

Appendix B
 2009-2014 BMP ACCOUNTING AND 2006-2009 HISTORICAL BMP ACCOUNTING
 ADJUSTOR CURVE METHOD WITH MS4 PERMIT LOADING RATES
 Summary of BMP's 7/1/2009-6/30/2014

RR practices																				
			IMPERVIOUS	LOADS (per DCR Potomac River Basin)			PERVIOUS	LOADS (per DCR Potomac River Basin)			TOTAL LOADS to SWMF			Runoff depth treated (in)	REMOVAL RATES per adjustor curves			Total Loads removed		
SWMF Type	Drain To MS4	Total drainage area (ac)	Area (ac)	TP	TN	TSS	Area (ac)	TP	TN	TSS	TP	TN	TSS		TP	TN	TSS	TP	TN	TSS
Bioretention 1	Yes	10.7291	6.8850	11.2	116.1	8064.5	3.8441	1.6	38.7	675.8	12.7	154.8	8740.3	0.50	52%	45%	56%	6.7	69.4	4894.6
Bioretention 1	No	0.5657	0.2757	0.4	4.6	322.9	0.29	0.1	2.9	51.0	0.6	7.6	373.9	0.50	52%	45%	56%	0.3	3.4	209.4
Bioretention 2	Yes	2.95	1.95	3.2	32.9	2284.1	1	0.4	10.1	175.8	3.6	42.9	2459.9	1.00	70%	60%	75%	2.5	25.7	1842.7
Bioretention 2	No	0.14	0.14	0.2	2.4	164.0	0	0.0	0.0	0.0	0.2	2.4	164.0	1.00	70%	60%	75%	0.2	1.4	122.8
GreenRoof	Yes	0.2058	0.21	0.3	3.5	241.1	0	0.0	0.0	0.0	0.3	3.5	241.1	0.50	52%	45%	56%	0.2	1.6	135.0
Infiltration Trench	No	5.01	1.74	2.8	29.3	2038.1	3.27	1.3	32.9	574.9	4.2	62.3	2613.0	0.50	52%	45%	56%	2.2	27.9	1463.3
Pavers	Yes	4.55	4.55	7.4	76.8	5332.7	0	0.0	0.0	0.0	7.4	76.8	5332.7	0.50	52%	45%	56%	3.9	34.4	2986.3
Pavers	No	0.26	0.26	0.4	4.4	304.5	0	0.0	0.0	0.0	0.4	4.4	304.5	0.50	52%	45%	56%	0.2	2.0	170.5
Total																		15.4	153.2	11552.0
ST practices																				
			IMPERVIOUS	LOADS (per DCR Potomac River Basin)			PERVIOUS	LOADS (per DCR Potomac River Basin)			TOTAL LOADS to SWMF			Runoff depth treated (in)	REMOVAL RATES per adjustor curves			Total Loads removed		
SWMF Type	Drain To MS4	Total drainage area (ac)	Area (ac)	TP	TN	TSS	Area (ac)	TP	TN	TSS	TP	TN	TSS		TP	TN	TSS	TP	TN	TSS
Manufactured-Filtering	Yes	28.0	25.5	41.3	429.9	29868.7	2.5	1.0	25.6	446.5	42.4	455.5	30315.2	0.50	41%	26%	52%	17.4	119.0	15844.8
Manufactured-Hydrodynamic	Yes	3.6	3.6	5.8	60.9	4228.5	0.00	0.0	0.0	0.0	5.8	60.9	4228.5	0.19	20%	13%	26%	1.2	7.9	1101.2
Total																		18.6	126.8	16942.4

Grand Total 34.0 280.0 28494.4

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 ADJUSTOR CURVE METHOD WITH MS4 PERMIT LOADING RATES
 Summary of Historical BMP's 1/1/2006-6/30/2009

RR practices			IMPERVIOUS	LOADS (per DCR Potomac River Basin)			PERVIO US	LOADS (per DCR Potomac River Basin)			TOTAL LOADS to SWMF			Runoff depth treated (in)	REMOVAL RATES per adjustor curves			Total Loads removed			
SWMF Type	Drain To MS4	Total drainage area (ac)	Area (ac)	TP	TN	TSS	Area (ac)	TP	TN	TSS	TP	TN	TSS		TP	TN	TSS	TP	TN	TSS	
Dry Swale	Yes	1.405	0.64	1.0	10.8	749.6	0.765	0.3	7.7	134.5	1.4	18.5	884.1	0.17	23%	20%	25%	.3	3.7	220.8	
Bioretention 1	Yes	1.08	0.7398	1.2	12.5	866.5	0.3402	0.1	3.4	59.8	1.3	15.9	926.3	0.50	52%	45%	56%	0.7	7.1	518.8	
Bioretention 2	Yes	0.0161	0.0161	0.0	0.3	18.9	0	0.0	0.0	0.0	0.0	0.3	18.9	1.00	70%	60%	75%	0.0	0.2	14.1	
GreenRoof	Yes	0.0042	0.0042	0.0	0.1	4.9	0	0.0	0.0	0.0	0.0	0.1	4.9	0.50	52%	45%	56%	0.0	0.0	2.8	
Infiltration Trench	Yes	2.6637	2.0995	3.4	35.4	2459.2	0.5642	0.2	5.7	99.2	3.6	41.1	2558.4	0.50	52%	45%	56%	1.9	18.4	1432.7	
Pavers	Yes	0.1595	0.1595	7.3	75.5	5247.5	0	0.0	0.6	9.8	7.3	76.1	5257.4	0.50	52%	45%	56%	3.8	34.1	2944.2	
Total																		3.1	30.6	2293.8	
ST practices			IMPERVIOUS	LOADS (per DCR Potomac River Basin)			PERVIO US	LOADS (per DCR Potomac River Basin)			TOTAL LOADS to SWMF			Runoff depth treated (in)	REMOVAL RATES per adjustor curves			Total Loads removed			
SWMF Type	Drain To MS4	Total drainage area (ac)	Area (ac)	TP	TN	TSS	Area (ac)	TP	TN	TSS	TP	TN	TSS		TP	TN	TSS	TP	TN	TSS	
Manufactured-Filtering	Yes	23.6	19.2	31.2	324.2	22524.1	4.4	1.8	44.2	771.6	33.0	368.4	23295.7	0.50	41%	26%	52%	13.5	96.1	12157.8	
Manufactured-Hydrodynamic	Yes	6.9	5.2	8.3	86.8	6032.3	1.7	0.7	17.3	302.4	9.0	104.1	6334.7	0.19	20%	13%	26%	1.9	13.6	1649.8	
																		total	15.4	109.7	13807.5
																		Grand Total	18.4	140.3	16101.3

Table revised 8/7/2015 – Following changes - added Public facility missed in prior submittal - added infiltration trenches not draining to MS4