

The 4-Step process for developing the Jurisdiction Loads

1. Start with the total nitrogen load results from the HSPF watershed computer model where it is linked to the EFDC hydrodynamic computer model run for Caloosahatchee watershed – 2003 through 2005
2. There are total nitrogen loads associated 28 linkage points (between HSPF and EFDC models) in the Tidal Caloosahatchee (downstream of Franklin Lock/S-79). Each linkage point (or node) is associated with distinct sub-basins (see figures and table below), thus the total nitrogen loads going into the Caloosahatchee at that point can be said to be coming off the sub basins connected to the linkage point.

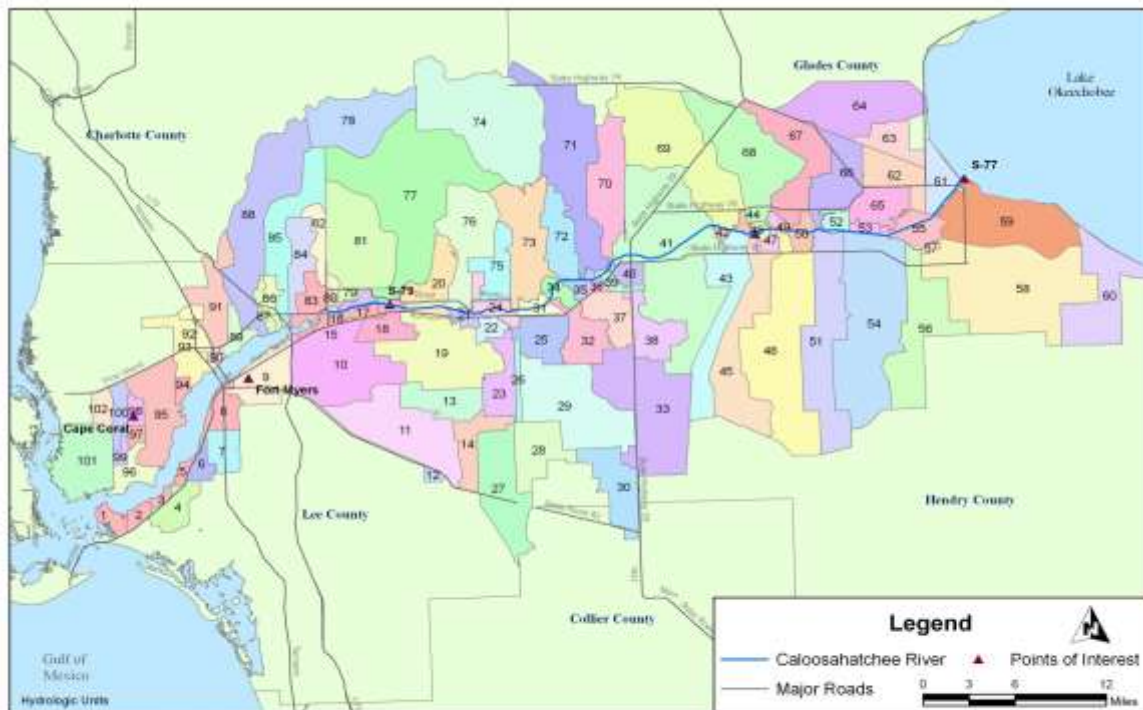


Figure 5-1 Delineated hydrologic units for HSPF Modeling



Figure 5-85 Locations of HSPF model output to be used as EPDC boundary condition.

Florida Department of Environmental Protection
 Caloosahatchee River Basin TMDL Model Support
 Task Assignment CDM07-04, May 2008

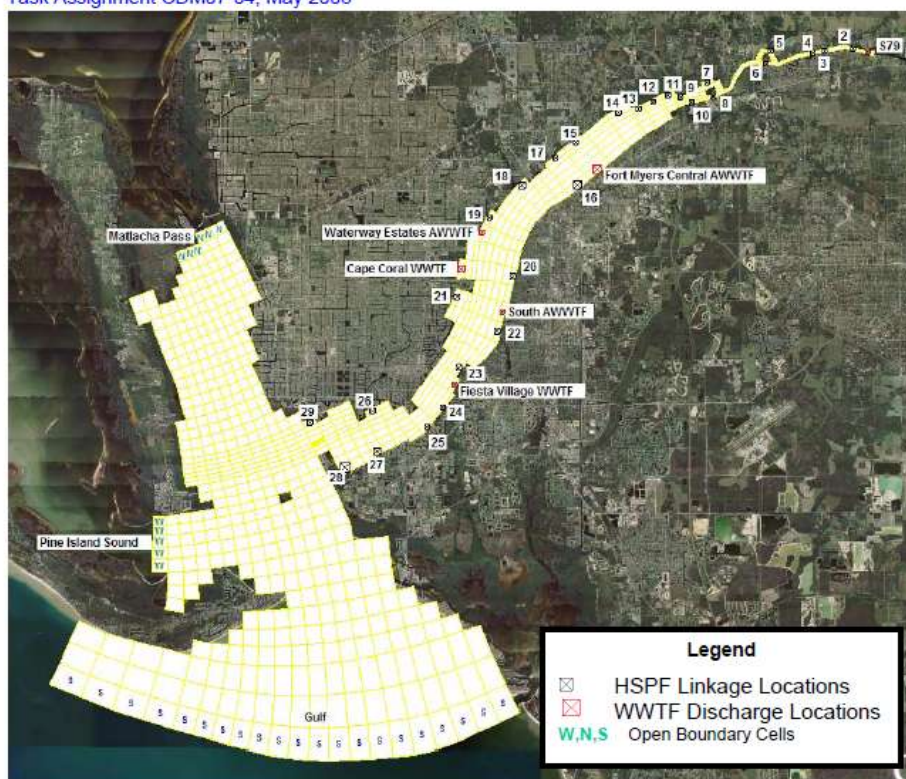


Figure 5-84 Location of tidal and HSPF boundary conditions relative to the Caloosahatchee grid

Linkage Node Number	Contributing Areas	Linkage Point Three Year HSPF TN Load, TONS
19	94	20.37
21	95	207.87
26	96, 97, 98, 99, 100	156.97
29	101, 102	135.49
28	1	20.42
27	2	30.12
25	3	15.75
24	4	92.77
23	5	19.70
22	6 & 7	149.96
20	8	111.63
16	9	175.64
10	10, 11, 12, 13, 14	433.11
8	15	8.35
6	16	9.19
4	17	16.96
3	79	11.07
17	90, 91, 92	121.55
18	93	101.71
5	80, 81, 82	206.31
7	83	36.52
2	77, 78	329.02
9	84	48.35
11	85	86.25
12	86	19.06
13	87	13.29
14	88	174.44
15	89	29.44
TOTAL		2781.29

- The TN loads associated with the linkage nodes are the loads associated with the Contributing Sub basins. These loads are subsequently **broken down into TN lbs per acre per land use for the sub basins associated with the given linkage node.**
- The jurisdiction loads were based on the sub basin(s) for which that jurisdiction is a part of, the area of the land uses in the jurisdiction that is a part of the sub basin(s), and the calculated lbs per acre for the given landuse for the respective sub basins.