

Md. Code Regs. 26.08.02.04-2 - Antidegradation Policy Implementation Procedures: Tier II Level of Protection - High Quality Waters

State Regulations Compare

A. In Maryland, the term "Tier II water" is defined as a water body with water quality that measures significantly better than that required by water quality standards to support its designated uses. A Tier II watershed is defined as the area of land that contributes runoff to a Tier II waterbody and any discharges to streams upstream of and including the Tier II waterbody. Significantly better is evaluated statistically to demonstrate at least a 90 percent certainty that the mean of the available data is better than the applicable standard (for example, the criterion is outside the outer bound of the 90 percent confidence interval). Water quality is considered significantly better and waters may be listed as Tier II, if the exclusion under §D of this regulation does not apply and if:

(a) Measured water quality characteristics for which numeric criteria have been promulgated are significantly better than the water quality criteria specified in Regulations .03-.03-3 of this chapter; or

(b) Maryland Biological Stream Survey assessment data indicate that both fish and benthic values of the index of biological integrity are 4.00 or greater.

B. Compilation and Maintenance of the List of High Quality Tier II Waters. The Department shall compile and maintain a public list of the Tier II waters. That list is contained in §N of this regulation. All readily available information may be considered to determine a listing. Tier II listings shall be made only for those specific characteristics for which monitoring data indicates the water body exceeds numeric water quality criteria or thresholds established under the narrative standards for biocriteria. The Department shall consider information available from the categories listed under §§A and D of this regulation.

C. Designation for Specific Water Quality Measures. Where a water body is designated a Tier II water based on a specific water quality measure, potential impacts to only that specific characteristic shall be subject to Tier II review. For example, where a water body is designated Tier II because of high dissolved oxygen, only potential impacts to dissolved oxygen are subject to Tier II review.

D. Waters That May Not Be Listed as Tier II. Water bodies included in the List of Impaired Waters (303(d) List) are not Tier II waters for the impairing substance.

E. Antidegradation Review - General. An antidegradation review of updated, new, or proposed amendments to Water and Sewerage Plans (County Plans), wetlands and waterways permits, water quality certifications, or discharge permits in a Tier II watershed is required to assure consistency with antidegradation requirements. An applicant for proposed amendments to County Plans, a wetlands and waterways permit, water quality certification, or discharge permits in a Tier II watershed that will result in a new, or an increased, permitted annual discharge of pollutants or a potential impact to water quality shall evaluate alternatives to eliminate or reduce discharges or impacts. If impacts are unavoidable (as defined in §H of this regulation), an applicant shall prepare and document a social and economic justification. The Department shall determine, through the public processes for each of these permits or authorizations, whether these activities can be justified.

F. Need for Tier II Antidegradation Review.

(1) Permits and Authorizations. Before submitting an application for a new or major modification of an existing discharge permit or Notice of Intent for authorization under a general permit, wetlands and waterways permit, or water quality certification, the discharger or applicant shall determine whether the receiving water body is in a Tier II watershed by consulting the list of Tier II waters.

(2) County Plans. As part of its continuing planning process, the Department shall review proposed updates or amendments to County Plans for any new or major modifications to discharges to a Tier II watershed. If a proposed update or amendment to a County Plan results in a new discharge or a major modification of an existing discharge to a Tier II watershed, the applicant shall perform a Tier II antidegradation review and:

(a) State final action letters for updated County Plans or proposed amendments to the County Plan, such as changes to water or sewerage service areas, shall, at a minimum, include notification that portions of the updated Plan or amendments to service areas may impact Tier II watersheds; and

(b) For updates or amendments to the County Plans that require discharge permits that grant new discharges or an increase or modification to an existing discharge, the County shall be notified that the applicant for the permit will be required to complete an antidegradation review.

(3) Exemptions. The requirement to perform a Tier II antidegradation review does not apply to individual discharges of treated sanitary wastewater of less than 5,000 gallons per day if all of the existing and designated uses continue to be met.

G. Tier II Antidegradation Review.

(1) If a Tier II antidegradation review is required, the applicant shall provide an analysis of reasonable alternatives that do not require direct discharge or a potential water quality impact to a Tier II watershed. The analysis shall include cost data and estimates to determine the cost effectiveness and feasibility of the alternatives.

(2) If the analysis in §G(1) of this regulation shows that the alternatives are cost effective and feasible, the alternative is required as a condition of the permit, authorization, or amendment to the County Plan.

(3) If the analysis in §G(1) of this regulation shows that the alternatives are not cost effective and feasible, the applicant shall provide the Department with plans to configure or structure the discharge or other regulated activities that may cause a potential water quality impact so as to minimize the use of the assimilative capacity of the water body. The assimilative capacity of the water body is the difference between the water quality at the time the water body was designated as Tier II, the baseline, and the water quality criterion.

(4) An applicant shall update an antidegradation review when applying for a new or major modification to an existing permit or authorization.

H. Potential Determinations Resulting from Antidegradation Reviews.

(1) If there is a cost-effective alternative to direct discharge or water quality impacts, the applicant shall implement the alternative and it shall be a condition of the permit or authorization.

(2) If there is no cost-effective alternative to direct discharge or water quality impacts, but there is potential for further minimization of the use of assimilative capacity, the applicant shall revise the initial application to further minimize the use of assimilative capacity, and it shall be a condition of the permit or authorization. If the minimization of the use of assimilative capacity is adequate, then no social and economic justification (SEJ) is required.

(3) If there is no cost-effective alternative to direct discharge or water quality impacts, minimization of the use of assimilative capacity is not adequate, and the SEJ does not justify the water quality impact, the permit application or authorization shall be denied.

(4) If there is no cost-effective alternative to direct discharge or water quality impacts, all reasonable efforts have been made to minimize the use of assimilative capacity, and the SEJ is adequate and justifies the discharge or water quality impacts, the discharge permit shall be granted subject to other applicable requirements.

