APPENDIX II

- Summary of North Carolina's Water Quality Classifications and Standards
- Antidegradation Policy
- High Quality Waters
- Outstanding Resource Waters
- Classifications and Water Quality Standards Assigned to the Waters of the Hiwassee River Basin

SUMMARY OF NORTH CAROLINA'S WATER QUALITY CLASSIFICATIONS AND STANDARDS

PRIMARY CLASSIFICATIONS	BEST USAGE	DISCHARGE RESTRICTIONS[1]	STORMWATER MANAGEMENT	OTHER REQUIREMENTS[2]
Freshwater:				
C (standards apply to all freshwaters, unless pre-empted by more stringent standard for more protective classification)	Secondary recreation (including swimming on an unorganized or infrequent basis); wildlife; fish and other aquatic life propagation and survival; agriculture and any other usage, except for primary recreation, water supply or other food-related ruses	Domestic and industrial wastewater dischargers allowed	Stormwater Management Rules apply in the 20 coastal counties as described in 15A NCAC 2H .1000	
B	Primary recreation (swimming on an organized or frequent basis) and all uses specified for Class C (and not water supply or other food-related uses)	Same as for Class C; wastewater treatment reliability requirements (dual train design; backup power capability) may apply to protect swimming uses (15A NCAC 2H .0124)	Same as for Class C	
WS-I Water Supply	Water supplies in natural and undeveloped watersheds	No point source discharges	Not applicable since watershed is undeveloped	No landfills; residual or petroleum contaminated soils application not allowed in the watershed
WS-II Water Supply	Water supplies in predominantly undeveloped watersheds	Only general permit wastewater discharges allowed in watershed	Local land management program required as per 15A NCAC 2B .0214; 6% built upon area in Critical Area; 12% built upon area in the Balance of the Watershed; up to 24% built upon area in the Critical Area and 30% in the Balance of the Watershed allowed with engineered stormwater controls for the 1" storm[3]	Buffers required along perennial waters; no new landfills allowed in the Critical Area and no new discharging landfills outside of Critical Area; no new residual or petroleum contaminated soils application allowed in the Critical Area
WS-III Water Supply	Water supplies in low to moderately developed watersheds	General permits allowed throughout watershed; domestic and non-process industrial discharges allowed outside of the Critical Area	Local land management program required as per 15A NCAC 2B .0215; 12% built upon area in Critical Area; 24% built upon area outside of Critical Area; up to 30% in Critical Area and 50% built upon area outside Critical Area allowed with engineered stormwater controls for the 1" storm[3]	Buffers required along perennial waters; no new landfills allowed in the Critical Area and no new discharging landfills outside of the Critical Area; no new residual or petroleum contaminated soils application allowed in the Critical Area

SUMMARY OF NORTH CAROLINA'S WATER QUALITY CLASSIFICATIONS AND STANDARDS (continued)

PRIMARY CLASSIFICATIONS	BEST USAGE	DISCHARGE RESTRICTIONS[1]	STORMWATER MANAGEMENT	OTHER REQUIREMENTS[2]
WS-IV Water Supply	Water supplies in moderately to highly developed watersheds	General permits, domestic and industrial discharges allowed throughout watershed[4]	Local land management program required as per 15A NCAC 2B .0216: 24% built upon area in Critical Area and Protected Area [5,6]; up to 50% in Critical Area and 70% built upon area outside Critical Area with engineered stormwater controls for the 1" storm[3]	Buffers required along perennial waters; no new landfills allowed in the Critical Area; no new residual or petroleum contaminated soils application allowed in the Critical Area
WS-V Water Supply	Former or industrial use water supplies	No categorical restrictions on development or wastewater dischargers	Stormwater Management Rules apply in the 20 coastal counties as described in 15A NCAC 2H .1000	Instream water quality standards for water supply waters are applicable

NOTES: Please refer to 15A NCAC 2B .0101, .0104, .0202, .0211 and .0301 for more specific requirements for surface water supply protection.

1 Groundwater remediation discharges allowed when no alternative exists.

2 See attached tables: *Water Quality Standards for Freshwater Classes* and *Water Quality Standards for Saltwater Classes* for numeric standards associated with specific classes.

3 If the high density option is utilized engineered stormwater control systems must be designed for 85% TSS removal. Refer to Stormwater Management Rules (15 A NCAC 2H .1000) for specific design information.

4 New industrial process wastewater discharges in the Critical Area are allowed but must meet additional treatment requirements.

5 Applies to projects requiring an Erosion/Sedimentation Control Plan.

6 36% built-upon area is allowed for projects without a curb and gutter street system in the Protected Area.

- Critical area is 1/2 mile and draining to water supplies from normal pool elevation of reservoirs, or 1/2 mile and draining to a river intake.
- Protected Area is 5 miles and draining to water supplies from normal pool elevation of reservoirs, or 10 miles upstream of and draining to a river intake.
- Agricultural activities are subject to provisions of the Food Security Act of 1985 and the Food, Agriculture, Conservation and Trade Act of 1990. In WS-I watersheds and Critical Areas of WS-II, WS-III and WS-IV areas, agricultural activities must maintain a 10 foot vegetated buffer or equivalent control as determined by the Soil and Water Conservation Commission.
- Silviculture activities are subject to the provisions of the Forest Practices Guidelines Related to Water Quality (15A NCAC 1I .0101-.0209).
- The Department of Transportation must use BMPs as described in their document, "Best Management Practices for Protection of Surface Waters".

SUMMARY OF NORTH CAROLINA'S WATER QUALITY CLASSIFICATIONS AND STANDARDS (continued)

PRIMARY CLASSIFICATIONS	BEST USAGE	DISCHARGE RESTRICTIONS	STORMWATER MANAGEMENT	OTHER REQUIREMENTS
Saltwater:				
SC	Saltwaters protected for secondary recreation, aquatic life propagation and survival and other uses as described for Class C	Domestic and industrial wastewater discharges allowed	Stormwater Management Rules (15A NCAC 2H .1000) apply to all waters in the 20 coastal counties; low density option: 30% built upon area or structural stormwater controls with higher density, as specified	
SB	Saltwaters protected for primary recreation and all Class SC uses (similar to Class B)	Same as Class SC; wastewater treatment reliability requirements (dual train design; backup power capability) may apply to protect swimming uses (15A NCAC 2H .0124)	Same as for Class SC	
SA	Shellfishing and all Class SC and SB uses	No domestic discharges and only non-process industrial discharges such as seafood packing houses or cooling water discharges	Same as for Class SC except low density option is 25% built upon area	

Supplemental Classifications are added to the primary classifications as appropriate (Examples include Class C-NSW, Class SA-ORW, Class B-Trout, etc.) and impose additional requirements.

SUPPLEMENTAL CLASSIFICATIONS	BEST USAGE	DISCHARGE RESTRICTIONS	STORMWATER MANAGEMENT	OTHER REQUIREMENTS
HQW High Quality Waters	Waters rated as Excellent by DEM; Primary Nursery Areas; Native or Special Native Trout Waters; WS-I, WS-II and SA waters are HQW by definition	For new or expanded discharges advanced treatment requirements are: BOD_5=5 mg/l; NH_3-N= 2 mg/l; DO=6 mg/l	For projects requiring Erosion/ Sedimentation Control Plan and that are within 1 mile and draining to HQW waters: 12% built upon area or higher density with engineered structural controls allowed; WS-I, WS-II and 20 coastal counties exempt since stormwater control requirements already apply	Other treatment requirements may apply, dependent upon type of discharge and characteristics of receiving waters (see Antidegradation Policy: Rule 15A: NCAC 2B .0201)

SUMMARY OF NORTH CAROLINA'S WATER QUALITY CLASSIFICATIONS AND STANDARDS (continued)

SUPPLEMENTAL CLASSIFICATIONS	BEST USAGE	DISCHARGE RESTRICTIONS	STORMWATER MANAGEMENT	OTHER REQUIREMENTS
ORW Outstanding Resource Waters	Unique and special waters having exceptional water quality and being of an exceptional state or national ecological or recreational significance; must meet other conditions and have 1 or more of 5 outstanding resource value criteria as described in Rule 15A NCAC 2B .0225	Water quality must clearly maintain and protect uses, including outstanding resource values; management strategies must include at a minimum: no new or expanded discharges to freshwater ORWs; some discharges may be allowed in coastal areas	Same as for High Quality Waters for Freshwater ORWs; for Saltwater ORWs, development activities within a 575' buffer must comply with the low density option of the Stormwater Management Rules (generally 25% built upon area around SA waters and 30% around other waters)	Other management strategy components as described in 15A NCAC 2B .0225
TR Trout Waters	Protected for natural trout propagation and survival of stocked trout	Domestic and industrial wastewater discharges allowed with stricter treatment requirements		More protective standards for cadmium, total residual chlorine, chlorophyll-a, dissolved oxygen, turbidity and toluene to protect these sensitive species
NSW Nutrient Sensitive Waters	Waters needing additional nutrient management due to their being subject to excessive growth of microscopic and macroscopic vegetation	No increase of nutrients over background levels permitted; domestic and industrial wastewater discharges allowed	Nutrient management strategies developed on a case-by-case basis	Nutrient management strategies developed on a case-by-case basis
SW Swamp Waters	Waters with low velocities and other characteristics different from other waterbodies (generally, low pH, DO, high organic content)			pH as low as 4.3 and DO less than 5 mg/l allowed if due to natural conditions
FWS Future Water Supply	Waters designated for future water supply use	Discharge restrictions will be reflective of those of primary water supply classification	Stormwater management options will be reflective of those of primary water supply classification; not required until after FWS supplemental classification is removed	Requirements for landfill permits, NPDES wastewater discharges, land application of residuals and road construction activities in Critical Area and Balance of Watershed or Protected Area as appropriate (15A NCAC 2H .0101)

Water Quality Standards For Freshwater Classifications

April 1, 1996

Parameters (ug/l unless noted)	Standards for All Freshwater * Aquatic Life	Human Health[1]	Standards to Support Additional Uses WS Classes[2]	Trout Waters	HQW	Swamp Waters
Arsenic	50					
Barium			1000			
Benzene		71.4	1.19			
Beryllium	6.5	0.117	0.0068			
Cadmium	2.0			0.4		
Carbon tetrachloride		4.42	0.254			
Chloride	230000 (AL)		250000			
Chlorinated benzenes			488 (N)			
Chlorine, total residual	17 (AL)			17		
Chlorophyll a, corrected	40 (N)			15 (N)		
Chromium, total	50					
Coliform, total (MFTCC/100ml)[3]			50 (N)[4]			
Coliform, fecal (MFFCC/100ml)[3]		200 (N)				
Copper, total	7 (AL)					
Cyanide	5.0					
Dioxin		0.000000014	0.000000013			
Dissolved gases	(N)					
Dissolved oxygen (mg/l)	5.0[5]			6.0		(N)[6]
Fluoride	1800					
Hardness, total (mg/l)			100			
Hexachlorobutadiene		49.7	0.445			
Iron (mg/l)	1 (AL)					
Lead	25 (N)					
Manganese			200			
MBAS (Methylene-Blue-Active-Substances)	500					
Mercury	0.012					
Nickel	88		25			
Nitrate nitrogen			10			
Pesticides						
Aldrin	0.002	0.000136	0.000127			
Chlordane	0.004	0.000588	0.000575			
DDT	0.001	0.000591	0.000588			
Demeton	0.1					
Dieldrin	0.002	0.000144	0.000135			
Endosulfan	0.05					
Endrin	0.002					
Guthion	0.01					
Heptachlor	0.004	0.000214	0.000208			
Lindane	0.01					
Methoxychlor	0.03					
Mirex	0.001					
Parathion	0.013					
Toxaphene	0.0002					
2,4-D			100			
2,4,5-TP (Silvex)			10			
pH (units)	6.0-9.0					(N)[6]
Phenolic compounds		(N)	1.0 (N)			
Polychlorinated biphenyls[7]	0.001	0.000079				
Polynuclear aromatic hydrocarbons [8]		0.0311	0.0028			
Radioactive substances		(N)				
Selenium	5					
Silver	0.06 (AL)					
Solids, total dissolved (mg/l)			500			
Solids, total suspended (mg/l)					10 Tr, 20 other	
Solids, settleable	(N)					
Sulfates			250000			
Temperature	(N)					
Tetrachloroethane (1,1,2,2)		10.8	0.172			
Tetrachloroethylene			0.8			
Toluene	11			0.36		
Toxic substances	(N)				(N)	
Trialkyltin	0.008					
Trichloroethylene		92.4	3.08			
Turbidity (NTU)	50; 25 (N)			10 (N)		
Vinyl chloride		525	2.0			
Zinc	50 (AL)					

* These standards apply to all freshwater classifications. For the protection of WS and supplemental classifications, standards listed under Standards to Support Additional Uses should be used unless standards for aquatic life or human health are listed and are more stringent.

