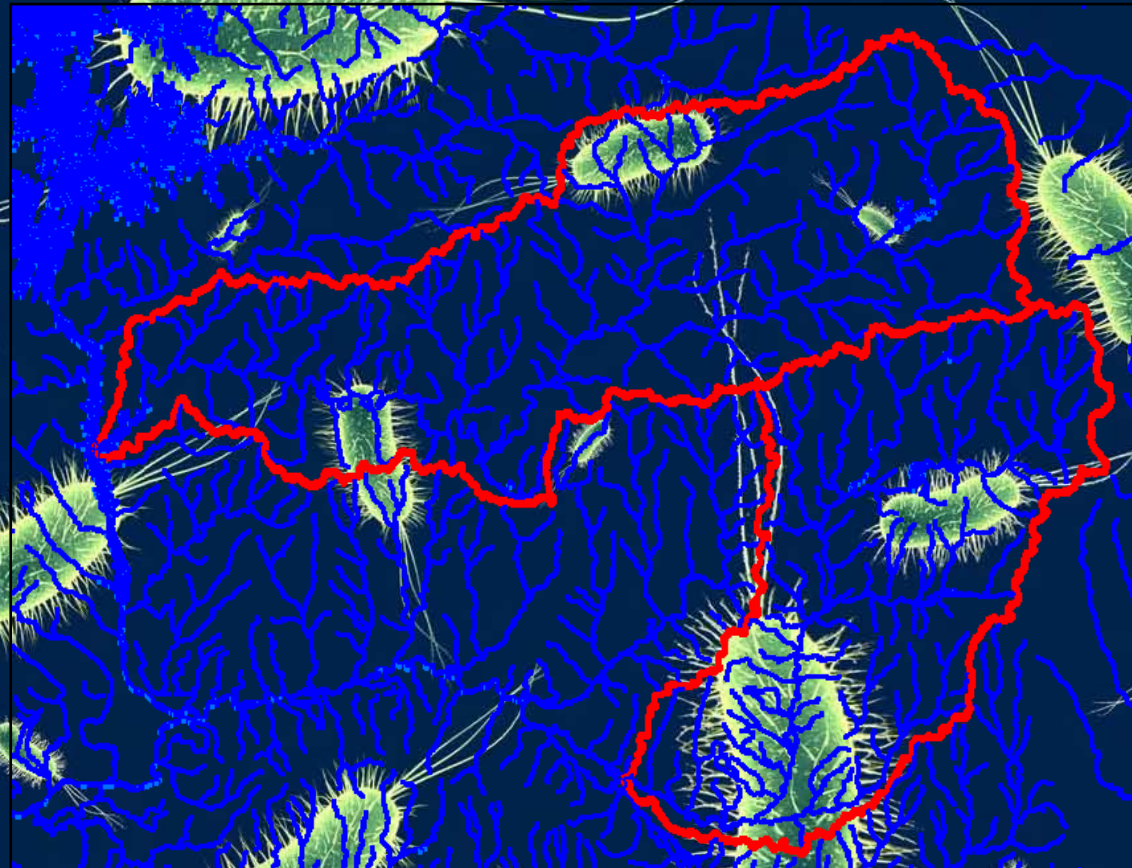


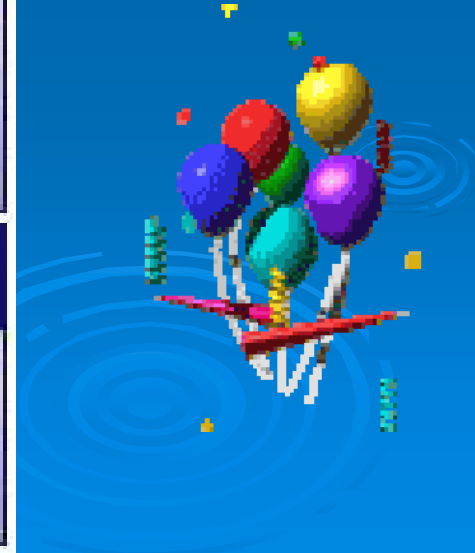
*Citizen Volunteer Bacteria Sampling
in the Saugahatchee and Chewacla
Watersheds in 2011*



Eric Reutebuch
December 8, 2012

SOS/CHEWUP 2011 Bacteria Blitzes

January	February	March
	X	
April	May	June
		X
July	August	September
	X	
October	November	December
		X

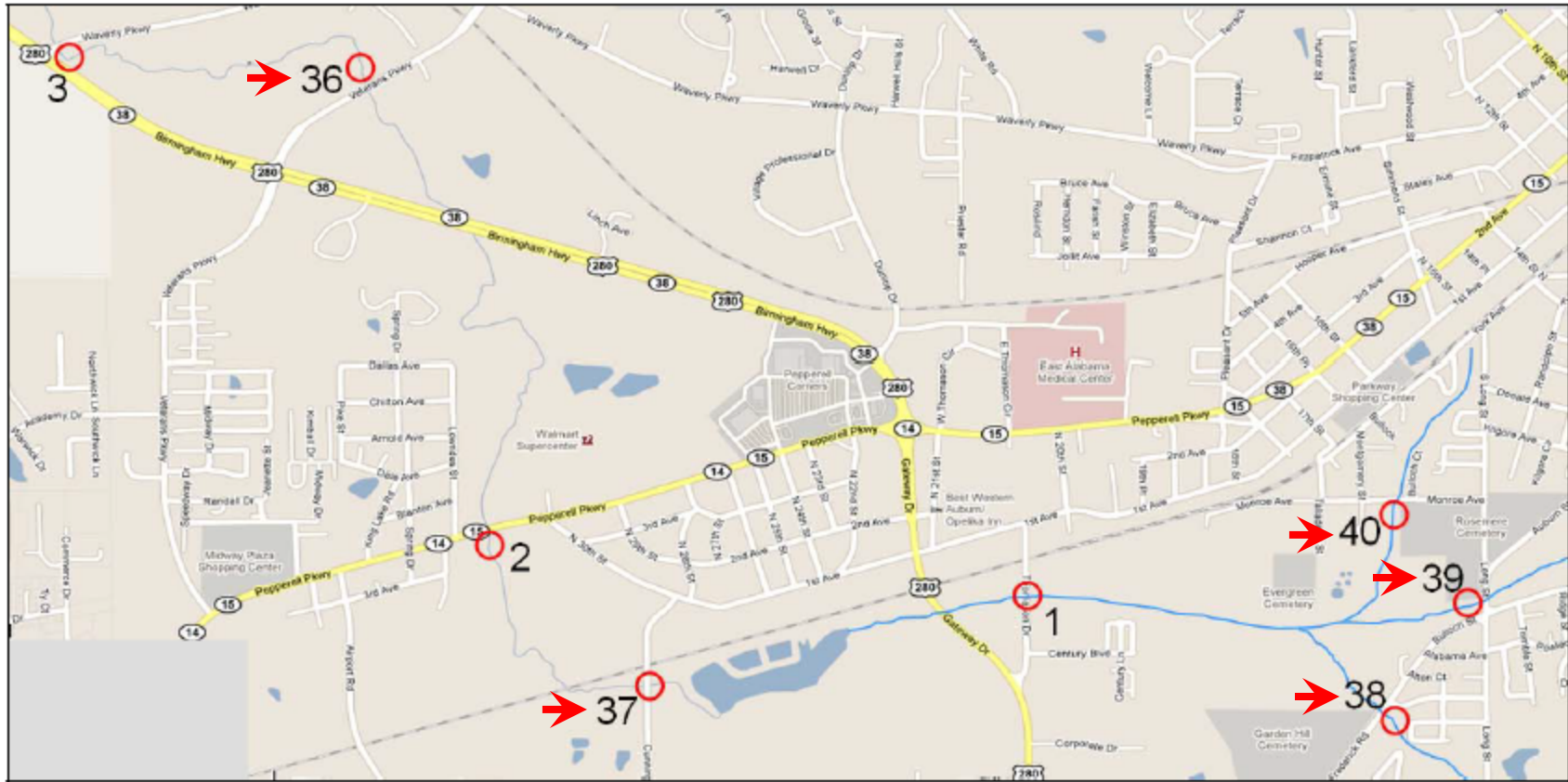


Why the expanded effort in 2011?

