

Middle Cape Fear Basin Association: Sampling Stations, Parameters and Frequency

Station Number	Station Location	Station Comments	Latitude	Longitude	County	HUC	Strea Class	Field ¹	Nutrients ²	Turbidity	TSS	FC	Chl-a
B6130500	Lick Creek at SR 1500 near Corinth	Voluntary station -- Previously unmonitored tributary	35.5592	-79.0550	Lee	03030004	WS-IV	Q	Q	Q	Q	Q	
B6160000	Cape Fear River at NC 42 near Corinth	Above Buckhorn dam, WQ problems, former DWQ ambient strn (ambient discontinued 01/07), downstream of the Progress Energy facility	35.5491	-79.0246	Chatham	03030004	WS-IV CA	M+2SM	M	M	M	M	M
B6204000	Buckhorn Crk beside SR 1921 Buckhorn Rd near Corinth	Below Harris Lake, dns Shearon Harris, USGS gage	35.5435	-78.9899	Chatham	03030004	C	M	M	M	M	M	
B6215000	Cape Fear River at Captains Landing Subdivision near Cokesbury	Dns of Western Wake discharge	35.4871	-78.9516	Harnett	03030004	WS-IV	M+2SM	M	M	M	M	
B6230000	Avents Creek at SR 1418 near Cokesbury	Voluntary station -- Excellent IBI, fish reference site	35.4875	-78.9094	Harnett	03030004	WS-IV HQW	Q	Q	Q	Q	Q	
B6252000	Neills Creek at US 401 near Lillington	Dns Kenneth Creek, significant tributary, broad Ag. Concerns	35.4281	-78.8240	Harnett	03030004	WS-IV	M	M	M	M	M	
B6320000	Kenneth Creek at SR 1441 Chalybeate Springs Road near Angier	Dns of Fuquay-Varina WWTP and Senter's Rest Home, benthic concerns, DWQ benthos and fish site	35.5144	-78.7862	Harnett	03030004	WS-IV	Q	Q	Q	Q	Q	
B6370000	Cape Fear River at US 401 at Lillington	Ups Harnett WWTP, Buies Creek WWTP, Angier WWTP, DWQ ambient, sample from bank at boat dock upstream of US 401 bridge.	35.4067	-78.8149	Harnett	03030004	WS-IV	M+2SM	M	M	M	M	
B6485000	Buies Creek behind Keith Hills Golf Course Maintenance Shop at Buies Creek	Voluntary station -- Previously unmonitored tributary	35.3907	-78.7527	Harnett	03030004	WS-IV	Q	Q	Q	Q	Q	
B6820050	Upper Little River at SR 1222 (Broadway Road) near Broadway	Dns Carolina Trace WWTP, DWQ benthic station	35.4067	-79.0628	Harnett	03030004	C	M	M	M	M	M	
B6830000	Upper Little River at SR 2021 Titan Roberts Road near Lillington	Measures Upper Little River input, significant tributary, DWQ ambient and benthic station, excellent bioassessment in 1998	35.3266	-78.7237	Harnett	03030004	WS-IV	M	M	M	M	M	

