Bacteria Indicator Supplement
Oconee River Basin – 2007 Fecal Coliform TMDL
Action ID: GAR4_22_03_27

As part of the 2019 Water Quality Standards Triennial Review, Georgia proposed *E. coli* and enterococci criteria for waters designated as fishing, coastal fishing, and drinking water to protect recreators who may inadvertently ingest water. Enterococci is the bacterial indicator for estuarine water, while *E. coli* is the bacterial indicator for all other waters. E. coli and enterococci have a better correlation with gastrointestinal illness than fecal coliform, and the E. coli and enterococci criteria are as protective of the fecal coliform criterion. Georgia EPD adopted the primary contact criteria for the recreational months, May through October, when immersion is expected to occur, and there is a higher likelihood of water ingestion. For non-recreational months, November through April, EPD adopted secondary contact criteria based on the estimated incidental water consumption rate from the 2019 update to Chapter 3 of the EPA Exposure Factors Handbook, Ingestion of Water and Other Select Liquids. Prior to these changes, fecal coliform was the bacterial indicator for the designated uses described above.

This supplement was developed to document the translation of the fecal coliform calculations to the new bacteria indicator, either *E. coli* or enterococci, for segments listed in the existing approved Total Maximum Daily Load (TMDL) document. To the extent that the existing approved TMDL document makes specific permitting recommendations based on fecal coliform, those recommendations will be translated to the approved bacteria indicator in all permits.

The loading curve approach was used to determine the allowable summer and winter seasonal loads. For waterbodies designated as recreational waters, a single curve represents the TMDL and is the 30-day recreational geometric mean criteria for the various bacterial indicators. For waterbodies designated as fishing, coastal fishing, and drinking water, two curves represent the TMDL. One curve represents the summer TMDL for the period May through October when the 30-day geometric mean water quality criteria are equal to the primary contact recreation bacteria criteria for the various indicators, and the second curve represents the winter TMDL for the period November through April when the 30-day geometric mean criteria are higher and are equal to the secondary contact recreation bacteria criteria.

The TMDL also has a single sample maximum criterion for fecal coliform or a Statistical Threshold Value (STV) for *E. coli* and enterococci. The single sample maximum applies for the months of November through April; whereas, the STV applies year round. The STV shall not be exceeded more than 10% of the time in a 30-day period. If a single sample exceeds the maximum criterion or the STV and a geometric mean criterion was also exceeded, then the TMDL is based on the criteria exceedance requiring the largest load reduction. The difference between the critical load and the TMDL curve represented the load reduction required for the stream segment to meet the appropriate instream standard.

The TMDL calculation is given using the following equation:

$$TMDL = C_{standard} \times Q$$

Where: TMDL = Total Maximum Bacteria Load either as a 30-day geometric mean or a single sample maximum
$C_{standard}$ = applicable state water quality standard
Q = stream flow

The applicable water quality standard for fecal coliform was:

May-October 200 counts/100 mL (as a 30-day geometric mean)
November-April 1,000 counts/100 mL (as a 30-day geometric mean)
November-April 4,000 counts/100 mL (as a single sample maximum)

The applicable water quality standard for *E. coli* is:

May-October 126 counts/100 mL (as a 30-day geometric mean)
May-October 410 counts/100 mL (as a STV)
November-April 265 counts/100 mL (as a 30-day geometric mean)
November-April 861 counts/100 mL (as a STV)

The applicable water quality standard for enterococci is:

May-October 35 counts/100 mL (as a 30-day geometric mean)
May-October 130 counts/100 mL (as a STV)
November-April 74 counts/100 mL (as a 30-day geometric mean)
November-April 273 counts/100 mL (as a STV)

TMDLs are the sum of all wasteload allocations (WLA) plus load allocation (LA) plus a margin of safety (MOS), or, stated as an equation, TMDL = ∑WLA + ∑LA + MOS. The MOS can be either implicit or explicit. For bacteria TMDLs, the practice has been to allocate an explicit ten percent MOS. TMDLs have given WLAs for all point sources equivalent to the recreational 30-day geometric mean criteria. The LA has also been given as the appropriate seasonal 30-day geometric mean criteria.

The wasteload allocation (WLA) is the portion of the receiving water's loading capacity that is allocated to existing or future point sources. WLAs were provided to the point sources with municipal wastewater treatment systems and to point sources with sanitary waste streams. Industrial wastewater treatment systems may also receive a WLA if they discharge bacteria because of the type of treatment processes employed or due to commingled sanitary waste streams.

