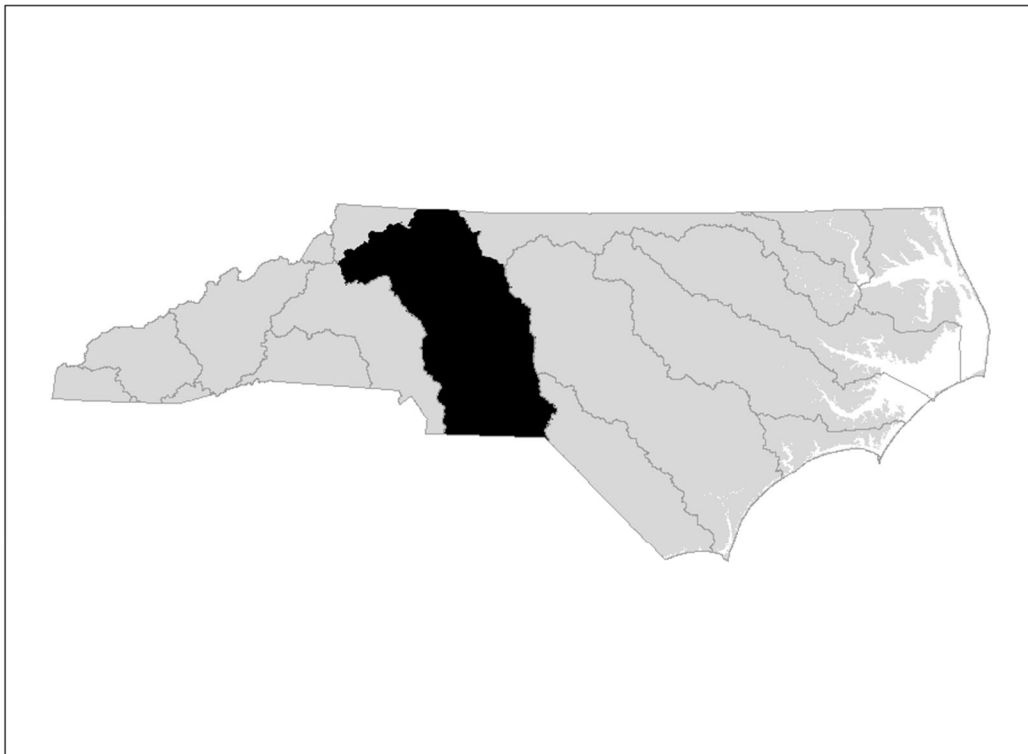


**Yadkin-Pee Dee River Basin
Basinwide Assessment Report
Whole Effluent Toxicity Program
2007-2011**



The Division of Water Quality's Whole Effluent Toxicity Monitoring Program

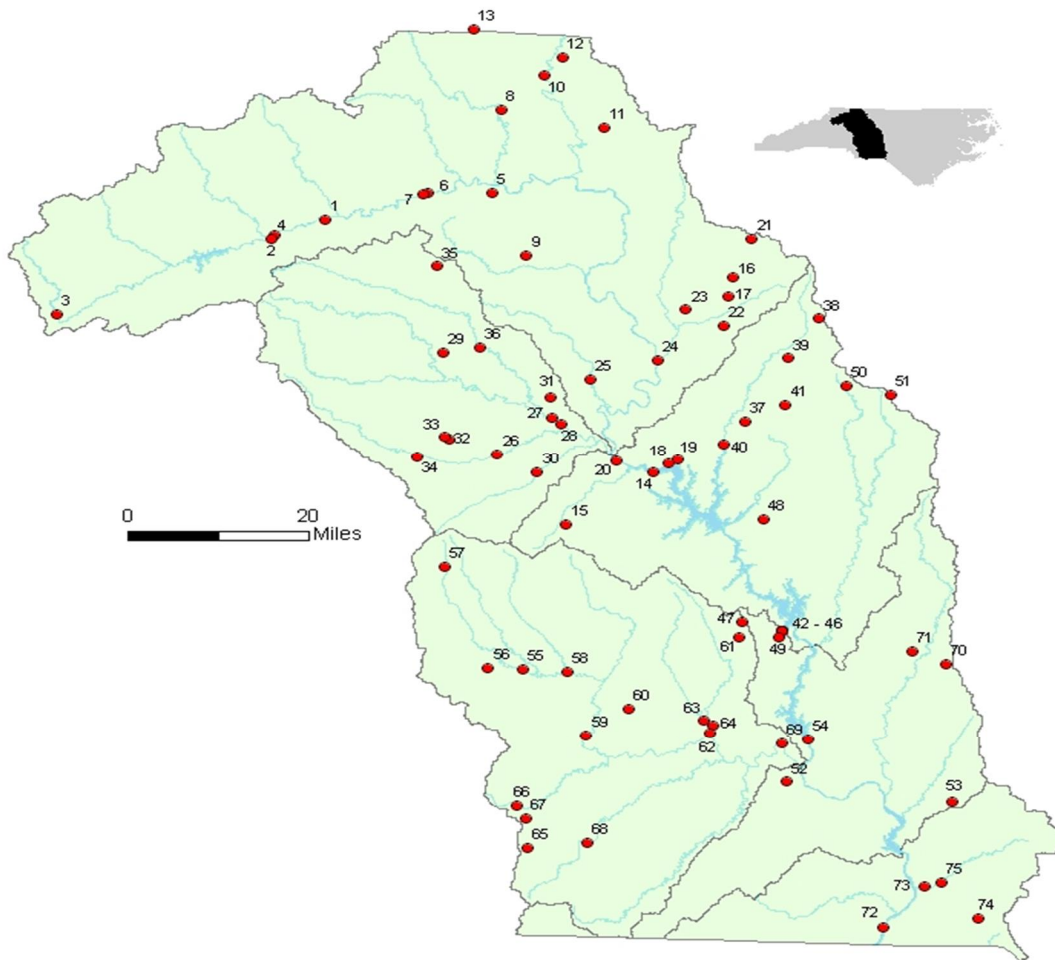
Acute and/or chronic toxicity tests are used to determine toxicity of discharges to sensitive aquatic species (usually fathead minnow, *Pimephales promelas* or the water flea, *Ceriodaphnia dubia*). Results of these tests have been shown by researchers to be predictive of a discharge impacts to receiving stream populations.