(AL) Values represent action levels as specified in 2B .0211. WS Classes - Water Supply Classifications, same standards for all WS Classes,

(N) See 2B .0211 for narrative description of limits. HQW - High Quality Waters, standards for HQW areas only. Tr - Trout Waters.

1 Human health standards are based on consumption of fish only unless dermal contact studies available. See 2B .0208 for equation.

2 Water Supply standards are based on consumption of fish and water. See 2B .0208 for equation.

3 MFTCC/100ml means membrane filter total coliform count per 100 ml of sample. MFFCC/100ml means membrane filter fecal coliform count per 100 ml of sample.

4 Applies only to unfiltered water supplies.

5 An instantaneous reading may be as low as 4.0 mg/l, but the daily average must be 5.0 mg/l or more.

6 Designated swamp waters may have a dissolved oxygen less than 5.0 mg/l and a pH as low as 4.3, if due to natural conditions.

7 Applies to total PCBs present and includes PCB 1242, 1254, 1221, 1232, 1248, 1260, and 1016. See 2B .0208 & .0211.

8 Applies to total PAHs present and includes benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene. See 2B .0208, .0212, .0214, .0215, .0216, & .0218.

dmc\Macintosh HD:Desktop Folder:rules word:Old WQ Standards Table

Water Quality Standards For Saltwater Classifications

April 1, 1996

Parameters (ug/l unless noted)	Standards for All Saltwater: Aquatic Life	Standards for All Saltwater: Human Health[1]	Standards to Support Additional Uses: Class SA	Standards to Support Additional Uses: HQW	Standards to Support Additional Uses: Swamp Waters
Arsenic	50				
Benzene		71.4			
Beryllium		0.117			
Cadmium	5.0				
Carbon tetrachloride		4.42			
Chlorophyll *a*	40 (N)				
Chromium, total	20				
Coliform, fecal (MFFCC/100ml)[2]		200 (N)	14 (N)		
Copper	3 (AL)				
Cyanide	1.0				
Dioxin		0.000000014			
Dissolved gases	(N)				
Dissolved oxygen (mg/l)	5.0			6.0	(N)[3]
Hexachlorobutadiene		49.7			
Lead	25 (N)				
Mercury	0.025				
Nickel	8.3				
Pesticides					
Aldrin	0.003	0.000136			
Chlordane	0.004	0.000588			
DDT	0.001	0.000591			
Demeton	0.1				
Dieldrin	0.0002	0.000144			
Endosulfan	0.009				
Endrin	0.002				
Guthion	0.01				
Heptachlor	0.004	0.000214			
Lindane	0.004				
Methoxychlor	0.03				
Mirex	0.001				
Parathion	0.178				
Toxaphene	0.0002				
pH (units)	6.8-8.5				(N)[3]
Phenolic compounds		(N)			
Polychlorinated biphenyls[4]	0.001	0.000079			
Polynuclear aromatic hydrocarbons[5]	0.0311				
Radioactive substances		(N)			
Salinity	(N)				
Selenium	71				
Silver	0.1 (AL)				
Solids, total suspended (mg/l)				10 PNA, 20 other	
Solids, settleable (mg/l)	(N)				
Temperature	(N)				
Tetrachloroethane (1,1,2,2)		10.8			
Toxic substances	(N)			(N)	
Trialkyltin	0.002				
Trichloroethylene		92.4			
Turbidity (NTU)	25 (N)				
Vinyl chloride		525			
Zinc	86 (AL)				

(AL) Values represent action levels as specified in 2B .0220.
(N) See 2B .0220 for narrative description of limits.
HQW - High Quality Waters, standards for HQW areas only.
Class SA - shellfishing waters see 2B .0101 for description.
PNA - Primary Nursery Areas

1 Human health standards are based on consumption of fish only unless dermal contact studies are available. See 2B .0208 for equation.
2 MFFCC/100ml means membrane filter fecal coliform count per 100 ml of sample.
3 Designated swamp waters may have a dissolved oxygen less than 5.0 mg/l and a pH as low as 4.3, if due to natural conditions.
4 Applies to total PCBs present and includes PCB 1242, 1254, 1221, 1232, 1248, 1260, and 1016. See 2B .0208 & .0220.
5 Applies to total PAHs present and includes benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene. See 2B .0208.

dmr/Macintosh HD:Desktop Folder:rules word:old WQ Standards Table sw

Classification		Dischargers	Allowable Development W/O Stormwater, Low Density Opt.	Allowable Development W/ Stormwater, High Density Opt.	Required Control with High Density Opt.	10%/70% (5) Provision	Residuals Appl.	Landfills	Agriculture BMPs
WS-I	Watershed	None	None	None	None	None	None	None	(6) Required
WS-II	Critical Area	General Permits	(2) 1du/2ac or 6% built upon	6-24% built upon area	Control the 1" storm	Not allowed	No new sites	No new landfills	(6) Required
	Watershed	General Permits	1du/ac or 12% built upon	12-30% built upon area	Control the 1" storm	Allowed	Allowed	No new discharging landfills	(6) Not Required
WS-III	Critical Area	General Permits	1du/ac or 12% built upon	12-30% built upon area	Control the 1" storm	Not allowed	No new sites	No new landfills	(6) Required
	Watershed	Domestic & non-process industrial	2du/ac or 24% built upon	24-50% built upon area	Control the 1" storm	Allowed	Allowed	No new discharging landfills	(6) Not Required
WS-IV	Critical Area	Domestic & (1) industrial	(3) 2du/ac or 24% built upon	(3) 24-50% built upon area	Control the 1" storm	Not allowed	No new sites	No new landfills	(6) Required
	Protected Area	Domestic & industrial	(3,4) 2du/ac or 24% built upon	(3,4) 24-70% built upon area	Control the 1" storm	Allowed	Allowed	Allowed	(6) Not Required
WS-V	Watershed or River Segment	Domestic, Industrial	No categorical restrictions other than instream water quality standards applicable to all surface water supply waters.						

NOTE: Critical area is one-half mile and draining to water supplies from the normal pool elevation of reservoirs, or one-half mile and draining to a river intake.
Protected area is five miles and draining to water supplies from the normal pool elevation of reservoirs, or ten miles upstream of and draining to a river intake.
Municipal with pretreatment program (2H .0904) is considered industrial discharge.
Discharges qualifying for a General Permit pursuant to 2H .0127 will also be allowed in all areas of WS-III and WS-IV watersheds along with the allowed discharges noted in the table.
Buffers will be maintained around all perennial waters with a minimum width of thirty feet for low density development and a minimum one hundred foot buffer for high density development.
Groundwater remediation discharges may be allowed when no other practicable alternative exists.
Local governments will assume ultimate responsibility for operation and maintenance of stormwater controls.
(1) New industrial process wastewater discharges are allowed but will require additional treatment requirements.
(2) Residential development may apply dwelling units per acre or use percent built-upon surface area. Non-residential development must use percent built-upon surface area.
(3) Applies only to projects requiring a Sedimentation/Erosion Control Permit.
(4) One third acre lot or 36% built-upon area is allowed for projects without curb and gutter street systems.
(5) Allowed; can use 10% of jurisdiction for new development and expansions to existing development up to 70% built-upon area, without stormwater controls, if using low density option throughout remainder of water supply.
(6) In WS-I watersheds and critical areas of WS-II, WS-III and WS-IV watersheds, agricultural operations must maintain a 10 foot vegetated buffer, or equivalent control along all perennial streams. Animal operations deemed permitted and permitted are allowed in all water supply watersheds.

.0201 ANTIDEGRADATION POLICY

(a) It is the policy of the Environmental Management Commission to maintain, protect, and enhance water quality within the State of North Carolina. Pursuant to this policy, the requirements of 40 CFR 131.12 are hereby incorporated by reference including any subsequent amendments and editions. This material is available for inspection at the Department of Environment, Health, and Natural Resources, Division of Water Quality, Water Quality Section, 512 North Salisbury Street, Raleigh, North Carolina. Copies may be obtained from the U.S. Government Printing Office, Superintendent of Documents, Washington, DC 20402-9325 at a cost of thirteen dollars ($13.00). These requirements shall be implemented in North Carolina as set forth in Paragraphs (b), (c), (d), (e) and (f) of this Rule.

(b) Existing uses, as defined by Rule .0202 of this Section, and the water quality to protect such uses shall be protected by properly classifying surface waters and having standards sufficient to protect these uses. In cases where the Commission or its designee determines that an existing use is not included in the classification of waters, a project which shall affect these waters shall not be permitted unless the existing uses are protected.

(c) The Commission shall consider the present and anticipated usage of waters with quality higher than the standards, including any uses not specified by the assigned classification (such as outstanding national resource waters or waters of exceptional water quality) and shall not allow degradation of the quality of waters with quality higher than the standards below the water quality necessary to maintain existing and anticipated uses of those waters. Waters with quality higher than the standards are defined by Rule .0202 of this Section. The following procedures shall be implemented in order to meet these requirements:

(1) Each applicant for an NPDES permit or NPDES permit expansion to discharge treated waste shall document an effort to consider non-discharge alternatives pursuant to 15A NCAC 2H .0105(c)(2).

(2) Public Notices for NPDES permits shall list parameters that would be water quality limited and state whether or not the discharge shall use the entire available load capacity of the receiving waters and may cause more stringent water quality based effluent limitations to be established for dischargers downstream.

(3) The Division may require supplemental documentation from the affected local government that a proposed project or parts of the project are necessary for important economic and social development.

(4) The Commission and Division shall work with local governments on a voluntary basis to identify and develop appropriate management strategies or classifications for waters with unused pollutant loading capacity to accommodate future economic growth.

Waters with quality higher than the standards shall be identified by the Division on a case-by-case basis through the NPDES permitting and waste load allocation processes (pursuant to the provisions of 15A NCAC 2H .0100). Dischargers affected by the requirements of Paragraphs (c)(1) through (c)(4) of this Rule and the public at large shall be notified according to the provisions described herein, and all other appropriate provisions pursuant to 15A NCAC 2H .0109. If an applicant objects to the requirements to protect waters with quality higher than the standards and believes degradation is necessary to accommodate important social and economic development, the applicant may contest these requirements according to the provisions of General Statute 143-215.1(e) and 150B-23.

(d) The Commission shall consider the present and anticipated usage of High Quality Waters (HQW), including any uses not specified by the assigned classification (such as outstanding national resource waters or waters of exceptional water quality) and shall not allow degradation of the quality of High Quality Waters below the water quality necessary to maintain existing and anticipated uses of those waters. High Quality Waters are a subset of waters with quality higher than the standards and are as described by 15A NCAC 2B .0101(e)(5). The procedures described in Rule .0224 of this Section shall be implemented in order to meet the requirements of this part.

(e) Outstanding Resource Waters (ORW) are a special subset of High Quality Waters with unique and special characteristics as described in Rule .0225 of this Section. The water quality of waters classified as ORW shall be maintained such that existing uses, including the outstanding resource values of said Outstanding Resource Waters, shall be maintained and protected.

