

Lake Jesup BMAP Allocations - Derivation of Overall Required Reduction

August 21, 2008 (no revisions since March, 2008)

	NET Loads (MT)			
	TMDL (Current Loads)	TMDL (loads to meet target TSI)	Required Reductions in TMDL	Required Reductions for BMAP
Surface	14	7.5	6.5	6.5
Baseflow	3.3	3.3	0	0
Septic Tanks	2.7	1.2	1.5	1.5
Groundwater	0.6	0.6	0	0
Atmospheric	3.1	3.1	0	0
River	5.1	3.3	1.8	0
Total	28.8	19	9.8	8
Data source:	TMDL Table 5.13b	TMDL Table 5.17b (consistent with Table 6.1)	= (Current Load - TMDL Target Load)	River reductions not required
	TMDL tables were based on net loads for surface runoff. No modifications required.			

	GROSS Loads (MT)			
	TMDL (Current Loads)	TMDL (loads to meet target TSI)	Required Reductions in TMDL	Required Reductions for BMAP
Surface	14.9	7.5	7.4	7.4
Baseflow	3.3	3.3	0	0
Septic Tanks	2.7	1.2	1.5	1.5
Groundwater	0.6	0.6	0	0
Atmospheric	3.1	3.1	0	0
River	5.1	3.3	1.8	0
Total	29.7	19	10.7	8.9
Data source:	TMDL Table 5.13b, with modified surface value	TMDL Table 5.17b (consistent with Table 6.1)	= (Current Load - TMDL Target Load)	River reductions not required
	Surface value = 14 MT from TMDL, plus 0.9 MT load reduction from BMPs as calculated in TMDL			

Lake Jesup BMAP Surface Runoff Allocation Table
PHOSPHORUS (all load values are gross loads, in pounds)

DRAFT - August 28, 2008

Column: A B C D E F G H I J K L M N O P																
Allocation Entity	TP Loading					Reductions Required			Documented TP Reductions Achieved			TP Load Reductions from New Projects			Non-quantifiable Reductions	Final Load Reduction Remaining
	Surface Runoff Load (TMDL)	Adjusted Surface Runoff Load (BMAP)	Septic Load (TMDL)	Adjusted Septic Load (BMAP)	Total Load (BMAP)	Surface Reduction Required	Septic Reduction Required	Total Reduction Required	TMDL BMPs	Completed/ Funded Structural Projects	Completed/ Funded Non-Structural Activities	Structural Projects	Non-Structural Activities	Interagency Project Participation		
Agriculture	1,185	1,149	0	0	1,149	771	0	771	20							751
Allamonte Springs	131	116	20	20	136	78	6	84	33							51
Casselberry	1,466	1,322	441	441	1,763	888	138	1,026	79							947
DOT District 5	690	687	0	0	687	461	0	461	162							300
Eatonville	191	191	0	3	194	128	1	129	10							120
Lake Mary	922	853	633	633	1,486	573	198	771	81							689
Longwood	927	813	548	548	1,361	546	171	718	60							658
Maitland	606	606	447	510	1,116	407	159	566	1							565
OOCEA	24	23	0	0	23	16	0	16	0							16
Orange Co (unincorporated)	1,203	934	230	3,904	4,838	627	1,221	1,848	32							1,816
Orlando	1,518	1,518	0	169	1,687	1,020	53	1,073	693							380
Oviedo	1,262	1,138	18	18	1,156	764	6	770	358							412
Sanford (city)	2,179	2,084	583	583	2,667	1,400	182	1,582	389							1,193
Sanford (Site 10 stormwater)	900	632	0	0	632	424	0	424	0							424
Seminole Co (unincorporated)	8,533	7,859	2,853	2,853	10,712	5,278	892	6,171	1,615							4,555
Turnpike Authority	440	430	0	0	430	289	0	289	37							252
Winter Park	1,662	1,662	0	774	2,436	1,116	242	1,358	218							1,140
Winter Springs	2,520	2,274	119	119	2,393	1,527	37	1,564	786							778
Water/Wetland/ Conservation Areas	7,764	7,719	-	-	7,719	0	0	0	213	-	-	-	-	-	-	-
TOTAL (lbs)	34,123	32,009	5,892	10,575	42,585	16,314	3,307	19,621	4,787							
TOTAL (MT)	15.5	14.5	2.7	4.8	19.3	7.4	1.5	8.9	2.2							

Lake Jesup BMAP Allocations - Allocation Spreadsheet Data Sources

August 21, 2008

Column	Information	Data Source	Details
A	Surface Runoff Load (TMDL)	TMDL loading rates and GIS layer (J. Walter, 3/12/08)	-
B	Adjusted Surface Runoff Load (BMAP)	BMAP loading rates and GIS layer (J. Walter, 3/12/08)	-
C	Septic Load (TMDL)	Assignment of TMDL septic loading based on spatial location of area served by septic tanks and associated TP loading by parcel (incorporates population density as described in TMDL).	See Section 4.2.2.3.F & Figure 4.7 in the TMDL
D	Adjusted Septic Load (BMAP)	TMDL septic loading, plus updates for jurisdictions with missing information (Eatonville, Maitland, Orlando, Orange County, and Winter Park)	Eatonville & Orlando calculated with geocoded DOH CENTRAX permit records. Maitland, Orange Co., & Winter Park calculated via same method as identified in TMDL (with new information on septic service areas provided by jurisdictions).
E	Total BMAP Load	= (Adjusted Surface Runoff Load) + Adjusted Septic Load	-
F	Surface Reduction Required	= [(Entity Adjusted Surface Runoff Load x Overall Reduction Required)] / [(Total Adjusted Surface Runoff Load)-(Water/Wetland/Conservation Area Load)]	"Overall reduction required" from TMDL; see Derivation of Reductions Worksheet
G	Septic Reduction Required	= [(Entity Adjusted BMAP Load x Septic Reduction Required)] / (Adjusted Septic Load)	"Overall reduction required" from TMDL; see Derivation of Reductions Worksheet
H	Total Reduction Required	= Surface Reduction Required + Septic Reduction Required	
I	TMDL BMPs	Updated BMP load reduction calculations (J. Walter, 3/12/08)	Based on information in TMDL Section 4.2.2.3.C
J	Completed/Funded Structural Projects	Project sheets & load reduction calculations	Pending completion of project sheets by allocation entities
K	Completed/Funded Non-Structural Activities	Project sheets & load reduction calculations	Pending completion of project sheets by allocation entities
L	Planned Structural Projects	Project sheets & load reduction calculations	Pending completion of project sheets by allocation entities
M	Planned Non-Structural Activities	Project sheets & load reduction calculations	Pending completion of project sheets by allocation entities
N	Interagency Project Participation	Project sheets & load reduction calculations	Pending completion of project sheets by allocation entities
O	Non-Quantifiable Reductions	TBD	May not include this column in final allocation table.
P	Final Load Reduction Remaining	= (Total Reduction Required) - [(TMDL BMPs) + (Completed/Funded Structural Projects) + (Completed/Funded Non-Structural Activities) + (Planned Structural Projects) + (Planned Non-Structural Activities) + (Interagency Project Participation)]	Should be "0"