2010 Alabama §303(d) List

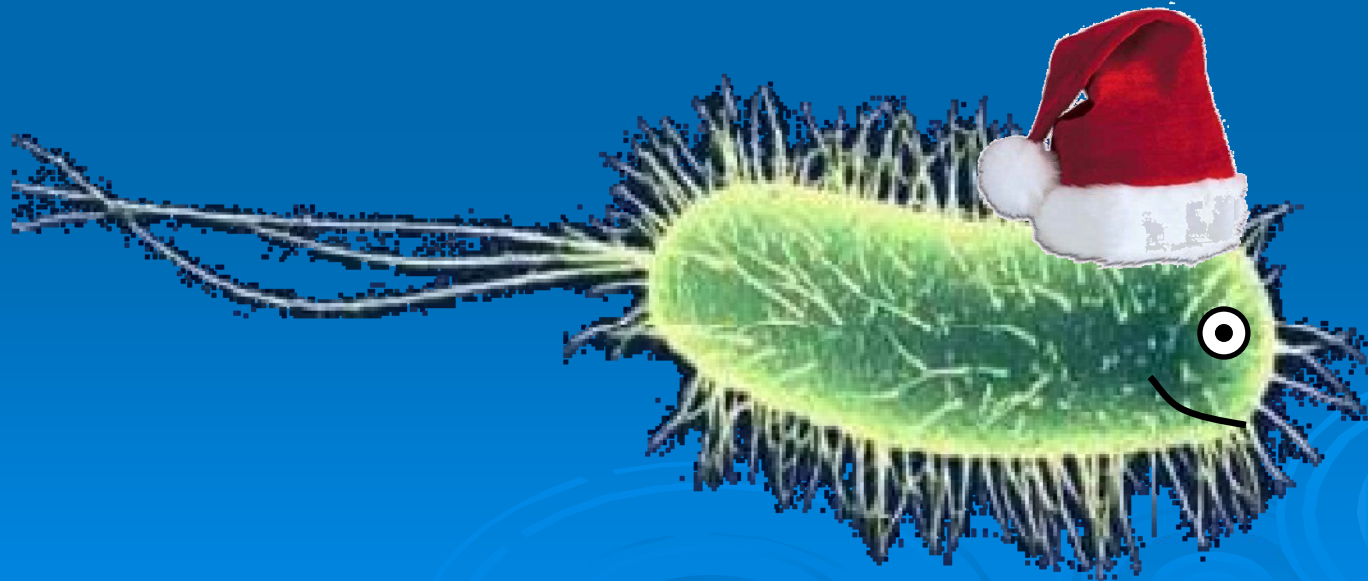
Assessment Unit ID	Waterbody Name	Type	River Basin	County	Uses	Causes	Sources	Date of Data	Size	Downstream / Upstream Locations	Year Listed	Draft TMDL Date
AL03150110-0102-700	Pepperell Branch	R	Tallapoosa	Lee	Fish & Wildlife	Pathogens	Urban runoff/storm sewers	2004-2009	6.67 miles	Sougahatchee Creek / Its source	2010	2012
AL03150110-0202-200	Parkerson Mill Creek	R	Tallapoosa	Lee	Fish & Wildlife	Pathogens	Urban runoff/storm sewers	2007	6.85 miles	Chewacla Creek / Its source	2008	2012
AL03150110-0202-300	Moore's Mill Creek	R	Tallapoosa	Lee	Swimming Fish & Wildlife	Siltation (habitat alteration)	Land development Urban runoff/storm sewers	1998	10.51 miles	Chewacla Creek / Its source	2000	2012
AL03150110-0406-200	Mill Creek	R	Tallapoosa	Macon Tallapoosa	Fish & Wildlife	Siltation (habitat alteration)	Agriculture Pasture grazing	2005	9.16 miles	Tallapoosa River / Its source	2010	2017
AL03150110-0504-101	Calebee Creek	R	Tallapoosa	Macon	Fish & Wildlife	Siltation (habitat alteration)	Agriculture Surface mining	1996	10.26 miles	Tallapoosa River / Macon County Road 9	1998	2017
AL03150110-0604-100	Cubahatchee Creek	R	Tallapoosa	Macon	Swimming Fish & Wildlife	Siltation (habitat alteration)	Agriculture Surface mining	1996	22.07 miles	Tallapoosa River / Coon Hop Creek	1998	2017
AL03150110-0603-102	Cubahatchee Creek	R	Tallapoosa	Bullock Macon	Swimming Fish & Wildlife	Siltation (habitat alteration)	Agriculture Surface mining	1996	22.37 miles	Coon Hop Creek / Its source	1998	2017
AL03150110-0603-102	Cubahatchee Creek	R	Tallapoosa	Bullock Macon	Swimming Fish & Wildlife	Pathogens	Pasture grazing	2000	22.37 miles	Coon Hop Creek / Its source	2006	2012
AL03150110-0804-101	Line Creek	R	Tallapoosa	Macon Montgomery	Fish & Wildlife	Siltation (habitat alteration)	Agriculture Surface mining	1996	10.29 miles	Tallapoosa River / Johnsons Creek	1998	2017
AL03150110-0804-102	Line Creek	R	Tallapoosa	Macon Montgomery	Fish & Wildlife	Siltation (habitat alteration)	Agriculture Surface mining	1996	5.51 miles	Johnsons Creek / Panther Creek	1998	2017
AL03150110-0904-300	Jenkins Creek	R	Tallapoosa	Montgomery	Fish & Wildlife	Siltation (habitat alteration)	Urban development	2005	13.48 miles	Tallapoosa River / Its source	2010	2017
AL06030001-0403-801	Warren Smith Creek	R	Tennessee	Jackson	Fish & Wildlife	Siltation (habitat alteration)	Surface mining-abandoned	1986 1987	1.96 miles	Dry Creek / Ross Branch	1998	2016
AL06030002-0106-101	Guess Creek	R	Tennessee	Jackson	Fish & Wildlife	Unknown toxicity Organic enrichment (CBOD, NBOD) Pathogens	Unknown source Pasture grazing	1997	11.08 miles	Paint Rock River / Bee Branch	1998	2011
AL06030002-0303-500	Hester Creek	R	Tennessee	Madison	Fish & Wildlife	Nutrients	Pasture grazing	1994-95	7.27 miles	Mountain Fork / AL-TN state line	1998	2011
AL06030002-0303-500	Hester Creek	R	Tennessee	Madison	Fish & Wildlife	Turbidity	Land development Agriculture	1999-2004	7.27 miles	Mountain Fork / AL-TN state line	2006	2011
AL06030002-0305-100	Beaverdam Creek	R	Tennessee	Madison	Fish & Wildlife	Siltation (habitat alteration)	Non-irrigated crop production Land development	1994-95	22.14 miles	Brier Fork / Its source	1998	2016
AL06030002-0306-110	Brier Fork	R	Tennessee	Madison	Fish & Wildlife	Siltation (habitat alteration)	Non-irrigated crop production Land development	1994-95	21.89 miles	Flint River / AL-TN state line	1998	2016
AL06030002-0403-112	Flint River	R	Tennessee	Madison	Fish & Wildlife	Turbidity	Land development Agriculture	1999-2004	15.32 miles	Alabama Highway 72 / Mountain Fork	2006	2016
AL06030002-0404-200	Goose Creek	R	Tennessee	Madison	Fish & Wildlife	Unknown toxicity	Agriculture	1997	8.89 miles	Flint River / Its source	1998	2011
AL06030002-0503-101	Huntsville Spring Branch	R	Tennessee	Madison	Fish & Wildlife	Pesticides (DDT)	Contaminated sediments	1993	11.08 miles	Indian Creek / Johnson Road (Huntsville Field)	1996	2016
AL06030002-0503-102	Huntsville Spring Branch	R	Tennessee	Madison	Fish & Wildlife	Metals (Arsenic, Mercury)	Urban runoff/storm sewers	1994-95	1.98 miles	Johnson Road (Huntsville Field) / Brogan Branch	2006	2016
AL06030002-0505-101	Indian Creek	R	Tennessee	Madison	Fish & Wildlife	Pesticides (DDT)	Contaminated sediments	1991 1993	7.69 miles	Tennessee River / Martin Road (Redstone Arsenal)	1996	2016
AL06030002-0601-300	Hughes Creek	R	Tennessee	Marshall	Fish & Wildlife	Siltation (habitat alteration)	Agriculture	1995	3.02 miles	Cotaco Creek /	1998	2016

SWaMP Bacteria Sampling



Blitz Code	Watershed	AWW Code	Location
1	Saugahatchee	07011003	Pepperell Branch at Thomason Dr-Opelika
2	Saugahatchee	07011010	Pepperell Branch at ball field, Opelika Rd-Opelika
3	Saugahatchee	07011004	Pepperell Branch at Waverly Parkway
36	Saugahatchee	07011043	Pepperell Branch at Veterans Parkway-Opelika
37	Saugahatchee	07011030	Pepperell Branch at Cunningham Dr-Opelika
38	Saugahatchee	07011044	Pepperell Branch at Frederick Road-Opelika (near Garden Hill Cemetary)
39	Saugahatchee	07011045	Pepperell Branch at Long Street-Opelika
40	Saugahatchee	07011046	Pepperell Branch at Monroe Avenue-Opelika (at Rosemere Cemetary)

