

Appendix IV – New River Subbasin Permits & Algal Blooms

Table IV-1 New River Subbasin NPDES Wastewater Permits

Permit Number	Facility Name	Owner	Permit Status	Permit Type	County	Permit Flow (mgd)	HUC 10
NC0002585	A-1 Cleaners WWTP	A-1 Cleaners & Laundry Inc	Active	Industrial Process & Commercial Wastewater Discharge	Onslow	0.008	0302030201
NC0056952	Blue Creek WWTP	Blue Creek Utilities Inc	Active	Discharging 100% Domestic < 1MGD	Onslow	0.100	0302030201
NCG510476	former Dash N Go #4	A G Lee Oil Co Inc	Active	Groundwater Remediation Wastewater Discharge COC	Onslow		0302030201
NC0071706	Hinson Arms Apartments WWTP	Skinson LLC	Active	Discharging 100% Domestic < 1MGD	Onslow	0.015	0302030201
NC0036226	Lauradale WWTP	Scientific Water & Sewerage Corporation	Active	Discharging 100% Domestic < 1MGD	Onslow	0.400	0302030201
NC0021482	Maysville WWTP	Town of Maysville	Active	Municipal Wastewater Discharge, < 1MGD	Jones	0.180	0302030201
NC0088455	New Frontier Way Nanofiltration WTP	City of Jacksonville	Active	Water Plants and Water Conditioning Discharge	Onslow		0302030201
NC0028215	Osprey Cove North WWTP	118 Broadhurst LLC	Active	Discharging 100% Domestic < 1MGD	Onslow	0.100	0302030201
NC0028223	Osprey Cove South WWTP	Osprey Cove South LLC	Active	Discharging 100% Domestic < 1MGD	Onslow	0.040	0302030201
NC0062294	Rock Creek Golf & Country Club WWTP	Rock Creek Environmental Company Inc	Active	Discharging 100% Domestic < 1MGD	Onslow	0.115	0302030201
NC0051853	Southgate Mobile Home Park WWTP	Aragona Brothers Inc	Active	Discharging 100% Domestic < 1MGD	Onslow	0.020	0302030201
NC0084395	ABC One Hour Cleaners remediation site	US EPA Region 4	Active	Groundwater Remediation Discharge	Onslow	0.216	0302030203

Permit Number	Facility Name	Owner	Permit Status	Permit Type	County	Permit Flow (mgd)	HUC 10
NCG530147	B F Millis & Sons Seafood - Sneads Ferry	B F Millis & Sons Inc	Active	Fish Farms, Packing and Rinsing Wastewater Discharge COC	Onslow		0302030203
NC0034339	Cabin Creek Campground & RV Park WWTP	Gary Lee Watkins	Active	Discharging 100% Domestic < 1MGD	Onslow	0.018	0302030203
NC0036676	Collins Estates Mobile Home Park WWTP	Collins Estate Jacksonville NC LLC	Active	Discharging 100% Domestic < 1MGD	Onslow	0.025	0302030203
NC0083551	Dixon WTP	Onslow Water and Sewer Authority	Active	Water Plants and Water Conditioning Discharge	Onslow		0302030203
NC0063029	Frenchs Creek Advanced WWTP	Commanding Officer Marine Corps Base Camp Lejeune	Active	Industrial Process & Commercial Wastewater Discharge	Onslow	15.000	0302030203
NC0034991	Hickory Grove Subdivision WWTP	Onslow Water and Sewer Authority	Active	Municipal Wastewater Discharge, < 1MGD	Onslow	0.023	0302030203
NC0062359	Horse Creek Farms WWTP	Old North State Water Company LLC	Active	Discharging 100% Domestic < 1MGD	Onslow	0.100	0302030203
NC0089745	Marine Corp Base Camp Lejeune Consolidated Water Treatment Plant	Commanding Officer Marine Corps Base Camp Lejeune	Active	Water Plants and Water Conditioning Discharge	Onslow		0302030203
NC0032239	Regalwood WWTP	Carolina Water Service Inc of North Carolina	Active	Discharging 100% Domestic < 1MGD	Onslow	0.125	0302030203
NC0022462	Sherwood Mobile Home Park WWTP	Sherwood Mobile Home Park Associates LP	Active	Discharging 100% Domestic < 1MGD	Onslow	0.060	0302030203
NC0031577	White Oak Estates WWTP	Carolina Water Service Inc of North Carolina	Active	Discharging 100% Domestic < 1MGD	Onslow	0.220	0302030203
NCG530141	UNCW Center for Marine Science	University of NC at Wilmington	Active	Fish Farms, Packing and Rinsing Wastewater Discharge COC	New Hanover		0302030205