(f) Activities regulated under Section 404 of the Clean Water Act (33 U.S.C. 1344) which require a water quality certification as described in Section 401 of the Clean Water Act (33 U.S.C. 1341) shall be evaluated according to the procedures outlined in 15A NCAC 2H .0500. Activities which receive a water quality certification pursuant to these procedures shall not be considered to remove existing uses. The evaluation of permits issued pursuant to G.S. 143-215.1 that involve the assimilation of wastewater or stormwater by wetlands shall incorporate the criteria found in 15A NCAC 2H .0506(c) (1)-(5) in determining the potential impact of the proposed activity on the existing uses of the wetland per 15A NCAC 2H .0231.

History Note: *Authority G.S. 143-214.1; 143-215.1; 143-215.3(a)(1);*
Eff. February 1, 1976;

Amended Eff. October 1, 1995; February 1, 1993; April 1,1991; August 1, 1990; RRC Objection Eff. July 18, 1996 due to lack of statutory authority and ambiguity; Amended Eff. October 1, 1996.

.0223 NUTRIENT SENSITIVE WATERS

(a) In addition to existing classifications, the Commission may classify any surface waters of the state as nutrient sensitive waters (NSW) upon a finding that such waters are experiencing or are subject to excessive growths of microscopic or macroscopic vegetation. Excessive growths are growths which the Commission in its discretion finds to substantially impair the use of the water for its best usage as determined by the classification applied to such waters.

(b) NSW may include any or all waters within a particular river basin as the Commission deems necessary to effectively control excessive growths of microscopic or macroscopic vegetation.

(c) For the purpose of this Rule, the term "nutrients" shall mean phosphorous or nitrogen. When considering the assignment of this classification, the Commission may specify as a "nutrient" any other chemical parameter or combination of parameters which it determines to be essential for the growth of microscopic and macroscopic vegetation.

(d) Those waters additionally classified as nutrient sensitive shall be identified in the appropriate schedule of classifications as referenced in Section .0300 of this Subchapter.

(e) For the purpose of this Rule, the term "background levels" shall mean the concentration(s), taking into account seasonal variations, of the specific nutrient or nutrients upstream of a nutrient source.

(f) Quality standards applicable to NSW: no increase in nutrients over background levels unless it is shown to the satisfaction of the Director that the increase:

(1) is the result of natural variations; or

(2) will not endanger human health, safety or welfare and that preventing the increase would cause a serious economic hardship without equal or greater benefit to the public.

History Note: Authority G.S. 143-214.1; Eff. October 1, 1995.

.0224 HIGH QUALITY WATERS

High Quality Waters (HQW) are a subset of waters with quality higher than the standards and are as described by 15A NCAC 2B .0101(e)(5). The following procedures shall be implemented in order to implement the requirements of Rule .0201(d) of this Section.

(1) New or expanded wastewater discharges in High Quality Waters shall comply with the following:

(a) Discharges from new single family residences shall be prohibited. Those existing subsurface systems for single family residences which fail and must discharge shall install a septic tank, dual or recirculating sand filters, disinfection and step aeration.

(b) All new NPDES wastewater discharges (except single family residences) shall be required to provide the treatment described below:

(i) Oxygen Consuming Wastes: Effluent limitations shall be as follows: BOD_5= 5 mg/l, NH_3-N = 2 mg/l and DO = 6 mg/l. More stringent limitations shall be set, if necessary, to ensure that the cumulative pollutant discharge of oxygen-consuming wastes shall not cause the DO of the receiving water to drop more than 0.5 mg/l below background levels, and in no case below the standard. Where background information is not readily available, evaluations shall assume a percent saturation determined by staff to be generally applicable to that hydroenvironment.

(ii) Total Suspended Solids: Discharges of total suspended solids (TSS) shall be limited to effluent concentrations of 10 mg/l for trout waters and PNA's, and to 20 mg/l for all other High Quality Waters.

(iii) Disinfection: Alternative methods to chlorination shall be required for discharges to trout streams, except that single family residences may use chlorination if other options are not economically feasible. Domestic discharges are prohibited to SA waters.

(iv) Emergency Requirements: Failsafe treatment designs shall be employed, including stand-by power capability for entire treatment works, dual train design for all treatment components, or

equivalent failsafe treatment designs.

(v) Volume: The total volume of treated wastewater for all discharges combined shall not exceed 50 percent of the total instream flow under 7Q10 conditions.

(vi) Nutrients: Where nutrient overenrichment is projected to be a concern, appropriate effluent limitations shall be set for phosphorus or nitrogen, or both.

(vii) Toxic substances: In cases where complex wastes (those containing or potentially containing toxicants) may be present in a discharge, a safety factor shall be applied to any chemical or whole effluent toxicity allocation. The limit for a specific chemical constituent shall be allocated at one-half of the normal standard at design conditions. Whole effluent toxicity shall be allocated to protect for chronic toxicity at an effluent concentration equal to twice that which is acceptable under design conditions. In all instances there may be no acute toxicity in an effluent concentration of 90 percent. Ammonia toxicity shall be evaluated according to EPA guidelines promulgated in "Ambient Water Quality Criteria for Ammonia - 1984"; EPA document number 440/5-85-001; NTIS number PB85-227114; July 29, 1985 (50 FR 30784) or "Ambient Water Quality Criteria for Ammonia (Saltwater) - 1989"; EPA document number 440/5-88-004; NTIS number PB89-169825. This material related to ammonia toxicity is hereby incorporated by reference including any subsequent amendments and editions and is available for inspection at the Department of Environment, Health, and Natural Resources Library, 512 North Salisbury Street, Raleigh, North Carolina. Copies may be obtained from the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22161 at a cost of forty-seven dollars ($47.00).

(c) All expanded NPDES wastewater discharges in High Quality Waters shall be required to provide the treatment described in Sub-Item (1)(b) of this Rule, except for those existing discharges which expand with no increase in permitted pollutant loading.

(2) Development activities which require an Erosion and Sedimentation Control Plan in accordance with rules established by the NC Sedimentation Control Commission or local erosion and sedimentation control program approved in accordance with 15A NCAC 4B .0218, and which drain to and are within one mile of High Quality Waters (HQW) shall be required to follow the stormwater management rules as specified in 15A NCAC 2H .1000. Stormwater management requirements specific to HQW are described in 15A NCAC 2H .1006.

If an applicant objects to the requirements to protect high quality waters and believes degradation is necessary to accommodate important social and economic development, the applicant may contest these requirements according to the provisions of G.S. 143-215.1(e) and 150B-23.

History Note: *Authority G.S. 143-214.1; 143-215.1; 143-215.3(a)(1);*
Eff. October 1, 1995;
Amended Eff. April 1, 1996.

.0225 OUTSTANDING RESOURCE WATERS

(a) General. In addition to the existing classifications, the Commission may classify certain unique and special surface waters of the state as outstanding resource waters (ORW) upon finding that such waters are of exceptional state or national recreational or ecological significance and that the waters have exceptional water quality while meeting the following conditions:

(1) there are no significant impacts from pollution with the water quality rated as excellent based on physical, chemical or biological information;

(2) the characteristics which make these waters unique and special may not be protected by the assigned narrative and numerical water quality standards.

(b) Outstanding Resource Values. In order to be classified as ORW, a water body must exhibit one or more of the following values or uses to demonstrate it is of exceptional state or national recreational or ecological significance:

(1) there are outstanding fish (or commercially important aquatic species) habitat and fisheries;

(2) there is an unusually high level of water-based recreation or the potential for such recreation;

(3) the waters have already received some special designation such as a North Carolina or National Wild and Scenic River, Native or Special Native Trout Waters, National Wildlife Refuge, etc, which do not provide any

water quality protection;

(4) the waters represent an important component of a state or national park or forest; or

(5) the waters are of special ecological or scientific significance such as habitat for rare or endangered species or as areas for research and education.

(c) Quality Standards for ORW.

(1) Freshwater: Water quality conditions shall clearly maintain and protect the outstanding resource values of waters classified ORW. Management strategies to protect resource values shall be developed on a site specific basis during the proceedings to classify waters as ORW. At a minimum, no new discharges or expansions of existing discharges shall be permitted, and stormwater controls for all new development activities requiring an Erosion and Sedimentation Control Plan in accordance with rules established by the NC Sedimentation Control Commission or an appropriate local erosion and sedimentation control program shall be required to follow the stormwater provisions as specified in 15A NCAC 2H .1000. Specific stormwater requirements for ORW areas are described in 15A NCAC 2H .1007.

(2) Saltwater: Water quality conditions shall clearly maintain and protect the outstanding resource values of waters classified ORW. Management strategies to protect resource values shall be developed on a site-specific basis during the proceedings to classify waters as ORW. At a minimum, new development shall comply with the stormwater provisions as specified in 15A NCAC 2H .1000. Specific stormwater management requirements for saltwater ORWs are described in 15A NCAC 2H .1007. New non-discharge permits shall meet reduced loading rates and increased buffer zones, to be determined on a case-by-case basis. No dredge or fill activities shall be allowed where significant shellfish or submerged aquatic vegetation bed resources occur, except for maintenance dredging, such as that required to maintain access to existing channels and facilities located within the designated areas or maintenance dredging for activities such as agriculture. A public hearing is mandatory for any proposed permits to discharge to waters classified as ORW.

Additional actions to protect resource values shall be considered on a site specific basis during the proceedings to classify waters as ORW and shall be specified in Paragraph (e) of this Rule. These actions may include anything within the powers of the commission. The commission shall also consider local actions which have been taken to protect a water body in determining the appropriate state protection options. Descriptions of boundaries of waters classified as ORW are included in Paragraph (e) of this Rule and in the Schedule of Classifications (15A NCAC 2B .0302 through .0317) as specified for the appropriate river basin and shall also be described on maps maintained by the Division of Environmental Management.

(d) Petition Process. Any person may petition the Commission to classify a surface water of the state as an ORW. The petition shall identify the exceptional resource value to be protected, address how the water body meets the general criteria in Paragraph (a) of this Rule, and the suggested actions to protect the resource values. The Commission may request additional supporting information from the petitioner. The Commission or its designee shall initiate public proceedings to classify waters as ORW or shall inform the petitioner that the waters do not meet the criteria for ORW with an explanation of the basis for this decision. The petition shall be sent to:

Director
DEHNR/Division of Environmental Management
~~P.O. Box 29535~~
Raleigh, North Carolina 27626-0535

The envelope containing the petition shall clearly bear the notation: RULE-MAKING PETITION FOR ORW CLASSIFICATION.

(e) Listing of Waters Classified ORW with Specific Actions. Waters classified as ORW with specific actions to protect exceptional resource values are listed as follows:

(1) Roosevelt Natural Area [White Oak River Basin, Index Nos. 20-36-9.5-(1) and 20-36-9.5-(2)] including all fresh and saline waters within the property boundaries of the natural area shall have only new development which complies with the low density option in the stormwater rules as specified in 15A NCAC 2H .1005(2)(a) within 575 feet of the Roosevelt Natural Area (if the development site naturally drains to the Roosevelt Natural Area).

(2) Chattooga River ORW Area (Little Tennessee River Basin and Savannah River Drainage Area): the following undesignated waterbodies that are tributary to ORW designated segments shall comply with Paragraph (c) of this Rule in order to protect the designated waters as per Rule .0203 of this Section. However, expansions of existing discharges to these segments shall be allowed if there is no increase in pollutant loading:

(A) North and South Fowler Creeks,
(B) Green and Norton Mill Creeks,
(C) Cane Creek,
(D) Ammons Branch,
(E) Glade Creek, and
(F) Associated tributaries.

(3) Henry Fork ORW Area (Catawba River Basin): the following undesignated waterbodies that are tributary to ORW designated segments shall comply with Paragraph (c) of this Rule in order to protect the designated waters as per Rule .0203 of this Section:
(A) Ivy Creek,
(B) Rock Creek, and
(C) Associated tributaries.

