NUTRIENT ALLOCATIONS - INITIAL ASSIGNMENTS
JORDAN RESERVOIR NUTRIENT MANAGEMENT STRATEGY
August 2009

UPPER NEW HOPE ARM

TMDL Targets:
35% TN reduction
5% TP reduction

				Transport		Allocations - TN			Allocations - TP		
Permit	**Owner**	**Facility**	**Qpmt (MGD)**	**TN**	**TP**	**TN at EOP (lb/yr)**	**Avg Conc EOP (mg/L)**	**TN to Lake (lb/yr)**	**TP at EOP (lb/yr)**	**Avg Conc EOP (mg/L)**	**TP to Lake (lb/yr)**
NC0047597	City of Durham	South Durham WRF	20.0	75%	67%	185,345	3.04	139,009	14,053	0.23	9,415
NC0025241	Orange Water & Sewer Authority	Mason Farm WWTP	**14.5**	63%	47%	134,375	3.04	84,656	10,188	0.23	4,789
NC0026051	Durham County	Triangle WWTP	**12.0**	96%	97%	111,207	3.04	106,759	8,432	0.23	8,179
NC0056413	Whippoorwill LLC	Carolina Meadows WWTP	**0.35**	63%	47%	3,244	3.04	2,043	246	0.23	116
NC0051314	North Chatham Water & Sewer Company, LLC	Cole Park Plaza	0.050	81%	84%	1,826	12.00	1,479	304	2.00	256
NC0043257	Nature Trails Association, CLP	Nature Trails Mobile Home Park WWTP	0.040	81%	84%	1,461	12.00	1,184	244	2.00	205
NC0042803	Birchwood Mobile Home Park	Birchwood Mobile Home Park	0.018	70%	64%	658	12.00	460	110	2.00	70
NC0074446	Hilltop Mobile Home Park	Hilltop Mobile Home Park	0.012	70%	64%	438	12.00	307	73	2.00	47
NC0048429	Cedar Village Apartments	Cedar Village Apartments	0.005	100%	100%	183	12.00	183	30	2.00	30
			46.98			438,736	**PS Alloc'n, lb/yr EOP**		33,680	**PS Alloc'n, lb/yr EOP**	
						3.04	**mg/L TN, Lg**		0.23	**mg/L TP, Lg**	
						12.00	**mg/L TN, Sm**		2.00	**mg/L TP, Sm**	
						PS Alloc'n, lb/yr at Lake:		336,079	**PS Alloc'n, lb/yr at Lake:**		23,106
							lb/yr TN, Lg:	332,467		**lb/yr TP, Lg:**	22,498
							lb/yr TN, Sm:	3,613		**lb/yr TP, Sm:**	608
							Calc'd redxn at Lake:	**35.0%**		**Calc'd redxn at Lake:**	**5.0%**

LOWER NEW HOPE ARM

Nutrient Reduction Targets:
Maintain 1997-2001 baseline loads for TN and TP
(0% reduction required, 0% increase allowed).

				Transport		Allocations - TN			Allocations - TP		
Permit	**Owner**	**Facility**	**Qpmt (MGD)**	**TN**	**TP**	**TN at EOP (lb/yr)**	**Avg Conc EOP (mg/L)**	**TN to Lake (lb/yr)**	**TP at EOP (lb/yr)**	**Avg Conc EOP (mg/L)**	**TP to Lake (lb/yr)**
NC0043559	Fearrington Utilities, Inc.	Fearrington Utilities WWTP	**0.5**	84%	88%	8,138	5.35	6,836	566	0.37	498
			0.5			8,138	**PS Alloc'n, lb/yr EOP**		566	**PS Alloc'n, lb/yr EOP**	
						5.35	**mg/L TN, Lg**		0.37	**mg/L TP, Lg**	
						N/A	**mg/L TN, Sm**		N/A	**mg/L TP, Sm**	
						PS Alloc'n, lb/yr at Lake:		6,836	**PS Alloc'n, lb/yr at Lake:**		498
							lb/yr TN, Lg:	6,836		**lb/yr TP, Lg:**	498
							lb/yr TN, Sm:	N/A		**lb/yr TP, Sm:**	N/A
							Calc'd redxn at Lake:	**0.0%**		**Calc'd redxn at Lake:**	**0.0%**