Table IV-2 New River Subbasin NPDES Non-Discharge Permits

Permit Number	Permit Type	Facility Name	County	Permit Flow (mgd)	HUC 10
WQ0033770	High Rate Infiltration	Carolina Plantation WWTP	Onslow	0.300	0302030201
WQ0034367	High Rate Infiltration	Northwest Regional WRF	Onslow	1.273	0302030201
WQ0035809	High Rate Infiltration	Stateside WWTP	Onslow	0.100	0302030201
WQ0012492	Land Application of Residual Solids (503)	Blake Farms Residuals Land Application Program	Onslow	-	0302030201
WQ0012346	Distribution of Residual Solids (503)	US MCB Camp Lejeune DCAR	Onslow	-	0302030202
WQ0029601	Reclaimed Water	Southwest Plantation WWTF	Onslow	0.250	0302030202
WQ0002571	Wastewater Irrigation	Village Oaks Mobile Home Park WWTF	Onslow	0.013	0302030202
WQ0009267	Wastewater Irrigation	City of Jacksonville WWTF	Onslow	9.000	0302030202
WQ0029475	Wastewater Irrigation	Sterling Farms WWTP	Onslow	0.186	0302030202
WQ0033896	Single-Family Residence Wastewater Irrigation	557 Belt Rd. SFR	Pender	-	0302030203
WQ0000795	Wastewater Irrigation	Town of Surf City WWTF	Onslow	7.567	0302030203
WQ0019907	Wastewater Irrigation	Holly Ridge WWTF	Onslow	0.261	0302030203
WQ0005849	High Rate Infiltration	Pluris North Topsail WWTF	Onslow	15.426	0302030203
WQ0029945	High Rate Infiltration	Summerhouse WWTF	Onslow	0.341	0302030203
WQ0001664	High Rate Infiltration	Belvedere Plantation WWTF	Pender	0.300	0302030204
WQ0028785	High Rate Infiltration	Queens Grant WWTP	Pender	0.020	0302030204
WQ0030088	High Rate Infiltration	Majestic Oaks WWTP	Pender	0.060	0302030204
WQ0022052	Reclaimed Water	Hampstead Pines WWTP	Pender	0.024	0302030204

Table IV-3 New River Subbasin NPDES Stormwater Permits

Permit Number	Facility Name	Owner Type	County	Permit Type	HUC 10
NCG020243	Fill Dirt Pit - Catherine Lake	Organization	Onslow	Mining Activities Stormwater Discharge COC	0302030201
NCG020255	Onslow Quarry - Richlands	Organization	Onslow	Mining Activities Stormwater Discharge COC	0302030201
NCG020507	Humphrey Minerals Mine - Richlands	Organization	Onslow	Mining Activities Stormwater Discharge COC	0302030201
NCG020523	Venters Pit - Catherine Lake	Organization	Onslow	Mining Activities Stormwater Discharge COC	0302030201
NCG020745	Garner Sandpit - Richlands	Individual	Onslow	Mining Activities Stormwater Discharge COC	0302030201
NCG110149	Northwest Regional WRF	Organization	Onslow	Municipal WWTP > 1MGD, Stormwater Discharge, COC	0302030201
NCG140027	Jacksonville - East Thompson Street Facility	Organization	Onslow	Ready Mix Concrete Stormwater/Wastewater Discharge COC	0302030201
NCG140135	Ready Mixed Concrete Co. - Jacksonville, Plant 49	Organization	Onslow	Ready Mix Concrete Stormwater/Wastewater Discharge COC	0302030201
NCG140428	Burton Industrial Park Concrete Plant for S T Wooten Corporation	Organization	Onslow	Ready Mix Concrete Stormwater/Wastewater Discharge COC	0302030201
NCG140428	Burton Industrial Park Concrete Plant for S T Wooten Corporation	Organization	Onslow	Ready Mix Concrete Stormwater/Wastewater Discharge COC	0302030201
NCG070187	Cape Fear Precast Mildred Thomas Crt Facility	Organization	Onslow	Stone, Clay, Glass, and Concrete Products Stormwater Discharge COC	0302030201

Permit Number	Facility Name	Owner Type	County	Permit Type	HUC 10
NCG080328	Waste Management of Jacksonville Terminal	Organization	Onslow	Transportation w/Vehicle Maintenance/Petroleum Bulk/Oil Water Separator Stormwater Discharge COC	0302030201
NCG100205	East Coast Imports - Richlands	Organization	Onslow	Used Motor Vehicle Parts Stormwater Discharge COC	0302030201
NCG160236	ST Wooten Corp - Jacksonville Asphalt	Organization	Onslow	Asphalt Paving Mixture Stormwater Discharge COC	0302030202
NCG120023	Meadowview Road County Landfill	Organization	Onslow	Landfill Stormwater Discharge COC	0302030202
NCG030095	Stanadyne LLC - Jacksonville	Organization	Onslow	Metal Fabrication Stormwater Discharge COC	0302030202
NCG020186	W R Willis Mine - North Jacksonville	Organization	Onslow	Mining Activities Stormwater Discharge COC	0302030202
NCG020280	Eastern Excavating Mine - North Jacksonville	Organization	Onslow	Mining Activities Stormwater Discharge COC	0302030202
NCG020755	Morton Mine - Jacksonville	Organization	Onslow	Mining Activities Stormwater Discharge COC	0302030202
NCG020770	Onslow Sands - East Jacksonville	Organization	Onslow	Mining Activities Stormwater Discharge COC	0302030202
NCG020785	Onslow Sands, Inc. - Sand Mine	Organization	Onslow	Mining Activities Stormwater Discharge COC	0302030202
NCG020833	Halltown Road Mine	Organization	Onslow	Mining Activities Stormwater Discharge COC	0302030202
NCG020945	Pete Morton Pit	Organization	Onslow	Mining Activities Stormwater Discharge COC	0302030202
NCG020962	French Creek Borrow Pit	Organization	Onslow	Mining Activities Stormwater Discharge COC	0302030202
NCG110152	City of Jacksonville WWTF	Organization	Onslow	Municipal WWTP > 1MGD, Stormwater Discharge, COC	0302030202