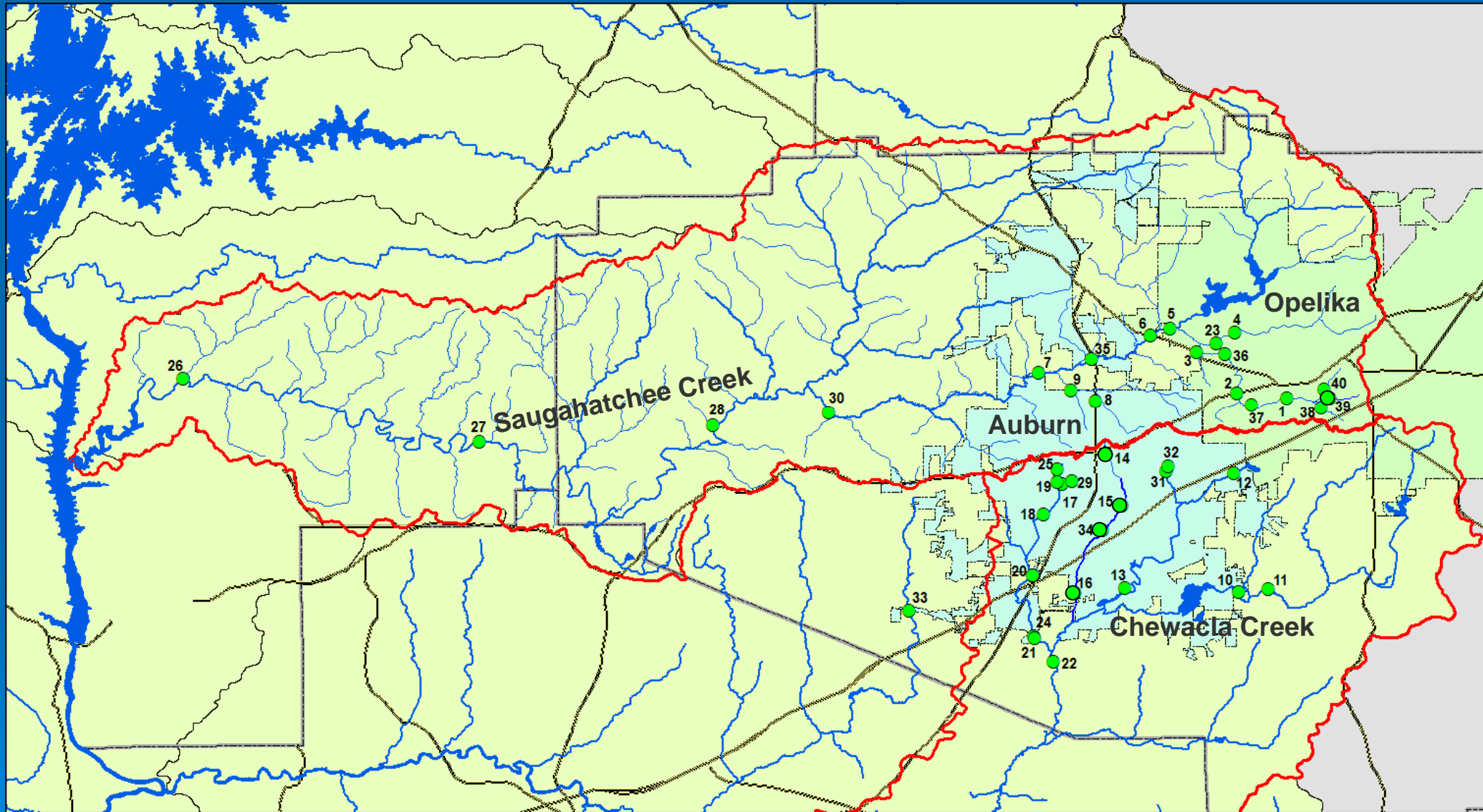
Bacteria Blitz Results for 2011



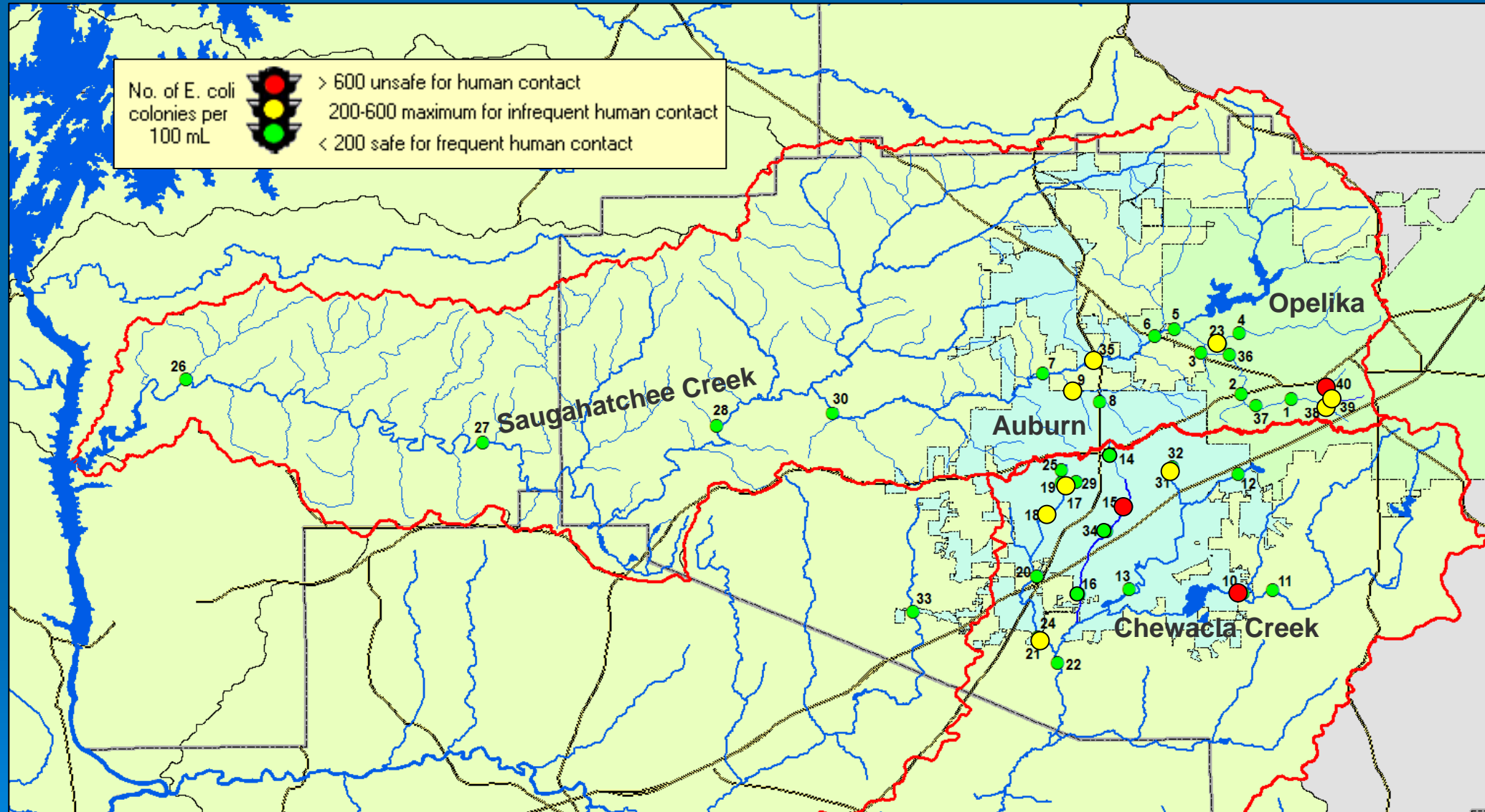
Bacteria Blitz Sites

	Watershed	AWW Code	Location
1	Chewacla	07016018	Chewacla Ck (~ 500 yards below confluence PMC/ Chewacla at Ward property)
2	Chewacla	07016020	Chewacla Ck. at Nixon's farm-above L. Ogletree, CR 27 bridge
3	Chewacla	07016011	Choctafaula Creek at Beehive Rd
4	Chewacla	07016014	Moore's Mill in Park-above Chewacla Lake at bridge in the park
5	Chewacla	07016017	Moore's Mill near I-85, at Bent Creek Road
6	Chewacla	07007005	Moore's Mill Unnamed trib at Old Mill Rd in Auburn
7	Chewacla	07016024	Moore's Mill Unnamed trib upstream of Old Mill Rd in Auburn
8	Chewacla	07016019	Nash Ck,- above L. Ogletree, ~0.5 miles above conflu. w Chewacla
9	Chewacla	07011036	Parkerson Mill Ck at Biggio Dr near basketball coliseum
10	Chewacla	07012004	Parkerson Mill Ck at Samford Ave-Auburn
11	Chewacla	07012010	Parkerson Mill Ck at Sandhill Rd (CR10; above Southside WWTP)
12	Chewacla	07018002	Parkerson Mill Ck at Shug Jordan-Auburn
13	Chewacla	07011035	Parkerson Mill Ck at Thach Ave near Rugby field
14	Chewacla	07007002	Parkerson Mill Ck at Veterans Blvd (near I-85)-Auburn
15	Chewacla	07007010	Parkerson Mill Ck at Wire Road
16	Chewacla	07011034	Parkerson Mill Ck just below effluent discharge, Southside Plant (Brian)
17	Chewacla	07011031	Town Ck at Felton Little Pk
18	Chewacla	07018003	Town Ck at Shell Toomer Parkway
19	Chewacla	07003003	Town Ck at Wright's Mill Rd school
20	Chewacla	07018004	Town Creek at East Univ./Summertrees
21	Saugahatchee	07011010	Pepperell Branch at ball field, Opelika Rd-Opelika
22	Saugahatchee	07011030	Pepperell Branch at Cunningham Dr-Opelika
23	Saugahatchee	07011044	Pepperell Branch at Frederick Road-Opelika (near Garden Hill Cemetery)
24	Saugahatchee	07011045	Pepperell Branch at Long Street-Opelika
25	Saugahatchee	07011046	Pepperell Branch at Monroe Avenue-Opelika (at Rosemere Cemetery)
26	Saugahatchee	07011003	Pepperell Branch at Thomason Dr-Opelika
27	Saugahatchee	07011043	Pepperell Branch at Veterans Parkway-Opelika
28	Saugahatchee	07011004	Pepperell Branch at Waverly Parkway (conducted by Mary/Emily)
29	Saugahatchee	07011016	Rocky Brook below discharge at Opelika Water Dept lagoons (At Siddique Nature Park)
30	Saugahatchee	07011018	Rockybrook at Saug. Lake Rd-Opelika
31	Saugahatchee	07010004	Saugahatchee at Hays Mill road
32	Saugahatchee	07011007	Saugahatchee at Lee Rd 188
33	Saugahatchee	07011033	Saugahatchee at Lee Rd 65
34	Saugahatchee	07011013	Saugahatchee at Lovelady Bridge
35	Saugahatchee	07011022	Saugahatchee at US 280
36	Saugahatchee	07011025	Saugahatchee Ck at AL 147 (North College)
37	Saugahatchee	07011028	Saugahatchee Ck at Grand National Pkw (conducted by Mary/Emily)
38	Saugahatchee	07011002	Saugahatchee Ck at N. Donahue
39	Saugahatchee	07011029	Saugahatchee trib at Hickory D. Park
40	Saugahatchee	07018010	Saugahatchee trib at US 147 (N. College)

