



George Wuerch, Mayor

Street Sediment Impacts: Data Report

Document No. WMP APr01006

**MUNICIPALITY OF ANCHORAGE
WATERSHED MANAGEMENT SECTION**

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Prepared for: Watershed Management Section
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Department of Public Works
Municipality of Anchorage

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Acronyms and Abbreviations

BMP	best management practice
DPW	Department of Public Works
EPA	United States Environmental Protection Agency
Kg/m ³	Kilograms per cubic meter
lb/cf	pounds per cubic foot
mg/L	milligram per liter
mm	millimeters
MOA	Municipality of Anchorage
MW	monitoring well
NCDC	National Climatic Data Center
NOAA	National Oceanic and Atmospheric Administration
NPDES	National Pollutant Discharge and Elimination System
OGS	oil grit separator
QC	quality control
SWMM	storm water management model
WMP	Watershed Management Program
WMS	Watershed Management Section

SUMMARY

In 2001, Municipality of Anchorage (MOA) Watershed Management Section (WMS) undertook a modeling effort utilizing the Environmental Protection Agency (EPA) storm water management model (SWMM) to assess how runoff quantity and quality has been altered by urbanization of land in the Anchorage Bowl. Portions of Chester Creek, Little Rabbit and Elmore Creek watersheds were selected for modeling. Each drainage modeling unit was divided into as many as 10 subcatchments, one for each of 10 land cover types (if present) within each drainage. Land cover types were derived from geographic information system (GIS) data and classified satellite images. Data for pre-development land cover conditions was derived from terrain unit mapping GIS data. Streams were not modeled.

Climatic input parameters included rainfall, temperature, wind speed, and evaporation. These data were obtained from National Weather Service data for the Anchorage International Airport. Three sediment sizes were modeled : small (<100 microns), medium (100 – 420 microns), and large (>420 microns). Sediment was modeled only on the paved streets and parking lot land cover types.

Three modeling runs were performed for each of the 194 drainages: two for pre-development conditions and one for current conditions. The model simulated hydrologic conditions over a 1-year duration. Output data included total runoff volume, peak runoff flows, total infiltration volume, total sediment buildup, and total sediment washed off in precipitation events.

Modeling results show the following trends:

- An increase in total runoff volume from pre-development to post-development conditions
- A decrease in groundwater infiltration from pre-development to post-development conditions
- Drainages with higher percentages of impervious surface cover produce more runoff
- Smaller sediment sizes are mobilized more readily than larger sediments in runoff events
- Development, including construction of increased impervious surfaces, dramatically decreases infiltration in a developed area.

INTRODUCTION

Information described in this data report was collected by MWH under Department of Public Works (DPW) WMS Project No. 95004. The data collection and modeling effort was performed to meet project requirements defined in the Municipality's National Pollutant Discharge Elimination System (NPDES) permit. The following subsections summarize project background information, primary data collection objectives, limitations of the model, and report organization.

Project Background

Assessing street sediment impacts in the Municipality is an ongoing process that has been developed as per Part II.A.6.c of the NPDES permit, which reads as follows:

Permittees shall continue to investigate the impacts of street sanding by performing a mass balance of street sediment, analysis of the street sediment adsorbed pollutants, and an analysis of commercial lot impacts from sediment buildup and runoff as identified in Part II.A.1.c (2) of this Permit and Appendix "A." Permittees shall perform an analysis of the potential impacts of deicing agents in accordance with Part II.A.c.(1) of this Permit and Appendix "A."

Part II.A.1.c(2) and Attachment A 4.1.2 of the permit provide further detail on general information needs, while Attachment A 4.2.4 describes general information needs in relation to watershed characterization efforts.

This data report meets the requirements detailed in Part II.A.1.c. However, the WMS assessment program is designed to implement projects that compliment each other. Therefore, modeling performed in the street sediments assessment task is only one, initial component of the overall assessment program. For this data report, modeling was performed to characterize storm water hydrology and sediment entering receiving waterbodies and specifically for portions of the Chester and Rabbit Creek watersheds. Modeling will address all watersheds in the Municipality in future efforts.

Project Purpose

This study was designed to provide watershed and street maintenance managers with data regarding application of materials onto Anchorage streets and impacts of the materials to receiving waters. Ultimately, these data may be used to design strategies for watershed and street maintenance management.

Sediment impact modeling in 2001 consisted of two components:

- Pre- and post-development storm water hydrologic modeling of outfall basins and drainages in the Chester Creek (within municipal boundaries) and Rabbit Creek (Little Rabbit and Elmore Creeks) watersheds, representing a piped storm water network and ditched network, respectively.
- Post-development storm water sediment modeling of outfall basins and drainages in the Chester Creek (within municipal boundaries) and Rabbit Creek (Little Rabbit and Elmore Creeks) watersheds.

Hydrologic and sediment impacts are critical factors that can significantly control other pollutant impacts from streets. For 2001, modeling was only performed on these two critical factors. Other pollutant modeling and creek modeling will be performed in future modeling efforts.

Problem Statements

This data report is intended to present information critical to answering the following watershed management questions concerning street sediment impacts:

- What is the magnitude of change hydrologically between pre- and post-development in Chester and Rabbit Creek watersheds?
- What magnitude of sediment is contributed to receiving waters in Chester and Rabbit Creek watersheds from streets and parking lots?

Data Limitations

Information acquired for this study is generally representative of Anchorage physical, climatic, and Municipal operational factors. The study focuses primarily on characterizing hydrologic changes based on development and sediment impact to receiving waters. This report does not address implications for planning, development, traffic safety, or changes in current practices to alternative forms of street deicing.

Modeling in 2001 supports the overall assessment program; improvements to modeling efforts will be part of an ongoing process of refinement and will continue to support ongoing efforts for other projects and needs. The 2001 modeling report has assigned a winter-to-summer season break as April 1. Continued modeling for other assessment projects after this data report was produced have based winter to summer season on May 1, based on the WMS Climate Study (WMS, 2000), to reflect strong seasonal differences. Due to this season break change and other model refinements, future modeling reports are likely to reflect similar trends but significant differences in the data they contain compared to the 2001 modeling effort.

This project was performed at an exploratory level, and was focused on select aspects of the modeling process. Assumptions used to determine the importance of these aspects may be only partly correct. Given the limitations of the study, however, it is believed that the results of the modeling are reasonably representative and useful in meeting WMS needs.

This data report describes the concepts and character of the modeled data. The specific intent of the data report is to summarize the history of modeling and validation efforts and to graphically present principal data characteristics.

Modeling was performed with the participation and funding of the WMS Project Management and Engineering Division of DPW. WMS provided review and oversight of the modeling process and MWH performed the model effort.

Report Organization

This document has been organized in the following manner:

Introduction. Summarizes the context of the 2001 Street Sediment Impact data report, presents a statement of the information required by watershed managers, discusses data limitations, and describes the organization of this document.

Model Development. Briefly describes the methods and logic used in the 2001 modeling effort.

Model Summary. Describes the results of the modeled data.

References. Contains the references cited in this report.

Appendix A. Drainage Input Data Tables.

Appendix B. Bibliography of Infiltration Values.

Appendix C. Example Input File.

Appendix D. SWMM Model Output Tables.

All figures and tables follow the written text where they are mentioned.

Model Development

This section summarizes the model and how data were reported and used to represent natural systems, processes, and runoff. It also describes any data quality and identifies assumptions, problems, and resolutions.

Model Purpose

MOA intends to use project data to compare pre- and post-development hydrologic changes and quantify post-development pollutant loading from streets and parking lots. Model development and refinement responds to EPA and MOA requirements. Project data will be used as a basis for assessing impacts of development. Model development and parameters were chosen to address critical system elements based on existing literature concerning impacts to urban receiving waters. This literature is documented within watershed characterization studies and is also available at the WMS library. The identified critical system elements were:

- Physical characteristics (slope, area, average drain elevation, climate, orographic effects and infiltration, storage, and other soil properties) of a particular watershed.
- Development characteristics (land cover, land use, length and type of drainage network [piped or ditched], and terrain type) of a particular watershed.

Model Selection

The EPA SWMM is a comprehensive computer model for analyzing quantity and quality problems associated with urban runoff. This model was selected after numerous models were assessed and was found to be acceptable to support MOA watershed management decisions. The modeler can simulate all aspects of urban hydrologic and quality cycles, including rainfall, snowmelt, surface and subsurface runoff, flow routing through drainage networks, storage, and treatment. Statistical analyses can be performed on long-term precipitation data and on output from continuous simulation. SWMM can also be used for planning and design.

SWMM was originally developed for the EPA between 1969 and 1971 (Metcalf and Eddy, Inc., 1971) and was the first comprehensive model of its type for urban runoff analysis. Maintenance of and improvements to SWMM led to Version 2 in 1975, Version 3 in 1981, and Version 4 (3,4). Version 4.3 of SWMM came out in November 1993. The model version used in this project is Version 4.4h. This model version was submitted for distribution in February, 2001, by the Oregon State University Department of Civil Engineering. Although version 4.4h is currently on unsupported, non-EPA approved release, Dr. Wayne C. Huber, one of the original developers of the SWMM model, also contributed to this latest version.

The 4.4h version of SWMM was chosen because it allows kinematic “cascading” of runoff from different land covers within a single drainage. The cascading effect refers to the ability of the model to pass runoff from one subcatchment (land cover type) to another before reaching a gutter or channel. This allows for a more realistic model of rainwater runoff across land surfaces and represents an important step forward in modeling urban environments.

Conceptual Model

For the 2001 modeling effort, the runoff block of the SWMM model was specifically used to generate storm water runoff and sediment quantity. The primary function of the 2001 modeling effort was to simulate sediment and hydrologic behavior as rain fell and flowed across different land cover types within a drainage basin. These land cover types had various associated parameters that influenced hydrologic and sediment behavior, such as impermeability. The effort was designed to model drainage runoff and sediment generation at their current level of development and to compare the amount of runoff with conditions in the drainage prior to development. Streams were not modeled.

A key component of the modeling effort is ensuring proper overland flow characteristics of runoff from streets (both paved and unpaved). The street runoff component of the model was designed so that runoff flow reflects the movement of storm water from the center of a street to the edge of the street. If the road is ditched, runoff enters the ditch and flows down the length of the ditch. If a road has catchbasins, runoff is directed to the exit point of the drainage basin. These concepts are illustrated in Figure 1.

Model Resolution

The modeling effort was performed on the “sub-drainage” level of the Chester Creek and Rabbit Creek watersheds. Sub-drainages comprise whole stormwater conveyance systems. Sub-drainages are non-stream watercourses and do not cross any portion of a stream. They are the smallest unit of a watershed and may be classified as either “natural” basins (surface flows conveyed by natural drainageways, i.e., swells or rills) or “outfall basins” (surface flows conveyed by man-made stormwater conveyances).

All sub-drainages within selected drainage areas were modeled.

MODEL INPUTS

Input data for drainage modeling relied heavily on data derived from GIS analysis performed by the consulting firm GeoNorth. A list of coverages used in the model and information derived from them by GeoNorth is provided in Table 1.

Figure 1 Conceptual Model Overview

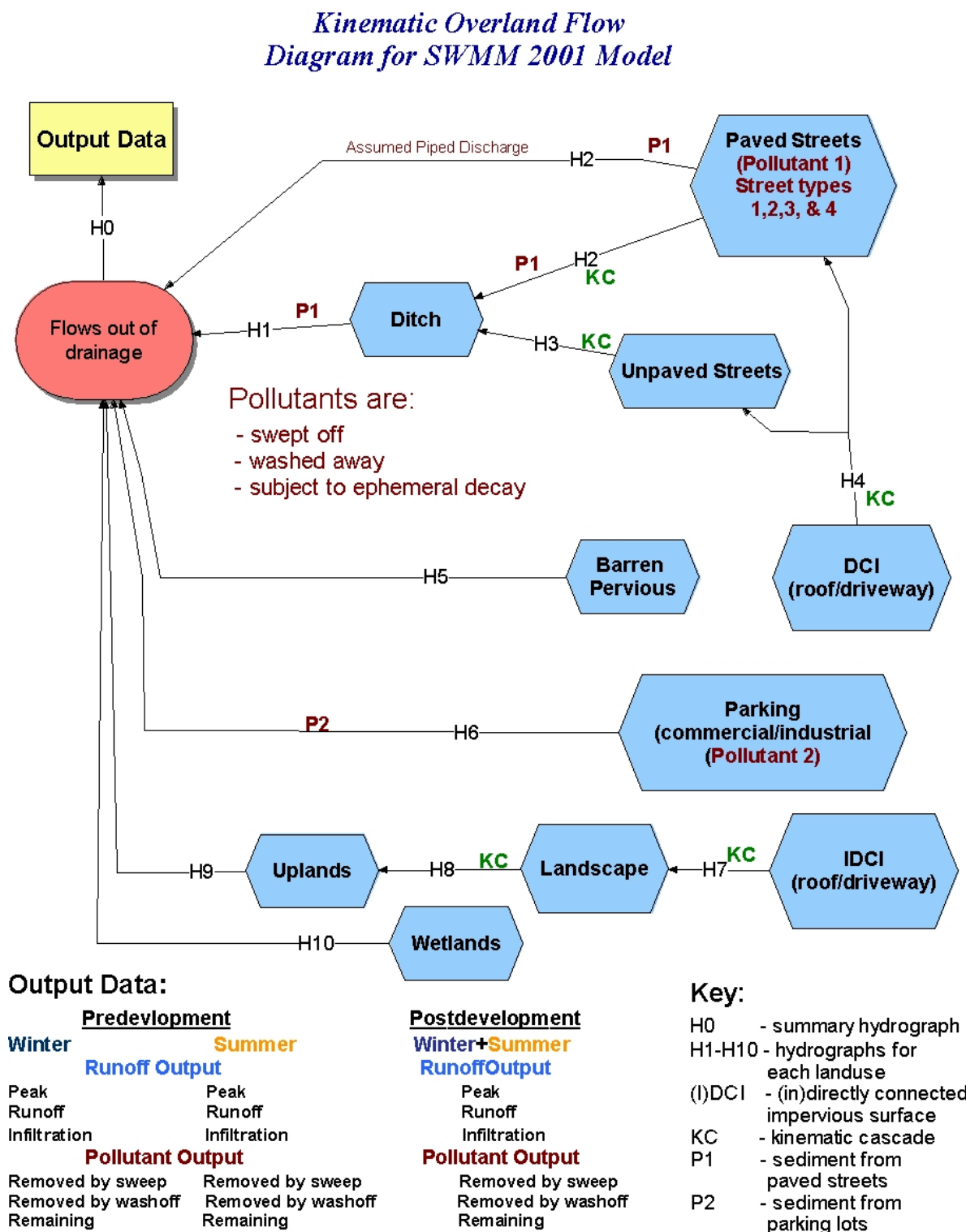


Table 1**GIS COVERAGES AND DERIVED INFORMATION**

GIS Coverages	Derived Information
Drainages	Area
10-foot DEM	Slope, average drainage information
Roads	Length of road type within each drainage
Ditches	Length of ditches within each drainage
Wetlands	Area within each drainage
Coastland Wetland	Area within each drainage
Land Use	<ul style="list-style-type: none"> • Derivation of parking lots • Barren pervious • Directly connected impervious (DCI) • Indirectly connected impervious (IDCI) • Landscaped vegetated • Vegetated upland areas
Orographic Contour	Precipitation variation with altitude
Terrain Units	Pre-development upland areas

Key:

DCI – directly connected impervious

DEM – digital elevation model

IDCI – indirectly connected impervious

Using satellite imagery and GIS coverages, input data and parameters were developed for up to 10 land covers that may be present within each drainage. Within SWMM, each land cover was assigned as a subcatchment, which is the smallest functional unit of the model. GeoNorth provided data summaries for the “current” and “pre-development” scenarios derived for these land covers. These input data summary sheets are provided in Appendix A. Tables 2 and 3 show the generalized subcatchment input data parameters for the SWMM model.

CLIMATE—TEMPERATURE, RAINFALL, EVAPORATION, AND WIND SPEED

Runoff values for each drainage are dependent on the weather during each time-step of the model. The two primary climatic inputs for SWMM are temperature and rainfall. These data were obtained from the National Oceanic and Atmospheric Administration (NOAA) National Climatic Data Center (NCDC) for the weather station at the Ted Stevens International Airport (Station ID No. 500280) for 1965, and assumed to be representative of an average climate year for Anchorage, based on 1999 WMS climate analysis (WMS, 1999b). Rainfall data were provided in hourly increments. To simulate orographic effects, rainfall intensity contours from

Table 2

SUBCATCHMENT INPUT DATA

SWMM Input Line H1								
Subcatchment / Land Cover	SWMM Code (NAMEW in H1)	Flows to (NGTO in H1)	$\text{length}_{\text{effective}}$	$\text{width}_{\text{effective}}$	$\text{Area}_{\text{effective}}$	Percent impervious	Percent slope	Impervious Manning's Roughness
Vegetated Lowland (wetlands)	200	out	$\frac{\sum_0^n (\sqrt{\text{Area}_n} \times \text{Area}_n)}{\text{Area}_{\text{total}}}$	$\frac{\text{Area}_{\text{total}}}{L_{\text{effective}}}$	$\sum_0^n (\text{Area}_0 + \dots + \text{Area}_n)$	0	$\frac{\sum_0^n (\sqrt{\text{Slope}_n} \times \text{Area}_n)}{\text{Area}_{\text{total}}}$	n/a
Ditches	300	out	12 ft.	$\frac{\text{Area}_{\text{total}}}{L_{\text{effective}}}$	$\sum_0^n (\text{Area}_0 + \dots + \text{Area}_n)$	0	33%	n/a
Paved Street (paved)	425	out	$\frac{\sum_0^n (L_1 \times A_1) + \dots + (L_1 \times A_4)}{\text{Area}_{\text{total}}}$	$\frac{\text{Area}_{\text{total}}}{L_{\text{effective}}}$	$\sum_0^n (\text{Area}_0 + \dots + \text{Area}_n)$	100	0.1%	0.011
Unpaved Streets (dirt)	475	300	36 ft	$\frac{\text{Area}_{\text{total}}}{L_{\text{effective}}}$	$\sum_0^n (\text{Area}_0 + \dots + \text{Area}_n)$	0	0.1%	n/a
Paved Parking (parking)	500	out	$\frac{\sum_0^n (\sqrt{\text{Area}_n} \times \text{Area}_n)}{\text{Area}_{\text{total}}}$	$\frac{\text{Area}_{\text{total}}}{L_{\text{effective}}}$	$\sum_0^n (\text{Area}_0 + \dots + \text{Area}_n)$	100	$\frac{\sum_0^n (\sqrt{\text{Slope}_n} \times \text{Area}_n)}{\text{Area}_{\text{total}}}$	0.011
DCI roof/paved driveway)	600	475 or 425	$\frac{\sum_0^n (\sqrt{\text{Area}_n} \times \text{Area}_n)}{\text{Area}_{\text{total}}}$	$\frac{\text{Area}_{\text{total}}}{L_{\text{effective}}}$	$\sum_0^n (\text{Area}_0 + \dots + \text{Area}_n)$	100	$\frac{\sum_0^n (\sqrt{\text{Slope}_n} \times \text{Area}_n)}{\text{Area}_{\text{total}}}$	0.011
Barren Pervious (barren)	700	out	$\frac{\sum_0^n (\sqrt{\text{Area}_n} \times \text{Area}_n)}{\text{Area}_{\text{total}}}$	$\frac{\text{Area}_{\text{total}}}{L_{\text{effective}}}$	$\sum_0^n (\text{Area}_0 + \dots + \text{Area}_n)$	0	$\frac{\sum_0^n (\sqrt{\text{Slope}_n} \times \text{Area}_n)}{\text{Area}_{\text{total}}}$	n/a
Vegetated Upland (upland)	825	out	$\frac{\sum_0^n (\sqrt{\text{Area}_n} \times \text{Area}_n)}{\text{Area}_{\text{total}}}$	$\frac{\text{Area}_{\text{total}}}{L_{\text{effective}}}$	$\sum_0^n (\text{Area}_0 + \dots + \text{Area}_n)$	0	$\frac{\sum_0^n (\sqrt{\text{Slope}_n} \times \text{Area}_n)}{\text{Area}_{\text{total}}}$	n/a
Landscaped Vegetated (landscaped)	875	825	$\frac{\sum_0^n (\sqrt{\text{Area}_n} \times \text{Area}_n)}{\text{Area}_{\text{total}}}$	$\frac{\text{Area}_{\text{total}}}{L_{\text{effective}}}$	$\sum_0^n (\text{Area}_0 + \dots + \text{Area}_n)$	0	$\frac{\sum_0^n (\sqrt{\text{Slope}_n} \times \text{Area}_n)}{\text{Area}_{\text{total}}}$	n/a
IDCI roof/paved driveway)	900	875	$\frac{\sum_0^n (\sqrt{\text{Area}_n} \times \text{Area}_n)}{\text{Area}_{\text{total}}}$	$\frac{\text{Area}_{\text{total}}}{L_{\text{effective}}}$	$\sum_0^n (\text{Area}_0 + \dots + \text{Area}_n)$	100	$\frac{\sum_0^n (\sqrt{\text{Slope}_n} \times \text{Area}_n)}{\text{Area}_{\text{total}}}$	0.011

Key:

DCI – directly connected impervious

IDCI – indirectly connected impervious

Table 3

ADDITIONAL SUBCATCHMENT INPUT DATA

Subcatchment/Land Cover	Pervious Manning's Roughness	Impervious Depressional Storage	Pervious Depressional Storage (inches)	Average Capillary Suction (inches)	Saturated Hydraulic Conductivity (in/hr)	Initial Moisture Deficit for Soil (fraction void)	RMAXINF	IFLOWP	Percent Impervious with Zero Depression
Vegetated Lowland (wetlands)	0.020	N/A	4	12	0.140	0.21	N/A	0	25
(ditches)	0.130	N/A	0.4	10	0.500	0.26	N/A	0	25
Paved Street (paved)	N/A	0.1	N/A	N/A	N/A	N/A	N/A	0	25
Unpaved Streets (dirt)	0.020	N/A	0.15	7	0.005	0.34	N/A	3	25
Paved Parking (parking)	N/A	0.15	N/A	N/A	N/A	N/A	N/A	0	25
DCI (roof/paved driveway)	N/A	0.15 - .20	N/A	N/A	N/A	N/A	N/A	3	25
Barren Pervious (barren)	0.020	N/A	0.2	7	0.050	0.34	N/A	0	25
Vegetated Upland (upland)	0.020	N/A	2	9 or 10	2.500	0.31	N/A	0	25
Landscaped Vegetated (landscaped)	0.040	N/A	0.3	10	0.250	0.26	N/A	3	25
IDCI (roof/paved driveway)	N/A	0.15 - 0.2	N/A	N/A	N/A	N/A	N/A	3	25

Key:

DCI – directly connected impervious

IDCI – indirectly connected impervious

N/A – not applicable

the 1988 MOA Design Criteria Manual were evaluated for each drainage and rainfall volumes were multiplied based on the intensity contour located closest to the drainage. Temperature data were provided as daily high and low temperatures. Orographic temperature effects were not simulated for this modeling effort due to the complexity of varying temperatures across MOA between winter and summer.