Permit Number	Facility Name	Owner Type	County	Permit Type	HUC 10
NCG140475	DPD Team Concrete - Jacksonville	Organization	Onslow	Ready Mix Concrete Stormwater/Wastewater Discharge COC	0302030202
NCS000290	Camp Lejeune Marine Corps Base	Organization	Onslow	Stormwater Discharge, Individual (MS4)	0302030202
NCS000399	Jacksonville - Small MS4	Organization	Onslow	Stormwater Discharge, Individual (MS4)	0302030202
NCG210453	Four Points Recycling, LLC (Pender County Site)	Organization	Pender	Timber Products Stormwater Discharge COC	0302030202
NCG080374	United Parcel Service - Jacksonville	Organization	Onslow	Transportation w/Vehicle Maintenance/Petroleum Bulk/Oil Water Separator Stormwater Discharge COC	0302030202
NCG080768	Sunway Charters	Organization	Onslow	Transportation w/Vehicle Maintenance/Petroleum Bulk/Oil Water Separator Stormwater Discharge COC	0302030202
NCG080902	Jacksonville Bin	Organization	Onslow	Transportation w/Vehicle Maintenance/Petroleum Bulk/Oil Water Separator Stormwater Discharge COC	0302030202
NCG100119	Foss Auto Salvage - Northeast Jacksonville	Organization	Onslow	Used Motor Vehicle Parts Stormwater Discharge COC	0302030202
NCG100129	Eastside Auto Salvage - Jacksonville	Individual	Onslow	Used Motor Vehicle Parts Stormwater Discharge COC	0302030202
NCG060315	Holly Ridge Processing Facility	Organization	Onslow	Food/Tobacco/Soaps/Cosmetics/Public Warehousing Stormwater Discharge COC	0302030203
NCG020929	Wellman Mine	Organization	Onslow	Mining Activities Stormwater Discharge COC	0302030203

Permit Number	Facility Name	Owner Type	County	Permit Type	HUC 10
NCG140022	Onslow County - Holly Ridge Facility	Organization	Onslow	Ready Mix Concrete Stormwater/Wastewater Discharge COC	0302030203
NCG140399	Sneads Ferry Ready-Mix Concrete Plant #21	Organization	Onslow	Ready Mix Concrete Stormwater/Wastewater Discharge COC	0302030203
NCG140479	Crete Solutions Wilmington	Organization	New Hanover	Ready Mix Concrete Stormwater/Wastewater Discharge COC	0302030203
NCG140483	Crete Solutions Holly Ridge Plant	Organization	Onslow	Ready Mix Concrete Stormwater/Wastewater Discharge COC	0302030203
NCG190039	Swan Point Marina - Sneads Ferry	Organization	Onslow	Ship and Boat Building Stormwater Discharge COC	0302030203
NCG190060	Anchors Away Boatyard - Hampstead	Organization	Pender	Ship and Boat Building Stormwater Discharge COC	0302030204
NCG190093	Mark Lewis Crewboats Inc	Organization	Pender	Ship and Boat Building Stormwater Discharge COC	0302030204
NCG190009	Creekside Yacht Club - Bradley Creek	Organization	New Hanover	Ship and Boat Building Stormwater Discharge COC	0302030205
NCG190029	Masonboro Yacht Club & Marina - Trails End Rd	Organization	New Hanover	Ship and Boat Building Stormwater Discharge COC	0302030205
NCG190035	Inlet Watch Yacht Club - Hwy 421 S	Organization	New Hanover	Ship and Boat Building Stormwater Discharge COC	0302030205
NCG190038	Atlantic Marine - Wrightsville Beach	Organization	New Hanover	Ship and Boat Building Stormwater Discharge COC	0302030205
NCG190043	The Landing Yacht Club	Organization	New Hanover	Ship and Boat Building Stormwater Discharge COC	0302030205
NCG190074	MarineMax - Wrightsville Beach	Organization	New Hanover	Ship and Boat Building Stormwater Discharge COC	0302030205
NCG190099	Carolina Beach Marina, LLC	Organization	New Hanover	Ship and Boat Building Stormwater Discharge COC	0302030205

Permit Number	Facility Name	Owner Type	County	Permit Type	HUC 10
NCG190110	Atlantic Marine Inc - Service Center	Organization	New Hanover	Ship and Boat Building Stormwater Discharge COC	0302030205
NCS000394	Carolina Beach - Small MS4	Organization	New Hanover	Stormwater Discharge, Individual (MS4)	0302030205
NCS000406	Wilmington - Small MS4	Organization	New Hanover	Stormwater Discharge, Individual (MS4)	0302030205
NCS000445	Wrightsville Beach - Small MS4	Organization	New Hanover	Stormwater Discharge, Individual (MS4)	0302030205

Table IV-4 New River Subbasin Animal Operation Permits

Permit Number*	Facility Name	County	Number of Lagoons	HUC 10
AWI670053	Lafayette Farms, LLC L-11	Onslow	1	0302030201
AWI670058	Howard Farms - Sow	Onslow	-	0302030201
AWS670001	Onslow Farm	Onslow	4	0302030201
AWS670003	River HAZE Rhodestown	Onslow	1	0302030201
AWS670005	Cavanaugh Hog Farm	Onslow	1	0302030201
AWS670007	Hugh Parker and Son	Onslow	1	0302030201
AWS670009	Raynor's Nursery	Onslow	1	0302030201
AWS670011	Kenneth R. Cox Farm	Onslow	1	0302030201
AWS670013	Watchoverya Farms #2	Onslow	2	0302030201
AWS670014	Cox Livestock	Onslow	1	0302030201
AWS670015	Weston Hog Farm	Onslow	1	0302030201
AWS670016	Petersburg Farm	Onslow	1	0302030201
AWS670018	H and R Farms	Onslow	1	0302030201
AWS670020	K & A Turner Farm	Onslow	1	0302030201
AWS670021	Cavie Farms	Onslow	3	0302030201
AWS670025	Watchoverva Farms #1	Onslow	1	0302030201
AWS670032	Gillette Farm #1, # 2	Onslow	4	0302030201
AWS670035	Bert Hall Farm	Onslow	1	0302030201
AWS670036	Brinson II	Onslow	1	0302030201

