ square feet |
| 9. | List water conservation methods used to minimize water use (i.e. utilize storm water runoff, drip irrigation, etc.) _____ |

H. REQUIRED SUBMITTAL ATTACHMENTS

Check here to ensure the following attachments are included with the application:

| | |
|--|---|
| For all applications: | |
| <input type="checkbox"/> | 1. Completed Cover Page and Sections B, C, D, E, F, and G |
| <input type="checkbox"/> | 2. Attach a map or aerial photograph produced from the Department’s internet mapping tool (i-MapNJ or comparable mapping tool) (i-MapNJ available on the Department’s website at www.nj.gov/dep/gis). Attach multiple maps if necessary. (see Sections E. & F., Mapping and Diversion Location Identification Requirements and Irrigation Description) |
| <input type="checkbox"/> | 3. County Agricultural Agent Calculations limited to the type of crop and area under cultivation or planned to be cultivated and irrigated within the next 5 years (as required under Section C.2) |
| For existing Certifications and Registrations: | |
| <input type="checkbox"/> | 4. A copy of the diversion log for last month irrigated for calculated diversions, or the month-end flow readings for metered diversions. <i>If not submitted, please indicate why:</i> _____ |
| For applications with a surface diversion from the Shared Interstate waters of the Delaware River without a DRBC Docket Number: | |
| <input type="checkbox"/> | 5. Copy of letter of transmittal for DRBC application |
| For new or modified applications within the Highlands Preservation Area: | |
| <input type="checkbox"/> | 6. Areas with 3 to less than 9% Ag impervious cover must include a copy of the Highlands Farm Conservation Plan |
| <input type="checkbox"/> | 7. Areas with 9% or greater Ag impervious cover must include a copy of the Highlands Resource Management Plan |

TABLE 1

**COUNTIES AND MUNICIPALITIES LOCATED IN THE HIGHLANDS PLANNING OR
PRESERVATION AREA**

BERGEN

MAHWAH TWP Partially
OAKLAND BORO Partially

HUNTERDON

ALEXANDRIA TWP Partially
BETHLEHEM TWP Partially
BLOOMSBURY BORO Wholly
CALIFON BORO Wholly
CLINTON TOWN Partially
CLINTON TWP Partially
GLEN GARDNER BORO Wholly
HAMPTON BORO Partially
HIGH BRIDGE BORO Not
HOLLAND TWP Partially
LEBANON BORO Not
LEBANON TWP Partially
MILFORD BORO Not
TEWKSBURY TWP Partially
UNION TWP Partially

MORRIS

BOONTON TOWN Not
BOONTON TWP Partially
BUTLER BORO Not
CHESTER BORO Not
CHESTER TWP Partially
DENVERVILLE TWP Partially
DOVER TOWN Not
HANOVER TWP Not
HARDING TWP Not
JEFFERSON TWP Partially
KINNELON BORO Partially
MENDHAM BORO Not
MENDHAM TWP Not
MINE HILL TWP Not
MONTVILLE TWP Partially
MORRIS PLAINS BORO Not
MORRIS TWP Not
MORRISTOWN TOWN Not
MOUNT ARLINGTON BORO Partially
MOUNT OLIVE TWP Partially
MOUNTAIN LAKES BORO Not
NETCONG BORO Not
PARSIPPANY-TROY HILLS TWP Not
PEQUANNOCK TWP Partially
RANDOLPH TWP Partially
RIVERDALE BORO Not
ROCKAWAY BORO Not
ROCKAWAY TWP Partially
ROXBURY TWP Partially
VICTORY GARDENS BORO Not

WASHINGTON TWP Partially
WHARTON BORO Not

PASSAIC

BLOOMINGDALE BORO Partially
POMPTON LAKES BORO Not
RINGWOOD BORO Wholly
WANAQUE BORO Partially
WEST MILFORD TWP Wholly