Evaporation rate (inches/day) were included in the SWMM inputs. In addition, average monthly wind speeds were included in the model inputs (Table 3). Wind speed was used in determining snowmelt rates only. These were also derived from NOAA NCDC data for Anchorage.

INFILTRATION PARAMETERS

Green-Ampt infiltration equations were used for the SWMM models, which required the derivation of average capillary suction, saturated hydraulic conductivity, and the initial moisture deficit for each of the land cover types that are composed of pervious surfaces. Infiltration parameters are provided Table 4. These values were derived from a variety of resources (see Appendix B)

Table 4

DERIVED INFILTRATION PARAMETERS

	Summer			Winter
	Average Capillary Suction (in)	Initial Moisture Deficit for Soils (fraction void)	Saturated Hydraulic Conductivity (in/hr)	Infiltration (in/hr)
Unpaved Streets	7	0.34	0.005	0.0007
Ditches	10	0.26	0.500	0.0142
Barren (developed)	7	0.34	0.050	0.0142
Landscaped Vegetated	10	0.26	0.250	0.0142
Vegetated Upland	9 or 10	0.31	2.500	0.1417
Vegetated Lowland	12	0.21	0.140	0.0001

Key:

in – inches

hr – hour

SNOWMELT

Snowmelt parameters for impervious and pervious surfaces were derived from the results of the oil grit separator (OGS) modeling performed in 1998 for the MOA (WMS, 1999a).

Parameters used for snowmelt are listed in Tables 5 and 6. These tables reference the input line ID, which references where these data are located in the SWMM input file. A sample SWMM input file is presented in Appendix D. For additional information regarding SWMM input data, see the SWMM version 4 Users Manual (Huber and Dickinson, 1988).

Table 5
SNOWMELT PARAMETERS

SWMM Input Line Reference	Average Drainage Elevation	Ratio of free-water holding capacity to snow depth on snow-covered impervious area	Ratio of free-water holding capacity to snow depth on snow-covered pervious area	Ratio of free-water holding capacity to snow depth on normally bare impervious area.	Dividing temperature between snow and rain (Fahrenheit)	Snow gauge catch correction factor for NWS precipitation data	Antecedent temperature index - how fast snow temperature changes relative to air temperature	Ratio of negative melt coefficient to melt coefficient	Latitude	Longitudinal correction value		
C1	(varies)	0.02	0.1	0.02	33	1	0.3	0.75	61	60		
SWMM Input Line Reference	Avg. wind speed (mph) - January	Avg. wind speed (mph) - February	Avg. wind speed (mph) - March	Avg. wind speed (mph) - April	Avg. wind speed (mph) - May	Avg. wind speed (mph) - June	Avg. wind speed (mph) - July	Avg. wind speed (mph) - August	Avg. wind speed (mph) - September	Avg. wind speed (mph) - October	Avg. wind speed (mph) - November	Avg. wind speed (mph) - December
C2	6	7	7	7	8	8	8	7	7	7	7	6
SWMM Input Line Reference	ADC - Value 1 (impervious)	ADC - Value 2 (impervious)	ADC - Value 3 (impervious)	ADC - Value 4 (impervious)	ADC - Value 5 (impervious)	ADC - Value 6 (impervious)	ADC - Value 7 (impervious)	ADC - Value 8 (impervious)	ADC - Value 9 (impervious)	ADC - Value 10 (impervious)		
C3	0	0.02	0.03	0.05	0.07	0.1	0.12	0.15	0.18	0.4		
SWMM Input Line Reference	ADC - Value 1 (pervious)	ADC - Value 2 (pervious)	ADC - Value 3 (pervious)	ADC - Value 4 (pervious)	ADC - Value 5 (pervious)	ADC - Value 6 (pervious)	ADC - Value 7 (pervious)	ADC - Value 8 (pervious)	ADC - Value 9 (pervious)	ADC - Value 10 (pervious)		
C4	0.05	0.08	0.1	0.12	0.15	0.2	0.25	0.35	0.47	0.64		

Key:
ADC – areal depletion curve
NWS – National Weather Service
SWMM – stormwater management model

Table 6

ADDITIONAL SNOWMELT PARAMETERS

SWMM Input Line I1											
Subcatchment/Land Cover	SWMM Code (NAMEW in H1)	Fraction of Impervious Area Subject to Areal Depletion Curve	Fraction of Pervious Area Subject to Snow Cover	Initial Snow Depth of impervious Area that is Normally Snow-Covered (inches water)	Initial Snow Depth on Pervious Area (inches water)	Initial Free Water on Snow-Covered Impervious Area	Initial Free Water on Snow-Covered Pervious Area	Maximum Melt Coefficient (June 21) for Snow-Covered Impervious Area	Maximum Melt Coefficient (June 21) for Snow-Covered Pervious Area	Snow Melt Base Temperature for Snow-Covered Impervious Area	Snow Melt Base Temperature for Snow-Covered Pervious Area
Vegetated Lowland (Wetlands)	200	1	1	0	N/A	0	N/A	0.008	0.002	32	32
Ditches	300	N/A	1	0	N/A	0	N/A	N/A	0.002	32	32
Paved (streets)	425	0	1	N/A	0	N/A	0	0.008	N/A	32	32
Unpaved Streets	475	N/A	1	0	N/A	0	N/A	N/A	0.002	32	32
Paved Parking	500	0.8	1	N/A	0	N/A	0	0.008	N/A	32	32
DCI (roof/paved driveway)	600	0.75	1	N/A	0	N/A	0	0.008	N/A	32	32
Barren (pervious)	700	N/A	1	0	N/A	0	N/A	N/A	0.002	32	32
Vegetated Upland	825	N/A	1	0	N/A	0	N/A	N/A	0.002	32	32
Landscaped Vegetated	875	N/A	1	0	N/A	0	N/A	N/A	0.002	32	32
IDCI (roof/paved driveway)	900	0.75	1	N/A	0	N/A	0	0.008	N/A	32	32
SWMM Input Line I2											
Subcatchment/Land Cover	SWMM Code (NAMEW in H1)	Initial Snow Depth on Impervious Area That is Usually Bare	Initial Free Water on Impervious Area that is Usually Bare	Max. Melt Coefficient (June 21) for Snow on Normally Bare Impervious Area	Snow Melt Base Temperature for Normally Bare Impervious Area	Minimum Melt Coefficient (Dec 21) for Snow-Covered Impervious Areas	Minimum Melt Coefficient (Dec 21) for Snow-Covered Pervious Areas	Minimum Melt Coefficient (Dec 21) for Normally Bare Impervious Areas	Snow Depth Above which there is 100% Cover on Impervious Areas	Snow Depth AboveTis 100% Cover on Pervious Areas	Snow Above This Level Gets Plowed* (inches water)
Vegetated Lowland (Wetlands)	200	0	0	0.008	32	0.008	0.004	0.008	0.2	0.3	0.15
Ditches	300	0	0	0.008	32	0.008	0.004	0.008	0.2	0.3	0.15
Paved (streets)	425	0	0	0.008	32	0.008	0.004	0.008	0.2	0.3	0.15
Unpaved Streets	475	0	0	0.008	32	0.008	0.004	0.008	0.2	0.3	0.15
Paved Parking	500	0	0	0.008	32	0.008	0.004	0.008	0.2	0.3	0.15
DCI (roof/paved driveway)	600	0	0	0.008	32	0.008	0.004	0.008	0.2	0.3	0.15
Barren (pervious)	700	0	0	0.008	32	0.008	0.004	0.008	0.2	0.3	0.15
Vegetated Upland	825	0	0	0.008	32	0.008	0.004	0.008	0.2	0.3	0.15
Landscaped Vegetated	875	0	0	0.008	32	0.008	0.004	0.008	0.2	0.3	0.15
IDCI (roof/paved driveway)	900	0	0	0.008	32	0.008	0.004	0.008	0.2	0.3	0.15

Key:
DCI – directly connected impervious
IDCI – indirectly connected impervious
N/A – not applicable
SWMM – stormwater management model

SEDIMENT

Three particle sizes were modeled for the 2001 modeling effort: small (<100 microns), medium (100 – 420 microns), and large (>420 microns). These sediments were modeled for the “paved streets” and “parking” land covers (subcatchments) within each modeled drainage. Buildup and removal parameters for each of the three sediment sizes were based on the road “type” of the street, which is a function of the street width, which, in turn, is a function of the street’s average daily traffic volume (WMS, 1999a). These street types are presented in Table 7.

Table 7

STREET TYPE DESCRIPTION

Street Type	Description	Width (ft.)
1	Local	36
2	Collector	50
3	Minor arterial	60
4	Major arterial	72

For each “paved street” land cover, the percentage composition of the streets (types 1 – 4) were calculated and the corresponding buildup and washoff rates were calculated based on the percentage breakdowns. For the “parking” land cover, these areas were modeled with the sediment buildup and washoff parameters associated with street type 2, which assumes a light to moderate volume of traffic.

Removal mechanisms modeled included street sweeping, washoff, and ephemeral decay. As with the snowmelt parameters, sediment was modeled based on calibrated parameters used and developed for previous SWMM model runs in the 1999 OGS study (WMS, 1999a). These same washoff and runoff parameters were used for the 2001 modeling effort. Tables 8 and 9 show the input parameters used in the model inputs.

Street sweeping was initiated on April 15 of the modeling year and ended on September 30. Street types 1 and 2 were swept at 60-day intervals during this time, while street types 3 and 4 and parking areas were swept at 120-day intervals (Table 8).

Upon initiating the pollutant modeling equations of SWMM, the model requires that “land covers” (which, in this case, were the four “paved street” types and the “parking” areas) be applied in some fraction to each subcatchment. For this reason, it was necessary to create a “dummy” set of pollutant generation parameters, which generated a negligible amount of sediment buildup on each of the remaining subcatchments (if they were present).

SEASONAL VARIATION

Each drainage was modeled three times, with one run to simulate runoff at the current level of development and two more to simulate runoff prior to development. Pre-development drainages were modeled separately for summer and winter because infiltration values for the winter run were modified to represent the reduced infiltration rates experienced in winter, when the ground is frozen. This was not performed for the “current” scenario models because of project time constraints and because the “current” drainages have impervious land covers, while the “pre-development” drainages do not. Each model run simulated a time period of 1-year using rainfall and temperature data from 1965.

For the 2001 modeling effort, March 31 was chosen as the winter-summer dividing date because April 1 is the date when street sweeping contracts typically begin and sweeping was to be contained in the summer modeling runs only. April 1 was also used as the dividing date because according to the 1998 Climate Characteristics Report for Storm Water Modeling, this is the date when meltwater runoff was completed in 1965. However, future modeling may use May 1 as the dividing date, based on more detailed evaluation of Anchorage climate. Analyses of Ted Stevens International Airport climate data, which was used in the 1998 climate report, indicated that April 15 is a more average time for complete snowmelt. However, this data does not recognize the significant climate variation between the airport, east Anchorage, or the Hillside areas. Large variation does exist from orographic elevation and other effects which can cause an area such as the Hillside to experience snowmelt well into May. A later date such as May 1 should be more representative of the whole Municipality. Table 10 summarizes the seasonal modeling run breakdown.

Table 8
SEDIMENT MODELING PARAMETERS

SWMM Input Line J1								
Number of Quality Constituents (NQS)	Number of Land Uses in the Simulation (JLAND)	Erosion Not Simulated (IROS)	Number of Dry Days Prior to Simulation Start (DRYDAY)	Avg. Individual Catchbasin Storage Volume (cu. Ft) for the First Flush (Negligible) (CBVOL)	Number of Dry Days Required to Recharge Catchbasin Concentrations to Their Initial Values (DRYBSN)	Street Sweeping Efficiency (removal fraction) for Dust and dirt (RFDD)	Day of Year Sweeping Begins (KLNBN)	Day of Year Sweeping Ends (KLNEND)
3	6	0	7	10	10	0.9	135 (April 15)	270 (September 30)
SWMM Input Line J2								
Name of the Land Use (LNAME)	Buildup Equation for Dust and Dirt (METHOD)	Functional Dependence of buildup parameters (JACGUT)	Limiting Buildup Quantity (Lb/acre) (DDLIM)	Power or Exponent (DDPOW)	Coefficient (not used when JACGUT = 1) (DDFACT)	Cleaning Interval, Days (CLFREQ)	Availability Factor, Percent Land Use Where Sweeping Is Available (AVSWP)	Days Since Last Cleaning (DSLCL)
Streets 1 (36 ft)	0, power-linear	1, fx of subcatchment area	3,000	1	10	60	0.9	15
Streets 2 (50 ft)	0, power-linear	1, fx of subcatchment area	3,000	1	10	60	0.9	15
Streets 3 (60 ft)	0, power-linear	1, fx of subcatchment area	3,000	1	10	120	0.9	119
Streets 4 (72 ft)	0, power-linear	1, fx of subcatchment area	3,000	1	10	120	0.9	119
Parking Lots (same as street 2)	0, power-linear	1, fx of subcatchment area	3,000	1	10	120	0.9	119
Dummy	0, power-linear	1, fx of subcatchment area	3,000	1	1	120	0.9	119

Table 9
ADDITIONAL SEDIMENT MODELING PARAMETERS

SWMM Input Line J3																
Constituent Name (PNAME)	Constituent Units (PUNIT)	Type of Units (NDIM)	Type of Buildup Calculation (KALC)	Type of Washoff Calculation (KWASH)	Functional Dependence of Buildup Parameters (KACGUT)	Linkage to Snowmelt (LINKUP)	Upper Limit of Constituent (lbs / acre) (QFACT1)	Power Exponent for Runoff Rate (QFACT2)	Daily Buildup Rate (lb / acre day) (QFACT3)	Power (exponent) for Runoff Rate (WASHPO)	Coefficient (RCOEFF)	Initial Catchbasin Concentration (CBFACT)	Concentration in Precipitation (CONCRN)	Street Sweeping Removal Fraction for Pollutatnt (REFF)	Removal Fraction for Overland Flow (REMOVE)	First-Order Decay Coefficient for Pollutant (QDECAY)
SED_SML (STREET1)	mg/L	0, mg/L	1, Power-linear	0, Power-exponential	1, fx of area	0, No	200	1	3.73	0.99	0.87	0	0	0.46	0	0
SED_SML (STREET2)	mg/L	0, mg/L	1, Power-linear	0, Power-exponential	1, fx of area	0, No	200	1	6.39	0.99	0.87	0	0	0.14	0	0
SED_SML (STREET3)	mg/L	0, mg/L	1, Power-linear	0, Power-exponential	1, fx of area	0, No	200	1	21.44	0.99	0.87	0	0	0.92	0	0
SED_SML (STREET4)	mg/L	0, mg/L	1, Power-linear	0, Power-exponential	1, fx of area	0, No	200	1	94.82	0.99	0.87	0	0	0.86	0	0
SED_SML (Parking)	mg/L	0, mg/L	1, Power-linear	0, Power-exponential	1, fx of area	0, No	200	1	6.39	0.99	0.87	0	0	0.14	0	0
SED_SML (dummy)	mg/L	0, mg/L	1, Power-linear	0, Power-exponential	1, fx of area	0, No	0.1	1	0.01	0.99	0.87	0	0	0.14	0	0
SED_MED (STREET1)	mg/L	0, mg/L	1, Power-linear	0, Power-exponential	1, fx of area	0, No	200	1	5.98	2.48	0.99	0	0	0.67	0	0
SED_MED (STREET1)	mg/L	0, mg/L	1, Power-linear	0, Power-exponential	1, fx of area	0, No	200	1	1.59	2.48	0.99	0	0	1	0	0
SED_MED (STREET1)	mg/L	0, mg/L	1, Power-linear	0, Power-exponential	1, fx of area	0, No	200	1	7.7	2.48	0.99	0	0	1	0	0
SED_MED (STREET1)	mg/L	0, mg/L	1, Power-linear	0, Power-exponential	1, fx of area	0, No	200	1	20.89	2.48	0.99	0	0	0.9	0	0
SED_MED (Parking)	mg/L	0, mg/L	1, Power-linear	0, Power-exponential	1, fx of area	0, No	200	1	1.59	2.48	0.99	0	0	1	0	0
SED_MED (dummy)	mg/L	0, mg/L	1, Power-linear	0, Power-exponential	1, fx of area	0, No	0.1	1	0.01	2.48	0.99	0	0	1	0	0
SED_LRG (STREET1)	mg/L	0, mg/L	1, Power-linear	0, Power-exponential	1, fx of area	0, No	200	1	2.41	3.16	4.3	0	0	0.89	0	0
SED_LRG (STREET2)	mg/L	0, mg/L	1, Power-linear	0, Power-exponential	1, fx of area	0, No	200	1	0.05	3.16	4.3	0	0	0.93	0	0
SED_LRG (STREET3)	mg/L	0, mg/L	1, Power-linear	0, Power-exponential	1, fx of area	0, No	200	1	8.1	3.16	4.3	0	0	1	0	0
SED_LRG (STREET4)	mg/L	0, mg/L	1, Power-linear	0, Power-exponential	1, fx of area	0, No	200	1	27.5	3.16	4.3	0	0	0.93	0	0
SED_LRG (Parking)	mg/L	0, mg/L	1, Power-linear	0, Power-exponential	1, fx of area	0, No	200	1	0.05	3.16	4.3	0	0	0.93	0	0
SED_LRG (dummy)	mg/L	0, mg/L	1, Power-linear	0, Power-exponential	1, fx of area	0, No	0.1	1	0.01	3.16	4.3	0	0	0.93	0	0

Key:
mg/L – milligram per liter

Table 10

SEASONAL VARIATION

Scenarios	1	2	3
Time	Current	Pre-development	Pre-development
Season	Winter-Summer	Summer	Winter
Duration	1 year	6 months	6 months
Dates (1965)	April 1 - March 31	April 1 - October 15	October 16 - March 31

Modeling Summary

The modeling summary presented in this section provides key data characteristics important for understanding critical system elements within each watershed.

Modeling Overview

Portions of Chester Creek and Rabbit Creek watersheds are located as shown in Figures 2 through 5. These sites were chosen to represent dominantly piped and dominantly ditched systems of storm water conveyance and to understand the hydrologic and pollutant variation between highly and moderately developed areas. Appendix C contains an example input file used for SWMM modeling. Table 11 shows the watersheds, subwatersheds and total number of drainages modeled. A total of 194 drainages was modeled for pre- and post-development, and winter and summer conditions. A total of 776 model runs was conducted.

Table 11

DRAINAGES MODELED

	Outfall Basin	Natural Basin	Total Number of Drainages
Chester Creek			
North	6	0	6
Middle	14	6	20
South	70	13	83
Main	35	16	51
Rabbit Creek	33	1	34
Total	158	36	194

The modeling results for each drainage are presented in Appendix D. Summary graphics in Figures 6 and 7 illustrate differences between pre- and post-urban development.