Permit Number*	Facility Name	County	Number of Lagoons	HUC 10
AWS670038	Huffmantown Farm	Onslow	1	0302030201
AWS670044	Adron Whaley Farm	Onslow	1	0302030201
AWS670048	Morris Brinson Farm #3	Onslow	1	0302030201
AWS670057	Double T Hog Farm	Onslow	3	0302030201
AWS670062	Double H Farms	Onslow	1	0302030201
AWS670075	Morris Brinson Farm # 4	Onslow	1	0302030201
AWS670076	Greg Marshburn Farms	Onslow	1	0302030201
AWS670077	H & K Farm	Onslow	2	0302030201
AWS670080	Terry Brinson Farm	Onslow	2	0302030201
AWS670084	Brinson Farm #1	Onslow	1	0302030201
AWS670087	Rex Halso & Son	Onslow	1	0302030201
AWI670066	David Stroud Farm	Onslow	-	0302030202
AWS670010	Scott Farm	Onslow	1	0302030202
AWS670039	Dewayne Silance Farm	Onslow	1	0302030202
AWS670043	Red Pittman Farm	Onslow	2	0302030202
AWS670047	Sandy & Gary Dixon Farm	Onslow	1	0302030202
AWS670079	Barry Shepard Farm	Onslow	1	0302030202

*Permit Type: AWS – Swine State COC, AWI – Animal Individual State Permit

Table IV-5 New River Subbasin Algal Blooms 2006-2019

Location	Date Sampled	HUC 10	County	Density + Units/mL	Algal Group/ Dominant Taxa**	Reason Collected	Station/Sample Code/ID Bloom ID & Notes
2006							
New River	2/15/2006	0302030201	Onslow	5,000	Heterocapsa	scum	P2105000
New River	2/15/2006	0302030201	Onslow	10,000	Heterocapsa	scum	P2113000
New River	2/15/2006	0302030202	Onslow	9,000	centrics,Chaetoceros	scum	P4600000
New River	3/16/2006	0302030201	Onslow	86,000	centrics, Gyrodinium		P1200000
New River	3/16/2006	0302030201	Onslow	74,000	centrics, Gyrodinium		P2105000
New River	3/16/2006	0302030201	Onslow	169,000	centrics, Gyrodinium		P2113000
New River	7/27/2006	0302030201	Onslow	120,000	centrics, Cylindrospermopsis		P2113000
New River	8/7/2006	0302030201	Onslow	330,000	centrics, Heterosigma	scum	P1200000
New River	8/7/2006	0302030201	Onslow	168,000	centrics,Heterosigma		P2113000
New River	8/7/2006	0302030202	Onslow	118,000	centric diatoms		P4600000
New River	12/12/2006	0302030202	Onslow	15,000	Katodinium		P4600000
2007							
New River	2/22/2007	0302030201	Onslow	40,000	centric diatoms		P2113000
New River	2/22/2007	0302030202	Onslow	9,000	Heterocapsa		P4100000
New River	2/22/2007	0302030202	Onslow	16,000	Heterocapsa		P4600000
New River	3/13/2007	0302030201	Onslow	72,000	centric diatoms		P2113000
New River	3/13/2007	0302030202	Onslow	24,000	Chaetoceros,Heterocapsa		P4600000
New River	4/23/2007	0302030201	Onslow	61,000	Skeletonema,Cryptomonas		P2113000

Location	Date Sampled	HUC 10	County	Density + Units/mL	Algal Group/ Dominant Taxa**	Reason Collected	Station/Sample Code/ID Bloom ID & Notes
New River	4/23/2007	0302030202	Onslow	28,000	Skeletonema		P4600000
New River	5/29/2007	0302030201	Onslow	149,000	Cryptomonas		P1200000
New River	5/29/2007	0302030201	Onslow	93,000	Cryptomonas		P2105000
New River	6/27/2007	0302030201	Onslow	250,000	Gyrodinium,Heterosigma		P1200000
New River	6/27/2007	0302030201	Onslow	300,000	Gyrodinium,Heterosigma		P2105000
New River	6/27/2007	0302030201	Onslow	200,000	Gyrodinium,Heterosigma		P2113000
New River	6/27/2007	0302030202	Onslow	200,000	Gyrodinium,Heterosigma		P3700000
New River	6/27/2007	0302030202	Onslow	90,000	Gyrodinium,Heterosigma		P4100000
New River	7/11/2007	0302030201	Onslow	240,000	Heterosigma,Cylindrospermopsis		P1200000
New River	9/17/2007	0302030201	Onslow	130,000	Euglena		P1200000
New River	9/17/2007	0302030201	Onslow	171,000	Euglena		P2105000
New River	10/9/2007	0302030201	Onslow	296,000	Chaetoceros,Gyrodinium		P1200000
New River	10/9/2007	0302030202	Onslow	108,000	Chaetoceros,Gyrodinium		P4600000
New River	10/9/2007	0302030201	Onslow	92,000	Cylindrotheca,Oxyrrhis		P1200000
New River	10/9/2007	0302030201	Onslow	87,000	Cylindrotheca,Oxyrrhis		P2105000
New River	10/9/2007	0302030201	Onslow	70,000	Cylindrotheca,Oxyrrhis		P2113000
New River	10/9/2007	0302030202	Onslow	120,000	Cylindrotheca,Oxyrrhis		P3700000
New River	10/9/2007	0302030202	Onslow	78,000	Cylindrotheca,Oxyrrhis		P4600000
New River	12/12/2007	0302030201	Onslow	251,000	centric diatoms		P1200000
New River	12/12/2007	0302030201	Onslow	200,000	centric diatoms		P2105000

