

Whitemarsh Township, Stormwater Improvement Projects Cost per Residence Analysis, November 2005

| <u>Project Name</u> | <u>Phase</u> | <u>Total Cost</u> ⁽²⁾ | <u>Number of Residences Benefited</u> | <u>Cost per Residence</u> | <u>Potential Traffic Hazard Reduction</u> | <u>Streambank Erosion Reduction</u> |
|--|--------------|----------------------------------|---------------------------------------|---------------------------|---|-------------------------------------|
| <u>Barren Hill Road Area (Plan Sheet 1)</u> | | | | | | |
| 1 Cedar Drive Road Improvements ** | I | \$145,662 | 13 | \$11,205 | High Benefit | Beneficial |
| 2 Barren Hill Road Sidewalk & Curb | I/A | \$229,714 | 14 | \$16,408 | | |
| 3 Piping Brook Lane to River Road | | \$205,895 | 14 | \$14,707 | | |
| 4 Barren Hill Road Driveway Improvements | | \$90,503 | 10 | \$9,050 | | |
| 5 Dogwood Lane | | \$63,407 | 6 | \$10,568 | | |
| 6 Red Maple Drive Area | | \$31,528 | 4 | \$7,882 | | |
| 7 Gabion Wall | | \$28,102 | 1 | \$28,102 | | |
| 8 Harts Ridge Basin Improvements | I/B | \$284,262 ⁽¹⁾ | 24 | \$11,844 | Beneficial | |
| 9 Cherrydale Basin | | \$421,318 ⁽¹⁾ | 45 | \$9,363 | | |
| Total | - | \$1,500,391 | 68 ⁽³⁾ | | | |
| <u>Harts Lane Area (Plan Sheet 1)</u> | | | | | | |
| 10 Harts Lane Collection System | I | \$63,991 | 1 (school) | \$63,991 | High Benefit | |
| 11 Golf Course By-Pass Swale | I/A | \$172,245 | 15 | \$11,483 | | |
| 12 Harts Lane / Paddock Lane Basin | | \$312,299 ⁽¹⁾ | 15 | \$20,820 | | |
| 13 Miquon Basin - North | I/B | \$150,893 ⁽¹⁾ | 1 (school) | \$150,893 | | |
| 14 Miquon Basin - South | | \$89,887 ⁽¹⁾ | 1 | \$89,887 | | |
| 15 Paddock Lane Culvert | | \$27,193 | 3 | \$9,064 | | |
| 16 River Road / Harts Lane Bypass | | \$109,421 | 1 | \$109,421 | Beneficial | |
| Total | - | \$925,929 | 16 ⁽³⁾ | | | |
| <u>Warner Road Area (Plan Sheet 2)</u> | | | | | | |
| 17 Second St / Center Ave Collection System * | I | \$68,145 | 8 | \$8,518 | Medium Benefit | |
| 18 Quarry Lane Collection System | I/A | \$252,870 | 28 | \$9,031 | | |
| 19 Center Ave / Edmonds Road Collection System | | \$601,818 | 38 | \$15,837 | | |
| 20 Whitemarsh Woods Basin | | \$351,109 | 41 | \$8,564 | | |
| 21 Green Valley County Club Basin | I/B | \$514,008 ⁽¹⁾ | 1 (stream protect) | \$514,008 | | |
| 22 South Warner Road Swale | | \$27,907 | 5 | \$5,581 | | |
| 23 N & S Warner Road Collection System | | \$686,610 | 51 | \$13,463 | | |
| Total | - | \$2,502,467 | 104 ⁽³⁾ | | | |

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|--|--------------|----------------------------------|---|---------------------------|---|-------------------------------------|
| <u>Whitemarsh Valley Farms - North Area (Plan Sheet 2)</u> | | | | | | |
| 24 Swale and Juniper Drive Collection System ** | I | \$31,321 | 9 | \$3,480 | Medium Benefit | |
| 25 Westaway Dr / Fields Dr Collection System | IIA | \$881,446 | 48 | \$18,363 | | |
| 26 Fox Lane & Fields Drive Basins | IIB | \$237,404 | 65 | \$3,652 | | Beneficial |
| 27 Swale | | \$32,710 | 4 | \$8,178 | | |
| Total | - | \$1,182,881 | 65 ⁽³⁾ | | | |
| <u>Edmonds Road Area (Plan Sheet 2)</u> | | | | | | |
| 28 Edmonds Road Collection System | I | \$132,785 | 14 | \$9,485 | Medium Benefit | |
| 29 Edmonds Road / Ridge Pike Collection System | IIA | \$107,572 | 8 | \$13,447 | | |
| Total | - | \$240,357 | 22 ⁽³⁾ | | | |
| <u>Fairway Road Area (Plan Sheet 2)</u> | | | | | | |
| 30 Fairway Road Collection System * | I | \$129,930 | 12 | \$10,828 | Medium Benefit | |
| 31 McCarthy Park Basins | IIA | \$1,175,988 ⁽¹⁾ | 46 | \$25,565 | | |
| 32 Indian Guide Road Collection System | IIB | \$598,767 | 38 | \$15,757 | | Beneficial |
| Total | - | \$1,904,685 | 69 ⁽³⁾ | | | |
| <u>Whitemarsh Valley Farms - South Area (Plan Sheet 2)</u> | | | | | | |
| 33 Jackson Dr / Hain Dr Collection System ** | I | \$176,995 | 16 | \$11,062 | Medium Benefit | |
| 34 Fields Drive Collection System | IIA | \$900,513 | 19 | \$47,395 | | |
| 35 Hain Drive Collection System | | \$494,940 | 15 | \$32,996 | | |
| 36 Germantown Pike Collection System | IIB | \$427,821 | 34 | \$12,583 | | |
| 37 Thomas Road Basin | | \$581,917 ⁽¹⁾ | 6 | \$96,986 | | Beneficial |
| Total | - | \$2,582,186 | 34 ⁽³⁾ | | | |
| <u>Stenton Avenue Area (Plan Sheet 3)</u> | | | | | | |
| 38 Culvert #1 (Insp by PennDOT) | | \$171,783 | 3 | \$57,261 | High Benefit | |
| 39 Culvert #2 (Insp by PennDOT) | | \$243,752 | 3 | \$81,251 | | |
| Total | - | \$415,535 | 3 ⁽³⁾ | | | |
| Subtotal | | \$11,254,431 | | | | |
| Less Phase I Projects Constructed | | <u>(\$373,870)</u> | (Phase I costs noted reflect construction bid costs only) | | | |
| Grand Total | | \$10,880,561 | | | | |

* Project Completed

** Project Partially Completed

⁽¹⁾ Stormwater Improvements required to offset higher peak flows resulting from moving water out of flooding areas more quickly through new upstream improvements.

⁽²⁾ Total Cost includes Estimated Construction Cost, Engineering, and Inspection.

⁽³⁾ Total number of different residences benefited by overall watershed improvements.