Modeling results on Figure 6 show the following trends:

- An increase in total runoff volume from pre-development to post-development conditions
- A decrease in groundwater infiltration from pre-development to post-development conditions
- Drainages with higher percentages of impervious surface cover produce more runoff

- Smaller sediment sizes are mobilized more readily than larger sediments in runoff events
- Development, including construction of increased impervious surfaces, dramatically decreases infiltration in a developed area.

Sediment mobilization in the model reflected two important points:

- Pre-development was not modeled for sediment mobilization because there were no pollutant generating surfaces within the sub-drainage areas.
- Sediment mobilization from ditched areas may be biased high due to the nature of how the model transports pollutants through subcatchments without sediment decay in ditches.

Hydrographs on Figure 7 show that runoff is near zero for pre-developed conditions for the average year, except for spring runoff. Post-development conditions show significant increases in surface runoff.

Figure 2 Modeled Drainages of Chester Creek

Figure 2: Modeled Drainages of Chester Creek



North Fork
Chester Creek

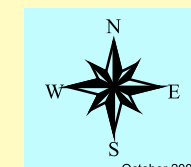
Middle Fork
Chester Creek

Main Chester
Creek

South Fork
Chester Creek

Note: Delineations represent data provided
by GeoNorth on Aug. 15, 2001

2000 0 2000 4000 6000 8000 10000 12000 Feet



October 2001



Figure 3 Modeled Drainages of North, Middle, and South Chester Creek

Figure 3: Modeled Drainages of North, Middle, and South Chester Creek

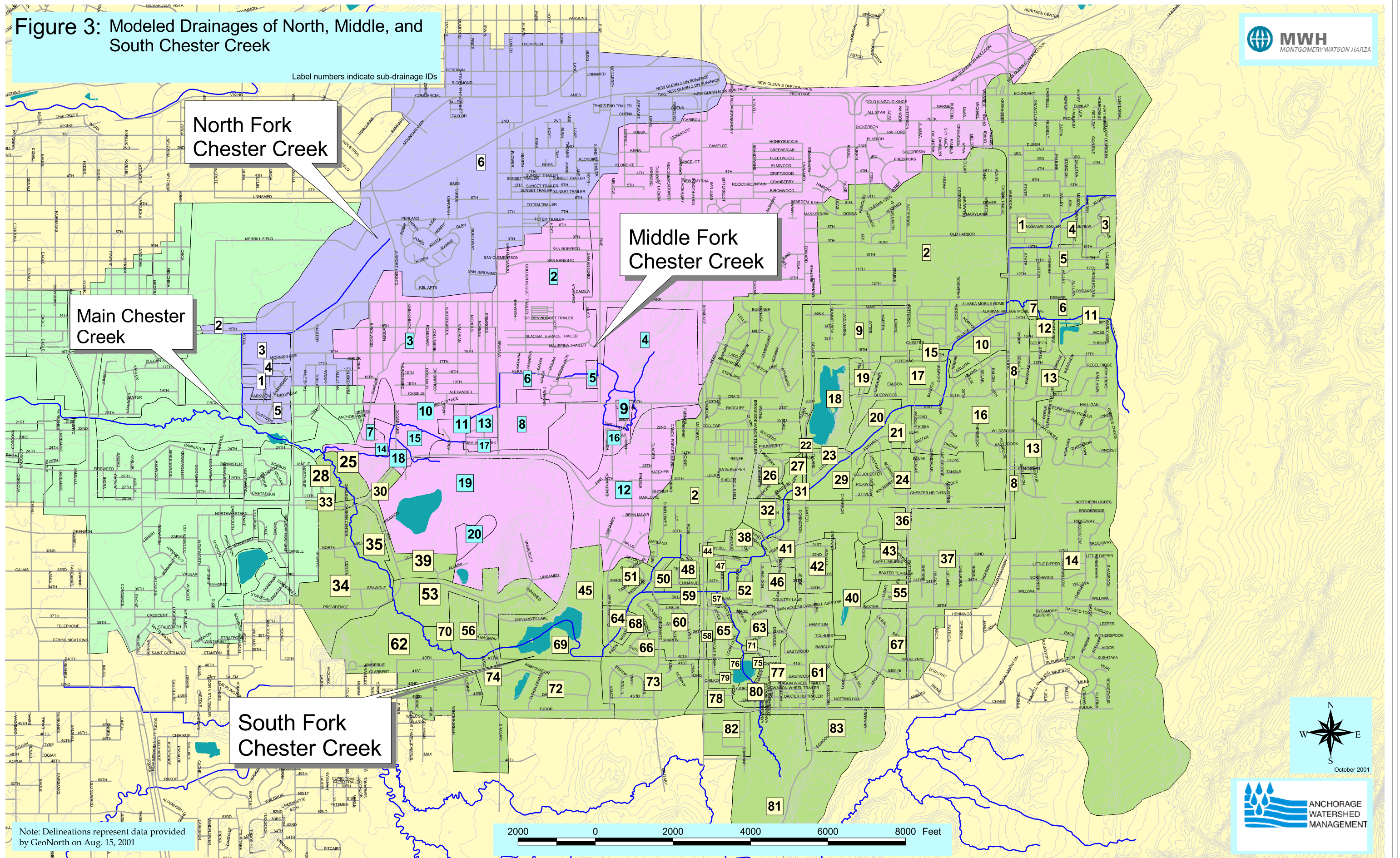
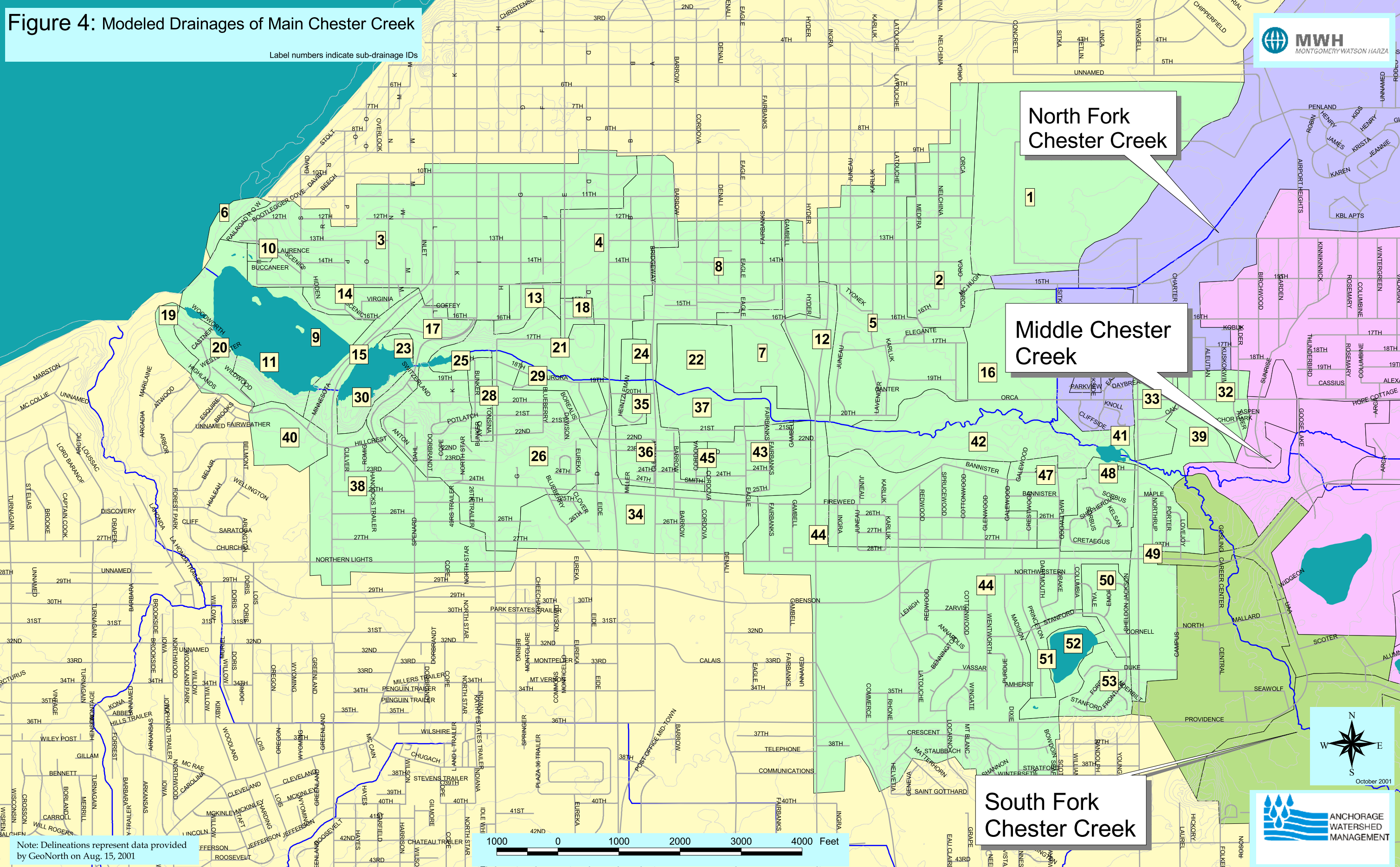


Figure 4 Modeled Drainages of Main Chester Creek

Figure 4: Modeled Drainages of Main Chester Creek

Label numbers indicate sub-drainage IDs



North Fork
Chester Creek

Middle Chester
Creek

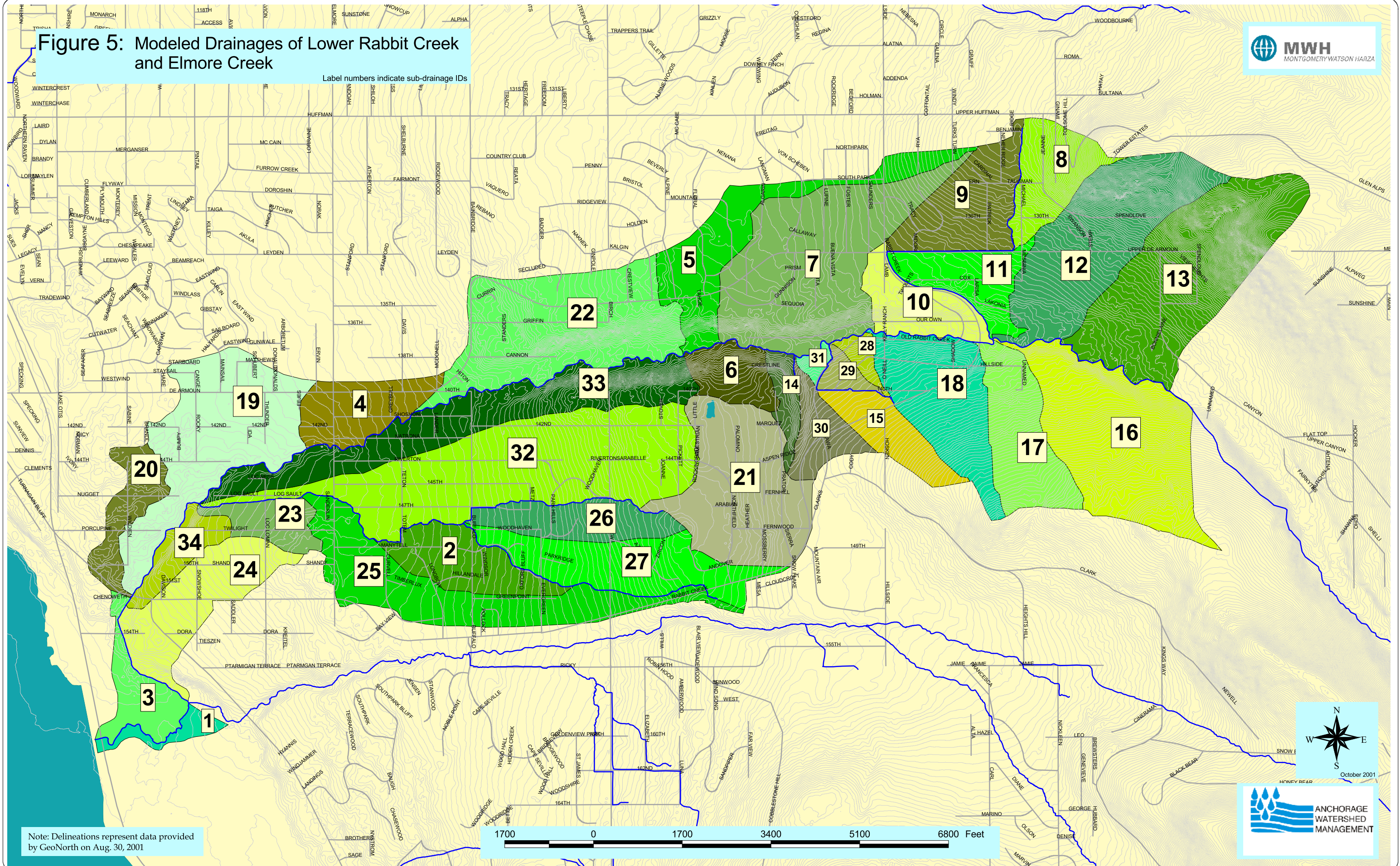
South Fork
Chester Creek



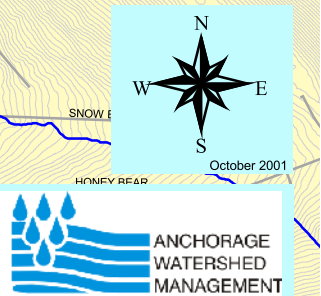
Figure 5 Modeled Drainages of Lower Rabbit Creek and Elmore Creek

Figure 5: Modeled Drainages of Lower Rabbit Creek and Elmore Creek

Label numbers indicate sub-drainage IDs



Note: Delineations represent data provided by GeoNorth on Aug. 30, 2001



October 2001

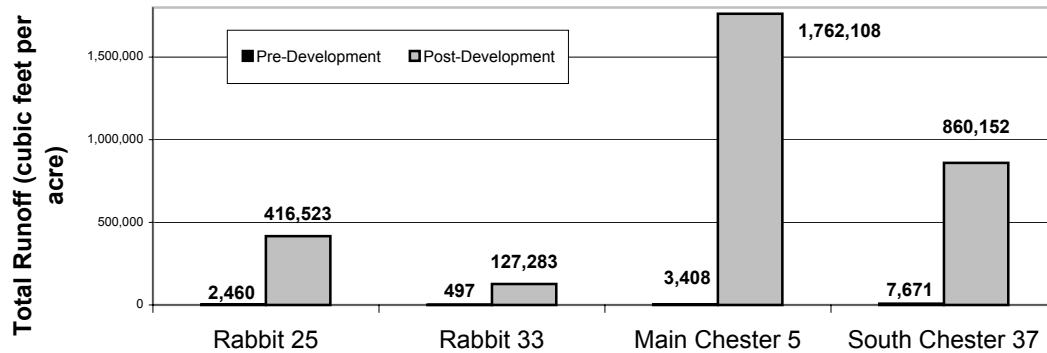
Figure 6 Model Comparisons Between Pre-Development and Post-Development

Figure 6. Model Comparison Between Pre-Development and Post-Development

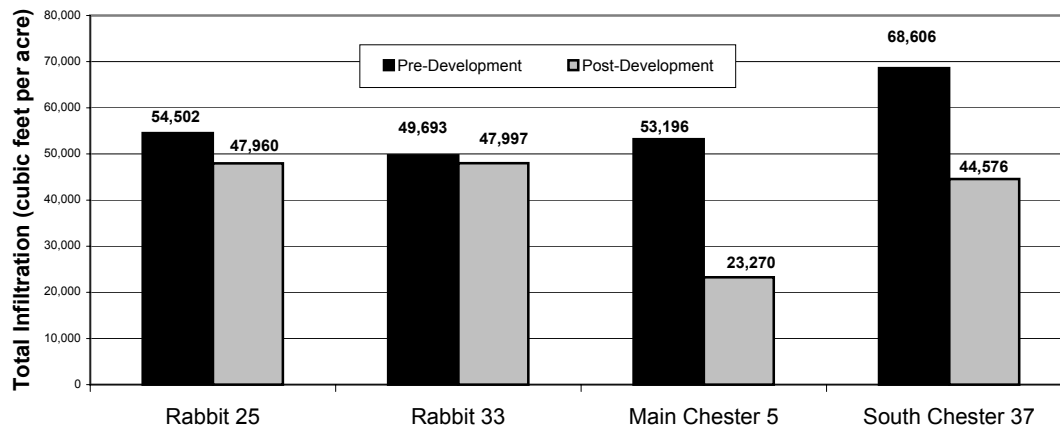
This figure compares the total runoff, infiltration, and sediment mass of two drainages within each of the Rabbit Creek and Chester Creek watersheds. The drainages within each watershed were selected to compare values for drainages of similar size, but contrasting values of impervious surface coverage.

Basin ID	Area (acres)	Impervious %
Rabbit 25	135	12%
Rabbit 33	151	4%
Main Chester 5	135	54%
South Chester 37	141	21%

Cumulative Annual Runoff Volume Pre-Development to Post-Development



Annual Infiltration Pre-Development and Post-Development (Normalized by Basin Area)



Total Sediment in Annual Runoff (Post-Development)

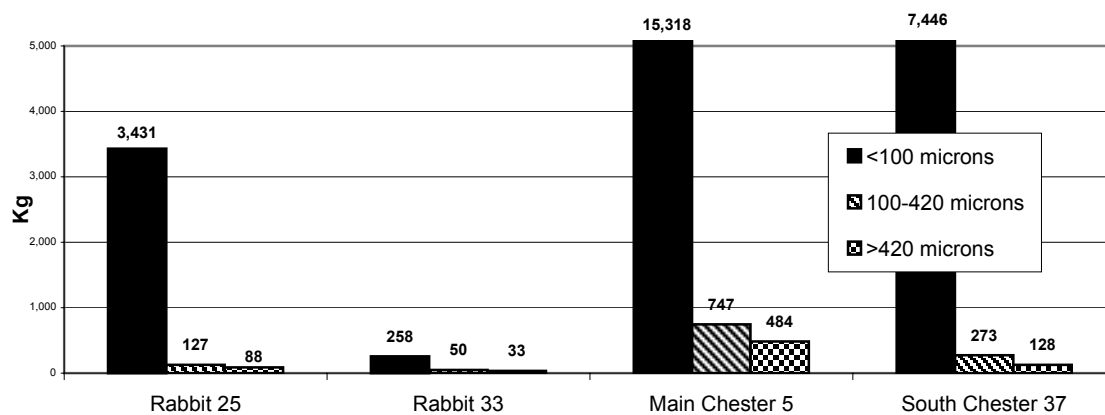
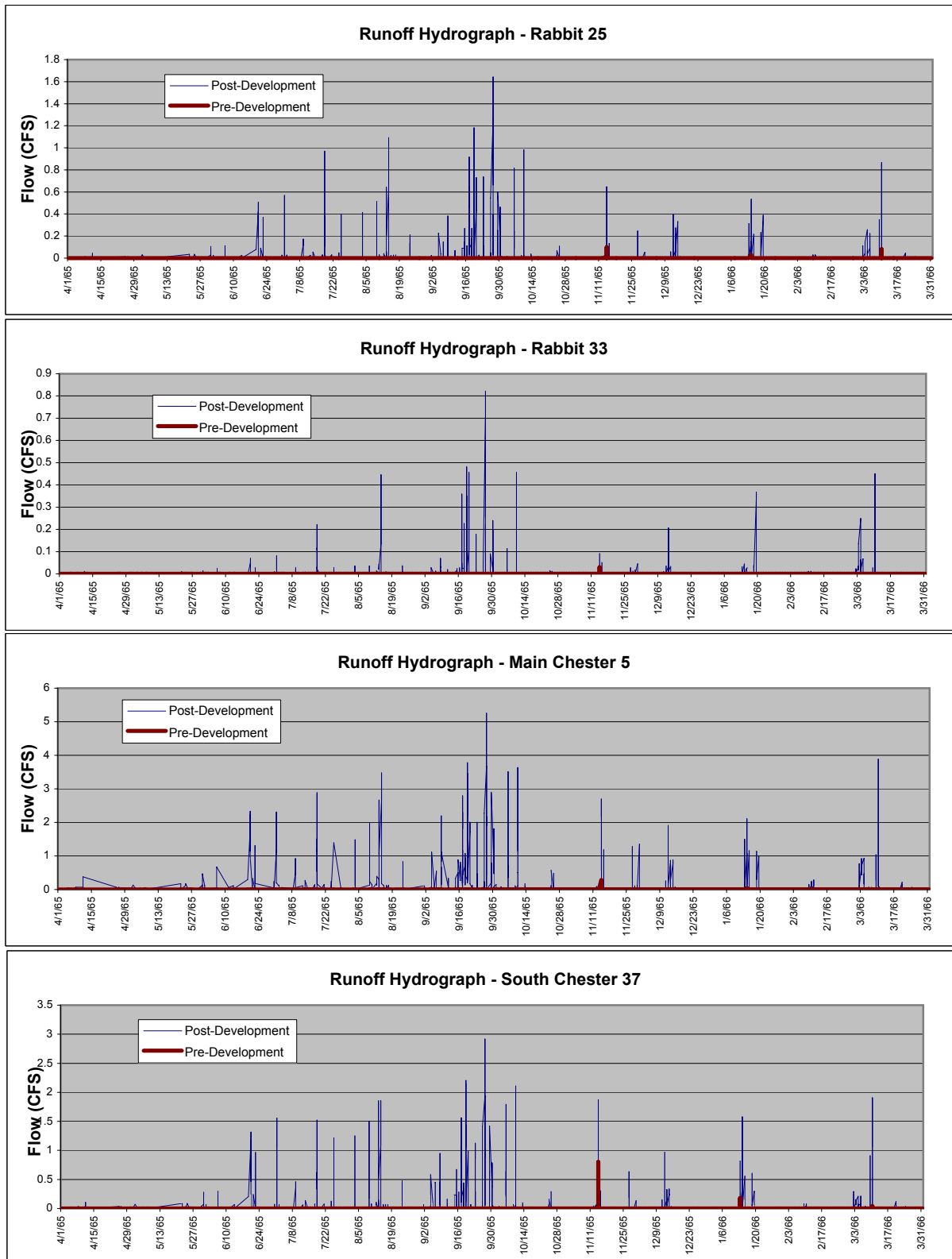


Figure 7 Hydrograph Comparisons Between Pre-Development and Post-Development

Figure 7. Hydrograph Comparison between Pre-Development and Post-Development



All model runs utilized temperature and rainfall data from 1965.