For permitted point sources identified in the original TMDL, the WLAs were calculated based on permitted or design flow and primary recreation season bacteria criteria and are expressed as an accumulated load over a 30-day period and presented in units of counts per 30 days. If a facility expands its capacity and the permitted flow increases, the WLA for the facility would increase in proportion to the flow. If there is a new facility, the WLA would be the design flow times the summertime bacteria criteria. The established WLAs will meet the applicable water quality criteria. In addition, the permits may include routine monitoring and reporting requirements.

The reasonable assurance language included in the original TMDL in Section 6.3 shall be considered superseded and replaced by the following language.

The GA EPD is responsible for administering and enforcing laws to protect the waters of the State. Reasonable assurance ensures that a TMDL's wasteload and load allocations are properly distributed to meet the applicable water quality standards. Without such distribution, a TMDL's ability to serve as an effective guidepost for water quality improvement is significantly diminished. Federal regulations implementing the CWA require that effluent limits in permits be consistent with "the assumptions and requirements of any available [WLA]" in an approved

TMDL [40 CFR 122.44(d)(1)(vii)(B)]. NPDES point source permits will be given effluent limits in the permit consistent with the individual WLAs specified in the TMDL.

The GA EPD is the lead agency for implementing the State's Nonpoint Source Management Program. Regulatory responsibilities that have a bearing on nonpoint source pollution include establishing water quality standards and use classifications, assessing and reporting water quality conditions, and regulating land use activities that may affect water quality. Georgia works with local governments, agricultural and forestry agencies, such as the Natural Resources Conservation Service, the Georgia Soil and Water Conservation Commission, and the Georgia Forestry Commission, to foster the implementation of best management practices to address nonpoint sources. In addition, public education efforts will be targeted to individual stakeholders to provide information regarding the use of best management practices to protect water quality.

Table 15a. *E. coli* WLAs Required

Facility Name	Permit No.	Receiving Stream	Listed Stream Segment	Bacteria Indicator	WLA (counts/ 30 days)
Athens North Oconee WPCP	GA0021725	North Oconee River	North Oconee River - Trail Creek to Oconee River	*E. coli*	1.54E+12
Athens/Clarke County Cedar Creek WPCP	GA0034584	Oconee River	Oconee River - Confluence of North and Middle Oconee Rivers, Athens to Barnett Shoals Dam	*E. coli*	2.87E+11
Dublin WPCP	GA0025569	Oconee River	Oconee River - Long Branch to Turkey Creek	*E. coli*	5.73E+11
Dudley WPCP	GA0023957	Turkey Creek	Turkey Creek - Horse Branch to Rocky Creek	*E. coli*	1.65E+10
Eatonton East WPCP	GA0032271	Rooty Creek Tributary	Rooty Creek - Rd. S 926 Eatonton to Little Creek	*E. coli*	3.94E+10
Eatonton West WPCP	GA0032263	Unnamed tributary to Little River	Little River - Glady Creek to Lake Sinclair	*E. coli*	5.59E+10
Gordon WPCP	GA0020397	Little Commissioner Cr	Little Commissioner Cr Ga Hwy 18 to Commissioner Cr	*E. coli*	1.08E+11
Greensboro South WPCP	GA0021351	Town Creek	Town Creek - Hwy 15 to Richland Creek	*E. coli*	1.43E+11
Hoschton WPCP	GA0035980	Mulberry River tributary	Mulberry River - Little Mulberry River to Middle Oconee	*E. coli*	1.44E+10
Jeffersonville WPCP	GA0020940	Turkey Creek	Turkey Creek - Horse Branch to Rocky Creek	*E. coli*	3.58E+10
Monticello Pearson Creek WPCP	GA0020141	Pearson Creek	Murder Creek - Wolf Creek to Lake Sinclair	*E. coli*	2.44E+10
Monticello White Oak WPCP	GA0020150	White Oak Creek	Murder Creek - Wolf Creek to Lake Sinclair	*E. coli*	1.65E+10
Oconee County-Calls Creek WPCP	GA0050211	Calls Creek	Calls Creek - Lumpkin Branch to Middle Oconee River	*E. coli*	5.73E+10
Social Circle WPCP	GA0026107	Little River tributary	Little River - Social Circle to Nelson Cr	*E. coli*	6.43E+10
Winder Marburg Creek WPCP	GA0023191	Marburg Creek	Marburg Creek - Masseys Lake to Apalachee River	*E. coli*	8.63E+09

