

January 2017

OVERVIEW

The waters of the Susquehanna River are used for many purposes — domestic, municipal, agricultural, commercial, industrial, power, environmental, and recreational. These competing needs led to the drafting of the Susquehanna River Basin Compact, which was signed into law on December 24, 1970.

The authorities of the Commission are outlined in the Compact and the adopted implementing regulations dictate the procedures for the submission, review, and consideration of projects. The main purposes of the Commission's regulations are to:

- protect public health, safety and welfare;
- regulate water flows and supplies of surface and ground waters;
- protect fisheries and aquatic habitat;
- consider economic development factors;
- protect flows to the Chesapeake Bay; and
- avoid conflicts among water users.

WHY IS IT IMPORTANT TO REGULATE WITHDRAWALS?

By regulation, withdrawals are limited to the amount of water (quantity and rate) that is needed to meet the reasonably foreseeable needs of a project and can be withdrawn sustainably without causing adverse impacts.

Adverse impacts may include:

- excessive lowering of water levels, thus rendering competing supplies unreliable;
- causing permanent loss of aquifer storage capacity;
- degradation of water quality that may be harmful to any existing or potential water use, adversely affecting fish, wildlife or other living resources or their habitat; and
- substantially impacting the low flow of perennial streams.

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WHAT DOES THE COMMISSION REGULATE?

WITHDRAWALS

Removal or withdrawal of 100,000 gallons per day (gpd) or more over a 30-day average from any source or combination of sources within the Basin is regulated. All withdrawals that supply water to a regulated consumptive use are also regulated.

CONSUMPTIVE WATER USES

Any consumptive water use of 20,000 gpd or more from any water source is regulated.

Consumptive water use is defined as water that is withdrawn either from groundwater or surface-water sources, or from public water supplies, and is used in such a way that it is not returned to the Basin undiminished in quantity.

Water is considered *lost* to the Basin when it is evaporated, transpired due to irrigation, incorporated into manufactured products or injected underground.

DIVERSIONS

Any quantity of water diverted into the Basin is subject to review and approval. Water withdrawn from any source within the Basin and diverted out of the Basin is regulated if the quantity is 20,000 gpd or more.

Standards for review are specified in regulation. In general, diversions into the Basin are scrutinized for water quality impacts; diversions out of the Basin are regulated as consumptive use because the water withdrawn is lost to the Basin.

WHY IS IT IMPORTANT TO REGULATE CONSUMPTIVE WATER USE?

Droughts are naturally occurring events that cannot be prevented. However, one of the Commission's roles is to minimize the impacts of consumptive use to water resources. The Commission adopted consumptive water use regulations to help manage and reduce human impacts caused by consumptive water use during low flows and return to natural flow conditions. Regulated consumptive water users are required to mitigate for impact from their use and submit a plan for that mitigation in the application. Several options are listed in regulation, and provisions are in place to allow a project sponsor to propose and implement another alternative approved by the Commission.

The primary methods utilized by approved projects are:

- reduce withdrawal in amount equal to the consumptive use, and withdraw from alternative surface or underground storage facilities;
- release water for flow augmentation, in amount equal to the consumptive use, from surface or underground storage facilities;
- discontinue the project's consumptive use;
- use a consumptive use source that maintains a conservation release; and
- provide monetary payment for annual consumptive use.

Monetary payments for consumptive use go into a special water management fund that is used to investigate, develop, and maintain Commission controlled water storage and other alternate strategies for mitigating the cumulative impacts of consumptive water use throughout the Basin.



*Consumptive water uses take many forms. Left: Recreational irrigation
Right: Incorporation into mining products*

WHY IS IT IMPORTANT TO REGULATE DIVERSIONS?

Out of Basin diversions are generally discouraged because they reduce streamflow while providing no benefits to the water resources of the Basin. There are, however, instances where diversions out of the Basin are appropriate, such as legitimate public welfare considerations. These projects are required to mitigate for impact from their use. Into Basin diversions of acceptable water quality are generally acceptable.

THE PROCESS OF REVIEWING A PROJECT

PRE-APPLICATION

- ☑ A meeting with Project Review staff is encouraged.
- ☑ Pre-approved aquifer test required for groundwater withdrawal applications.

ADMINISTRATIVE REVIEW & INTERAGENCY COORDINATION

- ☑ Project entered into Commission database for tracking.
- ☑ Comments solicited from the public, federal, state and local agencies.
- ☑ Coordination with state/federal agencies.

TECHNICAL REVIEW

- ☑ Site investigation conducted.
- ☑ Evaluation of impacts on public interests and water resources.
- ☑ Adjustments to withdrawals, consumptive water uses, or diversions may be made to limit or eliminate impacts.
- ☑ Monitoring requirements specified.
- ☑ Agency coordination completed.
- ☑ Recommendations for action presented to the Commissioners.
- ☑ Formal action - Commission may approve, approve with conditions, table, or deny a project docket/permit.

COMPLIANCE MONITORING

- ☑ Project sponsors must abide by monitoring requirements and quarterly reporting.
- ☑ Commission will conduct routine audits and inspections to ensure compliance with docket conditions.