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Appendix A

Drainage Input Data Tables

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 1

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	43	43	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	6.9	8313	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	2.0	31.1	2716	499	0	0
600	DCI	1.4	106.8	3458	1345	0	0
700	BARREN	1.7	63.1	3109	884	0	0
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	2.5	12.8	3732	149	0	0
900	ICI	2.2	0.7	377	82	0	0
9999	BASIN	0.0	221.9	0	0	120	0

Average Basin Elevation:	120
Basin Area (ac.):	221.9
Effective Modeling Area (ac.):	221.3
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.02

Road Type Summary		as % of total roads
TYPE 1 (36ft)	7823	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
------------------	------

Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 1

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.0	88.8	2056	1881	0	0
825	UPLAND	1.7	133.2	2408	2408	0	0
9999	BASIN	0	221.9	0	0		

Average Basin Elevation:	120
Basin Area (ac.):	221.9
Effective Modeling Area (ac.):	221.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
------------------	------

Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 2

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	2.5	332	332	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	5.9	0.7	179	179	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	16.0	19306	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	1.6	5.0	1309	167	0	0
600	DCI	2.3	23.8	7579	137	0	0
700	BARREN	2.5	11.8	4974	104	0	0
825	UPLAND	2.6	1.4	565	111	0	0
875	LANDSCAPED	2.3	18.5	4835	167	0	0
900	ICI	2.6	0.8	837	42	0	0
9999	BASIN	0.0	81.1	0	0	110	0

Average Basin Elevation:	110
Basin Area (ac.):	81.1
Effective Modeling Area (ac.):	78.1
Basin Area Not Modeled (ac.):	2.5
Basin % Not Modeled:	3.12

Road Type Summary		as % of total roads
TYPE 1 (36ft)	14081	79%
TYPE 2 (50 ft)	744	6%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	1408	16%

Rainfall Factor:	1.00
------------------	------

Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 2

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	5.8	1.5	326	206	0	0
825	UPLAND	2.2	79.6	1862	1862	0	0
9999	BASIN	0	81.1	0	0		

Average Basin Elevation:	110
Basin Area (ac.):	81.1
Effective Modeling Area (ac.):	81.1
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
------------------	------

Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 3

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	7.5	571	571	0	0
100	WATER	3.0	0.2	107	61	0	0
200	WETLAND	3.1	0.0	53	35	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	48.7	53073	40	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	2.2	2.9	643	198	0	0
600	DCI	2.8	46.9	27907	73	0	0
700	BARREN	2.6	32.3	19436	72	0	0
825	UPLAND	2.7	13.8	3253	184	0	0
875	LANDSCAPED	3.5	79.9	16165	215	0	0
900	ICI	2.7	2.6	2756	41	0	0
9999	BASIN	0.0	236.0	0	0	79	0

Average Basin Elevation:	79
Basin Area (ac.):	236.0
Effective Modeling Area (ac.):	227.3
Basin Area Not Modeled (ac.):	7.6
Basin % Not Modeled:	3.23

Road Type Summary		as % of total roads
TYPE 1 (36ft)	37319	65%
TYPE 2 (50 ft)	4146	10%
TYPE 3 (60 ft)	5728	17%
TYPE 4 (72 ft)	2184	8%

Rainfall Factor:	1.00
------------------	------

Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 3

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.7	4.8	487	431	0	0
825	UPLAND	3.1	231.2	3173	3173	0	0
9999	BASIN	0	236.0	0	0		

Average Basin Elevation:	79
Basin Area (ac.):	236.0
Effective Modeling Area (ac.):	236.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
------------------	------

Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 4

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	2.3	315	315	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	2.9	0.3	117	117	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	19.3	19138	44	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	3.4	5.8	1290	197	0	0
600	DCI	2.7	20.1	5808	150	0	0
700	BARREN	2.6	11.8	6845	75	0	0
825	UPLAND	3.6	10.7	2881	162	0	0
875	LANDSCAPED	2.9	14.2	4730	131	0	0
900	ICI	2.3	0.8	739	47	0	0
9999	BASIN	0.0	85.2	0	0	76	0

Average Basin Elevation:	76
Basin Area (ac.):	85.2
Effective Modeling Area (ac.):	83.0
Basin Area Not Modeled (ac.):	2.3
Basin % Not Modeled:	2.67

Road Type Summary		as % of total roads
TYPE 1 (36ft)	7970	36%
TYPE 2 (50 ft)	2632	16%
TYPE 3 (60 ft)	2754	21%
TYPE 4 (72 ft)	3052	27%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 4

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	5.0	14.6	797	797	0	0
825	UPLAND	2.6	70.6	1754	1754	0	0
9999	BASIN	0	85.2	0	0		

Average Basin Elevation:	76
Basin Area (ac.):	85.2
Effective Modeling Area (ac.):	85.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 5

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	7.8	582	582	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	1.9	0.7	223	145	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	26.0	29812	38	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	1.7	3.5	1255	123	0	0
600	DCI	2.3	39.0	13385	127	0	0
700	BARREN	2.5	22.3	15152	64	0	0
825	UPLAND	4.1	4.9	1321	163	0	0
875	LANDSCAPED	2.9	34.6	7324	206	0	0
900	ICI	2.5	3.9	1482	113	0	0
9999	BASIN	0.0	143.3	0	0	87	0

Average Basin Elevation:	87
Basin Area (ac.):	143.3
Effective Modeling Area (ac.):	135.0
Basin Area Not Modeled (ac.):	7.8
Basin % Not Modeled:	5.43

Road Type Summary		as % of total roads
TYPE 1 (36ft)	19883	67%
TYPE 2 (50 ft)	3709	17%
TYPE 3 (60 ft)	1236	7%
TYPE 4 (72 ft)	1243	8%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 5

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.9	62.8	1654	1654	0	0
825	UPLAND	2.2	80.5	1873	1873	0	0
9999	BASIN	0	143.3	0	0		

Average Basin Elevation:	87
Basin Area (ac.):	143.3
Effective Modeling Area (ac.):	143.3
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 6

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.6	166	166	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	3.6	4.5	443	443	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	11.5	0.1	253	21	0	0
700	BARREN	6.2	0.1	130	30	0	0
825	UPLAND	9.5	0.3	121	121	0	0
875	LANDSCAPED	10.5	1.4	257	241	0	0
900	ICI	9.0	0.3	182	63	0	0
9999	BASIN	0.0	7.4	0	0	17	0

Average Basin Elevation:	17
Basin Area (ac.):	7.4
Effective Modeling Area (ac.):	6.7
Basin Area Not Modeled (ac.):	0.6
Basin % Not Modeled:	8.59

Road Type Summary		as % of total roads
TYPE 1 (36ft)	0	#DIV/0!
TYPE 2 (50 ft)	0	#DIV/0!
TYPE 3 (60 ft)	0	#DIV/0!
TYPE 4 (72 ft)	0	#DIV/0!

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 6

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.6	1.7	271	271	0	0
825	UPLAND	7.5	5.7	499	499	0	0
9999	BASIN	0	7.4	0	0		

Average Basin Elevation:	17
Basin Area (ac.):	7.4
Effective Modeling Area (ac.):	7.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 7

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.0	205	205	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	6.1	5376	49	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	2.4	11.8	1657	311	0	0
600	DCI	2.3	26.8	2254	517	0	0
700	BARREN	3.6	3.3	2368	61	0	0
825	UPLAND	4.3	0.6	411	63	0	0
875	LANDSCAPED	3.5	4.5	1170	167	0	0
900	ICI	3.1	0.5	466	45	0	0
9999	BASIN	0.0	54.4	0	0	69	0

Average Basin Elevation:	69
Basin Area (ac.):	54.4
Effective Modeling Area (ac.):	53.5
Basin Area Not Modeled (ac.):	1.0
Basin % Not Modeled:	1.78

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1395	17%
TYPE 2 (50 ft)	1786	31%
TYPE 3 (60 ft)	1042	22%
TYPE 4 (72 ft)	1183	30%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 7

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.6	34.4	1305	1147	0	0
825	UPLAND	3.3	20.0	934	934	0	0
9999	BASIN	0	54.4	0	0		

Average Basin Elevation:	69
Basin Area (ac.):	54.4
Effective Modeling Area (ac.):	54.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 8

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	2.1	303	303	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	1.9	0.5	148	148	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	17.0	17593	42	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	2.0	7.6	1557	213	0	0
600	DCI	3.5	20.2	8453	104	0	0
700	BARREN	3.4	11.2	4044	121	0	0
825	UPLAND	4.3	9.5	2739	151	0	0
875	LANDSCAPED	5.0	10.4	3873	117	0	0
900	ICI	3.5	0.7	707	46	0	0
9999	BASIN	0.0	79.4	0	0	85	0

Average Basin Elevation:	85
Basin Area (ac.):	79.4
Effective Modeling Area (ac.):	77.1
Basin Area Not Modeled (ac.):	2.1
Basin % Not Modeled:	2.65

Road Type Summary		as % of total roads
TYPE 1 (36ft)	9333	45%
TYPE 2 (50 ft)	2225	15%
TYPE 3 (60 ft)	601	5%
TYPE 4 (72 ft)	3694	35%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 8

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	5.0	17.1	862	862	0	0
825	UPLAND	3.5	62.4	1648	1648	0	0
9999	BASIN	0	79.4	0	0		

Average Basin Elevation:	85
Basin Area (ac.):	79.4
Effective Modeling Area (ac.):	79.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 9

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.9	199	199	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	7.0	1.4	343	180	168	195
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.4	451	40	177	370
475	DIRT	0.1	1.2	1271	42	173	188
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.6	0.7	817	35	176	178
700	BARREN	2.5	0.1	151	26	174	179
825	UPLAND	4.7	0.4	210	79	175	191
875	LANDSCAPED	3.1	1.1	575	82	172	190
900	ICI	3.2	0.2	173	49	172	185
9999	BASIN	0.0	6.3	0	0	179	0

Average Basin Elevation:	179
Basin Area (ac.):	6.3
Effective Modeling Area (ac.):	5.5
Basin Area Not Modeled (ac.):	0.9
Basin % Not Modeled:	14.37

Road Type Summary		as % of total roads
TYPE 1 (36ft)	988	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 9

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.0	45.2	1409	1398	0	0
825	UPLAND	3.6	3.5	478	321	0	0
9999	BASIN	0	48.7	0	0		

Average Basin Elevation:	14
Basin Area (ac.):	48.7
Effective Modeling Area (ac.):	48.7
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 10

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	23	23	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	3.9	0.2	98	98	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.3	325	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	4.9	0.3	391	37	0	0
700	BARREN	5.3	0.1	110	56	0	0
825	UPLAND	4.5	0.7	169	169	0	0
875	LANDSCAPED	6.0	0.5	192	122	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	2.2	0	0	22	0

Average Basin Elevation:	22
Basin Area (ac.):	2.2
Effective Modeling Area (ac.):	2.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.54

Road Type Summary		as % of total roads
TYPE 1 (36ft)	290	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 10

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.5	0.3	115	115	0	0
825	UPLAND	5.2	1.9	289	289	0	0
9999	BASIN	0	2.2	0	0		

Average Basin Elevation:	22
Basin Area (ac.):	2.2
Effective Modeling Area (ac.):	2.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 11

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.5	144	144	0	0
100	WATER	18.2	24.3	1028	1028	0	0
200	WETLAND	3.4	4.8	473	444	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	4.3	0.8	310	111	0	0
700	BARREN	2.2	0.6	266	102	0	0
825	UPLAND	22.3	10.0	666	653	0	0
875	LANDSCAPED	4.8	1.4	353	172	0	0
900	ICI	2.0	0.6	258	107	0	0
9999	BASIN	0.0	43.0	0	0	25	0

Average Basin Elevation:	25
Basin Area (ac.):	43.0
Effective Modeling Area (ac.):	18.2
Basin Area Not Modeled (ac.):	24.7
Basin % Not Modeled:	57.47

Road Type Summary		as % of total roads
TYPE 1 (36ft)	898	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 11

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.2	34.0	1217	1217	0	0
825	UPLAND	20.4	9.0	627	627	0	0
9999	BASIN	0	43.0	0	0		

Average Basin Elevation:	25
Basin Area (ac.):	43.0
Effective Modeling Area (ac.):	43.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 12

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.2	103	103	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	8.3	6676	54	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	3.0	6.3	699	396	0	0
600	DCI	0.9	3.1	753	178	0	0
700	BARREN	3.4	0.9	1009	37	0	0
825	UPLAND	6.0	0.4	235	66	0	0
875	LANDSCAPED	3.2	5.7	762	327	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	24.9	0	0	65	0

Average Basin Elevation:	65
Basin Area (ac.):	24.9
Effective Modeling Area (ac.):	24.6
Basin Area Not Modeled (ac.):	0.2
Basin % Not Modeled:	0.97

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1012	11%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	77	1%
TYPE 4 (72 ft)	3882	87%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 12

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.9	21.7	971	971	0	0
825	UPLAND	4.2	3.2	378	373	0	0
9999	BASIN	0	24.9	0	0		

Average Basin Elevation:	65
Basin Area (ac.):	24.9
Effective Modeling Area (ac.):	24.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 13

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.5	142	142	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.1	2061	44	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	4.3	1.9	1740	47	0	0
700	BARREN	4.9	1.4	1461	43	0	0
825	UPLAND	10.3	0.6	190	148	0	0
875	LANDSCAPED	6.5	5.3	1151	202	0	0
900	ICI	4.2	0.4	374	42	0	0
9999	BASIN	0.0	12.2	0	0	81	0

Average Basin Elevation:	81
Basin Area (ac.):	12.2
Effective Modeling Area (ac.):	11.8
Basin Area Not Modeled (ac.):	0.5
Basin % Not Modeled:	3.78

Road Type Summary		as % of total roads
TYPE 1 (36ft)	967	38%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	805	62%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 13

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	5.0	0.0	44	44	0	0
825	UPLAND	5.5	12.2	729	729	0	0
9999	BASIN	0	12.2	0	0		

Average Basin Elevation:	81
Basin Area (ac.):	12.2
Effective Modeling Area (ac.):	12.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 14

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.0	211	211	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.5	3084	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	3.4	2.7	2889	41	0	0
700	BARREN	2.9	1.6	1615	42	0	0
825	UPLAND	5.3	0.3	179	73	0	0
875	LANDSCAPED	2.9	7.8	1426	238	0	0
900	ICI	3.6	0.1	141	24	0	0
9999	BASIN	0.0	16.0	0	0	29	0

Average Basin Elevation:	29
Basin Area (ac.):	16.0
Effective Modeling Area (ac.):	15.0
Basin Area Not Modeled (ac.):	1.0
Basin % Not Modeled:	6.36

Road Type Summary		as % of total roads
TYPE 1 (36ft)	2768	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 14

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.9	3.5	389	389	0	0
825	UPLAND	3.2	12.5	739	739	0	0
9999	BASIN	0	16.0	0	0		

Average Basin Elevation:	29
Basin Area (ac.):	16.0
Effective Modeling Area (ac.):	16.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 15

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.1	66	66	0	0
100	WATER	7.1	1.5	506	133	0	0
200	WETLAND	5.4	0.8	251	130	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	5.6	3943	62	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.3	0.1	178	36	0	0
700	BARREN	4.9	1.4	1116	56	0	0
825	UPLAND	1.8	0.6	188	134	0	0
875	LANDSCAPED	7.8	4.8	1014	208	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	15.0	0	0	27	0

Average Basin Elevation:	27
Basin Area (ac.):	15.0
Effective Modeling Area (ac.):	13.3
Basin Area Not Modeled (ac.):	1.6
Basin % Not Modeled:	10.95

Road Type Summary		as % of total roads
TYPE 1 (36ft)	2290	31%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	2565	69%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 15

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	5.4	13.0	753	753	0	0
825	UPLAND	7.1	2.0	293	293	0	0
9999	BASIN	0	15.0	0	0		

Average Basin Elevation:	27
Basin Area (ac.):	15.0
Effective Modeling Area (ac.):	15.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 16

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.6	160	160	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	2.8	60.2	1619	1619	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.3	287	46	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	5.2	1.0	825	53	0	0
700	BARREN	4.1	2.3	1541	65	0	0
825	UPLAND	2.5	4.9	473	453	0	0
875	LANDSCAPED	3.8	15.8	1557	441	0	0
900	ICI	3.1	0.5	276	82	0	0
9999	BASIN	0.0	85.8	0	0	78	0

Average Basin Elevation:	78
Basin Area (ac.):	85.8
Effective Modeling Area (ac.):	85.0
Basin Area Not Modeled (ac.):	0.6
Basin % Not Modeled:	0.69

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1462	99%
TYPE 2 (50 ft)	15	1%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 16

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.0	85.2	1926	1926	0	0
825	UPLAND	7.3	0.6	231	116	0	0
9999	BASIN	0	85.8	0	0		

Average Basin Elevation:	78
Basin Area (ac.):	85.8
Effective Modeling Area (ac.):	85.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 17

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.3	107	107	0	0
100	WATER	6.9	0.2	92	77	0	0
200	WETLAND	5.4	0.1	83	54	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	4.3	3541	53	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	7.9	1.0	863	48	0	0
700	BARREN	15.6	1.7	716	102	0	0
825	UPLAND	10.9	1.3	350	161	0	0
875	LANDSCAPED	10.5	8.0	991	350	0	0
900	ICI	7.4	0.1	113	37	0	0
9999	BASIN	0.0	16.8	0	0	56	0

Average Basin Elevation:	56
Basin Area (ac.):	16.8
Effective Modeling Area (ac.):	16.4
Basin Area Not Modeled (ac.):	0.4
Basin % Not Modeled:	2.52

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1251	23%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	799	24%
TYPE 4 (72 ft)	1477	53%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 17

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	10.5	9.5	643	643	0	0
825	UPLAND	10.7	7.3	565	565	0	0
9999	BASIN	0	16.8	0	0		

Average Basin Elevation:	56
Basin Area (ac.):	16.8
Effective Modeling Area (ac.):	16.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 18

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.2	99	99	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.7	1873	40	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	6.7	0.2	88	88	0	0
600	DCI	6.8	0.7	704	41	0	0
700	BARREN	5.3	0.6	694	36	0	0
825	UPLAND	8.8	1.2	311	163	0	0
875	LANDSCAPED	6.7	1.8	652	117	0	0
900	ICI	3.7	0.0	29	29	0	0
9999	BASIN	0.0	6.3	0	0	59	0

Average Basin Elevation:	59
Basin Area (ac.):	6.3
Effective Modeling Area (ac.):	6.1
Basin Area Not Modeled (ac.):	0.2
Basin % Not Modeled:	3.60

Road Type Summary		as % of total roads
TYPE 1 (36ft)	873	46%
TYPE 2 (50 ft)	738	54%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 18

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	8.1	3.4	385	385	0	0
825	UPLAND	5.6	2.9	354	354	0	0
9999	BASIN	0	6.3	0	0		

Average Basin Elevation:	59
Basin Area (ac.):	6.3
Effective Modeling Area (ac.):	6.3
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 19

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.4	139	139	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	5.6	0.2	370	20	0	0
700	BARREN	0.0	0.0	0	0	0	0
825	UPLAND	5.2	7.1	554	554	0	0
875	LANDSCAPED	4.7	0.1	123	46	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	7.9	0	0	46	0

Average Basin Elevation:	46
Basin Area (ac.):	7.9
Effective Modeling Area (ac.):	7.4
Basin Area Not Modeled (ac.):	0.4
Basin % Not Modeled:	5.61

Road Type Summary		as % of total roads
TYPE 1 (36ft)	0	#DIV/0!
TYPE 2 (50 ft)	0	#DIV/0!
TYPE 3 (60 ft)	0	#DIV/0!
TYPE 4 (72 ft)	0	#DIV/0!