Table 16a. *E. coli* Loads Required

Stream Segment[a]	Location	Bacteria Indicator	Current Load (counts/ 30 days)	TMDL Components					Percent Reduction
				WLA[1] (counts/ 30 days)	WLAsw (counts/ 30 days)	LA (counts/ 30 days)	MOS (counts/ 30 days)	TMDL (counts/ 30 days)	
Allen Creek GAR030701010116	1 mile d/s GA Hwy 11 to Middle Oconee River (Jackson Co.)	*E. coli*	[2]			1.80E+12	2.00E+11	2.00E+12	Undetermined[3]
Allen Creek GAR030701010104	Monroe Driver to 1 mile d/s GA. Hwy 11 (Hall, Jackson Co.)	*E. coli*	[2]			3.33E+13	3.70E+12	3.70E+13	Undetermined[3]
Apalachee River GAR030701011006	Marburg Creek to Lake Oconee (Oconee, Morgan, Greene Co.)	*E. coli*	[2]			9.70E+14	1.08E+14	1.08E+15	Undetermined[3]
Apalachee River GAR030701010808	Williamson Creek to Marburg Creek (Barrow, Walton Co.)	*E. coli*	[2]			3.91E+12	4.35E+11	4.35E+12	Undetermined[3]
Apalachee River GAR030701010803	Headwaters to Apalachee Road (Gwinnett Co.)	*E. coli*	[2]			4.77E+11	5.30E+10	5.30E+11	Undetermined[3]
Beaverdam Creek GAR030701011103	Oliver Creek to Lake Oconee, S. of Greensboro (Greene Co.)	*E. coli*	[2]			3.99E+13	4.44E+12	4.44E+13	Undetermined[3]
Big Cedar Creek GAR030701011701	Hog Creek to Lake Sinclair (Jones, Putnam, Baldwin Co.)	*E. coli*	[2]			3.57E+12	3.96E+11	3.96E+12	Undetermined[3]
Big Indian Creek GAR030701011405	I-20 to Little Indian Creek (Morgan Co.)	*E. coli*	[2]			5.00E+13	5.55E+12	5.55E+13	Undetermined[3]
Big Sandy Creek GAR030701010907	Headwaters to Little Sandy Creek (near Good Hope) (Morgan, Walton Co.)	*E. coli*	[2]			1.80E+12	2.00E+11	2.00E+12	Undetermined[3]
Big Sandy Creek GAR030701020703	(Wilkinson, Laurens Co.)	*E. coli*	[2]			1.94E+13	2.15E+12	2.15E+13	Undetermined[3]
Big Sandy Creek GAR030701010908	Little Sandy Creek (near Madison) to Hard Labor Creek (Morgan Co.)	*E. coli*	[2]			5.68E+12	6.30E+11	6.30E+12	Undetermined[3]
Bluff Creek GAR030701020201	Downstream Wiggins Road to Oconee River (Washington Co.)	*E. coli*	[2]			6.43E+12	7.12E+11	7.12E+12	Undetermined[3]
Brooklyn Creek GAR030701010302	Headwaters to Middle Oconee River, Athens (Clarke Co.)	*E. coli*	[2]			1.41E+11	1.57E+10	1.57E+11	Undetermined[3]
Buffalo Creek GAR030701020405	Keg Creek to Oconee River (Washington Co.)	*E. coli*	[2]			1.58E+13	1.76E+12	1.76E+13	Undetermined[3]
Calls Creek GAR030701010311	Lumpkin Branch (aka Lampkin Branch) to Middle Oconee River (Oconee Co.)	*E. coli*	[2]	4.43E+10		2.66E+13	2.96E+12	2.96E+13	Undetermined[3]