Bacteria Blitz Sites



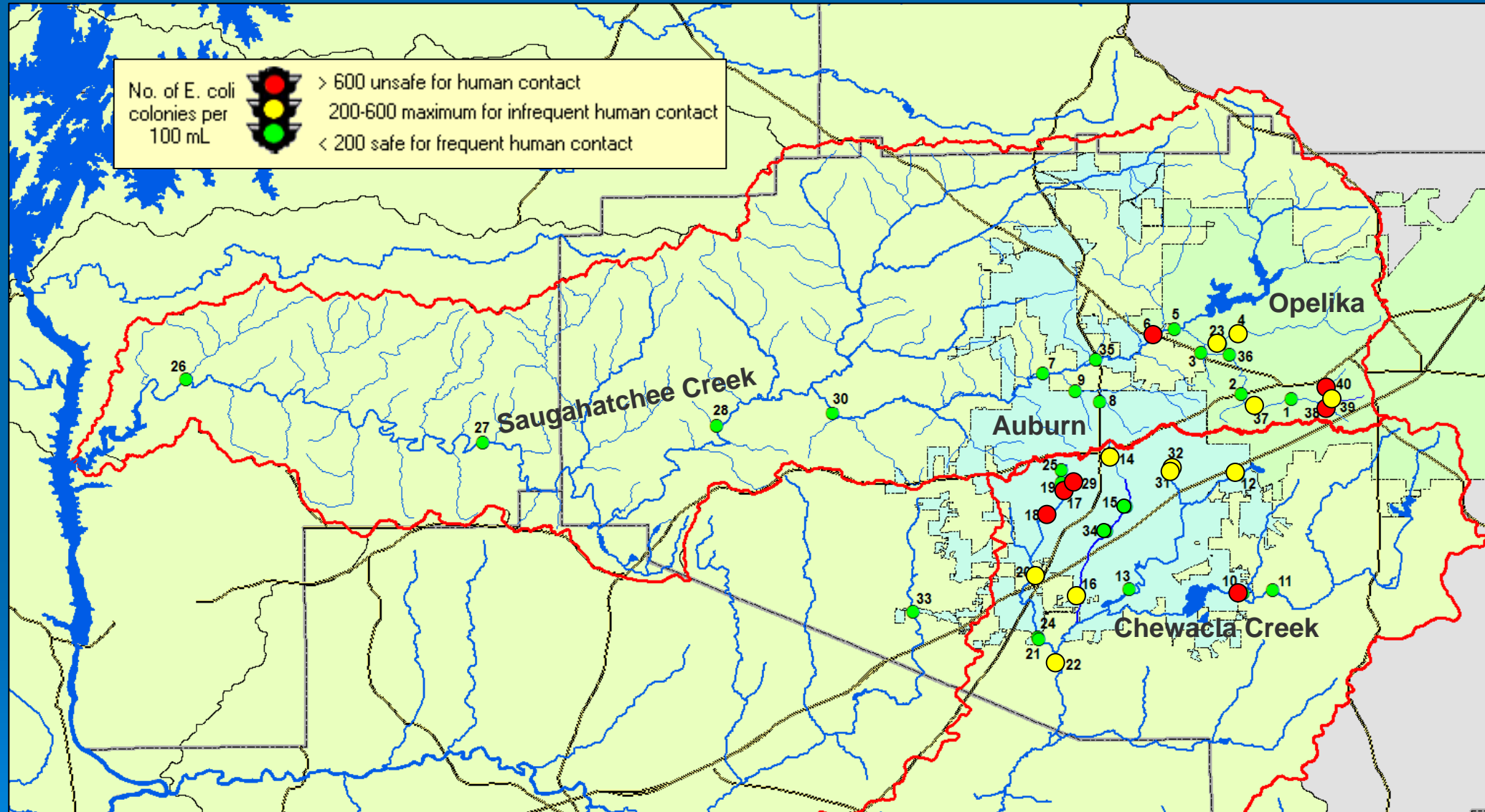
February 23, 2011 Blitz



February 23, 2011 Blitz

CliffCode	Watershed	AwwSiteCode	Mean No. E.coli/100 ml	Location
1	Saugahatchee	07011003	0	Pepperell Branch at Thomason Dr-Opelika
2	Saugahatchee	07011010	33	Pepperell Branch at ball field, Opelika Rd-Opelika
3	Saugahatchee	07011004	100	Pepperell Branch at Waverly Parkway
4	Saugahatchee	07011018	67	Rockybrook at Saug. Lake Rd-Opelika
5	Saugahatchee	07011028	0	Saugahatchee Ck at Grand National Pkw
6	Saugahatchee	07011022	167	Saugahatchee at US 280
7	Saugahatchee	07011002	.	Saugahatchee Ck at N. Donahue
8	Saugahatchee	07018010	100	Saugahatchee trib at US 147 (N. College)
9	Saugahatchee	07011029	267	Saugahatchee trib at Hickory D. Park
10	Chewacla	07016020	867	Chewacla Ck. at Nixon's farm-above L. Ogletree, CR 27 bridge
11	Chewacla	07016019	67	Nash Ck.- above L. Ogletree, ~ 0.5 miles above conflu. w Chewacla
12	Chewacla	07016017	0	Moores Mill near I-85, at Bent Creek Road
13	Chewacla	07016014	33	Moores Mill in Park-above Chewacla Lake at bridge in the park
14	Chewacla	07011031	0	Town Ck at Felton Little Pk
15	Chewacla	07003003	733	Town Ck at Wright's Mill Rd school
16	Chewacla	07018003	133	Town Ck at Shell Toomer Parkway
17	Chewacla	07012004	267	Parkerson Mill Ck at Samford Ave-Auburn
18	Chewacla	07018002	200	Parkerson Mill Ck at Shug Jordan-Auburn
19	Chewacla	07007010	133	Parkerson Mill Ck at Wire Road
20	Chewacla	07007002	0	Parkerson Mill Ck at Veterans Blvd (near I-85)-Auburn
21	Chewacla	07012010	367	Parkerson Mill Ck at Sandhill Rd (CR10; above SouthsideWWTP)
22	Chewacla	07016018	67	Chewacla Ck (~ 500 yards below confluence PMC/ Chewacla at Ward property)
23	Saugahatchee	07011016	200	Rocky Brook below discharge at Opelika lagoons (At Siddique Nature Park)
24	Chewacla	07011034	0	Parkerson Mill Ck just below effluent discharge, Southside Plant (Brian)
25	Chewacla	07011035	133	Parkerson Mill Ck at Thach Ave near Rugby field
26	Saugahatchee	07011013	33	Saugahatchee at Lovelady Bridge
27	Saugahatchee	07010004	.	Saugahatchee at Hays Mill road
28	Saugahatchee	07011033	0	Saugahatchee at Lee Rd 65
29	Chewacla	07011036	0	Parkerson Mill Ck at Biggio Dr near basketball coliseum
30	Saugahatchee	07011007	33	Saugahatchee at Lee Rd 188
31	Chewacla	07007005	267	Moores Mill Unnamed trib at Old Mill Rd in Auburn
32	Chewacla	07016024	33	Moores Mill Unnamed trib upstream of Old Mill Rd in Auburn
33	Chewacla	07016011	100	Choctafaula Creek at Beehive Rd
34	Chewacla	07018004	67	Town Creek at East Univ./Summertrees
35	Saugahatchee	07011025	267	Saugahatchee Ck at AL 147 (North College)
36	Saugahatchee	07011043	33	Pepperell Branch at Veterans Parkway-Opelika
37	Saugahatchee	07011030	33	Pepperell Branch at Cunningham Dr-Opelika
38	Saugahatchee	07011044	200	Pepperell Branch at Frederick Road-Opelika (near Garden Hill Cemetary)
