TABLE 14-3

SUMMARY OF I/A EFFLUENT LOADINGS[1]

Major Watershed Areas	Estimated Existing WW Load In kg/d (Title 5 Systems (26.25 mg/L))[2]	Estimated Future WW Load in Kg/D (Title 5 Systems (26.25 mg/L))	Existing Effluent WW Nitrogen Loading In Kg/D[5]				Future Effluent WW Nitrogen Loading in Kg/D[5]		
			WW Loading GOAL (kg/d)[3][4]	I/A Systems (19 mg/L)	I/A Systems (10 mg/L)	I/A Systems (5 mg/L)	I/A Systems (19 mg/L)	I/A Systems (10 mg/L)	I/A Systems (5 mg/L)
Rock Harbor Estuary	1.05	1.27	*0.22*	0.76	0.40	*0.20*	0.92	0.48	0.24
Nauset Estuary / Town Cove	21.73	25.77	*9.78*	15.73	*8.28*	*4.14*	18.65	9.82	*4.91*

Notes:

(1) Values in italics represent wastewater loading goals and the I/A systems which can meet the goals.
(2) Load calculations are based on a GIS analysis of the Town Assessor's data based on MEP methodologies.
(3) This loading goal is based on the estimated existing wastewater nitrogen for the Town of Eastham only. This does not reflect the threshold septic load for the entire watershed as shown on Table VII-2 of the MEP Rock Harbor Technical Report.
(4) Based on a 79% removal of wastewater nitrogen (1.05 kg/d – 0.83 kg/d) = 0.22 kg/d; and on a 55% removal of wastewater nitrogen (21.73 kg/d – 11.95 kg/d) = 9.78 kg/d for Rock Harbor Estuary and Nauset-Town Cove Estuary, respectively.
(5) Loading (kg/d) = Flow (mgd) x Effluent Concentration (mg/L) x 3.79. Where 8.345 / 2.2 lbs/kg = 3.79.