HAW RIVER ARM

Nutrient Reduction Targets:
8% TN reduction
5% TP reduction

				Transport		Allocations - TN			Allocations - TP		
Permit	**Owner**	**Facility**	**Qpmt (MGD)**	**TN**	**TP**	**TN at EOP (lb/yr)**	**Avg Conc EOP (mg/L)**	**TN to Lake (lb/yr)**	**TP at EOP (lb/yr)**	**Avg Conc EOP (mg/L)**	**TP to Lake (lb/yr)**
NC0047384	City of Greensboro	T.Z. Osborne WWTP	**40.0**	45%	44%	643,595	5.29	289,618	80,899	0.66	35,595
NC0024325	City of Greensboro	North Buffalo Creek WWTP	16.0	43%	42%	257,438	5.29	110,698	32,359	0.66	13,591
NC0023868	City of Burlington	Eastside WWTP	12.0	77%	69%	193,078	5.29	148,670	24,270	0.66	16,746
NC0023876	City of Burlington	Southside WWTP	12.0	80%	73%	193,078	5.29	154,463	24,270	0.66	17,717
NC0024881	City of Reidsville	Reidsville WWTP	7.5	66%	56%	120,674	5.29	79,645	15,169	0.66	8,494
NC0021211	City of Graham	Graham WWTP	3.5	81%	71%	56,315	5.29	45,615	7,079	0.66	5,026
NC0021474	City of Mebane	Mebane WWTP	2.5	56%	55%	40,225	5.29	22,526	5,056	0.66	2,781
NC0020354	Town of Pittsboro	Pittsboro WWTP	**2.25**	76%	82%	36,202	5.29	27,514	4,551	0.66	3,731
NC0066966	Quarterstone Farm Homeowners Assoc.	Quarterstone Farm WWTP	**0.20**	50%	43%	3,218	5.29	1,609	404	0.66	174
NC0003913	Glen Raven Inc	Altamahaw Division plant	0.15	58%	49%	2,413	5.29	1,400	303	0.66	149
NC0022691	Chateau Communities, Inc.	Autumn Forest Manuf. Home Community	0.082	52%	46%	2,995	12.00	1,558	499	2.00	230
NC0001210	Monarch Hosiery Mills Inc	Monarch Hosiery Mills Incorporated	0.050	58%	49%	1,826	12.00	1,059	304	2.00	149
NC0022675	Country Club Communities LLC	Birmingham Place	0.043	55%	52%	1,571	12.00	864	262	2.00	136
NC0042285	Trails Property Owners Assoc	Trails WWTP	0.040	84%	76%	1,461	12.00	1,227	244	2.00	185
NC0046043	Oak Ridge Military Academy	Oak Ridge Military Academy	0.040	46%	41%	1,461	12.00	672	244	2.00	100
NC0077968	Horners Mobile Home Park	Horners Mobile Home Park	0.040	58%	49%	1,461	12.00	847	244	2.00	119
NC0042528	B Everett Jordan & Son-1927 LLC	B Everett Jordan 1927 LLC	**0.036**	84%	76%	1,315	12.00	1,105	219	2.00	167
NC0038156	Guilford County Schools	Northeast Middle & Senior High WWTP	0.032	52%	46%	1,169	12.00	608	195	2.00	90
NC0073571	Mervyn R. King	Countryside Manor WWTP	**0.030**	42%	38%	1,096	12.00	460	183	2.00	69
NC0029726	NC Department of Correction	Guilford Correctional Center WWTP	0.025	36%	34%	913	12.00	329	152	2.00	52
NC0001384	Burlington Industries, Inc	Williamsburg plant	0.025	48%	47%	913	12.00	438	152	2.00	72
NC0035866	County of Chatham	Bynum WWTP	0.025	84%	76%	913	12.00	767	152	2.00	116
NC0065412	REA Enterprises, LLC	Pleasant Ridge WWTP	0.0235	51%	45%	858	12.00	438	143	2.00	64
NC0046809	Pentecostal Holiness Church	Pentecostal Holiness Church	0.020	46%	41%	731	12.00	336	122	2.00	50
NC0060259	Willow Oak Mobile Home Park	Willow Oak Mobile Home Park	0.0175	51%	45%	639	12.00	326	107	2.00	48
NC0031607	Alamance-Burlington School System	Western Alamance Middle School	0.015	64%	58%	548	12.00	351	91	2.00	53
NC0046019	Episcopal Diocese of North Carolina	The Summit WWTP	0.015	46%	41%	548	12.00	252	91	2.00	37
NC0045161	Alamance-Burlington School System	Altamahaw/Ossipee Elementary School	0.012	58%	49%	438	12.00	254	73	2.00	36
NC0045144	Alamance-Burlington School System	Western Alamance High School	0.0115	64%	58%	420	12.00	269	70	2.00	41
NC0038172	Guilford County Schools	McLeansville Middle School WWTP	0.0113	36%	34%	413	12.00	149	69	2.00	23
NC0022098	Cedar Valley Communities LLC	Cedar Valley WWTP	0.010	55%	52%	365	12.00	201	61	2.00	32
NC0045152	Alamance-Burlington School System	Jordan Elementary School	0.0075	84%	76%	274	12.00	230	46	2.00	35
NC0055271	Shields Mobile Home Park	Shields Mobile Home Park	0.006	64%	58%	219	12.00	140	37	2.00	21
NC0048241	Staley Hosiery Mills	Staley Hosiery Mills	0.005	74%	65%	183	12.00	135	30	2.00	20
NC0038164	Guilford County Schools	Nathanael Greene Elementary School WWTP	0.0045	75%	66%	164	12.00	123	27	2.00	18
NC0036994	Rockingham County Board of Education	Monroeton Elementary School	0.0042	42%	38%	153	12.00	64	26	2.00	10
NC0066010	Rockingham County Board of Education	Williamsburg Elementary School	0.004	51%	45%	146	12.00	75	24	2.00	11
NC0045128	Alamance-Burlington School System	Sylvan Elementary School	0.003	84%	76%	110	12.00	92	18	2.00	14
			96.74			1,569,542	**PS Alloc'n, lb/yr EOP**		198,243	**PS Alloc'n, lb/yr EOP**	
						5.29	**mg/L TN, Lg**		0.66	**mg/L TP, Lg**	
						12.00	**mg/L TN, Sm**		2.00	**mg/L TP, Sm**	
						PS Alloc'n, lb/yr at Lake:		895,127	**PS Alloc'n, lb/yr at Lake:**		106,001
							lb/yr TN, Lg:	881,757		**lb/yr TP, Lg:**	104,004
							lb/yr TN, Sm:	13,370		**lb/yr TP, Sm:**	1,996
							Calc'd redxn at Lake:	**8.0%**		**Calc'd redxn at Lake:**	**5.0%**

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