(4) South Fork New and New Rivers ORW Area [New River Basin (Index Nos. 10-1-33.5 and 10)]: the following management strategies, in addition to the discharge requirements specified in Subparagraph (c)(1) of this Rule, shall be applied to protect the designated ORW areas:
(A) Stormwater controls described in Subparagraph (c)(1) of this Rule shall apply within one mile and draining to the designated ORW areas;
(B) New or expanded NPDES permitted wastewater discharges located upstream of the designated ORW shall be permitted such that the following water quality standards are maintained in the ORW segment:
(i) the total volume of treated wastewater for all upstream discharges combined shall not exceed 50 percent of the total instream flow in the designated ORW under 7Q10 conditions;
(ii) a safety factor shall be applied to any chemical allocation such that the effluent limitation for a specific chemical constituent shall be the more stringent of either the limitation allocated under design conditions (pursuant to 15A NCAC 2B .0206) for the normal standard at the point of discharge, or the limitation allocated under design conditions for one-half the normal standard at the upstream border of the ORW segment;
(iii) a safety factor shall be applied to any discharge of complex wastewater (those containing or potentially containing toxicants) to protect for chronic toxicity in the ORW segment by setting the whole effluent toxicity limitation at the higher (more stringent) percentage effluent determined under design conditions (pursuant to 15A NCAC 2B .0206) for either the instream effluent concentration at the point of discharge or twice the effluent concentration calculated as if the discharge were at the upstream border of the ORW segment;
(C) New or expanded NPDES permitted wastewater discharges located upstream of the designated ORW shall comply with the following:
(i) Oxygen Consuming Wastes: Effluent limitations shall be as follows: BOD = 5 mg/l, and NH3-N = 2 mg/l;
(ii) Total Suspended Solids: Discharges of total suspended solids (TSS) shall be limited to effluent concentrations of 10 mg/l for trout waters and to 20 mg/l for all other waters;
(iii) Emergency Requirements: Failsafe treatment designs shall be employed, including stand-by power capability for entire treatment works, dual train design for all treatment components, or equivalent failsafe treatment designs;
(iv) Nutrients: Where nutrient overenrichment is projected to be a concern, appropriate effluent limitations shall be set for phosphorus or nitrogen, or both.

(5) Old Field Creek (New River Basin): the undesignated portion of Old Field Creek (from its source to Call Creek) shall comply with Paragraph (c) of this Rule in order to protect the designated waters as per Rule .0203 of this Section.

(6) In the following designated waterbodies, no additional restrictions shall be placed on new or expanded marinas. The only new or expanded NPDES permitted discharges that shall be allowed shall be non-domestic, non-process industrial discharges. The Alligator River Area (Pasquotank River Basin) extending from the source of the Alligator River to the U.S. Highway 64 bridge including New Lake Fork, North West Fork Alligator River, Juniper Creek, Southwest Fork Alligator River, Scouts Bay, Gum Neck Creek, Georgia Bay, Winn Bay, Stumpy Creek Bay, Stumpy Creek, Swann Creek (Swann Creek Lake), Whipping Creek (Whipping Creek Lake), Grapevine Bay, Rattlesnake Bay, The Straits, The Frying Pan, Coopers Creek, Babbitt Bay, Goose Creek, Milltail Creek, Boat Bay, Sandy Ridge Gut (Sawyer Lake) and Second Creek, but excluding the Intracoastal Waterway (Pungo River-Alligator River Canal) and all other

tributary streams and canals.

(7) In the following designated waterbodies, the only type of new or expanded marina that shall be allowed shall be those marinas located in upland basin areas, or those with less than 30 slips, having no boats over 21 feet in length and no boats with heads. The only new or expanded NPDES permitted discharges that shall be allowed shall be non-domestic, non-process industrial discharges.

(A) The Northeast Swanquarter Bay Area including all waters northeast of a line from a point at Lat. 35° 23' 51" and Long. 76° 21' 02" thence southeast along the Swanquarter National Wildlife Refuge hunting closure boundary (as defined by the 1935 Presidential Proclamation) to Drum Point.

(B) The Neuse-Southeast Pamlico Sound Area (Southeast Pamlico Sound Section of the Southeast Pamlico, Core and Back Sound Area); (Neuse River Basin) including all waters within an area defined by a line extending from the southern shore of Ocracoke Inlet northwest to the Tar-Pamlico River and Neuse River basin boundary, then southwest to Ship Point.

(C) The Core Sound Section of the Southeast Pamlico, Core and Back Sound Area (White Oak River Basin), including all waters of Core Sound and its tributaries, but excluding Nelson Bay, Little Port Branch and Atlantic Harbor at its mouth, and those tributaries of Jarrett Bay that are closed to shellfishing.

(D) The Western Bogue Sound Section of the Western Bogue Sound and Bear Island Area (White Oak River Basin) including all waters within an area defined by a line from Bogue Inlet to the mainland at SR 1117 to a line across Bogue Sound from the southwest side of Gales Creek to Rock Point, including Taylor Bay and the Intracoastal Waterway.

(E) The Stump Sound Area (Cape Fear River Basin) including all waters of Stump Sound and Alligator Bay from marker Number 17 to the western end of Permuda Island, but excluding Rogers Bay, the Kings Creek Restricted Area and Mill Creek.

(F) The Topsail Sound and Middle Sound Area (Cape Fear River Basin) including all estuarine waters from New Topsail Inlet to Mason Inlet, including the Intracoastal Waterway and Howe Creek, but excluding Pages Creek and Futch Creek.

(8) In the following designated waterbodies, no new or expanded NPDES permitted discharges and only new or expanded marinas with less than 30 slips, having no boats over 21 feet in length and no boats with heads shall be allowed.

(A) The Swanquarter Bay and Juniper Bay Area (Tar-Pamlico River Basin) including all waters within a line beginning at Juniper Bay Point and running south and then west below Great Island, then northwest to Shell Point and including Shell Bay, Swanquarter and Juniper Bays and their tributaries, but excluding all waters northeast of a line from a point at Lat. 35° 23' 51" and Long. 76° 21' 02" thence southeast along the Swanquarter National Wildlife Refuge hunting closure boundary (as defined by the 1935 Presidential Proclamation) to Drum Point and also excluding the Blowout Canal, Hydeland Canal, Juniper Canal and Quarter Canal.

(B) The Back Sound Section of the Southeast Pamlico, Core and Back Sound Area (White Oak River Basin) including that area of Back Sound extending from Core Sound west along Shackleford Banks, then north to the western most point of Middle Marshes and along the northwest shore of Middle Marshes (to include all of Middle Marshes), then west to Rush Point on Harker's Island, and along the southern shore of Harker's Island back to Core Sound.

(C) The Bear Island Section of the Western Bogue Sound and Bear Island Area (White Oak River Basin) including all waters within an area defined by a line from the western most point on Bear Island to the northeast mouth of Goose Creek on the mainland, east to the southwest mouth of Queen Creek, then south to green marker No. 49, then northeast to the northern most point on Huggins Island, then southeast along the shoreline of Huggins Island to the southeastern most point of Huggins Island, then south to the northeastern most point on Dudley Island, then southwest along the shoreline of Dudley Island to the eastern tip of Bear Island.

(D) The Masonboro Sound Area (Cape Fear River Basin) including all waters between the Barrier Islands and the mainland from Carolina Beach Inlet to Masonboro Inlet.

(9) Black and South Rivers ORW Area (Cape Fear River Basin) [Index Nos. 18-68-(0.5), 18-68-(3.5), 18-68-(11.5), 18-68-12-(0.5), 18-68-12-(11.5), and 18-68-2]: the following management strategies, in addition to the discharge requirements specified in Subparagraph (c)(1) of this Rule, shall be applied to protect the designated ORW areas:

(A) Stormwater controls described in Subparagraph (c)(1) of this Rule shall apply within one mile and

draining to the designated ORW areas;

(B) New or expanded NPDES permitted wastewater discharges located one mile upstream of the stream segments designated ORW (upstream on the designated mainstem and upstream into direct tributaries to the designated mainstem) shall comply with the following discharge restrictions:

(i) Oxygen Consuming Wastes: Effluent limitations shall be as follows: BOD = 5 mg/l and NH3-N = 2 mg/l;

(ii) Total Suspended Solids: Discharges of total suspended solids (TSS) shall be limited to effluent concentrations of 20 mg/l;

(iii) Emergency Requirements: Failsafe treatment designs shall be employed, including stand-by power capability for entire treatment works, dual train design for all treatment components, or equivalent failsafe treatment designs;

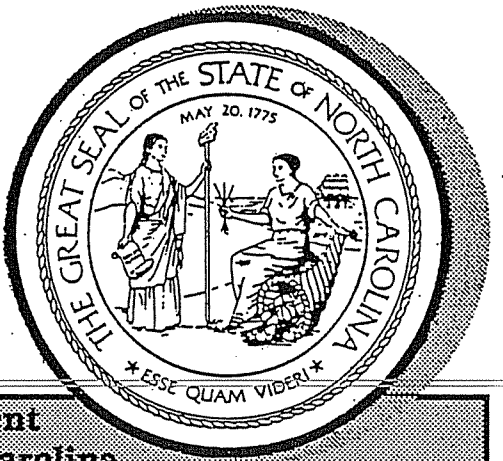
(iv) Nutrients: Where nutrient overenrichment is projected to be a concern, appropriate effluent limitations shall be set for phosphorus or nitrogen, or both.

(v) Toxic substances: In cases where complex discharges (those containing or potentially containing toxicants) may be currently present in the discharge, a safety factor shall be applied to any chemical or whole effluent toxicity allocation. The limit for a specific chemical constituent shall be allocated at one-half of the normal standard at design conditions. Whole effluent toxicity shall be allocated to protect for chronic toxicity at an effluent concentration equal to twice that which is acceptable under flow design criteria (pursuant to 15A NCAC 2B .0206).

History Note: *Authority G.S. 143-214.1;*
Eff. October 1, 1995;
Amended Eff. April 1, 1996; January 1, 1996.

STATE OF
NORTH CAROLINA
DEPARTMENT OF
ENVIRONMENT, HEALTH,
AND NATURAL RESOURCES

Classifications and Water Quality Standards Assigned to The Waters of the Hiwassee River Basin



Division of Environmental Management
Raleigh, North Carolina

Reprint from North Carolina Administrative Code: 15A NCAC 2B .0302
Current through: February 1, 1993