Location	Date Sampled	HUC 10	County	Density + Units/mL	Algal Group/ Dominant Taxa**	Reason Collected	Station/Sample Code/ID Bloom ID & Notes
New River	12/12/2007	0302030201	Onslow	193,000	centric diatoms		P2113000
New River	12/12/2007	0302030202	Onslow	158,000	centric diatoms		P3700000
New River	12/12/2007	0302030202	Onslow	99,000	centric diatoms		P4600000
2008							
New River	1/8/2008	0302030201	Onslow	113,000	BAC,DIN/centrics,Karlodinium		P1200000
New River	1/8/2008	0302030201	Onslow	184,000	BAC,DIN/centrics,Karlodinium		P2105000
New River	1/8/2008	0302030201	Onslow	73,000	BAC,DIN/centrics,Karlodinium		P2113000
New River	1/8/2008	0302030202	Onslow	139,000	BAC,DIN/centrics,Karlodinium		P3700000
New River	2/7/2008	0302030201	Onslow	78,000	EUG/Eutreptia		P1200000
New River	2/7/2008	0302030201	Onslow	84,000	EUG/Eutreptia		P2105000
New River	2/7/2008	0302030202	Onslow	105,000	EUG/Eutreptia		P4100000
New River	3/18/2008	0302030201	Onslow	31,000	BAC/centrics,Skeletonema		P2113000
New River	4/29/2008	0302030201	Onslow	53,000	BAC,CRY,DIN/centrics,Teleaulax, Katodinium		P2113000
New River	5/26/2008	0302030201	Onslow	29,000	BAC/centric diatoms		P1200000
New River	5/26/2008	0302030201	Onslow	124,000	BAC/centric diatoms		P2113000
New River	6/18/2008	0302030201	Onslow	63,000	BAC/centric diatoms		P2113000
New River	6/28/2008	WOK	Onslow	23,000	EUG/Euglena,Phacus	green water	UT
New River	6/28/2008	WOK	Onslow	4,000	bacteria, fungi	green water	N1
New River	7/16/2008	0302030201	Onslow	208,000	BAC,RPH/centrics,Heterosigma,		P1200000

Location	Date Sampled	HUC 10	County	Density + Units/mL	Algal Group/ Dominant Taxa**	Reason Collected	Station/Sample Code/ID Bloom ID & Notes
					Chattonella		
New River	7/16/2008	0302030201	Onslow	269,000	BAC,RPH/Centrics,Heterosigma, Chattonella		P2105000
New River	7/16/2008	0302030201	Onslow	189,000	BAC,RPH/Centrics,Heterosigma, Chattonella		P2113000
New River	10/14/2008	0302030201	Onslow	58,000	BAC/centric diatoms		P1200000
New River	10/14/2008	0302030201	Onslow	42,000	BAC/centric diatoms		P2105000
New River	12/4/2008	0302030201	Onslow	44,000	DIN, BAC, RPH/Katodinium, Centrics, Heterosigma		P1200000
New River	12/4/2008	0302030201	Onslow	91,000	DIN, RPH/Katodinium, Heterosigma		P2113000
2009							
New River	1/27/2009	0302030201	Onslow	90,000	DIN/Heterocapsa,Prorocentrum		P2113000
New River	2/25/2009	0302030201	Onslow	95,000	EUG,DIN,CRY/Eutreptia, Heterocapsa		P1200000
New River	2/25/2009	0302030201	Onslow	60,000	EUG,DIN,CRY/Eutreptia, Heterocapsa		P2105000
New River	2/25/2009	0302030202	Onslow	102,000	EUG,DIN/Eutreptia,Heterocapsa, Karlodinium		P3700000
New River	3/30/2009	0302030201	Onslow	136,000	BAC,DIN/centrics,Gyr ins		P2105000
New River	3/30/2009	0302030202	Onslow	370,000	BAC,DIN/centrics,Gyr ins		P3700000
New River	4/23/2009	0302030201	Onslow	19,000	BAC,DIN/centrics,Heterocapsa		P2105000

Location	Date Sampled	HUC 10	County	Density + Units/mL	Algal Group/ Dominant Taxa**	Reason Collected	Station/Sample Code/ID Bloom ID & Notes
New River	4/23/2009	0302030202	Onslow	20,000	BAC,DIN,RPH/centrics, Heterocapsa,Heterosigma		P3700000
New River	5/27/2009	0302030201	Onslow	33,000	BAC/centrics		P1200000
New River	5/27/2009	0302030201	Onslow	46,000	BAC/centrics		P2105000
New River	5/27/2009	0302030201	Onslow	33,000	BAC/centrics		P2113000
New River	6/23/2009	0302030201	Onslow	86,000	BAC,DIN,RPH/centrics, Karlodinium,Chattonella		P1200000
New River	6/23/2009	0302030201	Onslow	73,000	BAC,DIN,RPH/centrics, Karlodinium,Chattonella		P2105000
New River	6/23/2009	0302030201	Onslow	97,000	BAC,DIN,RPH/centrics, Karlodinium,Chattonella		P2113000
New River	6/23/2009	0302030202	Onslow	95,000	BAC,DIN,RPH/centrics, Karlodinium,Heterosigma		P3700000
New River	6/23/2009	0302030202	Onslow	86,000	BAC,DIN,RPH/centrics, Karlodinium,Chattonella		P4100000
New River	7/28/2009	0302030201	Onslow	146,000	BAC/centrics		P2113000
New River	7/28/2009	0302030202	Onslow	81,000	BAC,RPH/centrics,Heterosigma		P3700000
New River	8/19/2009	0302030201	Onslow	10,000	BAC/centrics		P2105000
New River	8/19/2009	0302030202	Onslow	32,000	BAC,RPH/Heterosigma,centrics		P3700000
New River	8/19/2009	0302030202	Onslow	41,000	BAC,RPH/centrics,Chattonella		P4600000
2010							
New River	2/22/2010	0302030202	Onslow	76,000	BAC/centrics,Heterocapsa		P4600000