SOMERSET

BEDMINSTER TWP Partially
BERNARDS TWP Not
BERNARDSVILLE BORO Not
FAR HILLS BORO Not
PEAPACK GLADSTONE BORO Not

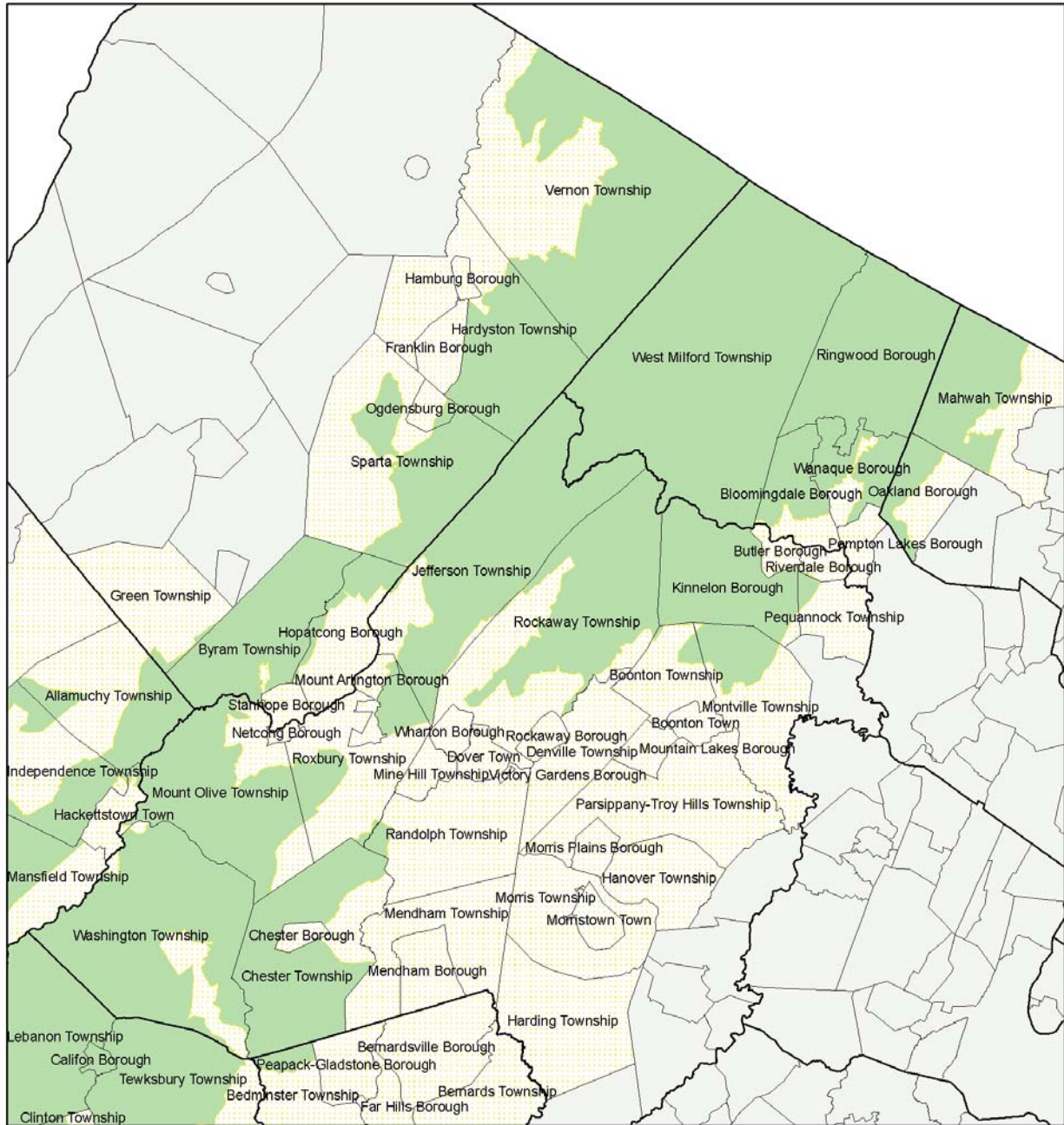
SUSSEX

BYRAM TWP Partially
FRANKLIN BORO Not
GREEN TWP Partially
HAMBURG BORO Not
HARDYSTON TWP Partially
HOPATCONG BORO Partially
OGDENSBURG BORO Partially
SPARTA TWP Partially
STANHOPE BORO Not
VERNON TWP Partially

WARREN

ALLAMUCHY TWP Partially
ALPHA BORO Not
BELVIDERE TOWN Not
FRANKLIN TWP Partially
FRELINGHUYSEN TWP Not
GREENWICH TWP Partially
HACKETTSTOWN TOWN Partially
HARMONY TWP Partially
HOPE TWP Not
INDEPENDENCE TWP Partially
LIBERTY TWP Partially
LOPATCONG TWP Partially
MANSFIELD TWP Partially
OXFORD TWP Partially
PHILLIPSBURG TOWN Not
POHATCONG TWP Partially
WASHINGTON BORO Not
WASHINGTON TWP Partially
WHITE TWP Partially