.0302 HIWASSEE RIVER BASIN

Name of Stream	Description	Classification Class	Classification Date	Classification Index No.
HIWASSEE RIVER (Chatuge Lake below elevation 1928)	From North Carolina-Georgia State line to Chatuge Dam	B	7/1/61	1-(1)
Bell Creek	From source to North Carolina-Georgia State Line	C Tr	3/1/77	1-2
Upper Bell Creek	From source to North Carolina-Georgia State Line	C	7/1/61	1-2-1
Wood Creek	From source to North Carolina-Georgia State Line	C	7/1/61	1-3
Sneaking Creek	From source to North Carolina-Georgia State Line	C	7/1/61	1-4
Shooting Creek	From source to Chatuge Lake	C Tr	7/1/61	1-5
Muskrat Branch	From source to Shooting Creek	C Tr	7/1/73	1-5-1
Jake Branch	From source to Muskrat Branch	C Tr	7/1/73	1-5-1-1
Thompson Creek	From source to Shooting Creek	C	7/1/61	1-5-2
Locust Log Branch	From source to Thompson Creek	C	7/1/61	1-5-2-1
Mill Creek	From source to Shooting Creek	C Tr	7/1/73	1-5-3
Lynch Branch	From source to Shooting Creek	C	7/1/61	1-5-4
Vineyard Creek	From source to Shooting Creek	C Tr	7/1/73	1-5-5
Eagle Fork Creek	From source to Shooting Creek	C Tr	7/1/73	1-5-6
Ledford Creek	From source to Eagle Fork Creek	C Tr	7/1/73	1-5-6-1
Dave Barrett Creek	From source to Eagle Fork Creek	C Tr	7/1/73	1-5-6-2
Barrett Branch	From source to Dave Barrett Creek	C	7/1/61	1-5-6-2-1
Loggy Branch	From source to Dave Barrett Creek	C	7/1/61	1-5-6-2-2
Thumping Creek	From source to Eagle Fork Creek	C Tr	7/1/73	1-5-6-3
Giesky Creek	From source to Shooting Creek	C Tr	7/1/73	1-5-7
Bethabara Creek	From source to Giesky Creek	C Tr	7/1/73	1-5-7-1
Stillhouse Branch	From North Carolina-Georgia State Line to Bethabara Creek	C Tr	7/1/73	1-5-7-1-0.5
Davenport Branch	From North Carolina-Georgia State Line to Bethabara Creek	C Tr	3/1/77	1-5-7-1-1
Lee Ledford Branch	From North Carolina-Georgia State Line to Davenport Branch	C Tr	3/1/77	1-5-7-1-1-1
Beech Flats Branch	From North Carolina-Georgia State Line to Davenport Branch	C Tr	3/1/77	1-5-7-1-1-2
Jane Rabun Branch	From North Carolina-Georgia State Line to Davenport Branch	C Tr	3/1/77	1-5-7-1-1-3
Nattie Branch	From source to Giesky Creek	C Tr	7/1/73	1-5-7-2
Burch Cove Branch	From source to Giesky Creek	C	7/1/61	1-5-7-3
Pounding Mill Creek	From source to Shooting Creek	C Tr	7/1/73	1-5-8
Copper Mine Branch	From source to Pounding Mill Creek	C	7/1/61	1-5-8-1
Hothouse Branch	From source to Shooting Creek	C Tr	7/1/73	1-5-9
Cherry Cove Branch	From source to Hothouse Branch	C	7/1/61	1-5-9-1
Rocking Chair Branch	From source to Chatuge Lake	C	7/1/61	1-6
Laurel Branch	From source to Chatuge Lake	C	7/1/61	1-7
Penland Branch	From source to Chatuge Lake	C	7/1/61	1-8
Needmore Branch	From source to Chatuge Lake	C	7/1/61	1-9
Licklog Creek	From source to Chatuge Lake	C	7/1/61	1-10

.0302 HIWASSEE RIVER BASIN

Name of Stream	Description	Classification Class	Date	Index No.
Stillhouse Branch	From source to Chatuge Lake	C	7/1/61	1-11
Patterson Branch	From source to Chatuge Lake	C	7/1/61	1-12
Crawford Branch	From source to Chatuge Lake	C	7/1/61	1-13
Byers Branch	From source to Chatuge Lake	C	7/1/61	1-14
HIWASSEE RIVER	From Chatuge Dam to Hyatt Mill Creek	C	7/1/61	1-(15)
Hyatt Mill Creek	From source to Hiwassee River	C	7/1/61	1-16
Coleman Creek	From source to Hyatt Mill Creek	C	7/1/61	1-16-1
HIWASSEE RIVER (Mission Reservoir)	From Hyatt Mill Creek to a point 0.6 mile upstream of mouth of McComb Branch	WS-IV	8/3/92	1-(16.5)
Blair Creek	From source to Hiwassee River	WS-IV	8/3/92	1-17
North Fork Blair Creek	From source to Blair Creek	WS-IV	8/3/92	1-17-1
Kimsey Branch	From source to North Fork Blair Creek	WS-IV	8/3/92	1-17-1-1
Lovin Spring Branch	From source to North Fork Blair Creek	WS-IV	8/3/92	1-17-1-2
Carter Branch	From source to North Fork Blair Creek	WS-IV	8/3/92	1-17-1-3
South Fork Blair Creek	From source to Blair Creek	WS-IV	8/3/92	1-17-2
Drowning Creek	From source to Hiwassee River	C	7/1/61	1-18
Bob Prater Branch	From source to Drowning Creek	C	7/1/61	1-18-1
John Reese Branch	From source to Drowning Creek	C	7/1/61	1-18-2
Padgett Branch (Patterson Mill Creek)	From source to Drowning Creek	C	7/1/61	1-18-3
Town Creek	From source to Hiwassee River	WS-IV	8/3/92	1-19
Qually Creek	From source to Hiwassee River	WS-IV	8/3/92	1-20
Tusquitee Creek	From source to Big Tuni Creek	C Tr	8/1/90	1-21-(0.5)
Bluff Branch	From source to Tusquitee Creek	C Tr	7/1/73	1-21-1
Perry Creek	From source to Tusquitee Creek	C Tr	7/1/73	1-21-2
Mill Creek	From source to Perry Creek	C	7/1/61	1-21-2-1
Passmore Branch	From source to Perry Creek	C	7/1/61	1-21-2-2
Mull Branch	From source to Tusquitee Creek	C	7/1/61	1-21-3
Hurricane Creek	From source to Tusquitee Creek	C Tr	7/1/73	1-21-4
Tusquitee Creek	From Big Tuni Creek to Buckner Branch	C Tr HQW	7/1/61	1-21-(4.5)
Big Tuni Creek	From source to Tusquitee Creek	C Tr HQW	8/1/90	1-21-5
Chestnut Branch	From source to Big Tuni Creek	C Tr HQW	8/1/90	1-21-5-1
Boone Branch	From source to Big Tuni Creek	C HQW	8/1/90	1-21-5-2
Steve Branch	From source to Big Tuni Creek	C HQW	8/1/90	1-21-5-3
Long Branch	From source to Big Tuni Creek	C HQW	8/1/90	1-21-5-4
Little Tuni Creek	From source to Big Tuni Creek	C HQW	8/1/90	1-21-5-5
Chairmaker Branch	From source to Tusquitee Creek	C Tr	7/1/73	1-21-6
Compass Creek	From source to Tusquitee Creek	C Tr HQW	8/1/90	1-21-7
Matlock Creek	From source to Tusquitee Creek	C Tr HQW	8/1/90	1-21-8
Julie Branch	From source to Matlock Creek	C HQW	8/1/90	1-21-8-1
Cold Branch	From source to Tusquitee Creek	C	7/1/61	1-21-9
Nane Branch	From source to Cold Branch	C	7/1/61	1-21-9-1

.0302 HIWASSEE RIVER BASIN

Name of Stream	Description	Classification Class	Date	Index No.
Morgan Branch	From source to Cold Branch	C	7/1/61	1-21-9-2
Sunday Branch	From source to Tusquitee Creek	C	7/1/61	1-21-10
Church Branch	From source to Tusquitee Creek	C	7/1/61	1-21-11
Moore Branch	From source to Church Branch	C	7/1/61	1-21-11-1
Moss Branch	From source to Church Branch	C	7/1/61	1-21-11-2
Peckerwood Branch	From source to Tusquitee Creek	C Tr	7/1/73	1-21-12
Sapsucker Branch	From source to Peckerwood Branch	C	7/1/61	1-21-12-1
Johnson Creek	From source to Tusquitee Creek	C HQW	8/1/90	1-21-13
Left Prong Johnson Creek	From source to Johnson Creek	C Tr HQW	8/1/90	1-21-13-1
Snake Branch	From source to Left Prong Johnson Creek	C HQW	8/1/90	1-21-13-1-1
Shoal Branch	From source to Johnson Creek	C HQW	8/1/90	1-21-13-2
Evans Branch	From source to Johnson Creek	C HQW	8/1/90	1-21-13-3
Shearer Creek	From source to Johnson Creek	C Tr HQW	8/1/90	1-21-13-4
Rocky Creek	From source to Shearer Creek	C Tr HQW	8/1/90	1-21-13-4-1
Pigpen Branch (Little Shearer Creek)	From source to Shearer Creek	C HQW	8/1/90	1-21-13-4-2
Boardtree Branch	From source to Pigpen Branch	C HQW	8/1/90	1-21-13-4-2-1
Dick Branch	From source to Tusquitee Creek	C Tr HQW	8/1/90	1-21-14
Schoolhouse Branch	From source to Tusquitee Creek	C HQW	8/1/90	1-21-15
Stable Branch	From source to Schoolhouse Branch	C HQW	8/1/90	1-21-15-1
Caesar Austin Branch	From source to Tusquitee Creek	C HQW	8/1/90	1-21-16
Tusquitee Creek	From Buckner Branch to Hiwassee River	WS-IV Tr HQW	8/3/92	1-21-(16.5)
Buckner Branch	From source to Tusquitee Creek	WS-IV HQW	8/3/92	1-21-17
Bristol Branch	From source to Tusquitee Creek	WS-IV Tr HQW	8/3/92	1-21-18
Lyon Branch	From source to Tusquitee Creek	WS-IV HQW	8/3/92	1-21-19
Greasy Creek	From source to a point 0.3 mile upstream of Clay County SR 1307	C	7/1/61	1-21-20-(1)
Greasy Creek	From a point 0.3 mile upstream of Clay County SR 1307 to Tusquitee Cr.	WS-IV	8/3/92	1-21-20-(2)
Carver Creek	From source to Hiwassee River	WS-IV	8/3/92	1-22
Bob Branch	From source to Hiwassee River	WS-IV	8/3/92	1-23
Allbone Branch	From source to Hiwassee River	WS-IV	8/3/92	1-24
Old House Branch	From source to Allbone Branch	WS-IV	8/3/92	1-24-1
Stillhouse Branch	From source to Old House Branch	WS-IV	8/3/92	1-24-1-1
Mob Branch	From source to Hiwassee River	WS-IV	8/3/92	1-25
Logan Cove Branch	From source to Hiwassee River	WS-IV	8/3/92	1-26
Fires Creek	From source to Rocky Cove Branch	C Tr ORW	3/1/89	1-27-(0.5)
Far Bald Spring Branch	From source to Fires Creek	C Tr ORW	3/1/89	1-27-1
Potrock Branch	From source to Fires Creek	C Tr ORW	3/1/89	1-27-2
Bald Springs Branch	From source to Fires Creek	C Tr ORW	3/1/89	1-27-3
Long Branch	From source to Fires Creek	C ORW	3/1/89	1-27-4
Short Branch	From source to Long Branch	C ORW	3/1/89	1-27-4-1
Collett Camp Branch	From source to Long Branch	C ORW	3/1/89	1-27-4-2
Coldspring Branch	From source to Long Branch	C ORW	3/1/89	1-27-4-3
Tatham Cabin Branch	From source to Coldspring Branch	C ORW	3/1/89	1-27-4-3-1
Flintspring Branch	From source to Fires Creek	C Tr ORW	3/1/89	1-27-5