I. Social and Economic Justification (SEJ).

(1) An SEJ shall be submitted if:

(a) No cost-effective alternative to the discharge or water quality impacts is available; or

(b) The cumulative degradation resulting from nonpoint source pollution and any other permitted discharges would diminish water quality.

(2) To allow for natural variability, water quality shall be considered diminished only if the assimilative capacity as defined in §G(3) of this regulation is cumulatively reduced by more than 25 percent from the baseline water quality of

either benthic or fish IBI value used to make the Tier II stream designation identified in §O of this regulation.

J. Demonstrating Social and Economic Justification for an Impact to Tier II Waters.

(1) In order to promote compact development, maintain habitat and open lands, and minimize water impacts in undeveloped areas, the requirement for social and economic justification is met if all of the following demonstrations are made:

(a) The watershed affecting the Tier II water is located in a priority funding area as defined in State Finance and Procurement Article, § 5-7B-02, Annotated Code of Maryland;

(b) The Department determines, in consultation with the Maryland Department of Planning, that the local jurisdiction in which the watershed affecting Tier II waters are located is using, to the extent reasonably practical, innovative development approaches to minimize impacts to water quality from development;

(c) Physical development after the date of the Tier II listing is necessary to accommodate the projected growth within the watershed, and use of innovative development approaches are maximized to the extent reasonably practicable to encourage redevelopment, reuse, and infill development; and

(d) If the Department of Planning's growth projections for the watershed affecting the Tier II waters demonstrate that additional physical development of undeveloped land is required to accommodate the projected growth and that development is consistent with the applicable county master plan.

(2) The approaches described in §J(1)(b) of this regulation include, but are not limited to, innovative stormwater management and sediment and erosion control design practices, green building design techniques, nutrient removal technology for septic systems, innovative technologies designed to reduce point source discharges of pollutants, uniform building codes designed to remove impediments to rehabilitation projects, model infill development guidelines designed by the Maryland Department of Planning, and transit-oriented development.

K. Components of the Social and Economic Justification.

(1) Components of the SEJ may vary depending on factors including, but not limited to, the extent and duration of the impact from the proposed discharge or regulated activity and the existing uses of the water body.

(2) The economic analyses shall include impacts that result from treatment beyond the costs to meet technology-based or water quality-based requirements.

(3) The economic analysis shall address the cost of maintaining high water quality in Tier II waters and the economic benefit of maintaining Tier II waters.

(4) The economic analysis shall determine whether the costs of the pollution controls needed to maintain the Tier II water would limit growth or development in the watershed including the Tier II water.

L. Department Responsibilities.

(1) The Department shall determine whether the SEJ is adequate and demonstrates that the costs of water pollution controls are reasonable and would not limit development or growth and, if not, shall determine whether lowering of the water quality is unavoidable for necessary development or growth to take place in the watershed.

(2) The Department shall determine whether the SEJ demonstrates that the impact to water quality is necessary for development or growth to take place in the watershed. Evaluation of the SEJ shall consider the relative magnitude of costs and benefits of development, recognizing the difficulty in quantifying benefits, and the extent to which denial of the amendment, permit, or authorization would substantially impact future development within the watershed.

(3) When the Department proposes to issue a tentative determination to either issue or deny the permit application, the notice of tentative determination shall state that these waters are designated as Tier II and, if applicable, that a social and economic justification is available for review.

(4) Existing in-stream water uses and the level of water quality necessary to protect existing uses shall be maintained and protected.

(5) All required point and nonpoint source controls under State statutes and regulations shall be achieved.

M. Public Participation.

(1) Public participation for a permit to discharge to a Tier II watershed is the same as that required for any permit subject to the Administrative Procedure Act or the requirements of Environment Article, Title 1, Subtitle 6, Annotated Code of Maryland.

(2) If an SEJ is not required, the public notice shall reflect the Tier II status of the waterbody and note that an SEJ is not required and note the justification.

(3) If an SEJ is required, the public notice shall reflect the Tier II status of the waterbody and note that an SEJ is required, and the Department shall make the SEJ available for review.

N. List of Tier II Waters Based on Maryland Biological Stream Survey (fish and benthic macroinvertebrate) Index Scores.

Date	Stream Name	County	12-Digit Watershed	From Lat	From Long	To Lat	To Long	Baseline: Fish IBI	Benthic IBI
2007	Black Sulphur Run 1	Allegany	021405110138	39.66571	-78.49952	39.65183	-78.47808	4.33	4.25
2007	Ellick Run 1	Allegany	021410040090	39.57690	-78.91140	39.57095	-78.93507	4.00	4.50
2007	Fifteenmile Creek 1	Allegany	021405110137	39.71230	-78.44577	39.70747	-78.45106	4.67	4.25
2003	Fifteenmile Creek 3	Allegany	021405110135	39.64046	-78.39719	39.63082	-78.38600	5.00	4.25
2007	Fifteenmile Creek 4	Allegany	021405110137	39.71921	-78.44378	39.71230	-78.44577	4.67	4.00
2007	Fifteenmile Creek 5	Allegany	021405110137	39.70188	-78.44975	39.69293	-78.45128	4.67	4.25
2011	Fifteenmile Creek 6	Allegany	021405110135	39.65610	-78.40009	39.65591	-78.39701	4.67	4.00
2007	Town Creek 1	Allegany	021405120122	39.54048	-78.54280	39.52337	-78.54404	4.67	4.25
2007	White Sulphur Run 1	Allegany	021405110137	39.65183	-78.47808	39.66107	-78.45709	4.00	4.25
2003	Sideling Hill Creek 1	Allegany, Washington	021405100148	39.66097	-78.36225	39.63948	-78.33408	4.67	4.25
2021	Wilson Owens Branch 1	Anne Arundel	021311020914	38.825626	-76.68624	38.825834	-76.697119	4.67	4.14
2003	Lyons Creek 1	Anne Arundel, Calvert	021311020910	38.76807	-76.62204	38.76693	-76.63353	5.00	4.71
2011	Lyons Creek 3	Anne Arundel, Calvert	021311020909	38.76472	-76.65905	38.75572	-76.67206	4.33	4.00
2009	Patuxent River 1	Anne Arundel, Prince George's	021311040937	39.01110	-76.73676	39.00709	-76.73319	4.00	4.71
2007	Beetree Run 1	Baltimore Co.	021308050311	39.68323	-76.66591	39.66633	-76.67247	4.33	5.00