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 19

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	5.9	0.5	148	148	0	0
825	UPLAND	5.2	7.4	567	567	0	0
9999	BASIN	0	7.9	0	0		

Average Basin Elevation:	46
Basin Area (ac.):	7.9
Effective Modeling Area (ac.):	7.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 20

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.9	203	203	0	0
100	WATER	6.0	1.1	224	218	0	0
200	WETLAND	9.8	0.5	143	143	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.2	1426	36	0	0
475	DIRT	0.1	2.3	2817	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	10.7	1.8	1954	40	0	0
700	BARREN	6.4	4.3	996	189	0	0
825	UPLAND	11.6	4.5	791	247	0	0
875	LANDSCAPED	8.6	5.1	1151	194	0	0
900	ICI	6.2	0.6	827	34	0	0
9999	BASIN	0.0	22.7	0	0	59	0

Average Basin Elevation:	59
Basin Area (ac.):	22.7
Effective Modeling Area (ac.):	20.3
Basin Area Not Modeled (ac.):	2.1
Basin % Not Modeled:	9.13

Road Type Summary		as % of total roads
TYPE 1 (36ft)	3848	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 20

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	12.1	3.4	383	383	0	0
825	UPLAND	7.5	19.3	917	917	0	0
9999	BASIN	0	22.7	0	0		

Average Basin Elevation:	59
Basin Area (ac.):	22.7
Effective Modeling Area (ac.):	22.7
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 21

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.5	150	150	0	0
100	WATER	6.9	0.4	249	64	0	0
200	WETLAND	4.9	2.8	456	266	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.8	1639	48	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	7.0	0.9	746	51	0	0
700	BARREN	14.0	2.5	942	114	0	0
825	UPLAND	4.4	14.3	933	669	0	0
875	LANDSCAPED	10.5	14.1	1534	402	0	0
900	ICI	11.4	0.2	207	37	0	0
9999	BASIN	0.0	37.5	0	0	47	0

Average Basin Elevation:	47
Basin Area (ac.):	37.5
Effective Modeling Area (ac.):	36.6
Basin Area Not Modeled (ac.):	0.9
Basin % Not Modeled:	2.34

Road Type Summary		as % of total roads
TYPE 1 (36ft)	228	12%
TYPE 2 (50 ft)	1235	88%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 21

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	6.8	30.8	1158	1158	0	0
825	UPLAND	12.6	6.8	543	543	0	0
9999	BASIN	0	37.5	0	0		

Average Basin Elevation:	47
Basin Area (ac.):	37.5
Effective Modeling Area (ac.):	37.5
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 22

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.4	128	128	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	1.4	0.1	80	80	0	0
600	DCI	2.3	5.9	1123	230	0	0
700	BARREN	2.0	7.2	1902	166	0	0
825	UPLAND	2.2	16.1	1270	552	0	0
875	LANDSCAPED	2.7	6.0	562	465	0	0
900	ICI	1.3	1.3	520	108	0	0
9999	BASIN	0.0	37.2	0	0	45	0

Average Basin Elevation:	45
Basin Area (ac.):	37.2
Effective Modeling Area (ac.):	36.7
Basin Area Not Modeled (ac.):	0.4
Basin % Not Modeled:	1.01

Road Type Summary	as % of total roads	
TYPE 1 (36ft)	0	#DIV/0!
TYPE 2 (50 ft)	0	#DIV/0!
TYPE 3 (60 ft)	0	#DIV/0!
TYPE 4 (72 ft)	0	#DIV/0!

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 22

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.3	37.2	1272	1272	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	37.2	0	0		

Average Basin Elevation:	45
Basin Area (ac.):	37.2
Effective Modeling Area (ac.):	37.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 23

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	26	26	0	0
100	WATER	2.7	7.7	579	579	0	0
200	WETLAND	2.7	0.3	105	105	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	15.3	0.1	117	31	0	0
700	BARREN	6.0	0.3	114	114	0	0
825	UPLAND	4.9	2.4	321	321	0	0
875	LANDSCAPED	0.0	0.0	0	0	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	10.7	0	0	16	0

Average Basin Elevation:	16
Basin Area (ac.):	10.7
Effective Modeling Area (ac.):	3.0
Basin Area Not Modeled (ac.):	7.7
Basin % Not Modeled:	72.24

Road Type Summary	as % of total roads	
TYPE 1 (36ft)	0	#DIV/0!
TYPE 2 (50 ft)	0	#DIV/0!
TYPE 3 (60 ft)	0	#DIV/0!
TYPE 4 (72 ft)	0	#DIV/0!

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 23

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.2	10.7	682	682	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	10.7	0	0		

Average Basin Elevation:	16
Basin Area (ac.):	10.7
Effective Modeling Area (ac.):	10.7
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 24

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	26	26	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	2.4	3.9	411	411	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	1.2	0.4	158	99	0	0
600	DCI	0.0	0.1	91	57	0	0
700	BARREN	0.7	0.0	23	23	0	0
825	UPLAND	2.2	1.9	362	225	0	0
875	LANDSCAPED	0.0	0.0	0	0	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	6.2	0	0	42	0

Average Basin Elevation:	42
Basin Area (ac.):	6.2
Effective Modeling Area (ac.):	6.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.26

Road Type Summary		as % of total roads
TYPE 1 (36ft)	0	#DIV/0!
TYPE 2 (50 ft)	0	#DIV/0!
TYPE 3 (60 ft)	0	#DIV/0!
TYPE 4 (72 ft)	0	#DIV/0!

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 24

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.3	6.2	522	522	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	6.2	0	0		

Average Basin Elevation:	42
Basin Area (ac.):	6.2
Effective Modeling Area (ac.):	6.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 25

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	29	29	0	0
100	WATER	5.2	0.6	228	122	0	0
200	WETLAND	2.4	0.6	165	165	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.4	527	36	0	0
475	DIRT	0.1	0.0	14	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	3.6	0.0	26	13	0	0
700	BARREN	0.0	0.0	0	0	0	0
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	3.8	2.4	326	326	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	4.2	0	0	27	0

Average Basin Elevation:	27
Basin Area (ac.):	4.2
Effective Modeling Area (ac.):	3.5
Basin Area Not Modeled (ac.):	0.7
Basin % Not Modeled:	15.74

Road Type Summary		as % of total roads
TYPE 1 (36ft)	289	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 25

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	4.0	4.2	426	426	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	4.2	0	0		

Average Basin Elevation:	27
Basin Area (ac.):	4.2
Effective Modeling Area (ac.):	4.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 26

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	9.5	643	643	0	0
100	WATER	1.1	0.2	85	85	0	0
200	WETLAND	6.4	1.1	314	157	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	21.0	23511	39	0	0
475	DIRT	0.1	3.7	4486	36	0	0
500	PARKING	2.1	15.7	2558	268	0	0
600	DCI	4.1	27.8	11216	108	0	0
700	BARREN	4.6	9.7	8318	51	0	0
825	UPLAND	9.4	5.6	1781	138	0	0
875	LANDSCAPED	7.5	40.2	6859	255	0	0
900	ICI	4.9	3.3	1624	88	0	0
9999	BASIN	0.0	137.9	0	0	76	0

Average Basin Elevation:	76
Basin Area (ac.):	137.9
Effective Modeling Area (ac.):	128.2
Basin Area Not Modeled (ac.):	9.6
Basin % Not Modeled:	7.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	20167	71%
TYPE 2 (50 ft)	2215	11%
TYPE 3 (60 ft)	3103	18%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 26

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.7	11.2	1050	464	0	0
825	UPLAND	5.7	126.7	2349	2349	0	0
9999	BASIN	0	137.9	0	0		

Average Basin Elevation:	76
Basin Area (ac.):	137.9
Effective Modeling Area (ac.):	137.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 28

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.8	191	191	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.1	2588	36	0	0
475	DIRT	0.1	0.4	449	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	5.9	2.0	1805	48	0	0
700	BARREN	4.2	1.2	1060	50	0	0
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	4.1	4.9	1363	157	0	0
900	ICI	13.2	0.2	182	44	0	0
9999	BASIN	0.0	11.6	0	0	37	0

Average Basin Elevation:	37
Basin Area (ac.):	11.6
Effective Modeling Area (ac.):	10.8
Basin Area Not Modeled (ac.):	0.8
Basin % Not Modeled:	7.24

Road Type Summary		as % of total roads
TYPE 1 (36ft)	2635	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 28

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.2	2.1	305	305	0	0
825	UPLAND	5.4	9.4	641	641	0	0
9999	BASIN	0	11.6	0	0		

Average Basin Elevation:	37
Basin Area (ac.):	11.6
Effective Modeling Area (ac.):	11.6
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 29

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.8	190	190	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.7	3211	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	3.8	1.9	1746	48	0	0
700	BARREN	5.0	1.6	1434	49	0	0
825	UPLAND	2.9	2.9	457	280	0	0
875	LANDSCAPED	4.2	6.3	1440	190	0	0
900	ICI	7.6	0.1	113	36	0	0
9999	BASIN	0.0	16.4	0	0	42	0

Average Basin Elevation:	42
Basin Area (ac.):	16.4
Effective Modeling Area (ac.):	15.5
Basin Area Not Modeled (ac.):	0.8
Basin % Not Modeled:	5.06

Road Type Summary		as % of total roads
TYPE 1 (36ft)	2952	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 29

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.2	12.6	741	741	0	0
825	UPLAND	6.3	3.8	568	290	0	0
9999	BASIN	0	16.4	0	0		

Average Basin Elevation:	42
Basin Area (ac.):	16.4
Effective Modeling Area (ac.):	16.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 30

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.3	111	111	0	0
100	WATER	15.5	4.8	456	456	0	0
200	WETLAND	15.6	4.5	481	409	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	31.5	0.0	49	17	0	0
700	BARREN	18.8	0.0	44	24	0	0
825	UPLAND	27.5	3.0	450	289	0	0
875	LANDSCAPED	19.5	0.8	294	111	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	13.4	0	0	25	0

Average Basin Elevation:	25
Basin Area (ac.):	13.4
Effective Modeling Area (ac.):	8.3
Basin Area Not Modeled (ac.):	5.0
Basin % Not Modeled:	37.73

Road Type Summary	as % of total roads	
TYPE 1 (36ft)	0	#DIV/0!
TYPE 2 (50 ft)	0	#DIV/0!
TYPE 3 (60 ft)	0	#DIV/0!
TYPE 4 (72 ft)	0	#DIV/0!

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 30

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	8.5	9.4	641	641	0	0
825	UPLAND	26.4	3.9	415	415	0	0
9999	BASIN	0	13.4	0	0		

Average Basin Elevation:	25
Basin Area (ac.):	13.4
Effective Modeling Area (ac.):	13.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 31

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.6	160	160	0	0
100	WATER	17.0	0.0	59	35	0	0
200	WETLAND	17.4	0.0	51	27	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	3.0	2594	50	0	0
475	DIRT	0.1	0.1	177	36	0	0
500	PARKING	4.1	0.6	223	114	0	0
600	DCI	6.8	1.0	950	44	0	0
700	BARREN	9.2	0.4	383	44	0	0
825	UPLAND	18.7	2.0	563	155	0	0
875	LANDSCAPED	12.7	2.3	925	108	0	0
900	ICI	10.2	0.0	50	31	0	0
9999	BASIN	0.0	10.0	0	0	65	0

Average Basin Elevation:	65
Basin Area (ac.):	10.0
Effective Modeling Area (ac.):	9.4
Basin Area Not Modeled (ac.):	0.6
Basin % Not Modeled:	6.30

Road Type Summary		as % of total roads
TYPE 1 (36ft)	482	13%
TYPE 2 (50 ft)	53	2%
TYPE 3 (60 ft)	1834	85%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 31

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	10.3	1.8	281	281	0	0
825	UPLAND	12.4	8.2	599	599	0	0
9999	BASIN	0	10.0	0	0		

Average Basin Elevation:	65
Basin Area (ac.):	10.0
Effective Modeling Area (ac.):	10.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 32

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.1	217	217	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	2.7	0.0	37	37	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	4.4	5317	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	1.5	3.5	4788	32	0	0
700	BARREN	1.4	3.1	3617	37	0	0
825	UPLAND	1.6	3.6	579	272	0	0
875	LANDSCAPED	1.4	9.2	2658	151	0	0
900	ICI	0.8	0.0	45	23	0	0
9999	BASIN	0.0	25.0	0	0	125	0

Average Basin Elevation:	125
Basin Area (ac.):	25.0
Effective Modeling Area (ac.):	23.9
Basin Area Not Modeled (ac.):	1.1
Basin % Not Modeled:	4.33

Road Type Summary		as % of total roads
TYPE 1 (36ft)	4315	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 32

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.7	0.0	44	44	0	0
825	UPLAND	1.4	25.0	1043	1043	0	0
9999	BASIN	0	25.0	0	0		

Average Basin Elevation:	125
Basin Area (ac.):	25.0
Effective Modeling Area (ac.):	25.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 33

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.6	156	156	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	4.1	4485	40	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.5	3.9	2674	63	0	0
700	BARREN	3.4	2.9	2327	55	0	0
825	UPLAND	5.8	1.6	448	160	0	0
875	LANDSCAPED	3.1	8.4	1499	243	0	0
900	ICI	2.3	0.2	90	90	0	0
9999	BASIN	0.0	21.8	0	0	117	0

Average Basin Elevation:	117
Basin Area (ac.):	21.8
Effective Modeling Area (ac.):	21.2
Basin Area Not Modeled (ac.):	0.6
Basin % Not Modeled:	2.58

Road Type Summary		as % of total roads
TYPE 1 (36ft)	2284	48%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	1469	52%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 33

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	4.4	5.5	489	489	0	0
825	UPLAND	3.0	16.3	842	842	0	0
9999	BASIN	0	21.8	0	0		

Average Basin Elevation:	117
Basin Area (ac.):	21.8
Effective Modeling Area (ac.):	21.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 34

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	2.6	338	338	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	18.5	18018	45	0	0
475	DIRT	0.1	0.2	192	36	0	0
500	PARKING	1.5	32.7	4075	349	0	0
600	DCI	0.9	24.4	7493	142	0	0
700	BARREN	1.6	7.5	2511	129	0	0
825	UPLAND	2.3	3.4	1583	93	0	0
875	LANDSCAPED	2.3	6.7	1980	147	0	0
900	ICI	1.5	0.3	383	30	0	0
9999	BASIN	0.0	96.4	0	0	97	0

Average Basin Elevation:	97
Basin Area (ac.):	96.4
Effective Modeling Area (ac.):	93.5
Basin Area Not Modeled (ac.):	2.6
Basin % Not Modeled:	2.72

Road Type Summary		as % of total roads
TYPE 1 (36ft)	8170	32%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	5837	38%
TYPE 4 (72 ft)	3879	30%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 34

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.3	8.8	795	480	0	0
825	UPLAND	1.6	87.7	1954	1954	0	0
9999	BASIN	0	96.4	0	0		

Average Basin Elevation:	97
Basin Area (ac.):	96.4
Effective Modeling Area (ac.):	96.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 35

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.2	85	85	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.5	1846	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	5.9	1.9	1291	63	0	0
700	BARREN	4.5	1.9	941	89	0	0
825	UPLAND	2.8	0.1	102	52	0	0
875	LANDSCAPED	3.6	4.1	784	230	0	0
900	ICI	7.5	0.0	39	39	0	0
9999	BASIN	0.0	9.8	0	0	41	0

Average Basin Elevation:	41
Basin Area (ac.):	9.8
Effective Modeling Area (ac.):	9.6
Basin Area Not Modeled (ac.):	0.2
Basin % Not Modeled:	1.70

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1765	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 35

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	4.5	9.8	652	652	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	9.8	0	0		

Average Basin Elevation:	41
Basin Area (ac.):	9.8
Effective Modeling Area (ac.):	9.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 36

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.5	259	259	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	6.5	7080	40	0	0
475	DIRT	0.1	0.0	33	36	0	0
500	PARKING	2.4	1.7	624	118	0	0
600	DCI	3.9	3.8	2696	61	0	0
700	BARREN	4.1	3.1	2533	54	0	0
825	UPLAND	3.2	3.3	592	240	0	0
875	LANDSCAPED	4.9	8.5	1787	206	0	0
900	ICI	3.5	0.1	159	36	0	0
9999	BASIN	0.0	28.6	0	0	78	0

Average Basin Elevation:	78
Basin Area (ac.):	28.6
Effective Modeling Area (ac.):	27.0
Basin Area Not Modeled (ac.):	1.5
Basin % Not Modeled:	5.41

Road Type Summary		as % of total roads
TYPE 1 (36ft)	4093	52%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	111	2%
TYPE 4 (72 ft)	1762	45%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 36

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	4.7	3.3	378	378	0	0
825	UPLAND	4.4	25.3	1050	1050	0	0
9999	BASIN	0	28.6	0	0		

Average Basin Elevation:	78
Basin Area (ac.):	28.6
Effective Modeling Area (ac.):	28.6
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 37

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.2	97	97	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	3.8	2.9	453	280	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.5	1853	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	2.4	0.0	26	26	0	0
600	DCI	6.0	0.2	211	31	0	0
700	BARREN	4.4	0.2	234	40	0	0
825	UPLAND	4.7	0.4	181	97	0	0
875	LANDSCAPED	3.2	22.4	1187	822	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	27.8	0	0	60	0

Average Basin Elevation:	60
Basin Area (ac.):	27.8
Effective Modeling Area (ac.):	27.6
Basin Area Not Modeled (ac.):	0.2
Basin % Not Modeled:	0.78

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1750	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 37

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.3	22.1	982	982	0	0
825	UPLAND	3.4	5.7	498	498	0	0
9999	BASIN	0	27.8	0	0		

Average Basin Elevation:	60
Basin Area (ac.):	27.8
Effective Modeling Area (ac.):	27.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 38

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	5.0	467	467	0	0
100	WATER	1.2	0.1	89	50	0	0
200	WETLAND	19.3	0.2	103	85	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	22.7	20740	48	0	0
475	DIRT	0.1	1.8	2234	36	0	0
500	PARKING	1.4	30.7	4261	314	0	0
600	DCI	1.1	36.2	11614	136	0	0
700	BARREN	3.1	10.4	5013	91	0	0
825	UPLAND	2.9	4.2	1795	102	0	0
875	LANDSCAPED	5.9	15.3	3378	197	0	0
900	ICI	1.3	2.1	1656	55	0	0
9999	BASIN	0.0	129.1	0	0	92	0

Average Basin Elevation:	92
Basin Area (ac.):	129.1
Effective Modeling Area (ac.):	123.6
Basin Area Not Modeled (ac.):	5.1
Basin % Not Modeled:	3.97

Road Type Summary		as % of total roads
TYPE 1 (36ft)	10183	35%
TYPE 2 (50 ft)	831	4%
TYPE 3 (60 ft)	2953	17%
TYPE 4 (72 ft)	6553	45%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 38

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	11.3	5.1	574	383	0	0
825	UPLAND	2.0	124.0	2324	2324	0	0
9999	BASIN	0	129.1	0	0		

Average Basin Elevation:	92
Basin Area (ac.):	129.1
Effective Modeling Area (ac.):	129.1
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 39

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.4	137	137	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	4.1	10.0	659	659	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.3	313	40	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.6	0.6	1113	24	0	0
700	BARREN	2.9	1.1	1081	44	0	0
825	UPLAND	3.3	2.2	537	182	0	0
875	LANDSCAPED	2.9	4.0	594	291	0	0
900	ICI	2.3	0.2	98	98	0	0
9999	BASIN	0.0	18.8	0	0	111	0

Average Basin Elevation:	111
Basin Area (ac.):	18.8
Effective Modeling Area (ac.):	18.4
Basin Area Not Modeled (ac.):	0.4
Basin % Not Modeled:	2.29

Road Type Summary		as % of total roads
TYPE 1 (36ft)	259	82%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	33	18%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 39

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.7	15.3	816	816	0	0
825	UPLAND	2.7	3.5	408	373	0	0
9999	BASIN	0	18.8	0	0		

Average Basin Elevation:	111
Basin Area (ac.):	18.8
Effective Modeling Area (ac.):	18.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 40

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.7	169	169	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.1	2190	42	0	0
475	DIRT	0.1	0.0	33	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.1	13.4	1261	464	0	0
700	BARREN	3.5	2.8	1784	69	0	0
825	UPLAND	6.6	1.0	301	141	0	0
875	LANDSCAPED	6.5	3.5	1228	123	0	0
900	ICI	1.5	1.0	706	61	0	0
9999	BASIN	0.0	24.5	0	0	88	0

Average Basin Elevation:	88
Basin Area (ac.):	24.5
Effective Modeling Area (ac.):	23.8
Basin Area Not Modeled (ac.):	0.7
Basin % Not Modeled:	2.66

Road Type Summary		as % of total roads
TYPE 1 (36ft)	383	16%
TYPE 2 (50 ft)	1441	84%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 40

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
825	UPLAND	3.4	24.5	1034	1034	0	0
9999	BASIN	0	24.5	0	0		

Average Basin Elevation:	88
Basin Area (ac.):	24.5
Effective Modeling Area (ac.):	24.5
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 41

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.4	126	126	0	0
100	WATER	7.3	0.9	199	199	0	0
200	WETLAND	8.3	4.7	471	433	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	9.7	1.0	1045	41	0	0
700	BARREN	9.0	0.4	656	29	0	0
825	UPLAND	17.4	0.3	186	79	0	0
875	LANDSCAPED	14.3	2.5	590	181	0	0
900	ICI	13.4	0.0	26	26	0	0
9999	BASIN	0.0	10.1	0	0	100	0

Average Basin Elevation:	100
Basin Area (ac.):	10.1
Effective Modeling Area (ac.):	8.9
Basin Area Not Modeled (ac.):	1.3
Basin % Not Modeled:	12.58

Road Type Summary	as % of total roads	
TYPE 1 (36ft)	0	#DIV/0!
TYPE 2 (50 ft)	0	#DIV/0!
TYPE 3 (60 ft)	0	#DIV/0!
TYPE 4 (72 ft)	0	#DIV/0!