Many facilities are required to monitor whole effluent toxicity (WET) by their NPDES permit. Facilities without monitoring requirements may have their effluents evaluated for toxicity by DWQ's Aquatic Toxicology Laboratory. If toxicity is detected, DWQ may require aquatic toxicity testing upon permit renewal.

DWQ's Aquatic Toxicology Unit maintains a compliance summary for all facilities required to perform tests and provides a monthly update of this information to Regional Offices and DWQ administration. Ambient toxicity tests can be used to evaluate stream water quality relative to other stream sites and/or a point source discharge. All facilities are compliant for the 5-year basin cycle for the period of 2006-2011.

WET Monitoring in the Yadkin-Pee Dee River Basin 2007-2011

Seventy-five facility permits in the Yadkin-Pee Dee River basin currently require WET monitoring (Figure 1). Seventy-four facility permits have a WET limit while one requires monitoring without a limit.



Key

1	LP Corp - Roaring River WWTP	16	Flakt Products, Inc	31	Mocksville WWTP Bear Creek	46	Alcoa-013	61	Albemarle WWTP
2	North Wilkesboro WWTP	17	Lucent Technologies, Inc	32	Southern States Coop./S.S. Fertilizer	47	Dawson International Prop-Albemarle	62	Aquadale Quarry/002
3	Omni Supply Inc.	18	Norfolk Southern Railway Co	33	Statesville Fourth Creek WWTP	48	Denton WWTP	63	Oakboro WWTP-001
4	Wilkesboro Cub Creek WWTP	19	PPG Industries Lexington Plant	34	Statesville Third Creek WWTP	49	Greater Badin Water & Sewer District	64	Oakboro WWTP-002
5	Boonville WWTP	20	Salisbury-Rowan Regional WWTP	35	Transportation, NC Dept of-Yadkin	50	Furniture Illustrators, Inc.	65	Alvac-Monroe Plant
6	Elkin WWTP	21	Scarlett Acres	36	Tyson Foods Inc-Harmony Division	51	Trinity American Corporation	66	Crooked Creek WWTP #2
7	Interface Fabrics Group, Elkin WWTP	22	Three R's MHP	37	Centerclair Nursing Home	52	Cookson GW Remdiation System	67	Equipment & Supply, Inc.
8	Wayne Farms-Dobson Plant	23	Winston-Salem Archie Elledge WWTP	38	High Point Care Center	53	Ellerbe WWTP	68	Monroe WWTP
9	Yadkinville WWTP	24	Winston-Salem Lower Muddy Cr	39	High Point Westside WWTP	54	Mt. Gilead WWTP	69	Norwood WWTP
10	Mt. Airy WWTP	25	Mocksville WWTP Dutchman's Cr	40	Lexington Regional WWTP	55	Chemical Specialties, Inc.	70	Biscoe WWTP
11	Pilot Mountain WWTP	26	Cleveland WWTP	41	Thomasville-Hamby Creek WWTP	56	CMUD-Mallard Cr. WWTP	71	Tru WWTP
12	Surry County-Flat Rock Elem. School	27	CNA Holdings / Needmore Rd Landfill	42	Alcoa-002	57	Mooreville-Rocky River WWTP	72	Anson Co. WWTP
13	Transportation, NC Dept of - Surry	28	Cooleemee WWTP-Town of Mocksville	43	Alcoa-005	58	Concord Rocky River WWTP	73	Burlington industries WWTP
14	Duke Power-Buck Steam	29	Harmony WWTP	44	Alcoa-011	59	Corning Inc.- Midland Fiber Facility	74	Hamlet WWTP
15	Fieldcrest Mills	30	INVISTA S.a.r.l. - Salisbury	45	Alcoa-012	60	Dixie Yarns, Inc	75	Rockingham WWTP