2007	Blackrock Run 1	Baltimore Co.	021308050303	39.54230	-76.73384	39.52739	-76.72217	4.67	4.00
2021	Bush Cabin Run 1	Baltimore Co.	021308050306	39.599083	-76.707107	39.61048	-76.681793	4.00	4.84
2007	Cooks Branch 1	Baltimore Co.	021309071048	39.43616	-76.84026	39.43789	-76.86894	4.67	4.84
2007	Cooks Branch 2	Baltimore Co.	021309071048	39.43792	-76.86879	39.43825	-76.87277	4.84	5.00
2021	Deer Creek 1	Baltimore Co.	021202020332	39.713068	-76.597628	39.70742	-76.590096	4.67	4.33
2021	Deer Creek 9	Baltimore Co.	021202020332	39.72117	-76.609265	39.713068	-76.597628	4.67	4.67
2007	Delaware Run 1	Baltimore Co.	021308050303	39.49910	-76.77293	39.50196	-76.76216	4.00	4.33
2011	Harris Mill Creek 1	Baltimore Co.	021202020332	39.71528	-76.62412	39.71307	-76.59763	4.67	4.00
2003	Keyzers Run 1	Baltimore Co.	021309071048	39.46914	-76.83976	39.47156	-76.87929	5.00	4.00
2008	Little Falls 1	Baltimore Co.	021308050309	39.62193	-76.63046	39.61385	-76.62302	4.33	4.00
2007	North Branch Patapsco River UT 1	Baltimore Co.	021309071048	39.48558	-76.84373	39.49465	-76.86359	4.67	4.67
2011	North Branch Patapsco River UT 2	Baltimore Co.	021309071048	39.494629	-76.86357	39.49571	-76.837947	4.17	4.56
2007	Peggys Run 1	Baltimore Co.	021308060314	39.60906	-76.79718	39.61597	-76.79254	5.00	4.00
2007	Peggys Run UT 1	Baltimore Co.	021308060314	39.60402	-76.82804	39.60906	-76.79718	5.00	4.67
2007	Red Run 1	Baltimore Co.	021309051045	39.41111	-76.81224	39.40074	-76.79887	4.67	4.17
2005	Timber Run 1	Baltimore Co.	021309071048	39.44400	-76.84151	39.43794	-76.86878	4.48	4.57
2007	Gunpowder Falls 1	Baltimore Co., Carroll	021308060316	39.69574	-76.80339	39.68389	-76.76963	4.00	4.50
2011	Murphy Run 1	Baltimore Co., Carroll	021308060314	39.62639	-76.83087	39.62004	-76.81855	5.00	4.00
2007	First Mine Branch 1	Baltimore Co., Harford	021308050309	39.62700	-76.55549	39.62524	-76.59857	4.33	4.33

2003	Little Gunpowder Falls 1	Baltimore Co., Harford	021308040298	39.50453	-76.42982	39.48592	-76.42739	4.00	4.33
2003	Little Gunpowder Falls 2	Baltimore Co., Harford	021308040298	39.48150	-76.42516	39.47306	-76.40243	4.33	4.17
2008	Little Gunpowder Falls 3	Baltimore Co., Harford	021308040298	39.52930	-76.51334	39.52561	-76.49405	4.00	4.00
2011	Little Gunpowder Falls 4	Baltimore Co., Harford	021308040298	39.47306	-76.40243	39.46108	-76.39091	4.00	4.33
2007	Choptank River UT 1	Caroline	021304040494	38.89921	-75.80250	38.90032	-75.82887	4.33	4.43
2007	Faulkner Branch 1	Caroline	021303060611	38.71178	-75.79381	38.71002	-75.77321	4.00	4.71
2007	Forge Branch 1	Caroline	021304040505	38.99411	-75.81912	38.96356	-75.82510	4.67	4.14
2008	Herring Run 1 (Caroline Co.)	Caroline	021304040490	38.85163	-75.78393	38.84814	-75.80201	5.00	4.43
2008	Hog Creek 1	Caroline	021304040484	38.75614	-75.90846	38.78274	-75.93954	5.00	4.71
2007	Hunting Creek 1	Caroline	021304030471	38.71848	-75.88225	38.70389	-75.89296	4.33	4.43
2009	Marsh Creek 1	Caroline	021304040476	38.71487	-75.93561	38.70310	-75.94396	4.00	4.71
2007	Robins Creek 1	Caroline	021304040486	38.79651	-75.84430	38.81482	-75.86926	4.67	4.43
2008	Sullivan Branch 1	Caroline	021303060614	38.75398	-75.78257	38.72927	-75.76085	4.33	4.43
2008	Tull Branch 1	Caroline	021303060613	38.74128	-75.79902	38.71843	-75.77007	4.33	4.14
2008	Watts Creek 1	Caroline	021304040492	38.87704	-75.78880	38.85750	-75.81524	4.67	5.00
2008	Tuckahoe River 1	Caroline, Queen Anne's	021304050531	38.99067	-75.92972	38.98128	-75.93486	4.67	5.00
2016	Tuckahoe River 2	Caroline, Queen Anne's	021304050533	38.98128	-75.93486	38.97278	-75.93518	4.67	5.00
2007	Beaver Run 1	Carroll	021309071057	39.52564	-76.94339	39.51553	-76.93306	4.67	4.00