.0302 HIWASSEE RIVER BASIN

Name of Stream	Description	Classification Class	Date	Index No.
Ketron Camp Branch	From source to Flintspring Branch	C Tr ORW	3/1/89	1-27-5-1
Fires Creek	From Rocky Cove Branch to Hiwassee River	WS-IV Tr ORW	8/3/92	1-27-(5.5)
Rocky Cove Branch	From source to Fires Creek	WS-IV Tr ORW	8/3/92	1-27-6
Little Fires Creek	From source to Fires Creek	WS-IV Tr ORW	8/3/92	1-27-7
Wheeler Branch	From source to Fires Creek	WS-IV Tr ORW	8/3/92	1-27-8
Wolfpen Branch	From source to Fires Creek	WS-IV Tr ORW	8/3/92	1-27-9
Bee Branch	From source to Fires Creek	WS-IV Tr ORW	8/3/92	1-27-10
Rockhouse Creek	From source to Fires Creek	WS-IV Tr ORW	8/3/92	1-27-11
Game Branch	From source to Rockhouse Creek	WS-IV Tr ORW	8/3/92	1-27-11-1
Laurel Creek	From source to Rockhouse Creek	WS-IV Tr ORW	8/3/92	1-27-11-2
Rogues Branch	From source to Laurel Creek	WS-IV Tr ORW	8/3/92	1-27-11-2-1
Messer Branch	From source to Laurel Creek	WS-IV Tr ORW	8/3/92	1-27-11-2-2
Haigler Camp Branch	From source to Laurel Creek	WS-IV Tr ORW	8/3/92	1-27-11-2-3
Hickory Cove Creek	From source to Laurel Creek	WS-IV Tr ORW	8/3/92	1-27-11-2-4
Leatherwood Branch	From source to Fires Creek	WS-IV Tr ORW	8/3/92	1-27-12
Huskins Branch	From source to Fires Creek	WS-IV Tr ORW	8/3/92	1-27-13
Pendergrass Branch	From source to Huskins Branch	WS-IV Tr ORW	8/3/92	1-27-13-1
Ledford Branch	From source to Fires Creek	WS-IV Tr ORW	8/3/92	1-27-14
Passmore Branch	From source to Hiwassee River	WS-IV	8/3/92	1-28
Watson Branch	From source to Hiwassee River	WS-IV	8/3/92	1-29
Curtis Branch	From source to Hiwassee River	WS-IV	8/3/92	1-30
Betty Branch	From source to Curtis Branch	WS-IV	8/3/92	1-30-1
Carver Branch	From source to Hiwassee River	WS-IV	8/3/92	1-31
Sweetwater Creek	From source to Hiwassee River	WS-IV	8/3/92	1-32
Auberry Branch	From source to Hiwassee River	WS-IV	8/3/92	1-33
Anderson Branch	From source to Hiwassee River	WS-IV	8/3/92	1-34
Rocky Branch	From source to Hiwassee River	WS-IV	8/3/92	1-35
Carroll Branch (Carroll Lake)	From source to Hiwassee River	WS-IV	8/3/92	1-37
Calhoun Branch	From source to Hiwassee River	WS-IV	8/3/92	1-38
Sudderth Branch	From source to Hiwassee River	WS-IV	8/3/92	1-39
Suddawig Branch	From source to Hiwassee River	WS-IV	8/3/92	1-40
~~Mission Branch~~	~~From source to Hiwassee River~~	~~WS-IV~~	~~8/3/92~~	~~1-41~~
Brasstown Creek	From North Carolina-Georgia State Line to Hiwassee River	WS-IV	8/3/92	1-42
Crawford Creek	From source to Brasstown Creek	WS-IV	8/3/92	1-42-1
Webb Creek	From source to Crawford Creek	WS-IV	8/3/92	1-42-1-1
Long Branch	From source to Crawford Creek	WS-IV	8/3/92	1-42-1-2
Hall Branch	From source to Crawford Creek	WS-IV	8/3/92	1-42-1-2.5
Walker Branch	From source to Crawford Creek	WS-IV	8/3/92	1-42-1-3
Beach Creek	From source to Brasstown Creek	WS-IV	8/3/92	1-42-2
Winchester Creek	From North Carolina-Georgia State Line to Brasstown Creek	WS-IV	8/3/92	1-42-3
Gumlog Creek	From North Carolina-Georgia State Line to Brasstown Creek	WS-IV	8/3/92	1-42-4
Trout Cove Branch	From source to Brasstown Creek	WS-IV	8/3/92	1-42-5

.0302 HIWASSEE RIVER BASIN

Name of Stream	Description	Classification Class	Classification Date	Classification Index No.
Pinelog Creek	From North Carolina-Georgia State Line to Brasstown Creek	WS-IV	8/3/92	1-42-6
Russell Branch	From North Carolina-Georgia State Line to Pinelog Creek	WS-IV	8/3/92	1-42-6-1
Clabber Branch	From source to Pinelog Creek	WS-IV	8/3/92	1-42-6-2
Payne Branch	From source to Brasstown Creek	WS-IV	8/3/92	1-42-7
Will Mason Branch	From source to Brasstown Creek	WS-IV	8/3/92	1-42-8
Greasy Creek	From source to Brasstown Creek	WS-IV	8/3/92	1-42-9
Buchanan Branch	From source to Brasstown Creek	WS-IV	8/3/92	1-42-10
Little Brasstown Creek	From source to Brasstown Creek	WS-IV	8/3/92	1-42-11
Pinhook Branch	From source to Little Brasstown Creek	WS-IV	8/3/92	1-42-11-1
Stamey Branch	From source to Pinhook Branch	WS-IV	8/3/92	1-42-11-1-1
John Mason Branch	From source to Pinhook Branch	WS-IV	8/3/92	1-42-11-1-2
Ricks Branch	From source to Little Brasstown Creek	WS-IV	8/3/92	1-42-11-2
Frankum Branch	From source to Ricks Branch	WS-IV	8/3/92	1-42-11-2-1
Tweed Branch	From source to Little Brasstown Creek	WS-IV	8/3/92	1-42-11-3
Clayton Branch	From source to Little Brasstown Creek	WS-IV	8/3/92	1-42-11-4
Garringer Branch	From source to Little Brasstown Creek	WS-IV	8/3/92	1-42-11-5
Brendle Branch	From source to Little Brasstown Creek	WS-IV	8/3/92	1-42-11-6
Bevins Branch	From source to Brendle Branch	WS-IV	8/3/92	1-42-11-6-1
Jenkins Branch	From source to Brasstown Creek	WS-IV	8/3/92	1-42-12
Donaldson Branch	From source to Brasstown Creek	WS-IV	8/3/92	1-42-13
HIWASSEE RIVER	From a point 0.6 mile upstream of McComb Branch to Town of Murphy water supply intake (located 0.1 mile downstream of McComb Branch)	WS-IV CA	7/1/95	1-(42.3)
McComb Branch	From source to a point 0.1 mile upstream of NC Hwy. 141	WS-IV	7/1/95	1-43-(1)
McComb Branch	From a point 0.1 mile upstream of NC Hwy. 141 to Hiwassee River	WS-IV CA	7/1/95	1-43-(2)
HIWASSEE RIVER	From Town of Murphy water supply intake to a point 0.3 mile downstream of Martin Creek	WS-V	7/1/95	1-(43.7)
Peachtree Creek	From source to Hiwassee River	C	7/1/95	1-44
Coldspring Branch	From source to Peachtree Creek	C	7/1/95	1-44-1
Panther Branch	From source to Peachtree Creek	C	7/1/95	1-44-2
Painter Branch	From source to Peachtree Creek	C	7/1/95	1-44-3
Fate Puett Cove Creek	From source to Peachtree Creek	C	7/1/95	1-44-4
Burl Branch	From source to Fate Puett Cove Creek	C	7/1/95	1-44-4-1
Truett Branch	From source to Fate Puett Cove Creek	C	7/1/95	1-44-4-2
Lamb Branch	From source to Peachtree Creek	C	7/1/95	1-44-5

.0302 HIWASSEE RIVER BASIN

Name of Stream	Description	Classification Class	Classification Date	Classification Index No.
Elliott Branch	From source to Peachtree Creek	C	7/1/95	1-44-6
Pipes Branch	From source to Peachtree Creek	C	7/1/95	1-44-7
Mill Branch	From source to Pipes Branch	C	7/1/95	1-44-7-1
Gregory Branch	From source to Pipes Branch	C	7/1/95	1-44-7-2
Moody Branch	From source to Peachtree Creek	C	7/1/95	1-44-8
Slow Creek	From source to Peachtree Creek	C	7/1/95	1-44-9
Barnett Branch	From source to Slow Creek	C	7/1/95	1-44-9-1
Messer Branch	From source to Slow Creek	C	7/1/95	1-44-9-2
Graham Branch	From source to Slow Creek	C	7/1/95	1-44-9-3
Snead Branch	From source to Slow Creek	C	7/1/95	1-44-9-4
Cornwell Branch	From source to Snead Branch	C	7/1/95	1-44-9-4-1
Fall Branch	From source to Hiwassee River	C	7/1/95	1-45
Seibold Branch	From source to Fall Branch	C	7/1/95	1-45-1
Burnthouse Branch	From source to Hiwassee River	C	7/1/95	1-46
Will Scott Creek	From source to Hiwassee River	C	7/1/95	1-47
Hampton Creek	From source to Hiwassee River	C	7/1/95	1-48
Harshaw Branch	From source to Hampton Creek	C	7/1/95	1-48-1
Campground Branch	From source to Hampton Creek	C	7/1/95	1-48-2
Martin Creek	From source to Hiwassee River	C	7/1/95	1-49
Mag Ashe Branch	From source to Martin Creek	C	7/1/95	1-49-1
George Creek	From source to Martin Creek	C	7/1/95	1-49-2
Right Prong Martin Creek	From source to Martin Creek	C	7/1/95	1-49-3
HIWASSEE RIVER (Hiwassee Lake below elevation 1525)	From a point 0.3 mile downstream of Martin Creek to Laurel Creek	C	7/1/61	1-(50)
McColl Branch	From source to Hiwassee Lake	C	9/1/74	1-51
Valley River	From source to Hiwassee Lake	C Tr	7/1/61	1-52
Powder Burnt Branch	From source to Valley River	C Tr	7/1/73	1-52-1
Long Branch	From source to Valley River	C Tr	7/1/73	1-52-2
Wright Branch	From source to Valley River	C Tr	7/1/73	1-52-3
East Nelson Creek	From source to Valley River	C Tr	7/1/73	1-52-4
West Nelson Creek	From source to Valley River	C Tr	7/1/73	1-52-5
Watkins Creek	From source to Valley River	C Tr	7/1/73	1-52-6
Beetree Branch	From source to Watkins Creek	C	7/1/61	1-52-6-1
Millseat Branch	From source to Valley River	C	7/1/61	1-52-7
Bent Creek	From source to Valley River	C Tr	7/1/73	1-52-8
Bryson Branch	From source to Valley River	C Tr	7/1/73	1-52-9
Brady Branch	From source to Valley River	C Tr	7/1/73	1-52-10
Tank Branch	From source to Valley River	C Tr	7/1/73	1-52-11
Silvermine Branch	From source to Tank Branch	C	7/1/61	1-52-11-1
Mill Branch	From source to Valley River	C	7/1/61	1-52-12
Turnpike Creek	From source to Valley River	C Tr	7/1/73	1-52-13
Totherrow Branch	From source to Turnpike Creek	C	7/1/61	1-52-13-1
Harris Creek	From source to Valley River	C Tr	7/1/73	1-52-14
Granny Squirrel Branch	From source to Harris Creek	C	7/1/61	1-52-14-1
Melton Creek	From source to Valley River	C Tr	7/1/73	1-52-15
Fine Comb Branch	From source to Melton Creek	C	7/1/61	1-52-15-1
Doctor Branch	From source to Valley River	C	7/1/61	1-52-16