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 41

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	10.4	8.7	616	616	0	0
825	UPLAND	13.4	1.4	250	250	0	0
9999	BASIN	0	10.1	0	0		

Average Basin Elevation:	100
Basin Area (ac.):	10.1
Effective Modeling Area (ac.):	10.1
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 42

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.8	190	190	0	0
100	WATER	3.7	1.1	222	214	0	0
200	WETLAND	7.6	33.3	1354	1071	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.1	52	60	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	10.7	0.7	952	30	0	0
700	BARREN	8.5	1.3	901	62	0	0
825	UPLAND	6.4	14.1	791	778	0	0
875	LANDSCAPED	9.8	9.6	992	421	0	0
900	ICI	7.9	0.4	245	72	0	0
9999	BASIN	0.0	61.3	0	0	92	0

Average Basin Elevation:	92
Basin Area (ac.):	61.3
Effective Modeling Area (ac.):	59.4
Basin Area Not Modeled (ac.):	1.9
Basin % Not Modeled:	3.13

Road Type Summary	as % of total roads	
TYPE 1 (36ft)	0	0%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	57	100%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 42

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	8.3	48.1	1448	1448	0	0
825	UPLAND	6.2	13.2	975	590	0	0
9999	BASIN	0	61.3	0	0		

Average Basin Elevation:	92
Basin Area (ac.):	61.3
Effective Modeling Area (ac.):	61.3
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 43

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	2.0	298	298	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	5.4	6476	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	3.4	12.7	977	567	0	0
600	DCI	2.0	8.4	1936	190	0	0
700	BARREN	3.8	2.3	2246	44	0	0
825	UPLAND	3.1	0.9	322	127	0	0
875	LANDSCAPED	3.7	10.1	1844	239	0	0
900	ICI	3.1	0.2	198	52	0	0
9999	BASIN	0.0	42.0	0	0	83	0

Average Basin Elevation:	83
Basin Area (ac.):	42.0
Effective Modeling Area (ac.):	40.1
Basin Area Not Modeled (ac.):	2.0
Basin % Not Modeled:	4.84

Road Type Summary		as % of total roads
TYPE 1 (36ft)	6095	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 43

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.9	1.4	244	244	0	0
825	UPLAND	3.7	40.7	1331	1331	0	0
9999	BASIN	0	42.0	0	0		

Average Basin Elevation:	83
Basin Area (ac.):	42.0
Effective Modeling Area (ac.):	42.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 44

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	9.3	637	637	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	4.6	0.3	112	104	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	78.9	81942	42	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	1.9	70.2	4404	695	0	0
600	DCI	1.5	67.4	14978	196	0	0
700	BARREN	2.5	27.9	20123	60	0	0
825	UPLAND	4.4	16.1	3004	234	0	0
875	LANDSCAPED	3.4	108.7	15286	310	0	0
900	ICI	2.5	2.5	1442	75	0	0
9999	BASIN	0.0	382.6	0	0	117	0

Average Basin Elevation:	117
Basin Area (ac.):	382.6
Effective Modeling Area (ac.):	371.9
Basin Area Not Modeled (ac.):	9.3
Basin % Not Modeled:	2.44

Road Type Summary		as % of total roads
TYPE 1 (36ft)	33958	42%
TYPE 2 (50 ft)	4061	7%
TYPE 3 (60 ft)	10271	21%
TYPE 4 (72 ft)	11687	29%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 44

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.9	130.5	2401	2368	0	0
825	UPLAND	3.2	252.1	5418	2026	0	0
9999	BASIN	0	382.6	0	0		

Average Basin Elevation:	117
Basin Area (ac.):	382.6
Effective Modeling Area (ac.):	382.6
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 45

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.4	129	129	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.1	1348	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	3.8	0.9	1053	38	0	0
700	BARREN	3.6	0.7	737	40	0	0
825	UPLAND	5.6	0.2	96	96	0	0
875	LANDSCAPED	3.6	3.1	918	146	0	0
900	ICI	4.9	0.0	53	29	0	0
9999	BASIN	0.0	6.3	0	0	84	0

Average Basin Elevation:	84
Basin Area (ac.):	6.3
Effective Modeling Area (ac.):	6.0
Basin Area Not Modeled (ac.):	0.4
Basin % Not Modeled:	5.98

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1213	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 45

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
825	UPLAND	3.7	6.3	526	526	0	0
9999	BASIN	0	6.3	0	0		

Average Basin Elevation:	84
Basin Area (ac.):	6.3
Effective Modeling Area (ac.):	6.3
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 46

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	6.3	522	522	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	17.4	19966	38	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	1.5	10.3	12652	35	0	0
700	BARREN	1.5	10.0	9910	44	0	0
825	UPLAND	4.0	15.0	1108	589	0	0
875	LANDSCAPED	1.4	42.1	7381	248	0	0
900	ICI	1.7	0.8	812	42	0	0
9999	BASIN	0.0	101.8	0	0	112	0

Average Basin Elevation:	112
Basin Area (ac.):	101.8
Effective Modeling Area (ac.):	95.5
Basin Area Not Modeled (ac.):	6.3
Basin % Not Modeled:	6.14

Road Type Summary		as % of total roads
TYPE 1 (36ft)	16674	87%
TYPE 2 (50 ft)	1868	13%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 46

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
825	UPLAND	3.7	1207.0	7251	7251	0	0
9999	BASIN	0	1207.0	0	0		

Average Basin Elevation:	84
Basin Area (ac.):	1207.0
Effective Modeling Area (ac.):	1207.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 47

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.1	221	221	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	4.2	0.1	73	73	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	3.9	4723	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	3.7	7.3	3212	99	0	0
700	BARREN	3.0	4.7	2664	77	0	0
825	UPLAND	4.3	0.4	176	91	0	0
875	LANDSCAPED	3.8	10.0	2485	176	0	0
900	ICI	2.8	0.4	234	68	0	0
9999	BASIN	0.0	27.9	0	0	116	0

Average Basin Elevation:	116
Basin Area (ac.):	27.9
Effective Modeling Area (ac.):	26.8
Basin Area Not Modeled (ac.):	1.1
Basin % Not Modeled:	4.02

Road Type Summary		as % of total roads
TYPE 1 (36ft)	4554	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 47

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	8.0	2.9	357	357	0	0
825	UPLAND	3.0	25.0	1043	1043	0	0
9999	BASIN	0	27.9	0	0		

Average Basin Elevation:	116
Basin Area (ac.):	27.9
Effective Modeling Area (ac.):	27.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 48

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	2.8	350	350	0	0
100	WATER	9.1	0.2	101	77	0	0
200	WETLAND	9.1	0.9	196	196	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	4.3	5300	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	1.3	2.6	339	339	0	0
600	DCI	3.9	12.6	5845	94	0	0
700	BARREN	4.2	4.5	2714	72	0	0
825	UPLAND	4.4	3.7	2284	70	0	0
875	LANDSCAPED	10.1	1.8	445	178	0	0
900	ICI	5.3	0.2	127	69	0	0
9999	BASIN	0.0	33.6	0	0	120	0

Average Basin Elevation:	120
Basin Area (ac.):	33.6
Effective Modeling Area (ac.):	30.6
Basin Area Not Modeled (ac.):	3.0
Basin % Not Modeled:	8.92

Road Type Summary	as % of total roads
TYPE 1 (36ft)	4587 100%
TYPE 2 (50 ft)	0 0%
TYPE 3 (60 ft)	0 0%
TYPE 4 (72 ft)	0 0%

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 48

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	8.0	8.4	606	606	0	0
825	UPLAND	3.3	25.1	1047	1047	0	0
9999	BASIN	0	33.6	0	0		

Average Basin Elevation:	120
Basin Area (ac.):	33.6
Effective Modeling Area (ac.):	33.6
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 49

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.5	146	146	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	4.0	1.1	273	179	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	10.2	10540	42	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	1.6	0.5	218	110	0	0
600	DCI	1.8	20.7	4611	196	0	0
700	BARREN	3.5	7.2	5358	58	0	0
825	UPLAND	4.0	1.6	551	126	0	0
875	LANDSCAPED	1.9	20.4	2801	318	0	0
900	ICI	1.2	1.2	603	90	0	0
9999	BASIN	0.0	63.5	0	0	130	0

Average Basin Elevation:	130
Basin Area (ac.):	63.5
Effective Modeling Area (ac.):	63.0
Basin Area Not Modeled (ac.):	0.5
Basin % Not Modeled:	0.77

Road Type Summary		as % of total roads
TYPE 1 (36ft)	4241	37%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	3860	56%
TYPE 4 (72 ft)	441	8%

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 49

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	4.1	1.5	360	182	0	0
825	UPLAND	2.2	62.0	1643	1643	0	0
9999	BASIN	0	63.5	0	0		

Average Basin Elevation:	130
Basin Area (ac.):	63.5
Effective Modeling Area (ac.):	63.5
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 50

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.3	107	107	0	0
100	WATER	2.0	0.1	78	78	0	0
200	WETLAND	5.0	0.3	117	117	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.4	2904	36	0	0
475	DIRT	0.1	0.8	1024	36	0	0
500	PARKING	1.3	1.8	282	282	0	0
600	DCI	1.4	4.9	3486	61	0	0
700	BARREN	1.7	3.4	3258	46	0	0
825	UPLAND	2.1	1.2	802	66	0	0
875	LANDSCAPED	1.5	5.4	2388	99	0	0
900	ICI	2.5	0.2	279	33	0	0
9999	BASIN	0.0	20.9	0	0	133	0

Average Basin Elevation:	133
Basin Area (ac.):	20.9
Effective Modeling Area (ac.):	20.5
Basin Area Not Modeled (ac.):	0.4
Basin % Not Modeled:	1.91

Road Type Summary		as % of total roads
TYPE 1 (36ft)	3514	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 50

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	4	0	91	91	0	0
200	WETLAND	4.2	1.2	233	228	0	0
825	UPLAND	1.5	19.5	922	922	0	0
9999	BASIN	0	20.9	0	0		

Average Basin Elevation:	133
Basin Area (ac.):	20.9
Effective Modeling Area (ac.):	20.8
Basin Area Not Modeled (ac.):	0.2
Basin % Not Modeled:	0.910676332

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 51

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.1	67	67	0	0
100	WATER	2.9	0.0	44	44	0	0
200	WETLAND	2.9	0.4	131	131	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.1	2568	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	3.5	3.8	3133	53	0	0
700	BARREN	3.2	3.0	2241	59	0	0
825	UPLAND	3.8	1.2	492	109	0	0
875	LANDSCAPED	3.2	3.4	1788	83	0	0
900	ICI	9.2	0.1	96	36	0	0
9999	BASIN	0.0	14.3	0	0	126	0

Average Basin Elevation:	126
Basin Area (ac.):	14.3
Effective Modeling Area (ac.):	14.1
Basin Area Not Modeled (ac.):	0.1
Basin % Not Modeled:	1.02

Road Type Summary		as % of total roads
TYPE 1 (36ft)	2149	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 51

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	3	0	47	47	0	0
200	WETLAND	4.8	4.9	463	463	0	0
825	UPLAND	2.3	9.3	653	621	0	0
9999	BASIN	0	14.3	0	0		

Average Basin Elevation:	126
Basin Area (ac.):	14.3
Effective Modeling Area (ac.):	14.2
Basin Area Not Modeled (ac.):	0.1
Basin % Not Modeled:	0.351339976

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Main Chester Creek Current Conditions

Drainage Basin ID: 52

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.6	166	166	0	0
100	WATER	4.2	9.0	626	626	0	0
200	WETLAND	4.2	6.9	551	547	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	5.6	0.5	612	39	0	0
700	BARREN	8.2	0.6	574	47	0	0
825	UPLAND	10.2	0.5	258	82	0	0
875	LANDSCAPED	4.6	0.9	442	87	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	19.0	0	0	119	0

Average Basin Elevation:	119
Basin Area (ac.):	19.0
Effective Modeling Area (ac.):	9.5
Basin Area Not Modeled (ac.):	9.6
Basin % Not Modeled:	50.55

Road Type Summary	as % of total roads	
TYPE 1 (36ft)	0	#DIV/0!
TYPE 2 (50 ft)	0	#DIV/0!
TYPE 3 (60 ft)	0	#DIV/0!
TYPE 4 (72 ft)	0	#DIV/0!

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Main Chester Creek Predevelopment Conditions

Drainage Basin ID: 52

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	5	10	661	661	0	0
200	WETLAND	4.9	9.0	636	614	0	0
825	UPLAND	5.4	0.0	38	38	0	0
9999	BASIN	0	19.0	0	0		

Average Basin Elevation:	119
Basin Area (ac.):	19.0
Effective Modeling Area (ac.):	9.0
Basin Area Not Modeled (ac.):	10.0
Basin % Not Modeled:	52.73399264

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Middle Chester Creek Current Conditions

Drainage Basin ID: 1

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	88.8	1967	1967	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	3.4	89.6	3572	1093	163	257
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	123.9	145910	37	159	2744
475	DIRT	0.1	24.0	28425	37	153	309
500	PARKING	2.4	41.7	3302	549	165	273
600	DCI	2.7	132.9	54101	107	153	303
700	BARREN	2.5	68.7	21457	139	153	316
825	UPLAND	8.5	148.7	6228	1040	155	331
875	LANDSCAPED	3.7	235.6	34600	297	153	325
900	ICI	2.5	20.5	6410	140	161	317
9999	BASIN	0.0	977.2	0	0	211	0

Average Basin Elevation:	211
Basin Area (ac.):	977.2
Effective Modeling Area (ac.):	885.6
Basin Area Not Modeled (ac.):	88.8
Basin % Not Modeled:	9.09

Road Type Summary		as % of total roads
TYPE 1 (36ft)	102127	67.3%
TYPE 2 (50 ft)	7881	7.2%
TYPE 3 (60 ft)	7042	7.7%
TYPE 4 (72 ft)	13466	17.7%

Rainfall Factor:	1.10
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Middle Chester Creek Predevelopment Conditions

Drainage Basin ID: 1

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.5	496.8	4779	4528	0	0
825	UPLAND	5.8	480.4	6064	3451	0	0
9999	BASIN	0	977.2	0	0		

Average Basin Elevation:	211
Basin Area (ac.):	977.2
Effective Modeling Area (ac.):	977.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.10
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Middle Chester Creek Current Conditions

Drainage Basin ID: 2

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	11.8	718	718	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	2.7	0.2	90	90	82	85
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	36.3	41609	38	130	161
475	DIRT	0.1	0.2	235	36	153	155
500	PARKING	1.9	21.8	1547	614	133	157
600	DCI	1.8	59.0	18239	141	132	162
700	BARREN	1.8	15.2	8294	80	134	167
825	UPLAND	2.7	10.9	1394	341	135	164
875	LANDSCAPED	1.7	58.8	10234	250	130	167
900	ICI	1.6	1.3	1024	56	136	165
9999	BASIN	0.0	215.5	0	0	148	0

Average Basin Elevation:	148
Basin Area (ac.):	215.5
Effective Modeling Area (ac.):	203.8
Basin Area Not Modeled (ac.):	11.8
Basin % Not Modeled:	5.49

Road Type Summary		as % of total roads
TYPE 1 (36ft)	29623	69.3%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	5063	19.7%
TYPE 4 (72 ft)	2351	11.0%

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Middle Chester Creek Predevelopment Conditions

Drainage Basin ID: 2

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.8	174.2	2754	2754	0	0
825	UPLAND	1.7	41.3	1341	1341	0	0
9999	BASIN	0	215.5	0	0		

Average Basin Elevation:	148
Basin Area (ac.):	215.5
Effective Modeling Area (ac.):	215.5
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Middle Chester Creek Current Conditions

Drainage Basin ID: 3

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	16.5	849	849	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	2.3	0.8	245	151	115	125
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	46.1	55830	36	115	260
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	1.9	2.4	647	158	119	140
600	DCI	2.0	46.9	28774	71	112	143
700	BARREN	1.8	23.3	21364	48	112	143
825	UPLAND	2.5	7.4	1680	191	116	139
875	LANDSCAPED	1.9	94.0	18387	223	112	143
900	ICI	2.0	3.1	644	207	113	143
9999	BASIN	0.0	240.8	0	0	126	0

Average Basin Elevation:	126
Basin Area (ac.):	240.8
Effective Modeling Area (ac.):	224.0
Basin Area Not Modeled (ac.):	16.5
Basin % Not Modeled:	6.87

Road Type Summary		as % of total roads
TYPE 1 (36ft)	43362	84.9%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	798	2.6%
TYPE 4 (72 ft)	3181	12.5%

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Middle Chester Creek Predevelopment Conditions

Drainage Basin ID: 3

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.7	102.7	2610	1713	0	0
825	UPLAND	2.0	138.1	3324	1810	0	0
9999	BASIN	0	240.8	0	0		

Average Basin Elevation:	126
Basin Area (ac.):	240.8
Effective Modeling Area (ac.):	240.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Middle Chester Creek Current Conditions

Drainage Basin ID: 4

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	7.7	577	577	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	6.1	40.2	2300	762	163	230
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	5.0	5597	39	164	831
475	DIRT	0.1	0.0	14	36	164	165
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	5.7	4.5	1777	110	168	177
700	BARREN	5.6	3.3	1075	133	158	237
825	UPLAND	7.3	91.2	2206	1802	164	262
875	LANDSCAPED	8.7	41.4	2326	776	155	257
900	ICI	5.0	3.4	914	160	158	239
9999	BASIN	0.0	196.7	0	0	205	0

Average Basin Elevation:	205
Basin Area (ac.):	196.7
Effective Modeling Area (ac.):	189.0
Basin Area Not Modeled (ac.):	7.7
Basin % Not Modeled:	3.89

Road Type Summary		as % of total roads
TYPE 1 (36ft)	3917	72.8%
TYPE 2 (50 ft)	1020	26.3%
TYPE 3 (60 ft)	30	0.9%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	1.15
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Middle Chester Creek Predevelopment Conditions

Drainage Basin ID: 4

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	5.7	75.1	2020	1619	0	0
825	UPLAND	8.2	121.7	2812	1885	0	0
9999	BASIN	0	196.7	0	0		

Average Basin Elevation:	205
Basin Area (ac.):	196.7
Effective Modeling Area (ac.):	196.7
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.15
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Middle Chester Creek Current Conditions

Drainage Basin ID: 5

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.8	191	191	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.2	215	36	153	175
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	9.1	1.5	796	84	152	176
700	BARREN	6.4	0.2	264	33	149	174
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	7.0	2.2	689	137	149	175
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	4.9	0	0	161	0

Average Basin Elevation:	161
Basin Area (ac.):	4.9
Effective Modeling Area (ac.):	4.1
Basin Area Not Modeled (ac.):	0.8
Basin % Not Modeled:	16.94

Road Type Summary	as % of total roads	
TYPE 1 (36ft)	299	100.0%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	0	0.0%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	1.10
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Middle Chester Creek Predevelopment Conditions

Drainage Basin ID: 5

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	7.5	3.5	390	390	0	0
825	UPLAND	7.7	1.4	251	251	0	0
9999	BASIN	0	4.9	0	0		

Average Basin Elevation:	161
Basin Area (ac.):	4.9
Effective Modeling Area (ac.):	4.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.10
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Middle Chester Creek Current Conditions

Drainage Basin ID: 6

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	4.8	457	457	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	2.7	2.9	359	348	92	131
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	3.7	4904	33	148	869
475	DIRT	0.1	1.3	761	72	137	157
500	PARKING	2.5	4.8	456	456	133	145
600	DCI	2.7	8.4	3648	100	135	175
700	BARREN	2.8	1.5	1544	41	137	174
825	UPLAND	2.7	69.2	7374	409	87	193
875	LANDSCAPED	2.7	10.1	2777	159	135	174
900	ICI	3.7	1.1	465	102	140	171
9999	BASIN	0.0	34.2	0	0	146	0

Average Basin Elevation:	146
Basin Area (ac.):	34.2
Effective Modeling Area (ac.):	102.9
Basin Area Not Modeled (ac.):	4.8
Basin % Not Modeled:	14.01