2012	Beaver Run 2	Carroll	021309071057	39.51555	-76.93302	39.50302	-76.91245	4.50	4.00
2007	Gillis Falls 1	Carroll	021309081030	39.41843	-77.07169	39.41370	-77.07350	5.00	4.33
2003	Gillis Falls 2	Carroll	021309081025	39.38573	-77.08755	39.36202	-77.06503	4.67	4.00
2007	Joe Branch 1	Carroll	021309071050	39.49684	-76.98763	39.47308	-76.98504	5.00	4.67
2007	Little Morgan Run 1	Carroll	021309071049	39.44303	-77.00405	39.43667	-76.98714	5.00	5.00
2008	Little Morgan Run 2	Carroll	021309071049	39.43418	-76.97782	39.42667	-76.96086	4.00	4.33
2003	Little Morgan Run UT 1	Carroll	021309071049	39.44732	-77.02609	39.44303	-77.00405	5.00	5.00
2007	Little Morgan Run UT 2	Carroll	021309071049	39.45284	-76.99936	39.43667	-76.98714	4.33	4.00
2008	Middle Run 1	Carroll	021309071056	39.49246	-76.94485	39.47679	-76.92717	5.00	4.33
2007	Morgan Run 1	Carroll	021309071050	39.47892	-76.99912	39.47308	-76.98504	4.33	4.00
2007	Morgan Run UT 1	Carroll	021309071047	39.41909	-76.94624	39.42504	-76.94703	4.67	4.00
2007	North Branch Patapsco River 1	Carroll	021309071048	39.52245	-76.87527	39.51010	-76.88719	4.00	4.17
2009	Piney Branch 2 (Carroll Co.)	Carroll	021309081026	39.37318	-77.01189	39.35703	-76.99621	4.67	4.00
2007	South Branch Gunpowder Falls UT 1	Carroll	021308060317	39.66661	-76.88386	39.70835	-76.85661	5.00	4.00
2007	South Branch Patapsco River 1	Carroll, Howard	021309081025	39.36322	-77.07507	39.36202	-77.06503	5.00	4.00
2007	Basin Run 1	Cecil	021202030344	39.65615	-76.08164	39.65530	-76.11020	4.33	4.67
2007	Big Elk Creek 1	Cecil	021306060386	39.66985	-75.82816	39.66294	-75.82655	4.00	4.33
2007	Big Elk Creek 2	Cecil	021306060386	39.66297	-75.82656	39.61737	-75.82005	4.67	4.43
2007	Gramies Run 1	Cecil	021306060387	39.70360	-75.85958	39.66983	-75.82808	4.50	4.67

2003	Little North East Creek 1	Cecil	021306080377	39.72566	-75.95853	39.66625	-75.93462	4.67	4.67
2007	Mill Creek 1	Cecil	021202010319	39.58515	-76.05275	39.56460	-76.06549	4.00	4.33
2007	Principio Creek 1	Cecil	021306090380	39.64415	-76.03558	39.61434	-76.03344	4.67	4.00
2007	Principio Creek 2	Cecil	021306090380	39.59454	-76.02519	39.58707	-76.02894	4.00	4.67
2009	Principio Creek 3	Cecil	021306090380	39.58703	-76.02897	39.57064	-76.03058	4.33	4.00
2003	Principio Creek UT 1	Cecil	021306090380	39.61544	-76.05885	39.60709	-76.03070	4.22	4.89
2007	Hill Top Fork UT 1	Charles	021401100775	38.48924	-77.16391	38.46113	-77.15144	4.33	4.43
2008	Hoghole Run 1	Charles	021401090773	38.51805	-77.03583	38.50957	-77.02469	4.13	4.60
2009	Jennie Run 1	Charles	021401090774	38.56786	-76.98150	38.54646	-77.01716	4.33	4.29
2016	Marbury Run 1	Charles	021401110780	38.56780	-77.14674	38.57919	-77.15872	4.33	4.14
2007	Mattawoman Creek UT 1	Charles	021401110780	38.53477	-77.16806	38.54767	-77.17246	4.00	4.43
2003	Mattawoman Creek UT 2	Charles	021401110780	38.53761	-77.18100	38.55605	-77.19043	4.33	4.71
2008	Mattawoman Creek UT 3	Charles	021401110781	38.56562	-77.13269	38.58862	-77.12501	4.67	4.43
2009	Mill Dam Run 1	Charles	021401080767	38.56503	-76.83737	38.56415	-76.84207	4.67	4.71
2008	Mill Run 3 (Charles Co.)	Charles	021401100779	38.49943	-77.08434	38.47626	-77.08420	4.11	4.62
2011	Mill Run 5	Charles	021401100779	38.52755	-77.078741	38.52029	-77.090089	4.00	4.43
2007	Mill Run UT 1 (Charles Co.)	Charles	021401100779	38.51104	-77.10720	38.50039	-77.08561	4.50	4.29
2008	Nanjemoy Creek 1	Charles	021401100777	38.42378	-77.21466	38.41522	-77.20368	4.00	4.86
2003	Old Womans Run 1	Charles	021401110784	38.59669	-77.02960	38.59612	-77.05501	4.33	4.71

