



Table 1: Model Scenario Results Summary

Model Scenario	BMPDSS Model Run Date	High Flow Target, Q 0.3 (± %)	Low Flow Target, Q 95 (± %)
TMDL Targets for Sunderland Brook	---	-3.7%	3.6%
Existing Condition Post2002 Scenario	11/12/2014	-7.91%	2.08%
Proposed BMP Scenario "Credit2"	1/16/2015	-17.85%	8.33%

Table 2: TMDL Flow Target Allocation

MS4 Impervious Owner	Total Area w/in Watershed (acres)	Impervious Cover (acres)	% of Watershed Impervious Cover	Target High Flow Reduction (%)	Target Low Flow Increase (%)
University of Vermont	---	---	---	---	---
Town of Essex	318.32	123.14	37.6%	-1.32%	1.29%
Village of Essex Junction	173.58	86.5	26.4%	-0.93%	0.90%
Town of Colchester	867.07	107.18	32.8%	-1.34%	1.30%
VTrans	17.83	10.42	3.2%	-0.11%	0.11%
Watershed Total	1376.80	327.24		-3.7%	3.6%

* The low flow target is not actionable under the TMDL, but is included in the summary because improving base flow in the watershed is still a water quality goal.
 *The High Flow target is negative(-), indicating there needs to be a reduction in high flow from the baseline condition. The Low Flow target is positive (+), indicating there needs to be an increase in low flow from the baseline condition.
 *Watershed delineation from file: "Sunderland_subwat_Post2002_101714"

Table 3: Progress toward flow targets by model scenario

MS4 Impervious Owner	Existing Condition "Post 2002"						Proposed BMP Scenario "Credit2"					
	Managed Impervious Acres by DET or INF ¹	Target High Flow Q 0.3 (± %) Reduction Left ²	Percent of High-flow Target addressed, %	Managed Impervious Acres INF	Target Low Flow Q 95 (± %) Increase Left ³	Percent of Low-flow Target addressed, %	Managed Impervious Acres by DET or INF	Target High Flow Q 0.3 (± %) Reduction Left	Percent of High-flow Target addressed, %	Managed Impervious Acres INF	Target Low Flow Q 95 (± %) Increase Left	Percent of Low-flow Target addressed, %
Town of Essex	39.0	0%	286.2%	25.5	0%	133.9%	75.3	0%	748.5%	60.8	0%	484.8%
Village of Essex Junction	1.0	-0.88%	10.5%	1.0	0.88%	7.6%	10.6	0%	149.9%	9.6	0%	108.6%
Town of Colchester	33.0	0%	278.3%	2.7	0.99%	16.4%	36.3	0%	414.7%	4.4	0.7%	40.3%
VTrans	4.4	0%	381.7%	0.0	0.11%	0.0%	6.8	0%	796.1%	2.4	0%	221.3%
		4.21%	213.8%			57.8%			482.4%			231.4%
TARGET MET						TARGET MET						
1- DET= Detention BMP providing CPv storage, INF= Infiltration BMP infiltrating the CPv volume												
2-When the target was met, the " Q0.3 and Q95 LEFT to the managed" was changed to 0% in the table. There are still MS4's with a portion of the target left, even with the overall Watershed Target MET, because the allocation is relative to the MS4's original target allocation.												
3-The low flow target is not actionable under the TMDL, but is included in the summary because improving base flow in the watershed is still a water quality goal.												