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B6840000	Cape Fear River at NC 217 at Erwin	7 facilities discharge to Cape Fear river between this stn and the next ups stn. Dns Erwin WWTP, ups Dunn WWTP, former DWQ ambient stn	35.3121	-78.6932	Harnett	03030004	WS-V	M+2SM	M	M	M	M	
B7300000	Lower Little River at NC 210 near Spring Lake	Dns Spring Lake WWTP	35.2021	-78.9530	Cumberland	03030004	C	M	M	M	M	M	
B7319100	Lower Little River at SR 1609 (West Reeves Bridge Road) near Walkertown	Dns Future South Harnett WWTP	35.2598	-78.8231	Cumberland	03030004	C	M	M	M	M	M	
B7480000	Cape Fear River at Hoffer Water Treatment Plant intake at Fayetteville	Ups Cross Creek WWTP	35.0825	-78.8638	Cumberland	03030004	WS-IV CA	M+2SM	M	M	M	M	
B7500000	Cape Fear River at I-95 below Fayetteville	Dns Cross Creek WWTP	34.9830	-78.8480	Cumberland	03030004	C	M+2SM	M	M	M	M	
B7590000	Cross Creek at Bus NC 301/Bus I-95 in Fayetteville	Voluntary station -- Urban tributary, poor water quality	35.0547	-78.8625	Cumberland	03030004	C	Q	Q	Q	Q	Q	
B7679300	Rockfish Creek at US 401 bypass near Raeford	Ups Raeford WWTP, USGS gage	34.9995	-79.2148	Hoke	03030004	B	M	M	M	M	M	
B7700000	Rockfish Creek at SR 1432 Golf Course Road near Raeford	5 mi dns Raeford WWTP, DWQ ambient stn, DWQ benthos stn	34.9680	-79.1100	Hoke	03030004	B	M	M	M	M	M	
B8230000	Rockfish Creek at NC 87 near Fayetteville	Area w/excellent WQ, major tributary input, excellent IBI in 1998 an improvement since 1993	34.9561	-78.8441	Cumberland	03030004	C	M	M	M	M	M	
B8290000	Cape Fear River at Dupont water intake ups of L&D3	Dns Monsanto and Rockfish Creek WWTP, WQ at Lock 3	34.8495	-78.8263	Cumberland	03030005	WS-V	M+2SM	M	M	M	M	M
B8302000	Cape Fear River at power lines - no road- near Tolarsville	Ups of Smithfield Foods	34.7843	-78.7983	Bladen	03030005	WS-V	M+2SM	M	M	M	M	
B8305000	Cape Fear River at SR 1316 at Tar Heel	Dns of Smithfield Foods, former DWQ ambient stn (ambient discontinued 01/07)	34.7448	-78.7856	Bladen	03030005	C	M+2SM	M	M	M	M	M
B8306000	Cape Fear River at RM 80 near Ruskin	Ups Danaher; RM 80 Below Harrison Cr	34.6831	-78.6847	Bladen	03030005	C	M+2SM	M	M	M	M	
B8315000	Harrison Creek at SR 1320 at Burney	Voluntary station -- Improving IBI and fish data	34.7317	-78.7164	Bladen	03030005	C	Q	Q	Q	Q	Q	

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B8320000	Cape Fear River at US 701 at Elizabethtown	Ups Elizabethtown WWTP	34.6324	-78.6029	Bladen	03030005	C	M+2SM	M	M	M	M	
B8339000	Cape Fear River above Lock & Dam 2	DWQ benthic and fish stn, dns Elizabethtown WWTP	34.6270	-78.5780	Bladen	03030005	C	M+2SM	M	M	M	M	M
B8340100	Turnbull Creek at US 701, NC 53, and NC 41 near Elizabethtown	Voluntary station -- Significant tributary	34.6470	-78.5567	Bladen	03030005	C	Q	Q	Q	Q	Q	
B8340130	Cape Fear River at RM 70 near Elizabethtown	Dns Turnbull and Browns Creeks, 2 mi below Lock and Dam 2	34.6246	-78.5505	Bladen	03030005	C	M+2SM	M	M	M	M	
B8340650	Cape Fear River at RM 55-no road-near Bladen Springs	Mid Lower Basin WQ, beginning DO sag	34.5352	-78.4398	Bladen	03030005	WS-V	M+2SM	M	M	M	M	
B8348000	Cape Fear River at SR 1730 - Elwell Ferry Road-near Carvers	DWQ benthic stn	34.4740	-78.3690	Bladen	03030005	WS-IV	M+2SM	M	M	M	M	
B8349000	Cape Fear River above Lock & Dam 1 near East Arcadia	WQ at Lock and Dam 1	34.4060	-78.2943	Bladen	03030005	WS-IV CA	M+2SM	M	M	M	M	M

¹ Field Parameters include: Dissolved Oxygen (DO), pH, Temperature and Conductivity

² Nutrients include: Ammonia (NH₃) as N, Nitrate/Nitrite (NO₂/NO₃) as N, Total Kjeldahl Nitrogen (TKN) as N and Total Phosphorus (TP) as P

Chlorophyll a and nutrients shall be collected as vertical composite samples over the photic zone (twice the secchi depth) at B6160000, B8290000, B8305000, B8339000 and B8349000

M = Monthly

M+2SM = Monthly January – April and October – December and twice monthly May – September.

Q = Quarterly

*No metals monitoring requirements are included in this MOA, as the DWQ is currently in the process of reviewing metals water quality assessment techniques, evaluation criteria and relevant standards. However, the DWQ expects to conclude the review within the life cycle of this MOA. At such time, or when the DWQ Director mandates, the MCFBA is expected to resume monitoring at a level of effort similar to that in the 2008-2013 MOA, which includes metals monitoring.