2007	Old Womans Run 2	Charles	021401110784	38.59708	-77.00973	38.59669	-77.02960	4.67	4.43
2007	Piney Branch 1 (Charles Co.)	Charles	021401080764	38.56180	-76.87701	38.55004	-76.87041	4.33	4.43
2008	Potomac River UT 1	Charles	021401020789	38.46814	-77.24377	38.47086	-77.26168	4.67	4.14
2011	Potomac River UT 2	Charles	021401020789	38.48546	-77.23682	38.47495	-77.25927	4.00	4.43
2007	Reeder Run 1	Charles	021401020789	38.50839	-77.18502	38.51782	-77.20231	4.84	4.29
2003	Reeder Run 2	Charles	021401020789	38.51592	-77.21343	38.53274	-77.22703	4.33	4.71
2016	Reeder Run 3	Charles	021401020789	38.50269	-77.18977	38.50940	-77.20911	4.78	4.52
2012	Swanson Creek 4	Charles	021311010892	38.56522	-76.76043	38.56323	-76.75701	4.00	4.60
2007	Swanson Creek UT 1	Charles	021311010892	38.55236	-76.77384	38.56324	-76.75700	4.67	4.43
2003	Wards Run 1	Charles	021401100778	38.51808	-77.13581	38.51012	-77.14786	4.67	4.71
2009	Wards Run 2	Charles	021401100778	38.50346	-77.15071	38.48449	-77.13184	4.00	4.71
2003	Wolf Den Branch 1	Charles	021401080769	38.63601	-76.82109	38.62192	-76.82043	4.33	4.71
2003	Zekiah Swamp Run 1	Charles	021401080769	38.63464	-76.79846	38.62196	-76.82036	4.33	4.14
2007	Zekiah Swamp Run 2	Charles	021401080768	38.60216	-76.83388	38.59608	-76.83771	4.67	4.71
2003	Zekiah Swamp Run 3	Charles	021401080765	38.58953	-76.84107	38.56355	-76.85086	4.50	4.57
2007	Zekiah Swamp Run 4	Charles	021401080760	38.52679	-76.90389	38.51257	-76.91427	4.67	4.43
2007	Zekiah Swamp Run 5	Charles	021401080760	38.49396	-76.92612	38.48639	-76.92853	4.00	4.71
2007	Zekiah Swamp Run 6	Charles	021401080768	38.61391	-76.83263	38.60216	-76.83388	4.00	4.43
2012	Zekiah Swamp Run 7	Charles	021401080768	38.61910	-76.82968	38.61393	-76.83266	4.17	4.86

2003	Zekiah Swamp Run UT 1	Charles	021401080762	38.52253	-76.87598	38.52817	-76.89208	5.00	4.43
2007	Zekiah Swamp Run UT 2	Charles	021401080766	38.61249	-76.86986	38.58952	-76.84111	4.34	4.00
2008	Zekiah Swamp Run UT 3	Charles	021401080763	38.54068	-76.83338	38.55595	-76.86021	4.33	4.14
2008	Mattawoman Creek 1	Charles, Prince George's	021401110786	38.65497	-76.93916	38.65767	-76.98456	5.00	4.43
2012	Mattawoman Creek 2	Charles, Prince George's	021401110786	38.65234	-76.90833	38.65252	-76.91689	4.00	4.14
2003	Swanson Creek 1	Charles, Prince George's	021311010893	38.60760	-76.74634	38.58927	-76.74244	4.67	5.00
2007	Swanson Creek 2	Charles, Prince George's	021311010890	38.55844	-76.74044	38.55404	-76.72821	4.67	4.14
2007	Swanson Creek 3	Charles, Prince George's	021311010893	38.58927	-76.74244	38.55844	-76.74044	4.67	4.43
2016	Wolf Den Branch 2	Charles, Prince George's	021401080769	38.67283	-76.80444	38.63902	-76.81987	4.00	4.43
2007	Smoots Pond Run 1	Charles, Saint Mary's	021401070751	38.47788	-76.79137	38.49444	-76.80455	5.00	4.43
2007	Blinkhorn Creek 1	Dorchester	021304030467	38.65297	-75.90070	38.65195	-75.93188	4.33	4.71
2003	Davis Millpond Branch 1	Dorchester	021303060607	38.66525	-75.75797	38.67465	-75.77339	4.67	5.00
2008	Skinner's Run 1	Dorchester	021303060608	38.67503	-75.82252	38.66851	-75.81497	4.00	4.29
2003	Big Hunting Creek 1	Frederick	021403030251	39.62634	-77.45965	39.60990	-77.41044	4.33	4.25
2008	High Run 1	Frederick	021403030251	39.60468	-77.46215	39.60823	-77.41093	4.00	4.50

2007	Talbot Branch UT 1	Frederick	021403020238	39.46420	-77.13548	39.45535	-77.16043	4.33	4.25
2007	Weldon Creek 1	Frederick	021403020238	39.47694	-77.15018	39.47488	-77.16046	4.00	4.00
2007	Bear Creek 2	Garrett	050202010018	39.65484	-79.36376	39.65316	-79.38472	4.67	4.00
2008	Bear Creek 3	Garrett	050202010018	39.66006	-79.32011	39.65441	-79.33055	4.67	4.25
2008	Bear Creek 4	Garrett	050202010016	39.56476	-79.32195	39.65018	-79.28886	4.22	4.39
2007	Bear Creek 5	Garrett	050202010018	39.65593	-79.33884	39.65482	-79.36370	4.67	4.00
2003	Bear Creek UT 1	Garrett	050202010018	39.64821	-79.34058	39.65559	-79.33808	5.00	4.50
2007	Bear Pen Run 1	Garrett	021410060077	39.59163	-79.14355	39.57341	-79.12028	4.75	4.25
2016	Big Run 1	Garrett	021410060078	39.58348	-79.17124	39.55629	-79.15005	4.88	4.13
2007	Big Run UT 1	Garrett	021410060078	39.57835	-79.19349	39.58348	-79.17124	4.00	4.75
2007	Blacklick Run 1	Garrett	021410060080	39.63910	-79.09647	39.61727	-79.08702	4.00	4.25
2007	Buffalo Run 1	Garrett	050202010019	39.68685	-79.40998	39.69053	-79.40417	4.67	4.00
2008	Buffalo Run 2	Garrett	050202010019	39.69264	-79.43757	39.68915	-79.42334	4.00	4.25
2012	Buffalo Run 3	Garrett	050202010019	39.68781	-79.41738	39.68685	-79.41002	4.00	4.25
2010	Casselman River 1	Garrett	050202040034	39.66851	-79.17745	39.67513	-79.17104	4.67	4.00
2003	Crabtree Creek 1	Garrett	021410060074	39.47779	-79.19210	39.50564	-79.15474	4.47	4.30
2003	Double Lick Run 1	Garrett	021410060076	39.54257	-79.21921	39.53356	-79.20082	4.92	4.38
2007	Dry Run 1	Garrett	021410060077	39.54299	-79.17013	39.52313	-79.14385	4.00	4.50
2007	Hoyes Run 1	Garrett	050202010012	39.53193	-79.40384	39.52879	-79.41254	5.00	4.25
2021	Laurel Run 1	Garrett	050202010019	39.688371	-79.449636	39.6877	-79.439537	4.00	4.25
2011	Laurel Run UT 1	Garrett	021410050050	39.47897	-79.15120	39.47772	-79.11977	4.00	4.25
2003	Little Bear Creek 1	Garrett	050202010016	39.65775	-79.26858	39.65019	-79.28882	4.50	4.25