Location	Date Sampled	HUC 10	County	Density + Units/mL	Algal Group/ Dominant Taxa**	Reason Collected	Station/Sample Code/ID Bloom ID & Notes
New River	3/25/2010	0302030201	Onslow	90,000	BAC,DIN/centrics		P1200000
New River	3/25/2010	0302030201	Onslow	66,000	CHR,DIN/centrics		P2113000
New River	3/25/2010	0302030202	Onslow	29,000	BAC,DIN/centrics,Paulinella		P4600000
Archdale pond	4/6/2010	WOK	New Hanover	NQ	BAC,CHR/Oedogonium, Mougeotia,Eunotia		residential
New River	4/13/2010	0302030201	Onslow	137,000	CRY/centrics,Chaetoceros		P1200000
New River	4/13/2010	0302030201	Onslow	141,000	Centrics, Chaetoceros, Karlodinium		P2105000
New River	4/13/2010	0302030201	Onslow	68,000	CHR,DIN/Karlodinium,Paulinella		P2113000
New River	4/13/2010	0302030202	Onslow	42,000	BAC,DIN/Karlodinium, Prorocentrum,centrics		P4100000
New River	4/13/2010	0302030202	Onslow	30,000	BAC,CHR/Skeletonema,centrics, Paulinella		P4600000
New River	5/19/2010	0302030201	Onslow	27,000	CHR,CHL,BAC/Paulinella, Ankistrodesmus, centrics		P1200000
New River	5/19/2010	0302030201	Onslow	35,000	BAC,CHL,CHR/Paulinella, Ankistrodesmus, centrics		P2105000
New River	6/23/2010	0302030201	Onslow	112,000	BAC/centrics		P1200000
New River	6/23/2010	0302030201	Onslow	126,000	BAC/centrics		P2105000
New River	6/23/2010	0302030201	Onslow	64,000	BAC/centrics		P2113000
New River	7/29/2010	0302030201	Onslow	49,000	BAC/centrics		P2105000
New River	8/30/2010	0302030201	Onslow	221,000	BAC,DIN/centrics,Karlodinium		P2105000

Location	Date Sampled	HUC 10	County	Density + Units/mL	Algal Group/ Dominant Taxa**	Reason Collected	Station/Sample Code/ID Bloom ID & Notes
New River	9/9/2010	0302030202	Onslow	63,000	BAC/centric and benthic diatoms		P4600000
New River	11/15/2010	0302030201	Onslow	44,000	BAC,DIN/centrics,Katodinium		P1200000
New River	11/15/2010	0302030201	Onslow	55,000	BAC,DIN/centrics,Katodinium		P2105000
New River	11/15/2010	0302030202	Onslow	29,000	BAC,DIN/centrics,Katodinium		P3700000
New River	11/15/2010	0302030202	Onslow	28,000	BAC,DIN/centrics,Karlodinium		P4600000
2011							
New River	2/16/2011	0302030202	Onslow	44,000	BAC/centrics		P4600000
New River	5/5/2011	0302030201	Onslow	139,000	BAC/centric diatoms		P2105000
New River	7/21/2011	0302030201	Onslow	147,000	BAC/centrics diatoms		P1200000
New River	9/12/2011	0302030201	Onslow	260,000	BAC,RPH/centrics,Heterosigma		P1200000
New River	9/12/2011	0302030201	Onslow	188,000	BAC/centric diatoms		P2105000
New River	9/12/2011	0302030201	Onslow	219,000	BAC,RPH/centrics,Heterosigma		P2113000
New River	9/12/2011	0302030202	Onslow	253,000	BAC,CHR/centrics,Paulinella		P4100000
New River	9/12/2011	0302030202	Onslow	79,000	BAC,CHR/centrics,Paulinella		P4600000
New River	10/5/2011	0302030201	Onslow	152,000	BAC,DIN/centrics,Gyr. instriatum		P1200000
New River	10/5/2011	0302030201	Onslow	331,000	BAC,DIN/centrics,Gyr. instriatum		P2105000
New River	11/30/2011	0302030201	Onslow	108,000	BAC,CRY/Teleaulax,centrics		P1200000
New River	11/30/2011	0302030201	Onslow	83,000	BAC,CRY/centrics,Teleaulax		P2105000
2012							
New River	1/5/2012	0302030201	Onslow	296,000	BAC/Cylindrotheca	DO/pH	P1200000

Location	Date Sampled	HUC 10	County	Density + Units/mL	Algal Group/ Dominant Taxa**	Reason Collected	Station/Sample Code/ID Bloom ID & Notes
New River	3/21/2012	0302030201	Onslow	69,000	BAC,RPH/round diatoms,Heterosigma	DO/pH	P1200000
New River	3/21/2012	0302030201	Onslow	54,000	BAC/round diatoms	DO/pH	P2105000
New River	3/21/2012	0302030201	Onslow	80,000	BAC,DIN/round diatoms,Karlodinium	DO/pH	P2113000
New River	4/18/2012	0302030201	Onslow	267,000	BAC/round diatoms	DO/pH	P1200000
New River	4/18/2012	0302030201	Onslow	231,000	BAC/round diatoms	DO/pH	P2105000
New River	4/18/2012	0302030201	Onslow	116,000	BAC/round diatoms	DO/pH	P2113000
New River	6/21/2012	0302030201	Onslow	203,000	BAC/round diatoms	DO/pH	P1200000
New River	6/21/2012	0302030202	Onslow	76,000	BAC,CHR/round diatoms,Chattonella	DO/pH	P3700000
Rock Creek Pond	6/25/2012	WOK	Onslow	17,000	BAC,CHL/Selenastrum,round diatoms	fish kill	golf course
New River	7/17/2012	0302030201	Onslow	243,000	BAC/round diatoms	DO/pH	P1200000
New River	7/17/2012	0302030201	Onslow	274,000	BAC,RPH/round diatoms,Heterosigma	DO/pH	P2105000
New River	7/17/2012	WOK	Onslow	253,000	BAC,RPH/round diatoms,Heterosigma	DO/pH	
New River	7/17/2012	WOK	Onslow	325,000	BAC,RPH/round diatoms,Heterosigma	DO/pH	
New River	8/16/2012	0302030201	Onslow	96,000	BAC/round diatoms	DO/pH	P1200000
New River	8/16/2012	0302030201	Onslow	289,000	BAC,RPH/round diatoms,Heterosigma	DO/pH	P2105000

