

Water-Data Report 2010

**02102094 CAPE FEAR POWER PLANT DISCHARGE CANAL NEAR BRICKHAVEN, NC**

Cape Fear Basin  
Upper Cape Fear Subbasin

LOCATION.--Lat 35°35'05", long 79°02'28" referenced to North American Datum of 1983, Chatham County, NC, Hydrologic Unit 03030004, on left bank, 0.75 mi downstream from Cape Fear Power Plant, 0.83 mi north of Brickhaven.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--April 2008 to current year.

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is 157.8 ft above North American Vertical Datum of 1988. Satellite telemetry at streamgage.

REMARKS.--Records good.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	317	173	206	286	235	259	253	---	339	322	303	320
2	312	303	204	285	248	260	248	169	334	321	296	322
3	310	317	213	282	243	259	260	171	340	323	301	321
4	310	324	311	280	243	260	261	172	339	320	307	324
5	251	317	295	277	257	267	269	169	333	316	306	---
6	222	311	289	276	242	252	260	169	333	315	303	---
7	211	298	288	274	224	260	260	253	329	300	271	---
8	---	299	286	269	244	258	262	353	329	232	265	305
9	196	285	284	266	256	254	267	350	342	228	318	315
10	249	286	288	269	246	253	261	345	335	221	317	340
11	---	280	279	269	247	253	251	345	331	223	315	344
12	---	263	276	269	239	251	259	344	336	223	310	340
13	192	244	282	272	250	238	262	346	329	224	309	340
14	175	186	277	269	250	243	264	345	342	276	192	339
15	183	96	279	267	253	246	260	340	326	310	172	322
16	180	136	283	269	265	253	251	343	328	311	318	325
17	206	142	273	268	265	264	254	341	327	309	313	325
18	314	149	275	265	269	267	262	338	321	310	311	328
19	313	154	269	264	268	256	268	331	327	307	308	317
20	321	33	271	257	267	256	270	346	321	307	309	318
21	317	1.2	270	266	263	252	275	336	322	304	306	332
22	313	1.4	279	260	262	250	269	337	323	302	306	327
23	307	1.5	277	262	262	254	268	339	323	300	305	318
24	305	0.80	279	262	265	261	---	337	361	309	308	317
25	304	34	280	241	265	257	---	335	327	313	317	307
26	299	210	272	234	266	259	100	333	327	308	312	301
27	292	210	278	238	262	262	---	336	320	294	312	299
28	303	209	279	235	264	261	---	334	315	304	309	309
29	297	208	276	239	---	270	---	338	296	296	310	315
30	293	205	286	234	---	260	---	341	321	292	297	290
31	285	---	290	238	---	255	---	337	---	297	313	---
<b>Total</b>	7,577	5,676.90	8,494	8,142	7,120	7,950	6,114	9,273	9,876	9,017	9,239	8,660
<b>Mean</b>	271	189	274	263	254	256	255	309	329	291	298	321
<b>Max</b>	321	324	311	286	269	270	275	353	361	323	318	344
<b>Min</b>	175	0.80	204	234	224	238	100	169	296	221	172	290

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2008 - 2010, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	311	212	274	278	264	250	327	299	343	323	316	301
<b>Max</b>	311	234	274	293	274	256	352	320	357	347	326	301
<b>(WY)</b>	(2009)	(2009)	(2010)	(2009)	(2009)	(2010)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)
<b>Min</b>	311	189	274	263	254	244	303	279	329	291	298	301
<b>(WY)</b>	(2009)	(2010)	(2010)	(2010)	(2010)	(2009)	(2009)	(2009)	(2010)	(2010)	(2010)	(2008)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 2008 - 2010	
Highest daily mean	365	May 27	361	Jun 24	413	Aug 6, 2008
Lowest daily mean	0.17	Mar 20	0.80	Nov 24	0.17	Mar 20, 2009
Maximum peak flow			684	May 19	684	May 19, 2010
Maximum peak stage			7.32	Feb 6	7.32	Feb 6, 2010
Instantaneous low flow			Not Determined		Not Determined	