Road Type Summary		as % of total roads
TYPE 1 (36ft)	3459	100.0%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	0	0.0%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	1.10
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Middle Chester Creek Predevelopment Conditions

Drainage Basin ID: 6

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.2	28.4	1112	1112	0	0
825	UPLAND	4.9	5.8	501	501	0	0
9999	BASIN	0	34.2	0	0		

Average Basin Elevation:	146
Basin Area (ac.):	34.2
Effective Modeling Area (ac.):	34.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.10
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Middle Chester Creek Current Conditions

Drainage Basin ID: 7

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.0	213	213	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	2.2	1.5	285	234	116	126
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.5	3012	36	117	134
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.7	2.4	2199	48	118	135
700	BARREN	2.5	2.1	1993	46	116	136
825	UPLAND	3.4	1.4	544	113	116	133
875	LANDSCAPED	2.2	10.9	1717	278	116	136
900	ICI	0.8	0.0	29	29	134	134
9999	BASIN	0.0	22.0	0	0	125	0

Average Basin Elevation:	125
Basin Area (ac.):	22.0
Effective Modeling Area (ac.):	20.9
Basin Area Not Modeled (ac.):	1.0
Basin % Not Modeled:	4.75

Road Type Summary		as % of total roads
TYPE 1 (36ft)	2561	100.0%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	0	0.0%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Middle Chester Creek Predevelopment Conditions

Drainage Basin ID: 7

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.3	13.2	757	757	0	0
825	UPLAND	2.4	8.8	619	619	0	0
9999	BASIN	0	22.0	0	0		

Average Basin Elevation:	125
Basin Area (ac.):	22.0
Effective Modeling Area (ac.):	22.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Middle Chester Creek Current Conditions

Drainage Basin ID: 8

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.5	254	254	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.8	2575	47	137	306
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	2.5	0.1	71	71	144	146
600	DCI	2.4	16.7	2098	347	137	170
700	BARREN	2.2	3.7	1762	91	136	162
825	UPLAND	2.1	0.2	91	91	146	148
875	LANDSCAPED	2.2	18.6	1502	538	137	171
900	ICI	2.9	2.8	1028	117	145	161
9999	BASIN	0.0	46.2	0	0	152	0

Average Basin Elevation:	152
Basin Area (ac.):	46.2
Effective Modeling Area (ac.):	44.8
Basin Area Not Modeled (ac.):	1.5
Basin % Not Modeled:	3.22

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1724	50.5%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	1015	49.5%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	1.10
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Middle Chester Creek Predevelopment Conditions

Drainage Basin ID: 8

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.3	46.2	1418	1418	0	0
825	UPLAND	4.3	0.0	32	32	0	0
9999	BASIN	0	46.2	0	0		

Average Basin Elevation:	152
Basin Area (ac.):	46.2
Effective Modeling Area (ac.):	46.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.10
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Middle Chester Creek Current Conditions

Drainage Basin ID: 9

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.9	199	199	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	7.0	1.4	343	180	168	195
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.4	451	40	177	370
475	DIRT	0.1	1.2	1271	42	173	188
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.6	0.7	817	35	176	178
700	BARREN	2.5	0.1	151	26	174	179
825	UPLAND	4.7	0.4	210	79	175	191
875	LANDSCAPED	3.1	1.1	575	82	172	190
900	ICI	3.2	0.2	173	49	172	185
9999	BASIN	0.0	6.3	0	0	179	0

Average Basin Elevation:	179
Basin Area (ac.):	6.3
Effective Modeling Area (ac.):	5.5
Basin Area Not Modeled (ac.):	0.9
Basin % Not Modeled:	14.37

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1078	54.6%
TYPE 2 (50 ft)	645	45.4%
TYPE 3 (60 ft)	0	0.0%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	1.15
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Middle Chester Creek Predevelopment Conditions

Drainage Basin ID: 9

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	4.3	6.3	526	526	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	6.3	0	0		

Average Basin Elevation:	179
Basin Area (ac.):	6.3
Effective Modeling Area (ac.):	6.3
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.15
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Middle Chester Creek Current Conditions

Drainage Basin ID: 10

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.6	264	264	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	1.5	11.2	698	698	115	124
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.3	344	36	115	118
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.6	0.8	1216	30	118	128
700	BARREN	1.8	0.5	468	50	115	127
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	1.7	4.3	847	223	115	129
900	ICI	1.5	0.6	294	93	122	127
9999	BASIN	0.0	19.4	0	0	120	0

Average Basin Elevation:	120
Basin Area (ac.):	19.4
Effective Modeling Area (ac.):	17.8
Basin Area Not Modeled (ac.):	1.6
Basin % Not Modeled:	8.27

Road Type Summary	as % of total roads
TYPE 1 (36ft)	212 100.0%
TYPE 2 (50 ft)	0 0.0%
TYPE 3 (60 ft)	0 0.0%
TYPE 4 (72 ft)	0 0.0%

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Middle Chester Creek Predevelopment Conditions

Drainage Basin ID: 10

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.5	13.6	775	762	0	0
825	UPLAND	1.6	5.8	503	503	0	0
9999	BASIN	0	19.4	0	0		

Average Basin Elevation:	120
Basin Area (ac.):	19.4
Effective Modeling Area (ac.):	19.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Middle Chester Creek Current Conditions

Drainage Basin ID: 11

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	2.8	348	348	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.7	968	31	135	405
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	1.5	4.9	1743	123	128	134
700	BARREN	1.4	0.9	1053	35	125	135
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	1.5	4.8	963	218	124	137
900	ICI	1.4	1.9	573	141	123	134
9999	BASIN	0.0	15.9	0	0	130	0

Average Basin Elevation:	130
Basin Area (ac.):	15.9
Effective Modeling Area (ac.):	13.1
Basin Area Not Modeled (ac.):	2.8
Basin % Not Modeled:	17.46

Road Type Summary		as % of total roads
TYPE 1 (36ft)	555	100.0%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	0	0.0%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Middle Chester Creek Predevelopment Conditions

Drainage Basin ID: 11

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.6	10.2	668	668	0	0
825	UPLAND	1.4	5.7	497	497	0	0
9999	BASIN	0	15.9	0	0		

Average Basin Elevation:	130
Basin Area (ac.):	15.9
Effective Modeling Area (ac.):	15.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Middle Chester Creek Current Conditions

Drainage Basin ID: 12

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	24.2	1027	1027	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	7.3	9.6	1417	294	136	206
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	23.5	26940	38	176	398
475	DIRT	0.1	3.0	3568	37	174	214
500	PARKING	2.1	5.5	745	321	129	223
600	DCI	3.0	18.4	9404	85	126	220
700	BARREN	3.3	12.8	6176	90	128	232
825	UPLAND	3.9	34.7	4216	358	137	235
875	LANDSCAPED	4.3	52.5	8316	275	127	235
900	ICI	2.9	2.8	1859	66	153	228
9999	BASIN	0.0	186.9	0	0	187	0

Average Basin Elevation:	187
Basin Area (ac.):	186.9
Effective Modeling Area (ac.):	162.7
Basin Area Not Modeled (ac.):	24.2
Basin % Not Modeled:	12.96

Road Type Summary		as % of total roads
TYPE 1 (36ft)	14581	49.3%
TYPE 2 (50 ft)	1558	7.3%
TYPE 3 (60 ft)	122	0.7%
TYPE 4 (72 ft)	6309	42.7%

Rainfall Factor:	1.15
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Middle Chester Creek Predevelopment Conditions

Drainage Basin ID: 12

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	4.7	44.5	2649	732	0	0
825	UPLAND	3.4	142.4	2575	2409	0	0
9999	BASIN	0	186.9	0	0		

Average Basin Elevation:	187
Basin Area (ac.):	186.9
Effective Modeling Area (ac.):	186.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.15
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Middle Chester Creek Current Conditions

Drainage Basin ID: 13

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.8	185	185	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	2.0	2.9	590	214	132	142
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.0	1224	36	144	288
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	2.4	3.0	362	362	128	139
600	DCI	1.8	1.1	247	193	132	138
700	BARREN	1.7	0.3	219	56	138	143
825	UPLAND	1.9	2.0	543	164	132	144
875	LANDSCAPED	2.0	0.3	241	57	127	144
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	11.4	0	0	137	0

Average Basin Elevation:	137
Basin Area (ac.):	11.4
Effective Modeling Area (ac.):	10.6
Basin Area Not Modeled (ac.):	0.8
Basin % Not Modeled:	6.85

Road Type Summary	as % of total roads
TYPE 1 (36ft)	976 100.0%
TYPE 2 (50 ft)	0 0.0%
TYPE 3 (60 ft)	0 0.0%
TYPE 4 (72 ft)	0 0.0%

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Middle Chester Creek Predevelopment Conditions

Drainage Basin ID: 13

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.1	11.4	706	706	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	11.4	0	0		

Average Basin Elevation:	137
Basin Area (ac.):	11.4
Effective Modeling Area (ac.):	11.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Middle Chester Creek Current Conditions

Drainage Basin ID: 14

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.4	130	130	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	6.2	7.6	575	575	96	142
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	0.0	0.1	207	20	0	0
700	BARREN	3.3	0.1	129	27	120	133
825	UPLAND	4.0	3.7	413	385	114	133
875	LANDSCAPED	2.0	0.1	72	72	132	133
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	11.9	0	0	120	0

Average Basin Elevation:	120
Basin Area (ac.):	11.9
Effective Modeling Area (ac.):	11.5
Basin Area Not Modeled (ac.):	0.4
Basin % Not Modeled:	3.25

Road Type Summary	as % of total roads	
TYPE 1 (36ft)	0	#DIV/0!
TYPE 2 (50 ft)	0	#DIV/0!
TYPE 3 (60 ft)	0	#DIV/0!
TYPE 4 (72 ft)	0	#DIV/0!

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Middle Chester Creek Predevelopment Conditions

Drainage Basin ID: 14

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	5.4	11.7	715	715	0	0
825	UPLAND	4.0	0.2	89	89	0	0
9999	BASIN	0	11.9	0	0		

Average Basin Elevation:	120
Basin Area (ac.):	11.9
Effective Modeling Area (ac.):	11.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Middle Chester Creek Current Conditions

Drainage Basin ID: 15

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.6	159	159	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	4.5	11.2	756	644	115	151
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.1	765	62	117	266
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	11.8	0.3	169	67	118	127
700	BARREN	3.5	0.2	211	34	120	127
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	3.1	1.8	364	221	120	139
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	15.1	0	0	124	0

Average Basin Elevation:	124
Basin Area (ac.):	15.1
Effective Modeling Area (ac.):	14.5
Basin Area Not Modeled (ac.):	0.6
Basin % Not Modeled:	3.82

Road Type Summary		as % of total roads
TYPE 1 (36ft)	357	27.4%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	0	0.0%
TYPE 4 (72 ft)	472	72.6%

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Middle Chester Creek Predevelopment Conditions

Drainage Basin ID: 15

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	5.0	14.4	793	793	0	0
825	UPLAND	1.8	0.7	184	161	0	0
9999	BASIN	0	15.1	0	0		

Average Basin Elevation:	124
Basin Area (ac.):	15.1
Effective Modeling Area (ac.):	15.1
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Middle Chester Creek Current Conditions

Drainage Basin ID: 16

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.8	284	284	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	7.8	1.4	355	166	166	193
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.3	1300	42	169	179
475	DIRT	0.1	1.4	1558	40	171	195
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	3.2	1.2	1584	32	170	180
700	BARREN	4.5	0.5	675	34	169	189
825	UPLAND	3.7	0.2	130	51	175	188
875	LANDSCAPED	4.8	2.4	960	109	169	199
900	ICI	6.5	0.1	128	39	176	183
9999	BASIN	0.0	10.3	0	0	178	0

Average Basin Elevation:	178
Basin Area (ac.):	10.3
Effective Modeling Area (ac.):	8.4
Basin Area Not Modeled (ac.):	1.8
Basin % Not Modeled:	18.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1744	60.1%
TYPE 2 (50 ft)	833	39.9%
TYPE 3 (60 ft)	0	0.0%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	1.15
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Middle Chester Creek Predevelopment Conditions

Drainage Basin ID: 16

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	4.8	6.4	528	528	0	0
825	UPLAND	5.8	3.9	410	410	0	0
9999	BASIN	0	10.3	0	0		

Average Basin Elevation:	178
Basin Area (ac.):	10.3
Effective Modeling Area (ac.):	10.3
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.15
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Middle Chester Creek Current Conditions

Drainage Basin ID: 17

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.9	202	202	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	3.5	2.9	489	255	133	154
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.1	1173	40	145	299
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	1.9	0.1	76	76	132	134
600	DCI	2.4	0.1	178	36	133	153
700	BARREN	2.6	0.1	159	33	133	149
825	UPLAND	3.5	1.7	362	202	134	156
875	LANDSCAPED	2.3	0.2	194	37	132	154
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	7.1	0	0	143	0

Average Basin Elevation:	143
Basin Area (ac.):	7.1
Effective Modeling Area (ac.):	6.2
Basin Area Not Modeled (ac.):	0.9
Basin % Not Modeled:	13.16

Road Type Summary		as % of total roads
TYPE 1 (36ft)	930	84.5%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	102	15.5%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	1.10
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Middle Chester Creek Predevelopment Conditions

Drainage Basin ID: 17

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.4	7.1	557	557	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	7.1	0	0		

Average Basin Elevation:	143
Basin Area (ac.):	7.1
Effective Modeling Area (ac.):	7.1
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.10
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Middle Chester Creek Current Conditions

Drainage Basin ID: 18

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.7	179	179	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	8.6	11.5	738	679	96	154
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.7	1722	44	128	167
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	17.2	0.8	1475	25	129	145
700	BARREN	14.5	1.6	1487	47	135	167
825	UPLAND	14.5	5.7	544	457	117	169
875	LANDSCAPED	10.8	2.7	521	223	132	163
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	24.8	0	0	135	0

Average Basin Elevation:	135
Basin Area (ac.):	24.8
Effective Modeling Area (ac.):	24.1
Basin Area Not Modeled (ac.):	0.7
Basin % Not Modeled:	2.95

Road Type Summary		as % of total roads
TYPE 1 (36ft)	876	44.8%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	0	0.0%
TYPE 4 (72 ft)	539	55.2%

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Middle Chester Creek Predevelopment Conditions

Drainage Basin ID: 18

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	8.8	11.7	714	714	0	0
825	UPLAND	13.2	13.1	755	755	0	0
9999	BASIN	0	24.8	0	0		

Average Basin Elevation:	135
Basin Area (ac.):	24.8
Effective Modeling Area (ac.):	24.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Middle Chester Creek Current Conditions

Drainage Basin ID: 19

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	6.5	533	533	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	5.6	120.2	2334	2244	128	216
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.2	302	34	153	289
475	DIRT	0.1	0.3	306	36	152	156
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.9	8.6	4130	91	149	156
700	BARREN	5.6	7.7	4133	81	139	273
825	UPLAND	2.3	0.4	213	80	149	200
875	LANDSCAPED	8.0	129.0	3744	1501	130	284
900	ICI	5.8	4.8	1500	140	139	256
9999	BASIN	0.0	299.1	0	0	178	0

Average Basin Elevation:	178
Basin Area (ac.):	299.1
Effective Modeling Area (ac.):	271.3
Basin Area Not Modeled (ac.):	6.5
Basin % Not Modeled:	2.18

Road Type Summary	as % of total roads
TYPE 1 (36ft)	526 100.0%
TYPE 2 (50 ft)	0 0.0%
TYPE 3 (60 ft)	0 0.0%
TYPE 4 (72 ft)	0 0.0%

Rainfall Factor:	1.10
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Middle Chester Creek Predevelopment Conditions

Drainage Basin ID: 19

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	6	21	1071	854	0	0
200	WETLAND	5.0	135.1	2467	2386	0	0
825	UPLAND	7.9	143.0	3748	1662	0	0
9999	BASIN	0	299.1	0	0		

Average Basin Elevation:	178
Basin Area (ac.):	299.1
Effective Modeling Area (ac.):	278.2
Basin Area Not Modeled (ac.):	21.0
Basin % Not Modeled:	7.016372785

Rainfall Factor:	1.10
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Middle Chester Creek Current Conditions

Drainage Basin ID: 20

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.2	100	100	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	2.5	0.9	220	171	158	170
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	0.0	4.8	795	261	0	0
700	BARREN	4.1	1.0	976	44	152	171
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	4.5	6.5	736	383	152	182
900	ICI	4.1	1.1	528	90	153	172
9999	BASIN	0.0	14.4	0	0	164	0

Average Basin Elevation:	164
Basin Area (ac.):	14.4
Effective Modeling Area (ac.):	14.2
Basin Area Not Modeled (ac.):	0.2
Basin % Not Modeled:	1.59

Road Type Summary	as % of total roads	
TYPE 1 (36ft)	0	#DIV/0!
TYPE 2 (50 ft)	0	#DIV/0!
TYPE 3 (60 ft)	0	#DIV/0!
TYPE 4 (72 ft)	0	#DIV/0!

Rainfall Factor:	1.10
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Middle Chester Creek Predevelopment Conditions

Drainage Basin ID: 20

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	4.1	8.7	624	605	0	0
825	UPLAND	4.6	5.7	499	499	0	0
9999	BASIN	0	14.4	0	0		

Average Basin Elevation:	164
Basin Area (ac.):	14.4
Effective Modeling Area (ac.):	14.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.10
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - North Chester Creek Current Conditions

Drainage Basin ID: 1

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.3	108	108	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.3	1434	40	97	192
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.5	2.9	3153	40	82	96
700	BARREN	2.3	1.1	1177	40	81	96
825	UPLAND	2.5	1.3	471	124	80	97
875	LANDSCAPED	2.5	1.2	864	58	80	97
900	ICI	3.0	0.0	45	45	88	90
9999	BASIN	0.0	8.5	0	0	92	0

Average Basin Elevation:	92
Basin Area (ac.):	8.5
Effective Modeling Area (ac.):	7.8
Basin Area Not Modeled (ac.):	0.3
Basin % Not Modeled:	3.18

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1288	84%
TYPE 2 (50 ft)	183	16%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - North Chester Creek Predevelopment Conditions

Drainage Basin ID: 1

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.7	1.6	262	262	0	0
825	UPLAND	2.4	6.5	530	530	0	0
9999	BASIN	0	8.0	0	0		

Average Basin Elevation:	88
Basin Area (ac.):	8.0
Effective Modeling Area (ac.):	8.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - North Chester Creek Current Conditions

Drainage Basin ID: 2

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	2.7	0.2	90	90	82	85
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.6	2838	40	84	93
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	9.3	0.1	172	20	90	93
700	BARREN	6.0	1.8	552	138	83	103
825	UPLAND	3.4	0.6	298	83	83	88
875	LANDSCAPED	6.2	3.3	483	299	83	107
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	8.5	0	0	92	0

Average Basin Elevation:	92
Basin Area (ac.):	8.5
Effective Modeling Area (ac.):	8.5
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	0	0%
TYPE 2 (50 ft)	75	4%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	1401	96%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - North Chester Creek Predevelopment Conditions

Drainage Basin ID: 2

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	5.9	8.5	607	607	0	0
825	UPLAND	5.4	0.0	11	11	0	0
9999	BASIN	0	8.5	0	0		

Average Basin Elevation:	92
Basin Area (ac.):	8.5
Effective Modeling Area (ac.):	8.5
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - North Chester Creek Current Conditions

Drainage Basin ID: 3

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.5	253	253	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	3.0	1.9	291	291	89	96
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.2	1262	40	93	194
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.8	2.8	2003	60	82	106
700	BARREN	2.3	6.2	643	420	81	109
825	UPLAND	2.7	6.3	1106	248	82	110
875	LANDSCAPED	2.7	2.2	646	147	83	110
900	ICI	2.0	0.4	409	44	83	108
9999	BASIN	0.0	22.6	0	0	89	0

Average Basin Elevation:	89
Basin Area (ac.):	22.6
Effective Modeling Area (ac.):	21.0
Basin Area Not Modeled (ac.):	1.5
Basin % Not Modeled:	6.52

Road Type Summary		as % of total roads
TYPE 1 (36ft)	441	29%
TYPE 2 (50 ft)	794	71%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - North Chester Creek Predevelopment Conditions

Drainage Basin ID: 3

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.6	17.7	877	877	0	0
825	UPLAND	3.4	4.9	463	463	0	0
9999	BASIN	0	22.6	0	0		

Average Basin Elevation:	89
Basin Area (ac.):	22.6
Effective Modeling Area (ac.):	22.6
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - North Chester Creek Current Conditions

Drainage Basin ID: 4

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.4	131	131	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.6	1787	40	82	107
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.6	3.5	3441	44	83	111
700	BARREN	2.9	0.7	867	35	83	111
825	UPLAND	3.5	1.1	549	89	89	113
875	LANDSCAPED	2.4	1.8	1011	76	82	108
900	ICI	1.2	0.1	126	48	83	89
9999	BASIN	0.0	9.2	0	0	93	0