39	Saugahatchee	07011045	233	Pepperell Branch at Long Street-Opelika
40	Saugahatchee	07011046	1800	Pepperell Branch at Monroe Avenue-Opelika (at Rosemere Cemetary)

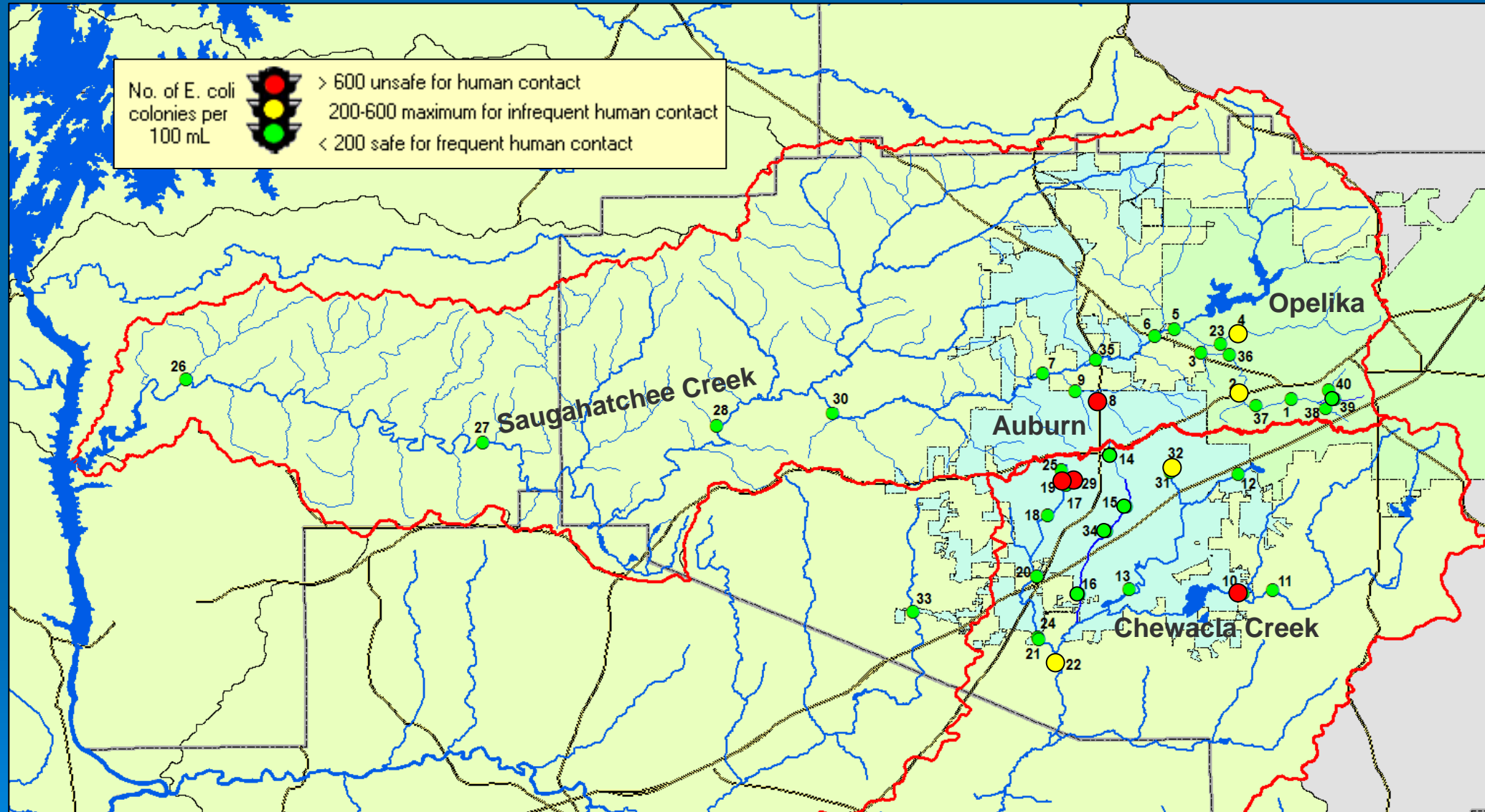
June 1, 2011 Blitz



June 1, 2011 Blitz

Cliff's code	Watershed	Mean No. E. coli/100 ml	Location
1	Saugahatchee	167	Pepperell Branch at Thomason Dr-Opelika
2	Saugahatchee	167	Pepperell Branch at ball field, Opelika Rd-Opelika
3	Saugahatchee	33	Pepperell Branch at Waverly Parkway
4	Saugahatchee	367	Rockybrook at Saug. Lake Rd-Opelika
5	Saugahatchee		Saugahatchee Ck at Grand National Pkw
6	Saugahatchee	1800	Saugahatchee at US 280
7	Saugahatchee		Saugahatchee Ck at N. Donahue
8	Saugahatchee		Trib to Saugahatchee at US 147 (N. College)
9	Saugahatchee		Trib to Saugahatchee at Hickory D. Park
10	Chewacla	1100	Chewacla Ck. at Nixon's farm-above L. Ogletree, CR 27 bridge
11	Chewacla	100	Nash Ck, - above L. Ogletree, ~ 0.5 miles above conflu. w Chewacla
12	Chewacla	600	Moore's Mill near I-85, at Bent Creek Road
13	Chewacla	0	Moore's Mill in Park-above Chewacla Lake at bridge in the park
14	Chewacla	267	Town Ck at Felton Little Pk
15	Chewacla	33	Town Ck at Wright's Mill Rd school
16	Chewacla	333	Town Ck at Shell Toomer Parkway
17	Chewacla	3567	Parkerson Mill Ck at Sanford Ave-Auburn
18	Chewacla	700	Parkerson Mill Ck at Shug Jordan-Auburn
19	Chewacla	33	Parkerson Mill Ck at Wire Road
20	Chewacla	233	Parkerson Mill Ck at Veterans Blvd (near I-85)-Auburn
21	Chewacla	167	Parkerson Mill Ck at Sandhill Rd (CR10; above SouthsideWWTP)
22	Chewacla	567	Chewacla Ck (~ 500 yards below confluence PMC/ Chewacla at Ward property)
23	Saugahatchee	567	Rocky Brook below discharge at Opelika Water Dept lagoons
24	Chewacla	0	Parkerson Mill Ck just below effluent discharge, Southside Plant
25	Chewacla	100	Parkerson Mill Ck at Thach Ave near Rugby field
26	Saugahatchee		Saugahatchee at Lovelady Bridge
27	Saugahatchee		Saugahatchee at Hays Mill road
28	Saugahatchee	0	Saugahatchee at Lee Rd 65
29	Chewacla	2233	Parkerson Mill Ck at Biggio Dr near basketball coliseum
30	Saugahatchee	33	Saugahatchee at Lee Rd 188
31	Chewacla	567	Unnamed trib to Moore's Mill Creek at Old Mill Rd in Auburn
32	Chewacla	367	Unnamed trib to Moore's Mill Creek upstream of Old Mill Rd in Auburn
33	Chewacla	67	Choctafaula Creek at Beehive Rd
34	Chewacla	167	Town Creek at East Univ./Summertrees
35	Saugahatchee		Saugahatchee Ck at AL 147 (north college)
36	Saugahatchee	33	Pepperell Branch at Veterans Parkway-Opelika
37	Saugahatchee	400	Pepperell Branch at Cunningham Dr-Opelika
38	Saugahatchee	1667	Pepperell Branch at Frederick Road-Opelika (near Garden Hill Cemetary)
39	Saugahatchee	333	Pepperell Branch at Long Street-Opelika
40	Saugahatchee	1400	Pepperell Branch at Monroe Avenue-Opelika (at Rosemere Cemetary)