FIGURE 1: HIGHLAND PRESERVATION AND PLANNING AREAS (NORTH)



Highlands Area North

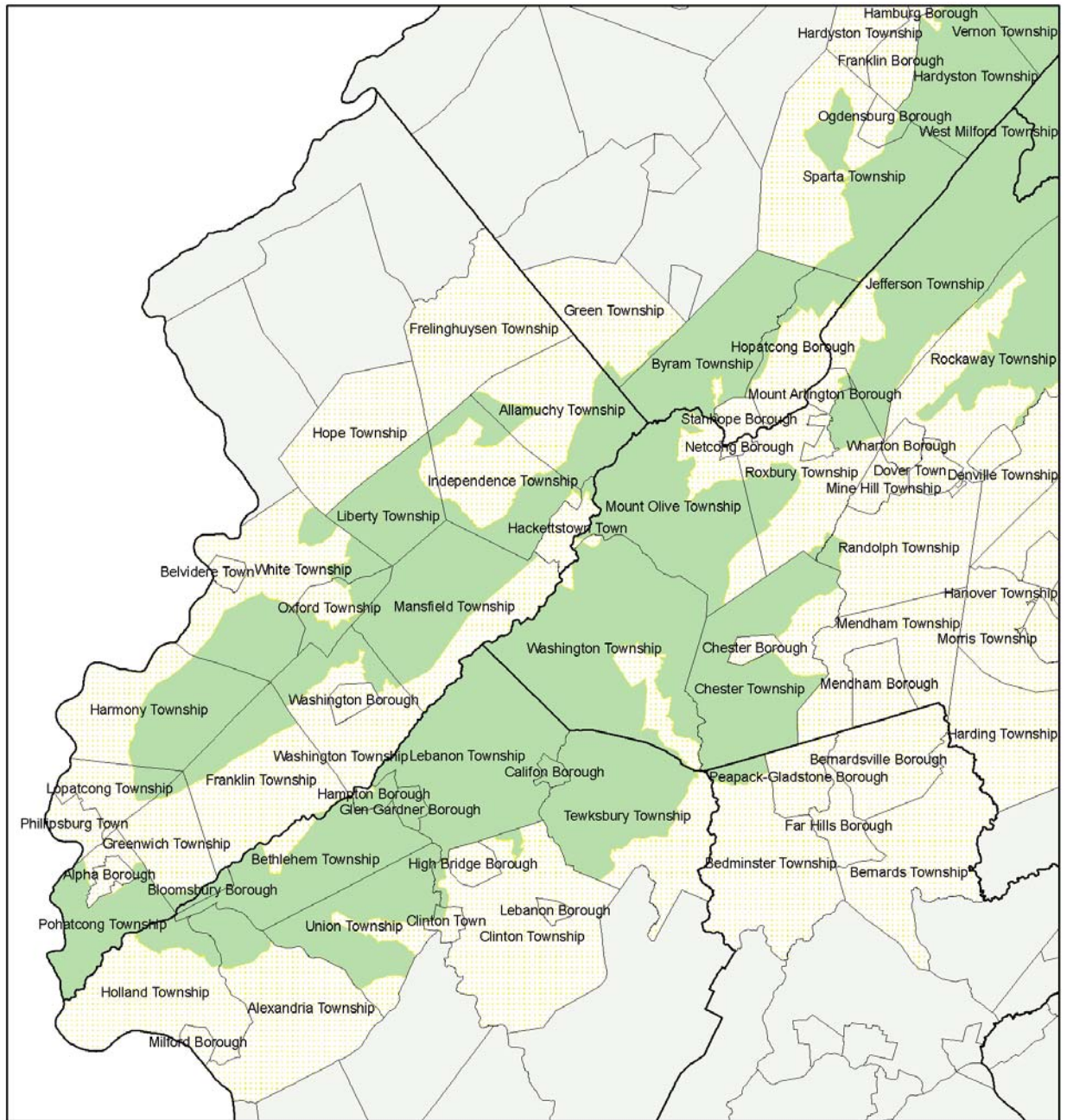
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Legend

- Counties
- Municipalities
- Highlands Planning Area
- Highlands Preservation Area
- Highlands munic-North

FIGURE 2: HIGHLANDS PRESERVATION AND PLANNING AREAS (SOUTH)



Highlands Area South

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Legend

- Counties
- Municipalities
- Highlands Planning Area
- Highlands Preservation Area
- Highlands munic-North