Stream Segment[a]	Location	Bacteria Indicator	Current Load (counts/ 30 days)	TMDL Components					Percent Reduction
				WLA[1] (counts/ 30 days)	WLAsw (counts/ 30 days)	LA (counts/ 30 days)	MOS (counts/ 30 days)	TMDL (counts/ 30 days)	
Carver Creek	Tributary to Trail Creek, Athens (Clarke Co)	*E. coli*	[2]			2.54E+11	2.82E+10	2.82E+11	Undetermined[3]
Carr Creek GAR030701010501	Headwaters to North Oconee River, Athens (Clarke Co.)	*E. coli*	[2]			5.12E+10	5.69E+09	5.69E+10	Undetermined[3]
Cedar Creek - King Branch to Glady Creek GAR030701011705	King Branch to Big Cedar Creek (Jasper, Jones Co.)	*E. coli*	[2]			5.97E+11	6.62E+10	6.62E+11	Undetermined[3]
Cedar Creek - Glady Creek to Big Cedar Creek GAR030701011705	King Branch to Big Cedar Creek (Jasper, Jones Co.)	*E. coli*	[2]						Undetermined[3]
Cedar Creek GAR030701010601	Headwaters to Oconee River, Athens (Clarke Co.)	*E. coli*	[2]			2.28E+11	2.53E+10	2.53E+11	Undetermined[3]
Cedar Creek GAR030701010205	Headwaters to Winder Reservoir (Barrow Co.)	*E. coli*	[2]			1.35E+13	1.51E+12	1.51E+13	Undetermined[3]
Chandler Creek GAR030701010404	Headwaters to North Oconee River (Hall, Jackson Co.)	*E. coli*	[2]			1.30E+12	1.45E+11	1.45E+12	Undetermined[3]
Cloverhurst Branch GAR030701010512	Headwaters to Tanyard Branch (Athens) (Clarke Co.)	*E. coli*	[2]			9.07E+11	1.01E+11	1.01E+12	Undetermined[3]
E. T. Creek GAR030701010105	Headwaters to North Walnut Creek, Gainesville (Hall Co.)	*E. coli*	[2]			3.93E+10	4.37E+09	4.37E+10	Undetermined[3]
East Fork Trail Creek GAR030701010511	Headwaters to West Fork Trail Creek, Athens (Clarke Co.)	*E. coli*	[2]			7.06E+10	7.88E+09	7.88E+10	Undetermined[3]
Fishing Creek GAR030701010701	McWhorter Creek to Lake Oconee (Greene Co.)	*E. coli*	[2]			2.48E+12	2.75E+11	2.75E+12	Undetermined[3]
Hunnicutt Creek (aka Mitchell Bridge Branch) GAR030701010304	Headwaters to Middle Oconee River, Athens (Clarke Co.)	*E. coli*	[2]			9.39E+10	1.04E+10	1.04E+11	Undetermined[3]
Kingswood Branch GAR030701010306	Tributary to McNutt Creek, Athens (Clarke Co.)	*E. coli*	[2]			8.00E+09	8.88E+08	8.88E+09	Undetermined[3]
Little Commissioner Creek GAR030701020503	Ga. Hwy. 18 to Commissioner Creek (Wilkinson Co.)	*E. coli*	[2]	5.58E+10		2.75E+12	3.12E+11	3.12E+12	Undetermined[3]
Little Mulberry Creek GAR030701010206	Headwaters to Mulberry River (Gwinnett, Barrow Co.)	*E. coli*	[2]			1.28E+12	1.42E+11	1.42E+12	Undetermined[3]