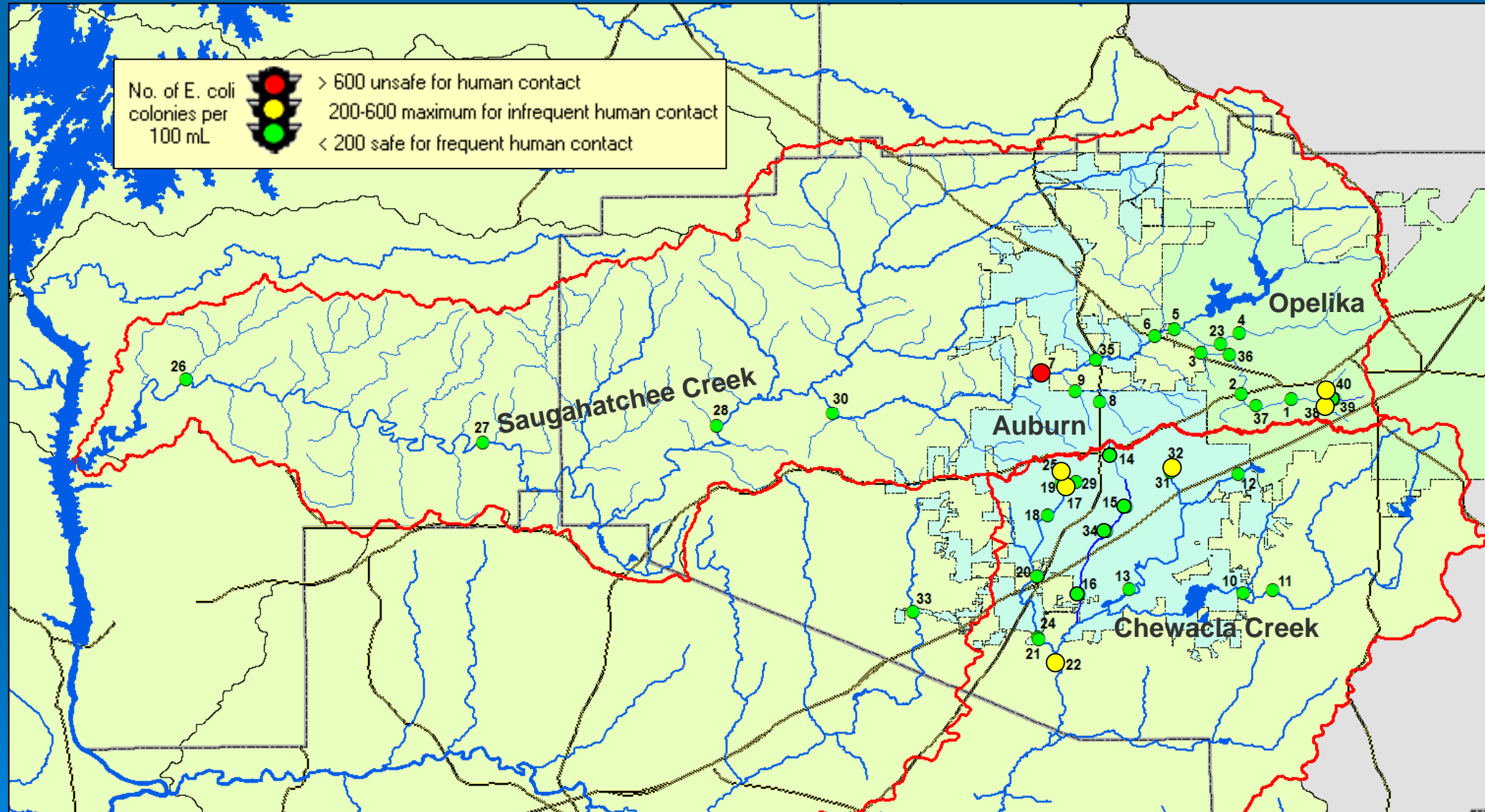
August 31, 2011 Blitz



August 31, 2011 Blitz

Cliff's code	Watershed	Mean No. E. coli colonies/100 ml	Location
1	Saugahatchee	0	Pepperell Branch at Thomason Dr-Opelika
2	Saugahatchee	233	Pepperell Branch at ball field, Opelika Rd-Opelika
3	Saugahatchee	No Sample	Pepperell Branch at Waverly Parkway
4	Saugahatchee	333	Rockybrook at Saug. Lake Rd-Opelika
5	Saugahatchee	No Sample	Saugahatchee Ck at Grand National Pkw
6	Saugahatchee	100	Saugahatchee at US 280
7	Saugahatchee	33	Saugahatchee Ck at N. Donahue
8	Saugahatchee	1,000	Trib to Saugahatchee at US 147 (N. College)
9	Saugahatchee	0	Trib to Saugahatchee at Hickory D. Park
10	Chewacla	3,700	Chewacla Ck. at Nixon's farm-above L. Ogletree, CR 27 bridge
11	Chewacla	0	Nash Ck. - above L. Ogletree, ~ 0.5 miles above conflu. w Chewacla
12	Chewacla	0	Moore's Mill near I-85, at Bent Creek Road
13	Chewacla	0	Moore's Mill in Park-above Chewacla Lake at bridge in the park
14	Chewacla	33	Town Ck at Felton Little Pk
15	Chewacla	0	Town Ck at Wright's Mill Rd school
16	Chewacla	0 (0 coliforms also, nothing on plates)	Town Ck at Shell Toomer Parkway
17	Chewacla	33	Parkerson Mill Ck at Samford Ave-Auburn
18	Chewacla	33	Parkerson Mill Ck at Shug Jordan-Auburn
19	Chewacla	2,200	Parkerson Mill Ck at Wire Road
20	Chewacla	0	Parkerson Mill Ck at Veterans Blvd (near I-85)-Auburn
21	Chewacla	0	Parkerson Mill Ck at Sandhill Rd (CR10; above SouthsideWWTP)
22	Chewacla	567	Chewacla Ck (~ 500 yards below confluence PMC/ Chewacla at Ward property)
23	Saugahatchee	167	Rocky Brook below discharge at Opelika Water Dept lagoons
24	Chewacla	33	Parkerson Mill Ck just below effluent discharge, Southside Plant
25	Chewacla	33	Parkerson Mill Ck at Thach Ave near Rugby field
26	Saugahatchee	No Sample	Saugahatchee at Lovelady Bridge
27	Saugahatchee	No Sample	Saugahatchee at Hays Mill road
28	Saugahatchee	0	Saugahatchee at Lee Rd 65
29	Chewacla	1,467	Parkerson Mill Ck at Biggio Dr near basketball coliseum
30	Saugahatchee	100	Saugahatchee at Lee Rd 188
31	Chewacla	33	Unnamed trib to Moore's Mill Creek at Old Mill Rd in Auburn
32	Chewacla	333	Unnamed trib to Moore's Mill Creek upstream of Old Mill Rd in Auburn
33	Chewacla	33	Choctaw Creek at Beehive Rd
34	Chewacla	133	Town Creek at East Univ /Summertrees
35	Saugahatchee	0 (two plates with no coliforms either, few on one)	Saugahatchee Ck at AL 147 (north college)
36	Saugahatchee	0	Pepperell Branch at Veterans Parkway-Opelika
37	Saugahatchee	67	Pepperell Branch at Cunningham Dr-Opelika
38	Saugahatchee	133	Pepperell Branch at Frederick Road-Opelika (near Garden Hill Cemetary)
39	Saugahatchee	*stagnant - no flow	Pepperell Branch at Long Street-Opelika
40	Saugahatchee	133	Pepperell Branch at Monroe Avenue-Opelika (at Rosemere Cemetary)