2008	Little Savage River 1	Garrett	021410060081	39.65111	-78.99097	39.59315	-79.04834	4.00	4.00
2003	Middle Fork Crabtree Creek 1	Garrett	021410060076	39.51193	-79.16195	39.51261	-79.15403	4.67	4.50
2009	Middle Fork Crabtree Creek 2	Garrett	021410060076	39.53353	-79.20087	39.53507	-79.18800	5.00	4.25
2011	Middle Fork Crabtree Creek 3	Garrett	021410060076	39.53507	-79.18800	39.51565	-79.16892	4.00	4.50
2003	Mill Run 1 (Garrett Co.)	Garrett	050202010021	39.71553	-79.34541	39.70909	-79.34891	4.21	4.56
2003	Mill Run 2 (Garrett Co.)	Garrett	050202010021	39.70907	-79.36308	39.71472	-79.38469	4.67	4.00
2003	Mill Run 4 (Garrett Co.)	Garrett	050202010021	39.71883	-79.30088	39.71553	-79.34541	5.00	4.58
2011	Mill Run UT 2 (Garrett Co.)	Garrett	050202010021	39.71594	-79.27141	39.71849	-79.30071	4.50	4.50
2003	Monroe Run 1	Garrett	021410060078	39.54471	-79.22830	39.54944	-79.14434	4.00	4.25
2003	Poplar Lick Run 1	Garrett	021410060079	39.59098	-79.10319	39.58389	-79.09140	4.50	4.38
2003	Puzzley Run 1	Garrett	50202010022	39.69028	-79.22870	39.72189	-79.23219	4.00	4.75
2011	Sand Spring Run 1	Garrett	050202010001	39.257794	-79.473281	39.272048	-79.474658	4.00	4.25
2007	Savage River 1	Garrett	021410060077	39.57974	-79.08983	39.56218	-79.11099	4.34	4.25
2003	Savage River 2	Garrett	021410060077	39.56219	-79.11102	39.54306	-79.13744	4.72	4.29
2009	Savage River 4	Garrett	021410060081	39.59811	-79.05554	39.60227	-79.07229	5.00	4.50
2007	South Branch Bear Creek 1	Garrett	050202010015	39.62367	-79.37594	39.65316	-79.38472	4.33	4.50
2007	South Branch Casselman River 1	Garrett	050202040033	39.62616	-79.19151	39.64653	-79.18124	4.67	4.00

2007	South Branch Casselman River 2	Garrett	050202040033	39.64814	-79.18152	39.66851	-79.17745	4.00	4.25
2011	Spring Lick Run 1	Garrett	021410060074	39.50365	-79.20005	39.49073	-79.17532	4.00	4.25
2011	Toms Spring Run 1	Garrett	021410060076	39.51704	-79.20115	39.51565	-79.16893	4.50	4.75
2016	Wolf Den Run 1	Garrett	021410050047	39.39655	-79.21193	39.38905	-79.19443	4.00	4.00
2016	Wolf Den Run UT 1	Garrett	021210050047	39.41259	-79.22063	39.39655	-79.21193	4.00	4.00
2007	Youghiogheny River UT 1	Garrett	050202010020	39.67943	-79.35317	39.68632	-79.38164	4.00	4.00
2007	Broad Creek 1	Harford	021202050339	39.67899	-76.35243	39.66468	-76.32487	4.00	4.17
2008	Bynum Run UT 1	Harford	021307041131	39.50923	-76.27523	39.50505	-76.28355	4.33	4.00
2012	Cattail Branch UT 1	Harford	021202020328	39.62017	-76.49403	39.63521	-76.49927	5.00	4.33
2007	Deer Creek 2	Harford	021202020329	39.67564	-76.45429	39.67445	-76.44291	4.00	4.67
2003	Deer Creek 3	Harford	021202020324	39.63225	-76.41051	39.61776	-76.39938	4.33	5.00
2003	Deer Creek 4	Harford	021202020322	39.59924	-76.26823	39.60333	-76.24910	4.33	4.33
2008	Deer Creek 5	Harford	021202020330	39.68097	-76.51724	39.67993	-76.50004	4.00	4.00
2008	Deer Creek 6	Harford	021202020327	39.65641	-76.43661	39.65238	-76.43784	4.00	5.00
2008	Deer Creek 7	Harford	021202020322	39.61660	-76.23174	39.62119	-76.21763	4.33	4.00
2009	Deer Creek 8	Harford	021202020327	39.64722	-76.43147	39.63217	-76.41041	4.00	4.33
2007	Deer Creek UT 1	Harford	021202020330	39.64980	-76.55578	39.67578	-76.54223	4.33	4.00
2007	Deer Creek UT 2	Harford	021202020321	39.58866	-76.20168	39.61740	-76.19373	4.33	5.00
2007	Deer Creek UT 3	Harford	021202020324	39.65935	-76.39446	39.64010	-76.35041	4.67	4.00
2007	Falling Branch 1	Harford	021202020329	39.72913	-76.46723	39.67453	-76.44299	4.00	4.33

