

STUDY AREA STATISTICS

Estimates based on GIS data and assumptions from literature review.

Note: Nutrient loading estimates are potential input

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		Study Area Land Use Indicators							Riparian Indicators					Estimated Nutrient Loading	
Study Area	Scenario	Acres	% Sewer	Percent High Intensity Land Use	% Impervious	% Forest	% Wetland	% Forest & wetland	RIP % HILU	RIP% Impervious	RIP % Forest	RIP % Wetland	RIP % Forest and Wetland	NO3N in GW Recharge mg/l	NO3N to GW recharge lbs/ac/yr
Fresh Pond Watershed	Current Land Use	232	0%	1%	5%	15%	4%	19%	0%	4%	19%	7%	26%	1.6	4.4
Sands Pond Watershed	Current Land Use	88	0%	1%	11%	29%	1%	30%	0%	9%	40%	0%	40%	3.1	7.1
Lower NC WHPA Cluster	Current Land Use	1218	8%	17%	18%	17%	10%	27%	11%	13%	8%	15%	23%	2.2	6.2
Minister's Lot NC WHPA	Current Land Use	229	0%	2%	12%	27%	7%	34%	0%	9%	19%	20%	40%	2.4	8.1
Sands Pond NC WHPA	Current Land Use	534	0%	1%	6%	34%	5%	38%	0%	5%	51%	10%	61%	1.4	5.1
ESearle WHPA	Current Land Use	429	0%	5%	6%	47%	1%	48%	0%	1%	46%	7%	53%	0.7	2.8

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s at the source and represent amounts entering runoff or groundwater recharge.

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loading

Estimated Nitrate-N sources to grw recharge

SOILS hydrologic groups

Study Area	Scenario	N SW runoff lbs/ac/yr	Total N to study area lbs/ac/yr	% N in SW runoff from Atm.	P to SW lbs/ac/yr	Septic Systems	Lawn Fert.	Agri. Fert	Pet Waste	Other	% A	% B	% C	% D
Fresh Pond Watershed	Current Land Use	3.2	7.6	44.4%	0.4	53%	18%	10%	3%	14%	56%	39%	4%	0%
Sands Pond Watershed	Current Land Use	4.1	11.2	35.3%	0.7	61%	22%	6%	4%	7%	23%	36%	40%	0%
Lower NC WHPA Cluster	Current Land Use	3.7	9.9	7.1%	0.8	64%	19%	6%	3%	8%	28%	29%	36%	7%
Minister's Lot NC WHPA	Current Land Use	3.0	11.1	6.1%	0.7	69%	21%	0%	4%	6%	6%	79%	12%	3%
Sands Pond NC WHPA	Current Land Use	2.9	8.0	15.0%	0.5	52%	19%	12%	3%	14%	14%	66%	20%	0%
ESearle WHPA	Current Land Use	1.8	4.6	2.6%	0.3	45%	19%	0%	3%	32%	70%	19%	11%	0%

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		SWAP						Estimated Water Budget / Runoff / Rechar					
Study Area	Scenario	%SHWT <1.5-3.5'	%SHWT 1.5'-3.5'	%Restr.C, .2"/hr	%Erode	HILU on A soil	HILU on HWT <3.5'	# ISDS	ISDS /Acre	Precip Inches	ET Inches	Avail. Precip Inches	SW runoff Inches
Fresh Pond Watershed	Current Land Use	1.1%	0%	3%	75%	0%	0%	31	0.13	40	18	22	9.9
Sands Pond Watershed	Current Land Use	19.5%	18%	27%	38%	0%	0%	22	0.24	40	18	22	12.5
Lower NC WHPA Cluster	Current Land Use	24.2%	14%	27%	33%	4%	0%	274	0.23	40	18	22	10.2
Minister's Lot NC WHPA	Current Land Use	19.2%	15%	6%	15%	0%	0%	73	0.32	40	18	22	7.7
Sands Pond NC WHPA	Current Land Use	11.9%	8%	14%	43%	0%	0%	81	0.15	40	18	22	6.4
ESearle WHPA	Current Land Use	10.4%	6%	7%	77%	2%	0%	31	0.07	40	18	22	3.6

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Study Area	Scenario	Net recharge Precip. Inches	ISDS recharge Inches	SW runoff % avail.	GW recharge % avail	Precip Mgal/yr	ET Mgal/yr	Avail. Precip Mgal/yr	surface runoff Mgal/yr	Avg.net recharge precip. Mgal/yr	ISDS recharge Mgal/yr	If 100% forested surface runoff Mgal/yr	Lost recharge from 100% forested Mgal/yr
Fresh Pond Watershed	Current Land Use	12.1	0.3	45%	55%	252	113	138	62	76	2	48	14
Sands Pond Watershed	Current Land Use	9.5	0.5	57%	43%	96	43	53	30	23	1	20	10
Lower NC WHPA Cluster	Current Land Use	11.8	0.4	46%	54%	1323	595	728	337	390	14	95	243
Minister's Lot NC WHPA	Current Land Use	14.3	0.6	35%	65%	248	112	137	48	89	4	15	33
Sands Pond NC WHPA	Current Land Use	15.6	0.3	29%	71%	580	261	319	93	226	4	50	43
ESearle WHPA	Current Land Use	18.4	0.1	16%	84%	466	210	256	42	214	2	9	33