

ATTACHMENT E-1  
 Scott Township  
 Pollutant Reduction Plan  
 Proposed BMPs  
 Watershed: Lower Chartiers Creek

NLCD Land Cover <sup>2</sup>	Impervious Area	Pervious Area
Evergreen Forest (lb/ac/yr)	0%	100%
Developed, High Intensity (lb/ac/yr)	100%	0%
Developed, Low Intensity (lb/ac/yr)	49%	51%
Developed, Medium Intensity (lb/ac/yr)	79%	21%
Developed, Open Space (lb/ac/yr)	19%	81%

Pollutant Loading Factors <sup>1</sup>	Sediment (TSS)
Impervious Cover (lb/ac/yr)	1,839.000
Pervious Cover (lb/ac/yr)	264.960
Non Urbanized Areas (lb/ac/yr)	234.600

<b>Minimum Required Reduction (lb/yr)</b>	161,026
<b>Anticipated Reduction Achieved with Proposed BMPs (lb/yr)</b>	184,805

BMP Description	BMP Type	Tributary Area - NLCD Land Cover (ac)						Impervious/Pervious Area Tabulation (ac)			Existing Sediment (TSS) Loading (lb/yr)	Capture/Treatment Volume (ac-ft)	Capture/Treatment Volume (cf)	X - Runoff Depth Captured (in)	BMP Surface Area (sf)	BMP Depth (ft)	BMP Storage Capacity (cf)	Focal Point Area (sf)	BMP Efficiency Values	BMP Sediment Removal (lbs/yr)
		Total	Deciduous Forest	Developed, High Intensity	Developed, Low Intensity	Developed, Medium Intensity	Developed, Open Space	Urbanized Area - Impervious (Ac)	Urbanized Area Pervious (Ac)	Tributary Area Non-Urbanized (Ac)										
Green Commons Retrofit	Filtering Practices	65.12		4.222	18.058	15.581	27.259	30.559	34.561	0.000	65,355	1.019	44371	0.40	10,500.00	2.00	21,000.00	225	45%	29,410
Hope Street Park	Filtering Practices	23.79		0.39	7.621	2.916	12.862	8.872	14.917	0.000	20,268	0.591	25763	0.80	3,750.00	4.00	15,000.00	70	65%	13,174
Scott Park 2	Filtering Practices	4.80			2.7	0.142	1.956	1.807	2.991	0.000	4,115	0.151	6559	1.00	1,600.00	2.00	3,200.00	30	70%	2,881
Public Works	Filtering Practices	62.52	14.147	0.266	21.2	9.612	17.293	21.533	40.985	0.000	50,459	0.897	39083	0.50	4,700.00	5.00	23,500.00	100	52%	26,239
Scott Park 1	Filtering Practices	13.33	1.533		6.051	1.073	4.671	4.700	8.628	0.000	10,930	0.392	17062	1.00	4,000.00	2.00	8,000.00	100	70%	7,651
Spinner Field	Filtering Practices	22.39	0.035		16.246	0.741	5.364	9.565	12.821	0.000	20,987	0.797	34721	1.00	6,750.00	3.00	20,250.00	100	70%	14,691
Twp Building	Rain Garden, Underdrain	2.01			0.33	0.148	1.533	0.570	1.441	0.000	1,430	0.047	2069	1.00	1,750.00	1.50	2,625.00	--	70%	1,001
<b>Total:</b>		<b>193.95</b>	<b>15.715</b>	<b>4.878</b>	<b>72.206</b>	<b>30.213</b>	<b>70.938</b>	<b>77.605</b>	<b>116.345</b>	<b>0.000</b>	<b>173,543</b>									<b>95,045</b>

BMP Description	Sediment Removal Rate (lbs/ac/yr)	Length of Restoration	BMP Sediment Removal (lbs/yr)
Stream Restoration	44.88	2000	89,760

Note 1: Pollutant Loading Factors Based on Appendix B of PADEP PRP Instructions dated 3/2017  
 Note 2: Impervious Area coverages based on 2011 NLCD data