2007	Hollands Branch 1	Harford	021202020322	39.64115	-76.24400	39.62126	-76.21756	4.00	4.67
2007	Little Deer Creek 1	Harford	021202020328	39.64640	-76.50645	39.65453	-76.49075	4.67	4.33
2008	Little Deer Creek 2	Harford	021202020328	39.65455	-76.49075	39.66009	-76.48109	4.00	4.00
2011	Little Deer Creek UT 1	Harford	021202020328	39.62878	-76.48475	39.66009	-76.48109	4.67	4.33
2008	Otter Point Creek 1	Harford	021307021130	39.43296	-76.29982	39.43281	-76.28558	4.33	4.14
2003	Wet Stone Branch 1	Harford	021202020327	39.63021	-76.45688	39.64721	-76.43147	4.67	4.33
2007	Carrolls Branch 1	Howard	021331060960	39.19818	-76.95531	39.19474	-76.93510	4.00	4.67
2007	Dorsey Branch 1	Howard	021311080968	39.28402	-77.00921	39.26105	-77.04475	4.00	5.00
2007	Patuxent River UT 2	Howard	021311070942	39.18842	-76.97725	39.16340	-76.97520	4.06	4.44
2007	Rocky Gorge Reservoir UT 1	Howard	021311070941	39.17385	-76.96164	39.15066	-76.96862	4.67	4.00
2007	South Branch Patapsco River UT 1	Howard	021309081022	39.34471	-76.96235	39.34836	-76.95941	4.33	5.00
2007	Cypress Branch 1	Kent	021305100427	39.30475	-75.74799	39.28812	-75.78414	4.00	4.14
2009	Cypress Branch 2	Kent	021305100427	39.28429	-75.79552	39.27214	-75.81757	4.67	4.14
2003	East Fork Langford Creek UT 1	Kent	021305060408	39.21050	-76.13505	39.19893	-76.11633	4.67	4.14
2021	Fannels Branch 1	Kent	021305060409	39.189562	-76.107898	39.187236	-76.113317	4.17	4.00
2021	Morgan Creek UT 1	Kent	021305090415	39.306198	-76.016172	39.289815	-76.020911	4.27	4.00
2010	Goshen Run UT 1	Montgomery	021402080864	39.21470	-77.17439	39.21709	-77.14649	4.00	4.75

2003	Patuxent River UT 1	Montgomery	021311080969	39.28851	-77.19257	39.28496	-77.13996	4.17	5.00
2007	Bald Hill Branch 1	Prince George's	021311030925	38.99228	-76.84371	38.92241	-76.82020	4.00	4.14
2007	Beaverdam Creek 1	Prince George's	021402050823	39.02370	-76.85045	39.02190	-76.85974	4.33	4.43
2007	Beaverdam Creek 2	Prince George's	021402050823	39.02287	-76.86218	39.01585	-76.89775	4.33	4.71
2021	District Branch 1	Prince George's	021311020917	38.866772	-76.719393	38.854804	-76.691683	4.34	4.00
2007	Mataponi Creek UT 1	Prince George's	021311020905	38.72979	-76.82511	38.71989	-76.79437	4.00	4.43
2003	Piscataway Creek 1	Prince George's	021402030803	38.73428	-76.86811	38.73258	-76.87590	4.67	4.43
2007	Piscataway Creek 2	Prince George's	021402030799	38.70638	-76.97208	38.69906	-76.98589	4.33	4.14
2007	Rock Creek 1	Prince George's	021311010904	38.69443	-76.75155	38.69093	-76.72613	4.67	4.71
2021	Timothy Branch 1	Prince George's	021401110787	38.710667	-76.854371	38.664667	-76.878959	4.50	4.14
2009	Turkey Branch 1	Prince George's	021311030921	38.84980	-76.84000	38.85763	-76.78847	4.67	4.14
2008	Alder Branch 1	Queen Anne's	021305070395	39.07879	-76.06344	39.07197	-76.07868	4.67	4.71
2003	Andover Branch 1	Queen Anne's	021305100425	39.22355	-75.76977	39.23043	-75.78289	4.17	4.57
2009	Andover Branch 2	Queen Anne's	021305100425	39.23044	-75.78285	39.24174	-75.79593	4.33	5.00
2007	Andover Branch UT 1	Queen Anne's	021305100425	39.21407	-75.80767	39.24699	-75.82277	4.67	4.71
2007	Blockston Branch UT 1	Queen Anne's	021304050529	38.98971	-75.99870	38.98086	-75.97180	4.00	4.14
2003	Browns Branch 3	Queen Anne's	021305080403	39.15968	-75.92076	39.16360	-75.95177	4.33	5.00
2007	Granny Finley Branch 1	Queen Anne's	021305080399	39.08786	-75.95688	39.11766	-76.04025	4.00	4.00