Location	Date Sampled	HUC 10	County	Density + Units/mL	Algal Group/ Dominant Taxa**	Reason Collected	Station/Sample Code/ID Bloom ID & Notes
New River	8/16/2012	0302030201	Onslow	183,000	BAC,RPH/round diatoms,Heterosigma	DO/pH	P2113000
New River	9/17/2012	0302030201	Onslow	126,000	BAC,RPH/round diatoms,Heterosigma	DO/pH	P2113000
New River	9/17/2012	0302030202	Onslow	76,000	BAC,DIN/round diatoms,Gyr. Instriatum	DO/pH	P3700000
New River	9/17/2012	0302030202	Onslow	134,000	BAC, DIN	DO/pH	P4600000
New River	10/25/2012	0302030201	Onslow	500,000	BAC/round diatoms	DO/pH	P1200000
New River	10/25/2012	0302030201	Onslow	800,000	BAC/round diatoms	DO/pH	P2105000
New River	10/25/2012	0302030201	Onslow	700,000	BAC/round diatoms	DO/pH	P2113000
New River	11/27/2012	0302030201	Onslow	27,000	BAC,DIN/chain diatoms,Gyr.instriatum	DO/pH	P2113000
New River	11/27/2012	0302030202	Onslow	26,000	BAC,DIN/round diatoms,Gyr.instriatum	DO/pH	P3700000
New River	11/27/2012	0302030202	Onslow	27,000	BAC/chain diatoms	DO/pH	P4600000
New River	12/19/2012	0302030201	Onslow	51,000	BAC/chain diatoms	DO/pH	P2113000
2013							
New River	3/4/2013	0302030202	Onslow	-	Prorocentrum	elevated DO/pH	P4600000
New River	3/20/2013	0302030201	Onslow	-	Prorocentrum	elevated DO/pH	P2113000
New River	3/20/2013	0302030202	Onslow	-	Prorocentrum	elevated DO/pH	P3700000
New River	3/20/2013	0302030202	Onslow	-	Prorocentrum	elevated DO/pH	P4100000

Location	Date Sampled	HUC 10	County	Density + Units/mL	Algal Group/ Dominant Taxa**	Reason Collected	Station/Sample Code/ID Bloom ID & Notes
New River	4/10/2013	0302030201	Onslow	-	diatoms, Gyrodinium	elevated DO/pH	P1200000
New River	4/10/2013	0302030201	Onslow	-	diatoms, Gyrodinium	elevated DO/pH	P2105000
New River	4/10/2013	0302030201	Onslow	-	diatoms, Gyrodinium	elevated DO/pH	P2113000
New River	4/10/2013	0302030202	Onslow	-	diatoms, Gyrodinium	elevated DO/pH	P3700000
Chaney Creek	4/10/2013	WOK	Onslow	-	almost no algae	dead birds	downstream
Chaney Creek	4/10/2013	WOK	Onslow	-	Cylindrospermopsis, Pseudanabaena	dead birds	upstream
New River	7/18/2013	0302030201	Onslow	-	diatoms	elevated DO/pH	P1200000
New River	7/18/2013	0302030201	Onslow	-	diatoms	elevated DO/pH	P2113000
New River	7/18/2013	0302030202	Onslow	-	diatoms	elevated DO/pH	P4600000
New River	8/8/2013	0302030201	Onslow	-	diatoms	elevated DO/pH	P1200000
Laurel Lea Lake	8/12/2013	WOK	New Hanover	-	Microcystis	algal inquiry	Laurel Lea Lake
Laurel Lea Lake	9/16/2013	WOK	New Hanover	-	Microcystis	algal inquiry	Laurel Lea Lake
Laurel Lea Lake	10/24/2013	WOK	New Hanover	-	Microcystis	algal inquiry	Laurel Lea Lake
New River	11/21/2013	0302030201	Onslow	-	Cylindrotheca	elevated DO/pH	P1200000
New River	11/21/2013	0302030201	Onslow	-	Cylindrotheca	elevated DO/pH	P2105000
Laurel Lea Lake	12/12/2013	WOK	New Hanover	-	Microcystis	algal inquiry	Laurel Lea Lake
2014							
New River	3/3/2014	0302030201	Onslow	12,900	DIN/Prorocentrum minimum	discolored water	P2105000
New River	3/3/2014	0302030202	Onslow	14,900	DIN/Prorocentrum minimum	discolored water	P3700000