.0302 HIWASSEE RIVER BASIN

Name of Stream	Description	Classification Class	Classification Date	Classification Index No.
Tom Thumb Creek	From source to Valley River	C	7/1/61	1-52-17
Puncheon Branch	From source to Valley River	C	7/1/61	1-52-18
Stillhouse Branch	From source to Valley River	C	7/1/61	1-52-19
Flat Branch	From source to Valley River	C	7/1/61	1-52-20
Mill Branch	From source to Valley River	C	7/1/61	1-52-21
Burnt Shanty Branch	From source to Valley River	C	7/1/61	1-52-22
Gipp Creek	From source to Valley River	C Tr ORW	3/1/89	1-52-23
Brokeleg Branch	From source to Gipp Creek	C ORW	3/1/89	1-52-23-1
Ash Cove Creek	From source to Gipp Creek	C ORW	3/1/89	1-52-23-2
Worm Creek	From source to Valley River	C Tr	7/1/73	1-52-24
Matherson Creek	From source to Worm Creek	C Tr	7/1/73	1-52-24-1
Radder Creek	From source to Worm Creek	C Tr	7/1/73	1-52-24-2
Nick Branch	From source to Radder Creek	C	7/1/61	1-52-24-2-1
Coefield Branch	From source to Radder Creek	C	7/1/61	1-52-24-2-2
Kennedy Creek	From source to Worm Creek	C Tr	7/1/73	1-52-24-3
Shop Branch	From source to Worm Creek	C	7/1/61	1-52-24-4
Ingram Branch	From source to Worm Creek	C	7/1/61	1-52-24-5
Rail Cove Branch	From source to Ingram Branch	C	7/1/61	1-52-24-5-1
Junaluska Creek	From source to Valley River	C Tr	7/1/61	1-52-25
Bob Allen Branch	From source to Junaluska Creek	C	7/1/61	1-52-25-1
Hogan Branch	From source to Junaluska Creek	C	7/1/61	1-52-25-2
White Branch	From source to Junaluska Creek	C	7/1/61	1-52-25-3
Schoolhouse Branch	From source to Junaluska Creek	C	7/1/61	1-52-25-4
Ashturn Creek	From source to Junaluska Creek	C	7/1/61	1-52-25-5
Catstair Branch	From source to Ashturn Creek	C	7/1/61	1-52-25-5-1
Hicks Branch	From source to Junaluska Creek	C	7/1/61	1-52-25-6
Patterson Branch	From source to Junaluska Creek	C	7/1/61	1-52-25-7
Culbert Branch	From source to Junaluska Creek	C	7/1/61	1-52-25-8
Polecat Branch	From source to Junaluska Creek	C	7/1/61	1-52-25-9
Bear Branch	From source to Junaluska Creek	C Tr	7/1/73	1-52-25-10
Right Fork Bear Branch	From source to Bear Branch	C	7/1/61	1-52-25-10-1
Weaver Branch	From source to Junaluska Creek	C	7/1/61	1-52-25-11
Bolden Branch	From source to Junaluska Creek	C	7/1/61	1-52-25-12
Stewart Branch	From source to Valley River	C Tr	7/1/73	1-52-26
Mary Branch	From source to Stewart Branch	C	7/1/61	1-52-26-1
Pile Creek	From source to Valley River	C Tr	7/1/73	1-52-27
Turkeypen Branch	From source to Pile Creek	C	7/1/61	1-52-27-1
Spread Eagle Branch	From source to Pile Creek	C	7/1/61	1-52-27-2
Tatham Creek	From source to Valley River	C Tr	7/1/73	1-52-28
McClellan Creek	From source to Tatham Creek	C Tr	7/1/73	1-52-28-1
Trail Branch	From source to McClellan Creek	C	7/1/61	1-52-28-1-1
Polecat Branch	From source to Trail Branch	C	7/1/61	1-52-28-1-1-1
Coefield Branch	From source to Trail Branch	C	7/1/61	1-52-28-1-1-2
Snyder Creek	From source to McClellan Creek	C	7/1/61	1-52-28-1-2
Collett Creek	From source to Tatham Creek	C Tr	7/1/73	1-52-28-2
Flat Branch	From source to Collett Creek	C	7/1/61	1-52-28-2-1
Crawford Branch	From source to Collett Creek	C	7/1/61	1-52-28-2-2

.0302 HIWASSEE RIVER BASIN

Name of Stream	Description	Classification Class	Date	Index No.
Phillips Creek	From source to Tatham Creek	C	7/1/61	1-52-28-3
Britton Creek	From source to a point 2.8 mile upstream of mouth (former Andrews Water Supply Intake	C HQW	8/3/92	1-52-29-(1)
Britton Creek	From a point 2.8 mile upstream of mouth to Valley River	C Tr	7/1/73	1-52-29-(2)
Beaver Creek	From source to a point 0.5 mile upstream of Andrews Water Supply Intake	WS-II Tr	8/3/92	1-52-30-(1)
Beaver Creek	From a point 0.5 mile upstream of Andrews Water Supply Intake to Andrews Water Supply Intake	WS-II Tr CA	8/3/92	1-52-30-(1.5)
Freeman Branch	From source to a point 0.5 mile upstream of mouth	WS-II Tr	8/3/92	1-52-30-2-(1)
Freeman Branch	From a point 0.5 mile upstream of mouth to to Beaver Creek	WS-II Tr CA	8/3/92	1-52-30-2-(2)
Beaver Creek	From Andrews Water Supply Intake to Valley River	C Tr	7/1/73	1-52-30-(3)
Bob Branch	From source to Beaver Creek	C	7/1/61	1-52-30-4
Dan Holland Creek	From source to a point 0.5 mile downstream of Sunk Branch	WS-II Tr	8/3/92	1-52-30-5-(1)
Sunk Branch	From source to Dan Holland Creek	WS-II Tr	8/3/92	1-52-30-5-2
Dan Holland Creek	From a point 0.5 mile downstream of Sunk Branch to dam at Andrews Water Supply Reservoir	WS-II Tr CA	8/3/92	1-52-30-5-(2.3)
Strange Branch	From source to a point 0.5 mile upstream of mouth	WS-II Tr	8/3/92	1-52-30-5-3-(1)
Strange Branch	From a point 0.5 mile upstream of mouth to Andrews Water Supply Reservoir, Dan Holland Creek	WS-II Tr CA	8/3/92	1-52-30-5-3-(2)
Big Cove Branch	From source to a point 0.5 mile upstream of mouth	WS-II Tr	8/3/92	1-52-30-5-4-(1)
Big Cove Branch	From a point 0.5 mile upstream of mouth to Andrews Water Supply Reservoir, Dan Holland Creek	WS-II Tr CA	8/3/92	1-52-30-5-4-(2)
Dan Holland Creek	From dam at Andrews Water Supply Reservoir to Beaver Creek	C Tr	8/3/92	1-52-30-5-(5)
Town Branch	From source to Valley River	C Tr	7/1/73	1-52-31
Webb Creek	From source to Valley River	C Tr	7/1/73	1-52-32
Left Fork Webb Creek	From source to Webb Creek	C	7/1/61	1-52-32-1
Right Fork Webb Creek	From source to Webb Creek	C	7/1/61	1-52-32-2
Beach Branch	From source to Right Fork Webb Creek	C	7/1/61	1-52-32-2-1
Moody Branch	From source to Webb Creek	C	7/1/61	1-52-32-3
Underwood Branch	From source to Webb Creek	C	7/1/61	1-52-32-4
Whitaker Creek	From source to Valley River	C	9/1/74	1-52-33
Brown Creek	From source to Valley River	C	7/1/61	1-52-34
Ricket Branch	From source to Valley River	C	7/1/61	1-52-35
Jones Branch	From source to Ricket Branch	C	7/1/61	1-52-35-1

.0302 HIWASSEE RIVER BASIN

Name of Stream	Description	Classification Class	Date	Index No.
Morris Creek	From source to Valley River	C Tr	7/1/73	1-52-36
Cozad Branch	From source to Morris Creek	C	7/1/61	1-52-36-1
Mike Branch	From source to Morris Creek	C	7/1/61	1-52-36-2
Truett Branch	From source to Morris Creek	C	7/1/61	1-52-36-3
Allmon Branch	From source to Morris Creek	C	7/1/61	1-52-36-4
Bryson Branch	From source to Morris Creek	C	7/1/61	1-52-36-5
Sharp Branch	From source to Valley River	C Tr	7/1/73	1-52-37
Thrash Creek (Wood Lake)	From source to Valley River	C Tr	7/1/73	1-52-38
Taylor Creek	From source to Valley River	C Tr	7/1/73	1-52-39
Gumflats Creek	From source to Taylor Creek	C Tr	7/1/73	1-52-39-1
Colvard Creek	From source to Gumflats Creek	C	7/1/61	1-52-39-1-1
Alfred Creek	From source to Taylor Creek	C	7/1/61	1-52-39-2
Aaron Creek	From source to Taylor Creek	C Tr	7/1/73	1-52-39-3
Hogpen Branch	From source to Taylor Creek	C	7/1/61	1-52-39-4
Tom Branch	From source to Taylor Creek	C	7/1/61	1-52-39-5
Luther Branch	From source to Taylor Creek	C	7/1/61	1-52-39-6
Welch Mill Creek	From source to Valley River	C Tr	7/1/73	1-52-40
Hurricane Branch	From source to Welch Mill Creek	C	7/1/61	1-52-40-1
Griggs Branch	From source to Welch Mill Creek	C	7/1/61	1-52-40-2
Townhouse Creek	From source to Welch Mill Creek	C	7/1/61	1-52-40-3
Parker Branch	From source to Valley River	C	9/1/74	1-52-41
Laurel Branch	From source to Valley River	C Tr	7/1/73	1-52-42
Burnt Branch	From source to Laurel Branch	C Tr	7/1/73	1-52-42-1
Hyatt Creek	From source to Valley River	C	7/1/61	1-52-43
Little Dam Branch	From source to Hyatt Creek	C	7/1/61	1-52-43-1
Big Dam Branch	From source to Hyatt Creek	C	7/1/61	1-52-43-2
Pounding Mill Branch	From source to Big Dam Branch	C	7/1/61	1-52-43-2-1
Slickrock Branch	From source to Hyatt Creek	C Tr	7/1/61	1-52-43-3
Moss Branch	From source to Slickrock Branch	C	7/1/61	1-52-43-3-1
Fishermare Branch	From source to Hyatt Creek	C	7/1/61	1-52-43-4
Allmon Creek	From source to Hyatt Creek	C	7/1/61	1-52-43-5
Parsons Branch	From source to Valley River	C Tr	7/1/73	1-52-44
Ladd Branch	From source to Parsons Branch	C	7/1/61	1-52-44-1
Venegeance Creek	From source to Valley River	C Tr	7/1/73	1-52-45
Coldspring Branch	From source to Venegeance Creek	C Tr	7/1/73	1-52-45-1
Ramp Cove Branch	From source to Coldspring Branch	C	7/1/61	1-52-45-1-1
Buckhorn Branch	From source to Vengeance Creek	C	7/1/61	1-52-45-2
Graybeard Creek	From source to Vengeance Creek	C Tr	7/1/73	1-52-45-3
Nancy Hawkins Branch	From source to Greybeard Creek	C	7/1/61	1-52-45-3-1
Jenick Branch	From source to Greybeard Creek	C	7/1/61	1-52-45-3-2
Puett Creek	From source to Vengeance Creek	C Tr	7/1/73	1-52-45-4
Derreberry Branch	From source to Puett Creek	C	7/1/61	1-52-45-4-1
Highfalls Branch	From source to Valley River	C	7/1/61	1-52-46
Bettis Branch	From source to Valley River	C	7/1/61	1-52-47
Rhea Branch	From source to Valley River	C Tr	7/1/73	1-52-48
Magazine Branch	From source to Valley River	C	9/1/74	1-52-49
Mason Branch	From source to Valley River	C	9/1/74	1-52-50