2011	Gravel Run 1	Queen Anne's	021305070397	39.03535	-76.03710	39.05027	-76.06391	4.00	4.02
2011	Island Creek 1	Queen Anne's	021305080398	39.08896	-76.05355	39.11732	-76.06863	4.33	4.14
2008	Mill Stream Branch 1	Queen Anne's	021305070396	39.01998	-76.03938	39.02288	-76.06394	4.67	4.43
2007	Norwich Creek 1	Queen Anne's	021304050522	38.97574	-76.01146	38.95164	-75.99614	4.67	4.71
2011	Norwich Creek 3	Queen Anne's	021304050522	38.94203	-75.99741	38.92547	-75.97541	4.00	4.14
2003	Red Lion Branch 1	Queen Anne's	021305100419	39.22756	-75.90160	39.23418	-75.90438	4.22	4.43
2003	Red Lion Branch 2	Queen Anne's	021305100419	39.18442	-75.89387	39.20305	-75.89646	4.27	4.43
2007	Red Lion Branch 3	Queen Anne's	021305100419	39.20657	-75.89344	39.22756	-75.90160	4.50	4.57
2007	Red Lion Branch UT 1	Queen Anne's	021305100420	39.17411	-75.86903	39.18442	-75.89387	4.33	4.14
2007	Southeast Creek 1	Queen Anne's	021305060401	39.13192	-75.97889	39.13975	-75.98786	4.67	4.43
2008	Southeast Creek 2	Queen Anne's	021305080401	39.13989	-75.98794	39.14592	-75.98986	4.17	4.29
2008	Southeast Creek UT 2	Queen Anne's	021305080401	39.11759	-75.95646	39.11650	-75.96562	4.33	4.71
2008	Southeast Creek UT 3	Queen Anne's	012305080401	39.11651	-75.96563	39.13035	-75.97788	4.44	4.71
2007	Three Bridges Branch 1	Queen Anne's	021305070397	39.05323	-76.03293	39.05027	-76.06391	4.17	4.43
2007	Wye East River UT 1	Queen Anne's	021305030436	38.98305	-76.08860	38.94966	-76.10908	4.67	4.71
2008	Wye East River UT2	Queen Anne's	021305030436	38.99155	-76.03511	38.99231	-76.07751	4.00	4.14
2011	Norwich Creek 2	Queen Anne's/Talbot	021304050522	38.92547	-75.97541	38.91998	-75.96930	4.33	4.71
2007	Burnt Mill Creek 1	Saint Mary's	021401040724	38.36375	-76.65992	38.34639	-76.64235	4.00	4.43

2007	Burnt Mill Creek UT 1	Saint Mary's	021401040724	38.38129	-76.66945	38.37031	-76.65860	4.00	4.71
2007	Chaptico Run 1	Saint Mary's	021401060736	38.37100	-76.75610	38.36489	-76.78197	4.67	4.43
2012	Fisherman Creek 1	Saint Mary's	021401030712	38.21065	-76.40307	38.19762	-76.41925	4.67	4.00
2008	Forrest Hall Branch 1	Saint Mary's	021401060742	38.42298	-76.72010	38.38460	-76.74243	5.00	4.14
2007	Hayden Run 1	Saint Mary's	021401060742	38.43916	-76.73770	38.41884	-76.74437	4.33	4.43
2009	Hilton Run 1	Saint Mary's	021401030715	38.24596	-76.46944	38.22383	-76.46161	4.00	4.43
2007	Johns Creek 1	Saint Mary's	021401030714	38.23144	-76.52353	38.23587	-76.49717	4.34	4.43
2008	McIntosh Run 1	Saint Mary's	021401040721	38.32959	-76.63552	38.32555	-76.64338	4.00	4.86
2008	McIntosh Run 2	Saint Mary's	021401040721	38.32555	-76.64337	38.31354	-76.65517	4.00	4.43
2007	Saint Clements Bay UT 1	Saint Mary's	021401050726	38.32481	-76.69673	38.29953	-76.71233	4.33	4.71
2007	Saint Clements Creek 1	Saint Mary's	021401050728	38.34856	-76.73058	38.33257	-76.72384	4.17	4.43
2011	Saint Clements Creek 2	Saint Mary's	021401050730	38.358656	-76.727069	38.348588	-76.730607	4.33	4.71
2007	Saint Mary's River 1	Saint Mary's	021401030717	38.27485	-76.51438	38.25265	-76.50721	4.00	4.71
2010	Saint Mary's River UT 3	Saint Mary's	021401030719	38.27771	-76.51543	38.30595	-76.52726	4.00	4.43
2003	Warehouse Run 1	Saint Mary's	021401030714	38.20522	-76.49843	38.22150	-76.48619	4.67	4.43
2007	Dividing Creek 1	Somerset, Worcester	021302040064	38.21149	-75.57593	38.18183	-75.54768	4.33	5.00
2007	Highfield Creek 1	Talbot	021304050517	38.89321	-75.97110	38.89050	-75.96166	4.17	4.72
2007	Jadwins Creek 1	Talbot	021304050516	38.84859	-75.97328	38.83436	-75.93300	4.00	4.43
2007	Kings Creek 1	Talbot	021304040473	38.79141	-76.02193	38.79367	-75.99319	4.67	4.71

2007	Skipton Creek UT 1	Talbot	021305030434	38.88226	-76.04616	38.87955	-76.05344	4.00	4.43
2003	Adkins Race 1	Wicomico	021302030648	38.33427	-75.37668	38.31965	-75.35493	4.67	4.15
2008	Little Burnt Branch 1	Wicomico	021303040567	38.43934	-75.62701	38.41103	-75.59458	4.00	5.00
2007	Nassawango Creek 1	Wicomico	021302050668	38.31299	-75.46914	38.30312	-75.46400	4.17	4.57
2007	Plum Creek 1	Wicomico	021303050584	38.51243	-75.70759	38.53541	-75.74588	4.00	4.43
2010	Little Mill Creek 1	Worcester	021301060672	38.02677	-75.46306	38.04621	-75.42736	4.00	4.71
2007	Nassawango Creek 2	Worcester	021302050668	38.28361	-75.45386	38.25998	-75.46283	4.67	4.21
2008	Nassawango Creek 3	Worcester	021302050667	38.26000	-75.46286	38.23505	-75.47196	4.56	4.62

Notes

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State Regulations Toolbox

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