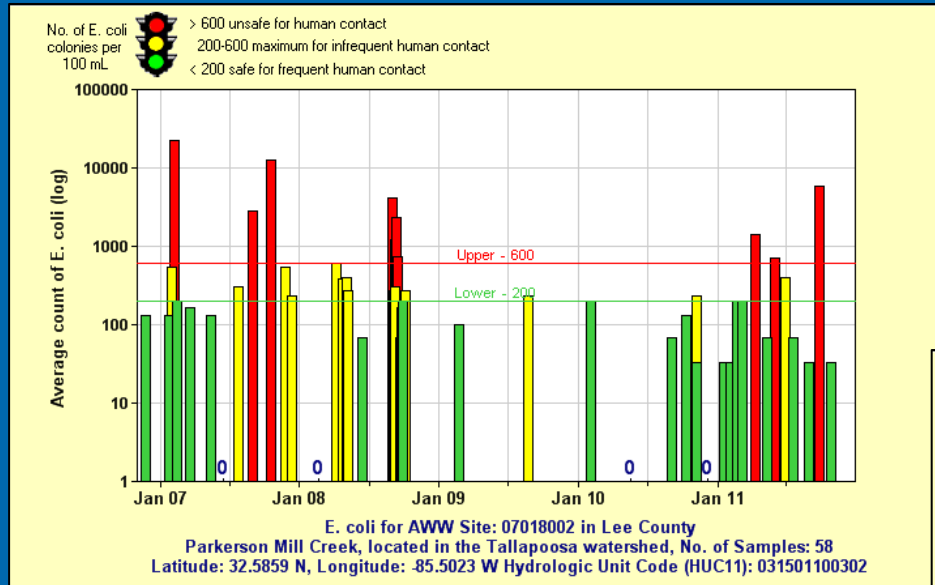
December 6, 2011 Blitz



December 6, 2011 Blitz

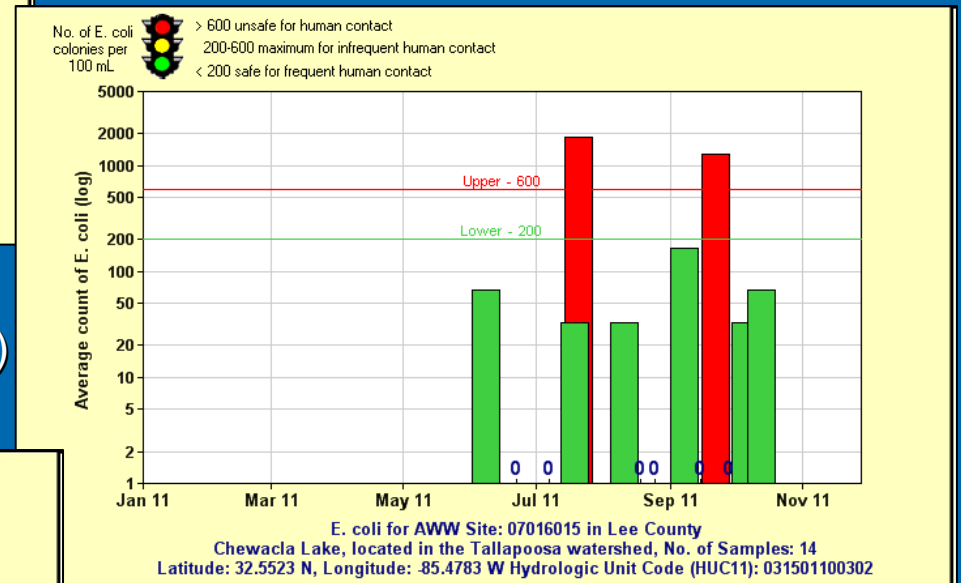
Cliff's code	Watershed	Mean No. E. coli colonies/100 ml	Location
1	Saugahatchee	167	Pepperell Branch at Thomason Dr-Opelika
2	Saugahatchee	67	Pepperell Branch at ball field, Opelika Rd-Opelika
3	Saugahatchee	No Sample	Pepperell Branch at Waverly Parkway
4	Saugahatchee	133	Rockybrook at Saug. Lake Rd-Opelika
5	Saugahatchee	No Sample	Saugahatchee Ck at Grand National Pkw
6	Saugahatchee	167	Saugahatchee at US 280
7	Saugahatchee	633	Saugahatchee Ck at N. Donahue
8	Saugahatchee	0	Trib to Saugahatchee at US 147 (N. College)
9	Saugahatchee	67	Trib to Saugahatchee at Hickory D. Park
10	Chewacla	133	Chewacla Ck. at Nixon's farm-above L. Ogletree, CR 27 bridge
11	Chewacla	33	Nash Ck,- above L. Ogletree, ~ 0.5 miles above conflu. w Chewacla
12	Chewacla	100	Moores Mill near I-85, at Bent Creek Road
13	Chewacla	33	Moores Mill in Park-above Chewacla Lake at bridge in the park
14	Chewacla	0	Town Ck at Felton Little Pk
15	Chewacla	67	Town Ck at Wright's Mill Rd school
16	Chewacla	133	Town Ck at Shell Toomer Parkway
17	Chewacla	233	Parkerson Mill Ck at Samford Ave-Auburn
18	Chewacla	67	Parkerson Mill Ck at Shug Jordan-Auburn
19	Chewacla	133	Parkerson Mill Ck at Wire Road
20	Chewacla	67	Parkerson Mill Ck at Veterans Blvd (near I-85)-Auburn
21	Chewacla	67	Parkerson Mill Ck at Sandhill Rd (CR10; above SouthsideWWTP)
22	Chewacla	267	Chewacla Ck (~ 500 yards below confluence PMC/ Chewacla at Ward property)
23	Saugahatchee	33	Rocky Brook below discharge at Opelika Water Dept lagoons
24	Chewacla	0	Parkerson Mill Ck just below effluent discharge, Southside Plant
25	Chewacla	467	Parkerson Mill Ck at Thach Ave near Rugby field
26	Saugahatchee	No Sample	Saugahatchee at Lovelady Bridge
27	Saugahatchee	No Sample	Saugahatchee at Hays Mill road
28	Saugahatchee	No Sample	Saugahatchee at Lee Rd 65
29	Chewacla	No Sample	Parkerson Mill Ck at Biggio Dr near basketball coliseum
30	Saugahatchee	No Sample	Saugahatchee at Lee Rd 188
31	Chewacla	0	Unnamed trib to Moores Mill Creek at Old Mill Rd in Auburn
32	Chewacla	567	Unnamed trib to Moores Mill Creek upstream of Old Mill Rd in Auburn
33	Chewacla	67	Choctafaula Creek at Beehive Rd
34	Chewacla	No Sample	Town Creek at East Univ./Summertrees
35	Saugahatchee	No Sample	Saugahatchee Ck at AL 147 (north college)
36	Saugahatchee	33	Pepperell Branch at Veterans Parkway-Opelika
37	Saugahatchee	67	Pepperell Branch at Cunningham Dr-Opelika
38	Saugahatchee	267	Pepperell Branch at Frederick Road-Opelika (near Garden Hill Cemetary)
39	Saugahatchee	0	Pepperell Branch at Long Street-Opelika
40	Saugahatchee	567	Pepperell Branch at Monroe Avenue-Opelika (at Rosemere Cemetary)

SOS and CHEWUP are Definitely TRENDY!