Location	Date Sampled	HUC 10	County	Density + Units/mL	Algal Group/ Dominant Taxa**	Reason Collected	Station/Sample Code/ID Bloom ID & Notes
New River	3/3/2014	0302030202	Onslow	22,000	DIN,RAP	discolored water	P4600000
New River	3/3/2014	0302030202	Onslow	21,600	DIN,RAP/Prorocentrum, Heterosigma	discolored water	P4100000
New River	3/27/2014	0302030201	Onslow	9,000	DIN/Prorocentrum minimum	DO/pH	P2113000
New River	5/21/2014	0302030201	Onslow	24,800	BAC/round diatoms	DO/pH	P1200000
New River	5/21/2014	0302030201	Onslow	36,100	BAC,DIN/Gyrodinium instriatum	DO/pH	P2105000
New River	5/21/2014	0302030201	Onslow	41,600	BAC,DIN/Karlodinium	DO/pH	P2113000
New River	6/23/2014	0302030201	Onslow	9,400	BAC,DIN/Gyrodinium instriatum	DO/pH	P1200000
Atlantic Ocean	8/5/2014	WOK	Onslow	500	BAC/naviculoid diatoms	discolored water	Sea View pier
Atlantic Ocean	8/5/2014	WOK	Onslow	800	DIN/Cochlodinium	discolored water	Surf City pier
Atlantic Ocean	8/6/2014	WOK	Onslow	1,800	BAC,DIN/Cochlodinium	discolored water	Sea View pier
New River	7/24/2014	0302030201	Onslow	58,800	BAC,DIN/Gyrodinium instriatum	DO/pH	P1200000
New River	10/9/2014	0302030201	Onslow	15,600	BAC,RAP/Heterosigma	DO/pH	P1200000
New River	10/9/2014	0302030201	Onslow	24,700	BAC/round diatoms	DO/pH	P2113000
New River	12/1/2014	0302030202	Onslow	7,300	BAC/round diatoms	DO/pH	P4600000
New River	12/10/2014	0302030201	Onslow	9,300	BAC,DIN/round diatoms	DO/pH	P2113000
New River	12/10/2014	0302030202	Onslow	17,500	BAC,DIN/Gyrodinium instriatum	DO/pH	P3700000
2015							
New River	3/17/2015	0302030202	Onslow	19,500	DIN/Prorocentrum	DO/pH	P4600000
New River	4/21/2015	0302030201	Onslow	70,300	BAC/centric diatoms	DO/pH	P2105000

Location	Date Sampled	HUC 10	County	Density + Units/mL	Algal Group/ Dominant Taxa**	Reason Collected	Station/Sample Code/ID Bloom ID & Notes
New River	4/21/2015	0302030201	Onslow	105,000	BAC/centric diatoms	DO/pH	P2113000
New River	5/4/2015	0302030201	Onslow	124,900	BAC/centric diatoms	DO/pH	P1200000
New River	5/4/2015	0302030201	Onslow	116,900	BAC,RPH/centrics,Chattonella	DO/pH	P2105000
New River	5/4/2015	0302030201	Onslow	92,500	BAC,RPH/centrics,Chattonella	DO/pH	P2113000
New River	6/8/2015	0302030201	Onslow	73,100	BAC,DIN/centrics,Karlodinium, Gyro. instr.	DO/pH	P2113000
New River	7/29/2015	0302030201	Onslow	100,200	BAC,RPH/centrics,Heterosigma	DO/pH	P1200000
New River	7/29/2015	0302030202	Onslow	92,500	BAC,RPH/centrics,Heterosigma, Chattonella	DO/pH	P4100000
New River	9/14/2015	0302030201	Onslow	364,500	BAC/centric diatoms	DO/pH	P1200000
New River	9/14/2015	0302030201	Onslow	277,400	BAC/centric diatoms	DO/pH	P2105000
New River	9/14/2015	0302030201	Onslow	159,800	BAC/centric diatoms	DO/pH	P2113000
New River	12/9/2015	0302030202	Onslow	5,300	EUT,DIN/Eutreptia,Prorocentrum	DO/pH	P4600000
2016							
New River	4/19/2016	0302030201	Onslow	64,400	BAC,DIN/centric diatoms,Gyrodinium	DO/pH	P1200000
New River	4/19/2016	0302030201	Onslow	161,200	BAC,DIN/centrics, Karlodinium	DO/pH	P2105000
New River	4/19/2016	0302030201	Onslow	56,200	BAC,DIN/centrics, Prorocentrum	DO/pH	P2113000
New River	5/10/2016	0302030201	Onslow	126,300	BAC,DIN/centrics, Karlodinium	DO/pH	P2113000
New River	6/13/2016	0302030201	Onslow	36,300	BAC,DIN/centrics, Gyrodinium	DO/pH	P1200000
New River	6/13/2016	0302030201	Onslow	115,500	BAC,DIN	DO/pH	P2105000

Location	Date Sampled	HUC 10	County	Density + Units/mL	Algal Group/ Dominant Taxa**	Reason Collected	Station/Sample Code/ID Bloom ID & Notes
New River	6/13/2016	0302030201	Onslow	119,100	BAC,DIN/centrics, Gyrodinium	DO/pH	P2113000
New River	7/18/2016	0302030201	Onslow	18,700	BAC/centrics, Chaetoceros	DO/pH	P1200000
New River	7/18/2016	0302030202	Onslow	31,800	BAC/centrics, Chaetoceros	DO/pH	P4600000
New River	10/3/2016	0302030202	Onslow	65,800	BAC,DIN/centrics,Polykrikos, Karlodinium	DO/pH	P4600000
2018							
Shandy Point Basin	6/27/2018	0302030202	New Hanover	590,000	EUG	Algal Bloom	
2019							
Independence Blvd. Pond	8/12/2019	0302030202	New Hanover	21,000	CYA	Cyanobacterial Bloom	

*No data density or algal group data was included in the 2013 dataset.

**Key to algal classes and abbreviations:

BAC-Bacillariophyceae (diatom)

CHL-Chlorophyceae (green algae)

CHLa-chlorophyll a

CHR-Chrysophyceae (golden algae)

CRY-Cryptophyceae (cryptomonads)

DIN-Dinophyceae (dinoflagellates)

EUG-Euglenophyceae (euglenoids)

EUT-Eutreptia (euglenoids)

RHO- Rhodophyceae (red algae)

RPH- Raphidophyceae (rhapidophytes)

CYA-Cyanophyceae (blue green algae)