.0302 HIWASSEE RIVER BASIN

Name of Stream	Description	Classification Class	Date	Index No.
Sam Branch	From source to Valley River	C	9/1/74	1-52-51
Stillhouse Branch	From source to Valley River	C	9/1/74	1-52-52
Long Branch	From source to Valley River	C	7/1/61	1-52-53
Pole Bridge Branch	From source to Valley River	C	9/1/74	1-52-54
Sam Newton Branch	From source to Valley River	C	9/1/74	1-52-55
Morgan Creek	From source to Valley River	C	7/1/61	1-52-56
Highfall Branch	From source to Morgan Creek	C	7/1/61	1-52-56-1
Wilson Creek	From source to Morgan Creek	C	7/1/61	1-52-56-2
Cindy Branch	From source to Morgan Creek	C	7/1/61	1-52-56-3
Dick Branch	From source to Morgan Creek	C	7/1/61	1-52-56-4
Simon Branch	From source to Morgan Creek	C	7/1/61	1-52-56-5
Mary Branch	From source to Valley River	C	7/1/61	1-52-57
Colvard Creek	From source to Valley River	C Tr	7/1/73	1-52-58
Sassafras Branch	From source to Colvard Creek	C	7/1/61	1-52-58-1
Gabby Branch	From source to Colvard Creek	C	7/1/61	1-52-58-2
Sawmill Branch	From source to Colvard Creek	C	7/1/61	1-52-58-3
Wagon Timber Branch	From source to Colvard Creek	C	7/1/61	1-52-58-4
Jackson Branch	From source to Colvard Creek	C	7/1/61	1-52-58-5
Cowmire Branch	From source to Colvard Creek	C	7/1/61	1-52-58-6
Hayes Mill Creek	From source to Valley River	C Tr	7/1/73	1-52-59
Rogers Creek	From source to Valley River	C Tr	7/1/73	1-52-60
Pace Branch	From source to Rogers Creek	C	7/1/61	1-52-60-1
Chestnut Log Branch	From source to Pace Branch	C	7/1/61	1-52-60-1-1
John Newton Branch	From source to Rogers Creek	C	7/1/61	1-52-60-2
Keener Branch	From source to Valley River	C Tr	7/1/73	1-52-61
Schoolhouse Branch	From source to Keener Branch	C	7/1/61	1-52-61-1
Sales Branch	From source to Valley River	C	7/1/61	1-52-62
Rattler Branch	From source to Valley River	C	7/1/61	1-52-63
George Martin Branch	From source to Valley River	C	7/1/61	1-52-64
Wesley Martin Branch	From source to Valley River	C	7/1/61	1-52-65
Marble Creek	From source to Brittian Creek	WS-I	8/3/92	1-52-66-(1)
Marble Creek	From Murphy Water Supply Intake to Valley River	C	7/1/61	1-52-66-(2)
Brittian Creek	From source to Marble Creek	WS-I	8/3/92	1-52-66-3
Palmer Branch	From source to Valley River	C	7/1/61	1-52-67
Brittian Branch (Fain Mountain Reservoir)	From source to dam at Fain Mountain Reservoir	WS-I	8/3/92	1-52-68-(1)
Brittian Branch	From dam at Fain Mountain Reservoir to Valley River	C	9/1/61	1-52-68-(2)
HIWASSEE RIVER (Hiwassee Lake below elevation 1525)	From Laurel Creek to Hiwassee Dam	B	8/3/92	1-(53)
Laurel Creek	From source to Hiwassee Lake	C	7/1/61	1-54
Kirklin Creek	From source to Hiwassee Lake	C	7/1/61	1-55
Bates Creek	From source to Hiwassee Lake	C	7/1/61	1-56
Hanging Dog Creek	From source to Hiwassee Lake	C	7/1/61	1-57
Will Creek	From source to Hanging Dog Creek	C	7/1/61	1-57-1

.0302 HIWASSEE RIVER BASIN

Name of Stream	Description	Classification Class	Date	Index No.
Woody Branch	From source to Will Creek	C	7/1/61	1-57-1-1
Augen Branch	From source to Hanging Dog Creek	C	7/1/61	1-57-2
Grindstone Branch	From source to Hanging Dog Creek	C	7/1/61	1-57-3
Davis Creek	From source to Hanging Dog Creek	C Tr	7/1/61	1-57-4
Dockery Creek	From source to Davis Creek	C Tr	7/1/73	1-57-4-1
Mose Creek	From source to Dockery Creek	C Tr	7/1/73	1-57-4-1-1
Gumlog Creek	From source to Dockery Creek	C Tr	7/1/73	1-57-4-1-2
Bald Creek	From source to Davis Creek	C Tr	7/1/61	1-57-4-2
Little Creek	From source to Davis Creek	C Tr	7/1/73	1-57-4-3
Rocky Knob Branch	From source to Little Creek	C	7/1/61	1-57-4-3-1
Snap Branch	From source to Davis Creek	C Tr	7/1/73	1-57-4-4
Cook Creek	From source to Hanging Dog Creek	C	7/1/61	1-57-5
Owl Creek	From source to Hanging Dog Creek	C	7/1/61	1-57-6
Dinkin Cove Creek (Dinkin Branch)	From source to Owl Creek	C Tr	7/1/73	1-57-6-1
Little Owl Creek	From source to Owl Creek	C Tr	7/1/73	1-57-6-2
Dockery Creek	From source to Hanging Dog Creek	C Tr	7/1/73	1-57-7
Rose Creek	From source to Dockery Creek	C	7/1/61	1-57-7-1
Nottely River	From North Carolina-Georgia State Line to Hiwassee Lake	C	7/1/61	1-58
Moccasin Creek	North Carolina portion	C	7/1/61	1-58-1
Butler Creek	From North Carolina-Georgia State Line to Nottely River	C	7/1/61	1-58-2
Cobb Creek	From source to Nottely River	C	7/1/61	1-58-3
Grape Thicket Branch	From source to Cobb Creek	C	7/1/61	1-58-3-1
Gold Branch	From source to Nottely River	C	9/1/74	1-58-4
Owenby Creek	From North Carolina-Georgia State Line to Nottely River	C	9/1/74	1-58-5
Rapier Mill Creek	From source to Nottely River	C	9/1/74	1-58-6
North Fork Rapier Mill Creek	From source to Rapier Mill Creek	C	7/1/61	1-58-6-1
Garland Branch	From source to Rapier Mill Creek	C	7/1/61	1-58-6-2
South Fork Rapier Mill Creek	North Carolina portion	C	7/1/61	1-58-6-3
Dickey Branch	From source to Nottely River	C	9/1/74	1-58-7
Walker Mill Creek	From source to Nottely River	C	9/1/74	1-58-8
Rominger Creek	From source to Nottely River	C	9/1/74	1-58-9
Cane Creek	From source to Nottely River	C	7/1/61	1-58-10
Lindsey Branch	From source to Cane Creek	C	7/1/61	1-58-10-1
Stillhouse Branch	From source to Lindsey Branch	C	7/1/61	1-58-10-1-1
Crane Creek	From source to Nottely River	C	7/1/61	1-58-11
Sneed Branch	From source to Nottely River	C	7/1/61	1-58-12
Laurel Branch	From source to Nottely River	C	7/1/61	1-58-13
Beech Creek	From source to Hiwassee Lake	C	7/1/61	1-59
Grape Creek	From source to Hiwassee Lake	C	7/1/61	1-60
West Prong Grape Creek	From source to Grape Creek	C	7/1/61	1-60-1
Song Branch	From source to Hiwassee Lake	C	7/1/61	1-61

.0302 HIWASSEE RIVER BASIN

Name of Stream	Description	Classification Class	Date	Index No.
Jack Davis Branch	From source to Hiwassee Lake	C	7/1/61	1-62
Persimmon Creek (Lake Cherokee)	From source to Hiwassee Lake	C	7/1/61	1-63
Flax Creek	From source to Persimmon Creek	C	7/1/61	1-63-1
Hickey Branch	From source to Persimmon Creek	C	7/1/61	1-63-2
Hibbert Branch	From source to Hiwassee Lake	C	7/1/61	1-64
Bearpaw Creek	From source to Hiwassee Lake	C	7/1/61	1-66
Hyatt Mill Creek	From source to Hiwassee Lake	C	7/1/61	1-67
Taylor Creek	From source to Hiwassee Lake	C Tr	7/1/73	1-68
Johnson Creek	From source to Hiwassee Lake	C Tr	9/1/74	1-69
Chambers Creek	From source to Hiwassee Lake	C	7/1/61	1-70
Powell Branch	From source to Hiwassee Lake	C	7/1/61	1-71
Beaverdam Creek	From source to Hiwassee Lake	C Tr	7/1/73	1-72
Horton Branch	From source to Beaverdam Creek	C Tr	7/1/73	1-72-1
Radford Branch	From source to Beaverdam Creek	C Tr	7/1/73	1-72-2
Cook Creek	From source to Beaverdam Creek	C Tr	7/1/73	1-72-3
Farmer Branch	From source to Cook Creek	C Tr	7/1/73	1-72-3-1
Roberts Branch	From source to Farmer Branch	C	7/1/61	1-72-3-1-1
Garrett Creek	From source to Cook Creek	C Tr	7/1/73	1-72-3-2
Bell Creek	From source to Garrett Creek	C Tr	7/1/73	1-72-3-2-1
Copper Creek	From source to Beaverdam Creek	C Tr	7/1/61	1-72-4
Kilby Branch	From source to Copper Creek	C Tr	7/1/73	1-72-4-1
Miller Branch	From source to Kilby Branch	C	7/1/61	1-72-4-1-1
Groundhog Branch	From source to Copper Creek	C	7/1/61	1-72-4-2
Potlog Branch	From source to Copper Creek	C	7/1/61	1-72-4-3
Cindy Branch	From source to Copper Creek	C	7/1/61	1-72-4-4
Buckhorn Creek	From source to Copper Creek	C Tr	7/1/73	1-72-4-5
Bryson Branch	From source to Beaverdam Creek	C Tr	7/1/73	1-72-5
Bryson Creek	From source to Beaverdam Creek	C Tr	7/1/73	1-72-6
Moccasin Creek	From source to Hiwassee Lake	C Tr	7/1/73	1-73
HIWASSEE RIVER (Apalachia Lake below elevation 1281)	From Hiwassee Dam to River Mile 75, 0.8 mile downstream from Hiwassee Dam at Hiwassee Reservation Boundary	C	7/1/61	1-(74)
HIWASSEE RIVER (Apalachia Lake below elevation 1281)	From River Mile 75, 0.8 mile downstream from Hiwassee Dam at Hiwassee Reservation Boundary to Apalachia Dam	B	9/1/74	1-(75)
Anderson Creek	From source to Apalachia Lake	C Tr	7/1/73	1-76
South Shoal Creek	From source to Apalachia Lake	C Tr	7/1/73	1-77
Allen Branch	From source to South Shoal Creek	C	7/1/61	1-77-1
Thompson Branch	From source to South Shoal Creek	C	7/1/61	1-77-2
Quinn Creek	From source to South Shoal Creek	C Tr	7/1/73	1-77-3
Little Shoal Creek	From source to Apalachia Lake	C Tr	7/1/73	1-78
Beavers Branch	From source to Apalachia Lake	C	7/1/61	1-79
North Shoal Creek	From source to Apalachia Lake	C	7/1/61	1-80
Potter Branch	From source to North Shoal Creek	C	7/1/61	1-80-1

.0302 HIWASSEE RIVER BASIN

Name of Stream	Description	Classification Class	Date	Index No.
Baine Branch	From source to Apalachia Lake	C	7/1/61	1-81
Camp Creek	From source to Apalachia Lake	C	7/1/61	1-82
Adams Branch	From source to Apalachia Lake	C	7/1/61	1-83
Laurel Branch	From North Carolina-Tennessee State Line to Apalachia Lake	C Tr	7/1/73	1-84
HIWASSEE RIVER	From Apalachia Dam to North Carolina-Tennessee State Line	C	7/1/61	1-(85)
Shuler Creek	From source to Hiwassee River	C	7/1/61	1-86
Bear Branch	From source to Shuler Creek	C	7/1/61	1-86-1
Floyde Branch	From source to Shuler Creek	C Tr	7/1/73	1-86-2
Locust Gap Branch	From source to Shuler Creek	C Tr	7/1/73	1-86-3
Pretty Pine Branch	From source to Shuler Creek	C Tr	7/1/73	1-86-4
Buckberry Branch	From source to Shuler Creek	C Tr	7/1/73	1-86-5
Morrow Branch	From source to Shuler Creek	C Tr	7/1/73	1-86-6
Elbow Creek	From source to Shuler Creek	C Tr	7/1/73	1-86-7
Slate Creek	From source to Shuler Creek	C Tr	7/1/73	1-86-8
Flat Branch	From source to Shuler Creek	C Tr	7/1/73	1-86-9
Brushy Creek	From source to North Carolina-Tennessee State Line	C	7/1/61	1-88
Rocky Ford Creek	From source to North Carolina-Tennessee State Line	C	7/1/61	1-89
Hall Creek	From source to North Carolina-Tennessee State Line	C	7/1/61	1-90
Hothouse Creek	From source to North Carolina-Georgia State Line	C	7/1/61	1-91
Long Branch	From source to Hothouse Creek	C	7/1/61	1-91-1
Synacia Creek	From source to North Carolina-Georgia State Line	C	7/1/61	1-91-2
Wolf Creek	From source to North Carolina-Georgia State Line	C	7/1/61	1-92
Potato Creek	From source to North Carolina-Tennessee State Line	C	7/1/61	1-93
North Potato Creek	From source to North Carolina-Tennessee State Line	C	7/1/61	1-93-1