Stream Segment[a]	Location	Bacteria Indicator	Current Load (counts/ 30 days)	TMDL Components					Percent Reduction
				WLA[1] (counts/ 30 days)	WLAsw (counts/ 30 days)	LA (counts/ 30 days)	MOS (counts/ 30 days)	TMDL (counts/ 30 days)	
Little River GAR030701011503	Glady Creek to Lake Sinclair (Putnam Co.)	*E. coli*	[2]	1.72E+10		7.37E+12	8.19E+11	8.19E+12	Undetermined[3]
Little River GAR030701011401	Shoal Creek to Gap Creek (Morgan, Putnam Co.)	*E. coli*	[2]			2.25E+12	2.49E+11	2.49E+12	Undetermined[3]
Little River GAR030701011410 GAR030701011411	Social Circle to I-20; I-20 to Nelson Creek (Walton, Newton Co.)	*E. coli*	[2]	6.49E+10		4.02E+11	5.18E+10	5.18E+11	Undetermined[3]
Little River GAR030701011407	Gap Creek to Big Indian Creek (Putnam Co.)	*E. coli*	[2]			2.36E+11	2.61E+10	2.61E+11	Undetermined[3]
Little Sugar Creek GAR030701011309	Headwaters to Lake Oconee (Morgan Co.)	*E. coli*	[2]			8.63E+11	9.58E+10	9.58E+11	Undetermined[3]
Marburg Creek GAR030701010806	Masseys Lake to Apalachee River (Barrow Co.)	*E. coli*	[2]	4.69E+10		1.45E+12	1.66E+11	1.66E+12	Undetermined[3]
Middle Oconee River GAR030701010305	Bear Creek to McNutt Creek (formerly Big Bear Creek to McNutt Creek) (Clarke Co.)	*E. coli*	[2]			1.96E+13	2.18E+12	2.18E+13	Undetermined[3]
Middle Oconee River GAR030701010303	Mulberry River to Bear Creek (formerly Mulberry River to Big Bear Creek) (Jackson, Clarke Co.)	*E. coli*	[2]			1.32E+13	1.46E+12	1.46E+13	Undetermined[3]
Middle Oconee River GAR030701010117	Dosters Creek to Mulberry River (Jackson Co.)	*E. coli*	[2]			1.27E+13	1.41E+12	1.41E+13	Undetermined[3]
Middle Oconee River GAR030701010312	McNutt Creek to North Oconee River (Clarke, Oconee Co.)	*E. coli*	[2]			3.26E+13	3.62E+12	3.62E+13	Undetermined[3]
Mulberry River GAR030701010201	Little Mulberry River to Middle Oconee River (Barrow, Jackson Co.)	*E. coli*	[2]	7.50E+09		5.25E+12	5.85E+11	5.85E+12	Undetermined[3]
Mulberry River GAR030701010207	Mulberry Creek to Little Mulberry River (Hall, Jackson, Barrow Co.)	*E. coli*	[2]			4.61E+12	5.12E+11	5.12E+12	Undetermined[3]
Murder Creek GAR030701011601	Wolf Creek to Lake Sinclair (Putnam Co.)	*E. coli*	[2]	1.44E+10		1.42E+12	1.59E+11	1.59E+12	Undetermined[3]
North Bypass Branch GAR030701010307	Tributary to Middle Oconee River, Athens (Clarke Co.)	*E. coli*	[2]			2.41E+09	2.67E+08	2.67E+09	Undetermined[3]
North Oconee River GAR030701010405	Buffington Mill Creek to Chandler Creek (Hall, Jackson Co.)	*E. coli*	[2]			6.05E+12	6.74E+11	6.74E+12	Undetermined[3]
North Oconee River GAR030701010402	Bordens Creek to Curry Creek (Jackson Co.)	*E. coli*	[2]			4.81E+12	5.34E+11	5.34E+12	Undetermined[3]
North Oconee River GAR030701010401	Chandler Creek to Bordens Creek (Jackson Co.)	*E. coli*	[2]			4.10E+12	4.55E+11	4.55E+12	Undetermined[3]

