

Pollutant Removals

Pollutant removal rates were calculated using the CBP approved retrofit removal adjuster curves as defined in the Retrofit Project Expert Panel Report¹. These pollutant reductions are preliminary estimates and are subject to change based on the outcomes of the as-built survey. That said, we are confident that they are close to the actual reductions. Please note that these pollutant reduction estimates are conservative and do not include the work done to stabilize the gullies preventing sediment loss downstream, the effect of the sand seepage berms nor the subsoiling application which can be viewed as a conversion from compacted turn to natural land cover.

BMP	BMP Type	Type	SWRv^a (CF)	Sv^b (CF)	CDA^c (ac)	Runoff Treated (in)	TP Load Reduction (lbs/yr)	TN Load Reduction (lbs/yr)	TSS Load Reduction (tons/yr)
1-1	Bioretention	RR	1,474	940	0.38	0.78	0.23	3.75	170.78
1-2	Bioretention	RR	3,185	2,157	0.91	0.82	0.54	8.70	417.94
1-3	Bioretention	RR	7,697	6,329	2.79	1.03	1.60	25.96	1,317.33
1-4	Bioretention	RR	7,119	5,725	1.80	0.97	1.10	17.77	806.74
1-5	Bioretention	RR	5,960	6,581	3.34	1.33	1.74	28.50	1,625.65
1-6	Bioretention	RR	3,134	3,138	1.23	1.23	0.69	11.30	585.00
1-7	Level Spreader	RR	939	540	0.23	1.16	0.15	2.38	105.35
2-1	Bioretention	RR	1,165	1,120	0.50	1.18	0.26	4.25	242.10
3-1	Bioretention	RR	3,239	2,652	1.83	1.01	0.90	14.86	910.11
	Subsoiling	N/A	3,232		2.97				
Total			37,143	29,181	15.98		4.70	117.49	6,181.00
^a Stormwater Retention Volume ^b BMP Storage Volume ^c Contributing Drainage Area including impervious, compacted and natural cover									

¹ "Recommendations of the Expert Panel to Define Removal Rates for Urban Stormwater Retrofit Projects" (Chesapeake Stormwater Network, 2015)