

JOINT PERMIT APPLICATION

PART IV - DEQ VIRGINIA WATER PROTECTION INDIVIDUAL PERMIT ADDENDUM

When applying for coverage under a DEQ Virginia Water Protection (VWP) individual permit, complete and attach the information listed on Pages 1 through 3 below, as applicable. Applicants proposing water withdrawal activities, associated structures, or FERC hydropower licensing/relicensing should also complete the questions on Pages 4 through 6 below.

8-digit Hydrologic Unit Code (HUC) for project: _____
(Refer to web site <http://www.epa.gov/surf/> to determine your HUC. HUC may also be referred to as USGS Cataloging Unit.)

Latitude/Longitude at center of project: ___ - ___ - ___ / ___ - ___ - ___

For stream impacts, note 'Stream Classification':

- | | |
|---|---|
| <input type="checkbox"/> Class I - Open Ocean | <input type="checkbox"/> Class V - Stockable Trout Waters |
| <input type="checkbox"/> Class II - Estuarine Waters | <input type="checkbox"/> Class VI - Natural Trout Waters |
| <input type="checkbox"/> Class III - Nontidal Waters | <input type="checkbox"/> Class VII - Wetlands |
| <input type="checkbox"/> Class IV - Mountainous Zone Waters | |

Expand on Question Number 7 in Part I by providing the following additional information:

- **Description of the physical alteration to surface waters**
- **Approximate time it will take to complete the project after all required permits have been issued**

Impacts: Report each impact on a separate line.

IMPACT SITE NUMBER (1,2, etc.)	WETLAND/STREAM IMPACT DESCRIPTION *	WETLAND IMPACT AREA (sq ft)	TYPE OF WETLAND (use Cowardin classification: PEM, PSS, etc.)	STREAM DIMENSIONS AT IMPACT SITE (length and width, linear feet)

* use all that apply: T = Tidal; NT = Nontidal; V = Vegetated; NV = Nonvegetated; TE = Temporary; PE = Permanent; PR = Perennial; IN = Intermittent

Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

Applicant Name and Title

Applicant Signature

Date

Authorized Agent Name and Title (if applicable)

Authorized Agent Signature

Date

Functional values assessments (wetlands only):

For all projects impacting one acre or more of wetlands, a functional values assessment is required. We suggest that a functional assessment method be selected based upon its ease of use, ability to provide quality information, and utility in the field. The functional assessment and the methodology utilized to determine functional value(s) must be submitted with the application package.

Wetland delineation:

A delineation map must be provided of the geographic area of a delineated wetland for all wetlands on the site, in accordance with 9 VAC 25-210-45. Wetlands data sheets and the latitude and longitude (to the nearest second) of the center of the wetland impact area must also be provided. Wetland types shall be noted according to their Cowardin classification or similar terminology. A copy of the USACE delineation confirmation, or other correspondence from the USACE indicating their approval of the wetland boundary, shall also be provided at the time of application, or if not available at that time, as soon as it becomes available during the VWP permit review. The delineation map should also include the location of all impacted and non-impacted streams, open water and other surface waters on the site. The approximate limits of any Chesapeake Bay Resource Protection Areas (RPAs) shall be shown on the map if the project is located within an RPA, as additional state or local requirements may apply.

T & E Species/Special Aquatic Sites:

The applicant shall provide any available information regarding threatened or endangered species and special aquatic sites located on the proposed project site. Pursuant to the Code of Virginia 29.1-564: "Taking, transportation, sale, etc., of endangered species is prohibited. The taking, transportation, processing, sale or offer for sale within the Commonwealth of any fish or wildlife appearing on any list of threatened or endangered species published by the U.S. Secretary of the Interior pursuant to the provisions of the federal Endangered Species Act of 1973 (P.L. 93-205), or any modifications or amendments thereto, is prohibited except as provided in 29.1-568."

Mitigation Plan:

The Virginia Water Protection Permit Regulation (9 VAC 25-210-90.C.) requires that the permittee take all reasonable steps to avoid all adverse environmental impacts to State waters.

The mitigation plan will include at a minimum:

- Measures taken to avoid impacts to surface waters to the maximum extent practicable;
- Where impacts could not be avoided, measures taken to reduce impacts to surface waters to the maximum extent practicable;
- Where impacts could not be avoided or minimized, a mitigation plan which completely describes the type of impact to be mitigated and the means by which mitigation will be accomplished.
- Mitigation goals in terms of functions and values (acres of wetlands, vegetation type, etc.);

- Description of buffer areas included in the plan, description of any structures and/or features necessary for site success, and details of the schedule for compensatory mitigation site construction;

In order for DEQ to deem your application as complete, a conceptual compensatory mitigation plan is required at the time of application. A final compensatory mitigation plan will be required prior to waters impacts occurring on your project site. The conceptual compensatory mitigation plan, which may include wetland creation and/or stream restoration activities, shall provide the following information:

For Wetland creation:

- The mitigation goals in terms of functions and values, as noted above
- Location map - topographic map, including latitude and longitude at the center of each mitigation site;
- A hydrologic analysis, including a draft water budget based on expected monthly inputs and outputs which will project water level elevations for a typical year, a dry year and a wet year;
- Groundwater elevation data, if available, or the proposed location of groundwater monitoring wells to collect these data;
- Wetland delineation confirmation and data sheets and maps for existing wetland areas on the proposed site(s);
- Conceptual grading plan, showing existing and proposed grade;
- Plant species list and planting scheme, including expected zonation and acreage of each vegetation type proposed;
- Soil preparation and amendments addressing both topsoil and subsoil conditions;
- A draft design of any water control structures

For Stream Restoration:

- Restoration goals in terms of water quality benefits;
- Location map – plan view and cross sectional drawings that depict stream sections to be restored and includes the latitude and longitude at the center of each restoration site;
- Proposed stream segment restoration locations, including plan view and cross-section sketches;
- Stream deficiencies that need to be addressed;
- Proposed restoration activities (i.e., riparian plantings, bank stabilization, etc.) for each section, including proposed design flows and types of in-stream structures;
- Proposed construction schedule.

If no mitigation is planned, a brief statement to this effect and a detailed explanation as to the reason no replacement mitigation is planned must be submitted.

For final mitigation plan requirements, refer to Regulation 9 VAC 25-210-80.B.1.k.(4)(d).

FOR WATER WITHDRAWAL ONLY

Attach Appendices N, O, and/or P from Part II of the Joint Permit Application. Describe the stream flow gauges, the type of calculations used such as drainage area coefficient corrections factors, and the period of record that was used to calculate the average flows provided in Appendices N, O, and/or P.

Stream Flows

Provide the **median** (not mean) monthly stream flows in cubic feet per second (cfs) at the **water intake or dam site** (not at the gage). Median flow is the value at which half of the measurements are above and half of the measurements are below. Median is also sometimes referred to as the '50% exceedence flow'. The median flow generally must be calculated from USGS historical data.

Month	Median Flow (cfs)	Month	Median Flow (cfs)
January		July	
February		August	
March		September	
April		October	
May		November	
June		December	

Provide below, or on an sheet, the average annual flow; a stream flow gage description; the type of calculations used; the period of record that was used to calculate the median monthly flows in the above table; and any available historical low flows:

FOR WATER WITHDRAWAL ONLY

Withdrawals

Provide the maximum instantaneous withdrawal and maximum daily withdrawal at the water intake or dam site. Specify the units of measurement (i.e. million gallons per day, gallons per minute, cubic feet per second, etc.)

Maximum instantaneous withdrawal _____

Average daily withdrawal _____

Maximum daily withdrawal _____

Maximum monthly withdrawal _____

Maximum annual withdrawal _____

Describe the manner in which the withdrawal of water varies over time. For example, as a function of the time of year, or time of day, or time of week. Examples of projects that should describe variable use in detail include, but are not limited to: power plant cooling water withdrawals that increase and decrease seasonally; golf course irrigation; localities; nurseries; ski resorts that use water for snowmaking; and resorts with weekend or seasonal variations.

Describe below the amount of water that will be lost to consumptive use. For the purpose of this application, consumptive use means the withdrawal of surface waters without recycling of said waters to their source or basin of origin. Examples of consumptive use are water that is evaporated in cooling towers or in other means in power plants; irrigation water (all types); residential water use that takes place outside of the home; and residential water use both inside and outside of homes for residences served by septic systems. Localities that sell water to other jurisdictions should document the portion of the withdrawal that is not returned to the originating watershed. Attach a map showing the location of the withdrawal and location of the return of flow.

FOR WATER WITHDRAWAL ONLY

Describe below, or on a separate sheet, how the amount of water to be withdrawn was calculated; the relevant assumptions made in that calculation; and how the proposed withdrawal will impact flows in terms of flow reduction. The purpose of this section is to document the need for the water. Examples of documentation include population projections; growth rates; per-capita use rates; changes in unaccounted-for water attributed to leak detection; and disaggregating and re-aggregating water use by category. Document the source of any increase in population, for example, were VEC population projection figures are used. Document whether existing sources go off line and whether new sources come on line, for example, water sales from adjacent localities. Also, describe the proposed use of the water withdrawal.

Beneficial Uses

On a separate sheet of paper, describe the existing beneficial uses of the surface water body near the proposed project site that would be affected by the withdrawal of water. Include both instream and offstream uses. For the purposes of this application, beneficial instream uses include, but are not limited to: the protection of fish and wildlife habitat; maintenance of waste assimilation; recreation; navigation; and cultural and aesthetic values. Offstream beneficial uses include, but are not limited to: domestic (including public water supply); agricultural; hydropower; and commercial and industrial uses. Describe the stream flow necessary to protect existing beneficial uses and how the proposed withdrawal will impact existing beneficial uses.

On a separate sheet of paper, describe the aquatic life known to be present in the proposed project area, and that which may be impacted by the proposed withdrawal. Include the species' habitat requirements.