Stream Segment[a]	Location	Bacteria Indicator	Current Load (counts/ 30 days)	TMDL Components					Percent Reduction
				WLA[1] (counts/ 30 days)	WLAsw (counts/ 30 days)	LA (counts/ 30 days)	MOS (counts/ 30 days)	TMDL (counts/ 30 days)	
North Oconee River GAR030701010507	Jackson County to Sandy Creek (Clarke Co.)	*E. coli*	[2]			5.49E+14	6.10E+13	6.10E+14	Undetermined[3]
North Oconee River GAR030701010503	Sandy Creek to Trail Creek, Athens (Clarke Co.)	*E. coli*	[2]			1.46E+13	1.62E+12	1.62E+13	Undetermined[3]
North Oconee River GAR030701010504	Trail Creek to Oconee River (Clarke Co.)	*E. coli*	[2]	1.00E+12		9.64E+14	1.07E+14	1.07E+15	Undetermined[3]
North Walnut Creek GAR030701010107	Gainesville (Upstream Hall County Camp) (Hall Co.)	*E. coli*	[2]			7.25E+10	8.06E+09	8.06E+10	Undetermined[3]
North Walnut Creek GAR030701010106	Gainesville (Downstream Hall County Camp) (Hall Co.)	*E. coli*	[2]			3.91E+12	4.34E+11	4.34E+12	Undetermined[3]
Oconee River GAR030701010706	(Barnett Shoals to Lake Oconee Oconee, Greene Co.)	*E. coli*	[2]			5.24E+13	5.82E+12	5.82E+13	Undetermined[3]
Oconee River GAR030701010604	Confluence of North & Middle Oconee Rivers, Athens to Barnett Shoals Dam (Clarke, Oconee Co.)	*E. coli*	[2]	1.89E+11		6.62E+13	7.37E+12	7.37E+13	Undetermined[3]
Oconee River GAR030701020901	Long Branch to Turkey Creek (Laurens Co.)	*E. coli*	[2]	2.74E+11		7.69E+14	8.51E+13	8.51E+14	Undetermined[3]
Pond Fork GAR030701010118	Headwaters to East Pond Fork (Hall, Jackson Co.)	*E. coli*	[2]			5.55E+11	6.17E+10	6.17E+11	Undetermined[3]
Pond Fork GAR030701010119	East Pond Fork to Middle Oconee River (Jackson Co.)	*E. coli*	[2]			1.69E+12	1.88E+11	1.88E+12	Undetermined[3]
Richland Creek GAR030701011101	Upstream Greensboro to Interstate 20 (Greene Co.)	*E. coli*	[2]			1.64E+11	1.81E+10	1.81E+11	Undetermined[3]
Richland Creek GAR030701011106	Interstate 20 to Little Creek (formerly I-20 to Beaverdam Creek) (Greene Co.)	*E. coli*	[2]			1.86E+12	2.07E+11	2.07E+12	Undetermined[3]
Rooty Creek GAR030701011801	Rd. S926, Eatonton to Little Creek (Putnam Co.)	*E. coli*	[2]	3.75E+10		4.12E+11	5.00E+10	5.00E+11	Undetermined[3]
Sugar Creek GAR030701011311	South Sugar Creek to Lake Oconee (Morgan Co.)	*E. coli*	[2]			1.02E+12	1.13E+11	1.13E+12	Undetermined[3]
Tanyard Creek GAR030701010509	Upstream North Oconee River, Athens (Clarke Co.)	*E. coli*	[2]			3.05E+10	3.39E+09	3.39E+10	Undetermined[3]
Town Creek GAR030701010703	Penfield to Lake Oconee (Greene Co.)	*E. coli*	[2]			2.17E+13	2.41E+12	2.41E+13	Undetermined[3]
Town Creek GAR030701011104	Hwy. 15 to Richland Creek, Greensboro (Greene Co.)	*E. coli*	[2]	3.79E+10		8.13E+12	9.07E+11	9.07E+12	Undetermined[3]

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				WLA[1] (counts/ 30 days)	WLAsw (counts/ 30 days)	LA (counts/ 30 days)	MOS (counts/ 30 days)	TMDL (counts/ 30 days)	
Trail Creek GAR030701010505	(East Fork Trail Creek to North Oconee River, Athens (Clarke Co.)	*E. coli*	[2]			3.33E+13	3.70E+12	3.70E+13	Undetermined[3]
Tributary to Little River GAR030701011501	Eatonton to Little River (Putnam Co.)	*E. coli*	[2]			1.53E+10	1.70E+09	1.70E+10	Undetermined[3]
Tributary to North Walnut Creek GAR030701010112	Gainesville (Hall Co.)	*E. coli*	[2]			6.74E+11	7.50E+10	7.50E+11	Undetermined[3]
Turkey Creek GAR030701021104	Horse Branch to Rocky Creek (Laurens Co.)	*E. coli*	[2]	3.81E+10		3.51E+11	4.32E+10	4.32E+11	Undetermined[3]
Turkey Creek GAR030701021102	Rocky Creek to Oconee River (Laurens Co.)	*E. coli*	[2]			2.32E+12	2.58E+11	2.58E+12	Undetermined[3]
Walnut Creek GAR030701010103	Caney Fork to Middle Oconee River (Hall, Jackson Co.)	*E. coli*	[2]			7.62E+11	8.44E+10	8.44E+11	Undetermined[3]
West Fork Trail Creek GAR030701010506	Athens (Clarke Co.)	*E. coli*	[2]			2.99E+11	3.32E+10	3.32E+11	Undetermined[3]
Wheeler Creek GAR030701010204	Headwaters to Duncan Creek (Gwinnett, Barrow Co.)	*E. coli*	[2]			2.67E+11	2.97E+10	2.97E+11	Undetermined[3]

Notes:

(1) The assigned bacteria load from the NPDES permitted facility for WLA was determined as the product of the *E. coli* permit limit and the facility average monthly discharge at the time of the critical load.
(2) Samples were not analyzed for E. coli, therefore critical load calculation not possible
(3) Percent reduction could not be determined due to absence of current load calculation
(a) Stream segments identified in Table 10a with multiple ID numbers (GAR###) represent segments that have been split into smaller subsections in the biennial 305(b)/303(d) list of waters since the original issuance of the approved TMDL.