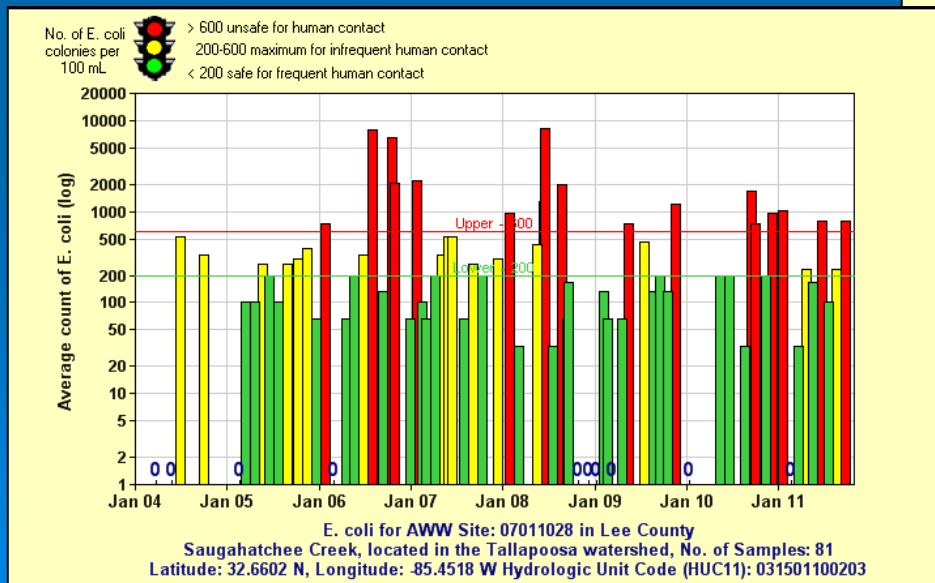


Parkerson Mill at Shug Jordan Parkway (51)

Chewacla Lake at swimming area (19)



Saugahatchee at Grand National Parkway (79)



Conclusions

- SOS/CHEWUP have completed 5 yrs of Blitzes
- The mainstem Saugahatchee is fairly clean
- 1996: SOS data = 0
- 2011: SOS data = 2,267 (1,804 wc, 463 bact.)
- 2011:Saug+Chew = 5,250 (4,384 wc, 866 bact.)
- Development of Relationships & Cooperation
- CBWM is effective in engaging people and addressing WQ problems

Inspire Others!



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AWW SUCCESS STORIES

Several volunteer monitor groups have employed AWW's Exploring Alabama's Living Streams (EALS) curriculum, AWW monitoring techniques and AWW water data from waterbodies throughout the state for environmental education in schools, and to positively impact community attitudes, water quality and water policy. Here are some examples.

Environmental Education Success Stories

Dozens of teachers have taken the EALS workshop or collaborated with AWW on various outreach events and projects to bring science and biology to life inside and beyond the classroom. One study showed that Alabama students who were taught with the EALS curriculum, along with the Alabama Cooperative Extension Service program Classroom in the Forest, over a four year period increased their Stanford Achievement Test scores (SAT 9 and SAT 10) from 50% to 70% ([click here for the story](#)).

Restoration and Protection Success Stories

Monitor groups have put their water data to work by identifying pollution problems, working in collaboration with local and state authorities to track and resolve the problems and restore water quality in streams, rivers and coastal waters. Groups have focused on the protection of threatened aquatic life, others on public health, and still others on aesthetics of the aquatic environment.

Advocacy and Water Policy Success Stories

Some monitor groups have put their water data to work to upgrade their waterbody to a higher classification or designation, which provides greater protection to water quality. Groups in the Wolf Bay Watershed, the Magnolia River Watershed and the Choctawhatchee River Watershed used their water data in successful campaigns for classification upgrades. The group monitoring in the Lake Martin Watershed was instrumental in the development of a brand new protective designation for Alabama lakes, Treasured Alabama Lake, in collaboration with ADEM and former Governor Bob Riley. According to the President of Lake Watch of Lake Martin, "Alabama Water Watch provided the training, backstopping and science-based credibility that enabled our group to pursue and achieve upgrading and protecting the lake for generations to come."

For more information, read the following stories:

Environmental Education Success Stories

- Cary Woods School wins statewide environmental education award
- Isabella Water Watchers head to state fair

Alabama Water Watch



Community-Based Watershed Stewardship
through Citizen Volunteer Monitoring of
Alabama's Lakes, Streams and Coasts

New ***AWW*** ***Brochure***

ALABAMA WATER WATCH

From Science-Based Data to Community Action

Get Certified

Collect water data with hundreds of other monitors using simple and accurate methods backed by U.S. EPA-approved quality assurance plans.

Put Your Data into Action

Work together to use water quality information to protect and restore waterbodies, raise awareness of watershed issues, improve environmental education in classrooms, and advocate improved water policies.

Share Your Experience

Tell others about the challenges and successes in your watershed to inform and motivate monitors, policy makers and the general public. Statewide success stories are featured on the AWW website.

Support AWW

Contribute your experiences, services, membership dues and gifts to ensure that AWW will continue to educate, train and empower citizens through community-based watershed stewardship for years to come.

Water Chemistry Monitoring



Conduct simple chemistry tests, such as dissolved oxygen and pH, to assess pollution.

Bacteriological Monitoring



Test for waterborne pathogens, including *E. coli* and other coliform bacteria.

Stream Biomonitoring



Survey macroinvertebrates or "aquatic bugs" to determine stream health.

Restoration and Protection

Citizens and scientists have used AWW monitoring techniques to evaluate and protect the habitat of an endangered fish in the Birmingham area called the Watercress Darter. AWW volunteers are also actively involved in watershed management plans for long-term protection of water quality.



The Watercress Darter, *Etheostoma nuchale*, is only found in five springs in Alabama.

Environmental Education

AWW data and test kits have been successfully used by educators to teach about water, conduct science projects, and enable children to monitor local streams. Many teachers and classes have won local and statewide awards for this work. AWW has developed an aquatic science curriculum endorsed by the Alabama Math, Science and Technology Initiative that is used by scores of teachers statewide.



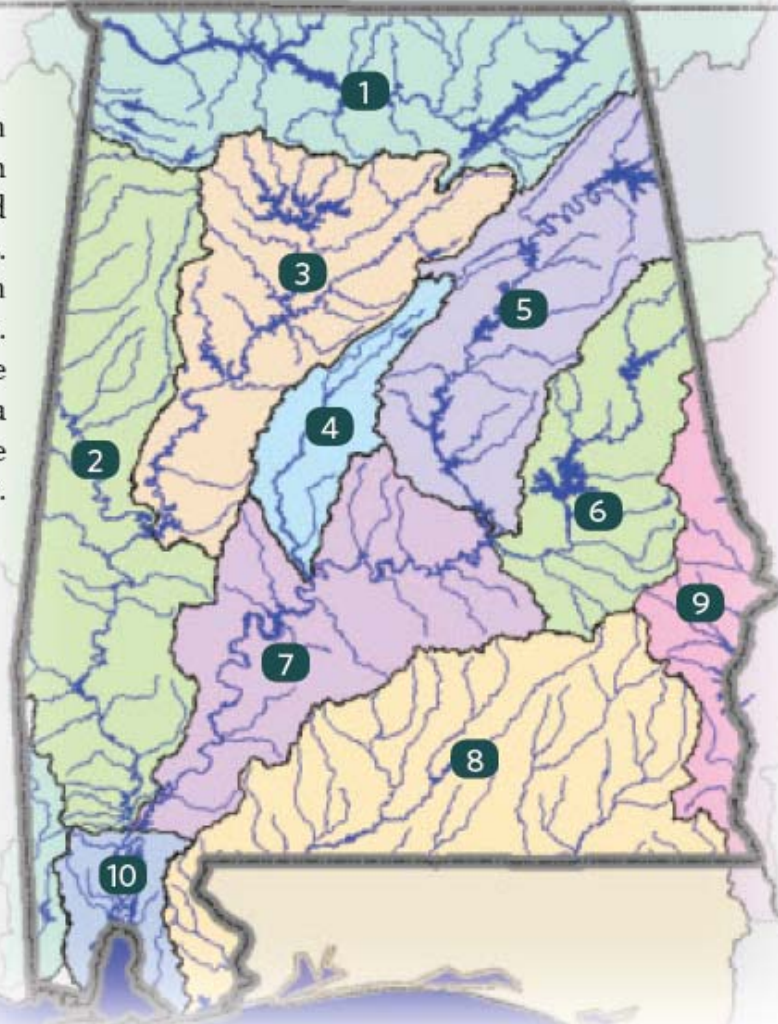
Huntsville Highlands 4th grade class won the Best Environmental Education Program (BEEP) Award using AWW techniques.

Advocacy and Water Policy

AWW groups have used their long-term data and intimate knowledge of their waterbodies to make cases for greater legal protection by the state. Groups on Wolf Bay and the Magnolia River advocated and achieved the highest state classification for their waterbodies, Outstanding Alabama Water. The AWW group on Lake Martin was influential in getting the Alabama Treasured Lake designation.



The Governor of Alabama signed an Executive Order designating Lake Martin as the first Alabama Treasured Lake.



Alabama's Watersheds

1. Tennessee
2. Tombigbee
3. Black Warrior
4. Cahaba
5. Coosa
6. Tallapoosa
7. Alabama
8. Coastal Plain Streams
9. Chattahoochee
10. Mobile

Visit our website at alabamawaterwatch.org



Thank You, Miss Rita!



Thank You, Cliff!



Thank You:

➤ SOS and CHEWUP monitors!

➤ World Wildlife Fund!



➤ Alabama Water Watch



➤ ADEM



➤ The Cities of Auburn and Opelika