Average Basin Elevation:	93
Basin Area (ac.):	9.2
Effective Modeling Area (ac.):	8.8
Basin Area Not Modeled (ac.):	0.4
Basin % Not Modeled:	4.24

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1492	77%
TYPE 2 (50 ft)	313	23%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - North Chester Creek Predevelopment Conditions

Drainage Basin ID: 4

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
825	UPLAND	2.8	9.2	634	634	0	0
9999	BASIN	0	9.2	0	0		

Average Basin Elevation:	93
Basin Area (ac.):	9.2
Effective Modeling Area (ac.):	9.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - North Chester Creek Current Conditions

Drainage Basin ID: 5

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.9	194	194	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	2.3	0.7	176	176	86	90
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	4.6	2260	88	86	220
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	5.6	7.9	6081	57	84	134
700	BARREN	6.4	3.4	2917	51	84	137
825	UPLAND	5.8	3.5	1591	95	84	138
875	LANDSCAPED	6.4	4.1	2458	72	84	138
900	ICI	5.0	0.1	60	37	99	115
9999	BASIN	0.0	25.0	0	0	103	0

Average Basin Elevation:	103
Basin Area (ac.):	25.0
Effective Modeling Area (ac.):	24.2
Basin Area Not Modeled (ac.):	0.9
Basin % Not Modeled:	3.46

Road Type Summary		as % of total roads
TYPE 1 (36ft)	4702	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - North Chester Creek Predevelopment Conditions

Drainage Basin ID: 5

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.7	7.6	575	575	0	0
825	UPLAND	6.6	17.4	872	872	0	0
9999	BASIN	0	25.0	0	0		

Average Basin Elevation:	103
Basin Area (ac.):	25.0
Effective Modeling Area (ac.):	25.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - North Chester Creek Current Conditions

Drainage Basin ID: 6

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	62.3	1647	1647	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	2.7	2.9	359	348	92	131
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	151.6	78601	84	124	772
475	DIRT	0.1	1.3	761	72	137	157
500	PARKING	2.1	106.0	5678	813	99	193
600	DCI	2.5	231.4	51429	196	91	197
700	BARREN	2.4	107.5	23677	198	86	196
825	UPLAND	2.7	69.2	7374	409	87	193
875	LANDSCAPED	2.2	202.1	42674	206	89	198
900	ICI	2.6	14.3	4519	138	99	186
9999	BASIN	0.0	948.5	0	0	136	0

Average Basin Elevation:	136
Basin Area (ac.):	948.5
Effective Modeling Area (ac.):	886.2
Basin Area Not Modeled (ac.):	62.3
Basin % Not Modeled:	6.57

Road Type Summary		as % of total roads
TYPE 1 (36ft)	110402	61%
TYPE 2 (50 ft)	10537	8%
TYPE 3 (60 ft)	17625	16%
TYPE 4 (72 ft)	13303	15%

Rainfall Factor:	1.00
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - North Chester Creek Predevelopment Conditions

Drainage Basin ID: 6

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.5	433.4	4975	3795	0	0
825	UPLAND	2.2	576.1	7090	3540	0	0
9999	BASIN	0	1009.5	0	0		

Average Basin Elevation:	140
Basin Area (ac.):	1009.5
Effective Modeling Area (ac.):	1009.5
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.00
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 1

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	39.7	1315	1315	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	34.9	42195	36	0	0
475	DIRT	0.1	6.5	7830	36	0	0
500	PARKING	2.5	16.1	2645	265	0	0
600	DCI	2.4	52.5	29309	78	0	0
700	BARREN	2.9	19.6	15839	54	0	0
825	UPLAND	5.1	63.1	4065	676	0	0
875	LANDSCAPED	3.0	72.2	17472	180	0	0
900	ICI	3.8	8.7	3780	100	0	0
9999	BASIN	0.0	315.6	0	0	269	0

Average Basin Elevation:	269
Basin Area (ac.):	315.6
Effective Modeling Area (ac.):	273.5
Basin Area Not Modeled (ac.):	39.7
Basin % Not Modeled:	12.58

Road Type Summary		as % of total roads
TYPE 1 (36ft)	34398	71%
TYPE 2 (50 ft)	2044	6%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	5576	23%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 1

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.2	5.2	518	435	0	0
825	UPLAND	3.4	310.4	3677	3677	0	0
9999	BASIN	0	315.6	0	0		

Average Basin Elevation:	269
Basin Area (ac.):	315.6
Effective Modeling Area (ac.):	315.6
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 2

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	81.0	1879	1879	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	108.6	125102	38	0	0
475	DIRT	0.1	12.0	14967	35	0	0
500	PARKING	2.2	59.8	4686	556	0	0
600	DCI	2.1	127.5	43653	127	0	0
700	BARREN	2.6	50.6	42511	52	0	0
825	UPLAND	6.2	114.9	10627	471	0	0
875	LANDSCAPED	2.8	225.3	39786	247	0	0
900	ICI	2.4	7.9	4041	85	0	0
9999	BASIN	0.0	787.6	0	0	225	0

Average Basin Elevation:	225
Basin Area (ac.):	787.6
Effective Modeling Area (ac.):	706.6
Basin Area Not Modeled (ac.):	81.0
Basin % Not Modeled:	10.29

Road Type Summary		as % of total roads
TYPE 1 (36ft)	95263	71%
TYPE 2 (50 ft)	9324	10%
TYPE 3 (60 ft)	4346	5%
TYPE 4 (72 ft)	9478	14%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 2

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.0	41.9	2149	849	0	0
825	UPLAND	3.3	745.7	5699	5699	0	0
9999	BASIN	0	787.6	0	0		

Average Basin Elevation:	225
Basin Area (ac.):	787.6
Effective Modeling Area (ac.):	787.6
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 3

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	4.3	431	431	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	4.7	5663	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	5.4	3.3	4081	36	0	0
700	BARREN	6.8	2.9	1507	83	0	0
825	UPLAND	7.9	2.0	493	173	0	0
875	LANDSCAPED	5.7	10.9	2702	175	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	28.4	0	0	301	0

Average Basin Elevation:	301
Basin Area (ac.):	28.4
Effective Modeling Area (ac.):	23.7
Basin Area Not Modeled (ac.):	4.3
Basin % Not Modeled:	15.03

Road Type Summary		as % of total roads
TYPE 1 (36ft)	5325	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 3

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
825	UPLAND	6.0	28.4	1112	1112	0	0
9999	BASIN	0	28.4	0	0		

Average Basin Elevation:	301
Basin Area (ac.):	28.4
Effective Modeling Area (ac.):	28.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 4

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.9	290	290	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.9	2281	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	5.0	1.6	1799	39	0	0
700	BARREN	4.9	0.7	799	37	0	0
825	UPLAND	6.5	0.9	319	130	0	0
875	LANDSCAPED	5.0	5.1	1167	190	0	0
900	ICI	3.4	0.0	23	23	0	0
9999	BASIN	0.0	12.1	0	0	282	0

Average Basin Elevation:	282
Basin Area (ac.):	12.1
Effective Modeling Area (ac.):	10.2
Basin Area Not Modeled (ac.):	1.9
Basin % Not Modeled:	15.94

Road Type Summary		as % of total roads
TYPE 1 (36ft)	2028	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 4

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
825	UPLAND	5.1	12.1	727	727	0	0
9999	BASIN	0	12.1	0	0		

Average Basin Elevation:	282
Basin Area (ac.):	12.1
Effective Modeling Area (ac.):	12.1
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 5

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	11.8	716	716	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	14.6	16032	40	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	2.7	7.2	667	473	0	0
600	DCI	2.8	12.7	6465	85	0	0
700	BARREN	3.6	4.7	5598	37	0	0
825	UPLAND	3.2	7.1	1610	191	0	0
875	LANDSCAPED	3.7	24.1	4410	238	0	0
900	ICI	3.2	0.1	159	34	0	0
9999	BASIN	0.0	82.6	0	0	279	0

Average Basin Elevation:	279
Basin Area (ac.):	82.6
Effective Modeling Area (ac.):	70.5
Basin Area Not Modeled (ac.):	11.8
Basin % Not Modeled:	14.23

Road Type Summary		as % of total roads
TYPE 1 (36ft)	12730	77%
TYPE 2 (50 ft)	332	3%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	1719	21%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 5

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.6	3.7	565	283	0	0
825	UPLAND	3.5	78.9	1854	1854	0	0
9999	BASIN	0	82.6	0	0		

Average Basin Elevation:	279
Basin Area (ac.):	82.6
Effective Modeling Area (ac.):	82.6
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 6

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.5	150	150	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	3.1	1.7	460	162	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.4	1275	48	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.5	0.3	266	43	0	0
700	BARREN	2.0	2.7	565	205	0	0
825	UPLAND	2.7	0.3	150	81	0	0
875	LANDSCAPED	2.7	14.9	855	761	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	22.0	0	0	282	0

Average Basin Elevation:	282
Basin Area (ac.):	22.0
Effective Modeling Area (ac.):	21.2
Basin Area Not Modeled (ac.):	0.5
Basin % Not Modeled:	2.34

Road Type Summary		as % of total roads
TYPE 1 (36ft)	27	2%
TYPE 2 (50 ft)	952	98%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 6

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.6	21.3	964	964	0	0
825	UPLAND	1.7	0.6	199	136	0	0
9999	BASIN	0	22.0	0	0		

Average Basin Elevation:	282
Basin Area (ac.):	22.0
Effective Modeling Area (ac.):	22.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 7

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.6	156	156	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.0	9	37	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	3.2	0.4	575	28	0	0
700	BARREN	3.4	0.2	146	51	0	0
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	3.9	2.2	328	298	0	0
900	ICI	3.4	0.1	92	40	0	0
9999	BASIN	0.0	3.4	0	0	261	0

Average Basin Elevation:	261
Basin Area (ac.):	3.4
Effective Modeling Area (ac.):	2.9
Basin Area Not Modeled (ac.):	0.6
Basin % Not Modeled:	16.33

Road Type Summary		as % of total roads
TYPE 1 (36ft)	0	#DIV/0!
TYPE 2 (50 ft)	0	#DIV/0!
TYPE 3 (60 ft)	0	#DIV/0!
TYPE 4 (72 ft)	0	#DIV/0!

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 7

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.8	1.7	269	269	0	0
825	UPLAND	3.6	1.8	279	279	0	0
9999	BASIN	0	3.4	0	0		

Average Basin Elevation:	261
Basin Area (ac.):	3.4
Effective Modeling Area (ac.):	3.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 8

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	2.1	303	303	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	1.5	0.3	150	77	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	12.9	13509	42	0	0
475	DIRT	0.1	0.4	513	36	0	0
500	PARKING	4.8	2.7	718	164	0	0
600	DCI	3.3	8.2	4033	89	0	0
700	BARREN	3.4	5.1	2061	108	0	0
825	UPLAND	3.7	4.1	1355	130	0	0
875	LANDSCAPED	4.6	9.5	2275	182	0	0
900	ICI	3.4	0.4	360	48	0	0
9999	BASIN	0.0	45.8	0	0	286	0

Average Basin Elevation:	286
Basin Area (ac.):	45.8
Effective Modeling Area (ac.):	43.6
Basin Area Not Modeled (ac.):	2.1
Basin % Not Modeled:	4.61

Road Type Summary		as % of total roads
TYPE 1 (36ft)	3359	21%
TYPE 2 (50 ft)	95	1%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	6272	78%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 8

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.0	3.2	374	374	0	0
825	UPLAND	4.0	42.6	1728	1073	0	0
9999	BASIN	0	45.8	0	0		

Average Basin Elevation:	286
Basin Area (ac.):	45.8
Effective Modeling Area (ac.):	45.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 9

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	15.1	810	810	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	19.8	22698	38	0	0
475	DIRT	0.1	0.3	377	36	0	0
500	PARKING	1.1	1.7	273	273	0	0
600	DCI	2.4	16.8	14197	52	0	0
700	BARREN	2.7	5.5	6883	35	0	0
825	UPLAND	8.9	3.5	556	274	0	0
875	LANDSCAPED	2.3	45.1	6929	283	0	0
900	ICI	2.8	0.6	661	40	0	0
9999	BASIN	0.0	108.1	0	0	228	0

Average Basin Elevation:	228
Basin Area (ac.):	108.1
Effective Modeling Area (ac.):	93.3
Basin Area Not Modeled (ac.):	15.1
Basin % Not Modeled:	13.94

Road Type Summary		as % of total roads
TYPE 1 (36ft)	15286	69%
TYPE 2 (50 ft)	4835	31%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 9

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
825	UPLAND	2.6	108.1	2170	2170	0	0
9999	BASIN	0	108.1	0	0		

Average Basin Elevation:	228
Basin Area (ac.):	108.1
Effective Modeling Area (ac.):	108.1
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 10

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.6	262	262	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	6.2	7497	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	1.6	5.6	4817	51	0	0
700	BARREN	1.7	3.6	2317	68	0	0
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	1.6	14.2	2695	229	0	0
900	ICI	1.7	0.1	126	33	0	0
9999	BASIN	0.0	31.2	0	0	239	0

Average Basin Elevation:	239
Basin Area (ac.):	31.2
Effective Modeling Area (ac.):	29.7
Basin Area Not Modeled (ac.):	1.6
Basin % Not Modeled:	5.05

Road Type Summary		as % of total roads
TYPE 1 (36ft)	7085	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 10

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
825	UPLAND	1.6	31.2	1166	1166	0	0
9999	BASIN	0	31.2	0	0		

Average Basin Elevation:	239
Basin Area (ac.):	31.2
Effective Modeling Area (ac.):	31.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 11

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.3	117	117	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	3.9	1.2	405	127	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.0	57	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.2	0.2	235	31	0	0
700	BARREN	2.8	0.1	163	25	0	0
825	UPLAND	4.1	1.1	283	164	0	0
875	LANDSCAPED	3.1	1.1	296	161	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	3.9	0	0	281	0

Average Basin Elevation:	281
Basin Area (ac.):	3.9
Effective Modeling Area (ac.):	3.6
Basin Area Not Modeled (ac.):	0.3
Basin % Not Modeled:	7.94

Road Type Summary		as % of total roads
TYPE 1 (36ft)	56	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 11

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.6	3.9	414	414	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	3.9	0	0		

Average Basin Elevation:	281
Basin Area (ac.):	3.9
Effective Modeling Area (ac.):	3.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 12

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.9	197	197	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.2	1473	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.6	2.2	1218	79	0	0
700	BARREN	2.4	0.6	518	51	0	0
825	UPLAND	2.3	0.4	208	80	0	0
875	LANDSCAPED	2.6	3.0	993	133	0	0
900	ICI	2.0	0.0	23	23	0	0
9999	BASIN	0.0	8.3	0	0	272	0

Average Basin Elevation:	272
Basin Area (ac.):	8.3
Effective Modeling Area (ac.):	7.5
Basin Area Not Modeled (ac.):	0.9
Basin % Not Modeled:	10.70

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1381	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 12

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.3	6.8	545	545	0	0
825	UPLAND	3.2	1.5	256	256	0	0
9999	BASIN	0	8.3	0	0		

Average Basin Elevation:	272
Basin Area (ac.):	8.3
Effective Modeling Area (ac.):	8.3
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 13

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	6.6	537	537	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	8.4	10156	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.0	11.3	3619	136	0	0
700	BARREN	2.0	7.7	1876	179	0	0
825	UPLAND	2.6	3.8	821	200	0	0
875	LANDSCAPED	2.4	24.1	3765	279	0	0
900	ICI	2.0	0.5	411	55	0	0
9999	BASIN	0.0	62.3	0	0	295	0

Average Basin Elevation:	295
Basin Area (ac.):	62.3
Effective Modeling Area (ac.):	55.9
Basin Area Not Modeled (ac.):	6.6
Basin % Not Modeled:	10.60

Road Type Summary		as % of total roads
TYPE 1 (36ft)	9130	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 13

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.2	54.9	1546	1546	0	0
825	UPLAND	2.8	7.4	693	468	0	0
9999	BASIN	0	62.3	0	0		

Average Basin Elevation:	295
Basin Area (ac.):	62.3
Effective Modeling Area (ac.):	62.3
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 14

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	50.8	1488	1488	0	0
100	WATER	3.3	1.9	290	290	0	0
200	WETLAND	1.6	58.4	2564	993	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	60.4	72930	36	0	0
475	DIRT	0.1	6.0	6643	39	0	0
500	PARKING	2.1	8.9	707	546	0	0
600	DCI	2.1	53.6	40396	58	0	0
700	BARREN	2.9	44.2	14668	131	0	0
825	UPLAND	5.5	227.1	4111	2407	0	0
875	LANDSCAPED	2.2	138.7	23063	262	0	0
900	ICI	1.8	9.7	4720	89	0	0
9999	BASIN	0.0	662.6	0	0	344	0

Average Basin Elevation:	344
Basin Area (ac.):	662.6
Effective Modeling Area (ac.):	606.9
Basin Area Not Modeled (ac.):	52.7
Basin % Not Modeled:	7.96

Road Type Summary	as % of total roads
TYPE 1 (36ft)	62435 86%
TYPE 2 (50 ft)	3519 7%
TYPE 3 (60 ft)	0 0%
TYPE 4 (72 ft)	2606 7%

Rainfall Factor:	1.6
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 14

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.0	378.0	4099	4016	0	0
825	UPLAND	5.1	284.6	4248	2918	0	0
9999	BASIN	0	662.6	0	0		

Average Basin Elevation:	344
Basin Area (ac.):	662.6
Effective Modeling Area (ac.):	662.6
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.6
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 15

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.5	151	151	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.0	1231	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	1.5	0.8	1288	27	0	0
700	BARREN	1.4	0.4	560	28	0	0
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	1.3	4.0	653	266	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	6.7	0	0	237	0

Average Basin Elevation:	237
Basin Area (ac.):	6.7
Effective Modeling Area (ac.):	6.2
Basin Area Not Modeled (ac.):	0.5
Basin % Not Modeled:	7.80

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1139	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 15

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.3	0.3	121	121	0	0
825	UPLAND	1.3	6.4	526	526	0	0
9999	BASIN	0	6.7	0	0		

Average Basin Elevation:	237
Basin Area (ac.):	6.7
Effective Modeling Area (ac.):	6.7
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 16

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	20.6	948	948	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	1.2	2.7	342	342	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	12.6	15305	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	6.3	0.7	171	171	0	0
600	DCI	4.0	15.5	11913	57	0	0
700	BARREN	4.2	6.0	5232	50	0	0
825	UPLAND	4.3	11.7	2031	250	0	0
875	LANDSCAPED	3.8	39.7	6501	266	0	0
900	ICI	3.9	4.8	1571	133	0	0
9999	BASIN	0.0	114.2	0	0	263	0

Average Basin Elevation:	263
Basin Area (ac.):	114.2
Effective Modeling Area (ac.):	93.6
Basin Area Not Modeled (ac.):	20.6
Basin % Not Modeled:	18.06

Road Type Summary		as % of total roads
TYPE 1 (36ft)	11080	83%
TYPE 2 (50 ft)	1674	17%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 16

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.6	48.0	1807	1157	0	0
825	UPLAND	4.3	66.3	1699	1699	0	0
9999	BASIN	0	114.2	0	0		

Average Basin Elevation:	263
Basin Area (ac.):	114.2
Effective Modeling Area (ac.):	114.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 17

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	7.1	557	557	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	8.5	9691	38	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.6	8.3	3594	101	0	0
700	BARREN	3.3	2.0	2514	35	0	0
825	UPLAND	6.6	4.6	848	235	0	0
875	LANDSCAPED	3.2	26.5	3624	319	0	0
900	ICI	2.3	0.4	249	62	0	0
9999	BASIN	0.0	57.5	0	0	243	0

Average Basin Elevation:	243
Basin Area (ac.):	57.5
Effective Modeling Area (ac.):	50.2
Basin Area Not Modeled (ac.):	7.1
Basin % Not Modeled:	12.36

Road Type Summary		as % of total roads
TYPE 1 (36ft)	6701	72%
TYPE 2 (50 ft)	1883	28%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 17

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.3	18.3	893	893	0	0
825	UPLAND	4.5	39.2	1500	1139	0	0
9999	BASIN	0	57.5	0	0		

Average Basin Elevation:	243
Basin Area (ac.):	57.5
Effective Modeling Area (ac.):	57.5
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 18

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	6.0	509	509	0	0
100	WATER	34.0	22.3	985	985	0	0
200	WETLAND	40.1	1.9	545	152	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.2	53	173	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	6.7	2.0	1526	57	0	0
700	BARREN	7.4	1.0	1034	43	0	0
825	UPLAND	9.8	4.7	457	450	0	0
875	LANDSCAPED	16.9	15.0	1328	492	0	0
900	ICI	5.4	0.3	200	71	0	0
9999	BASIN	0.0	53.4	0	0	224	0

Average Basin Elevation:	224
Basin Area (ac.):	53.4
Effective Modeling Area (ac.):	25.2
Basin Area Not Modeled (ac.):	28.2
Basin % Not Modeled:	52.88

Road Type Summary	as % of total roads	
TYPE 1 (36ft)	0	#DIV/0!
TYPE 2 (50 ft)	0	#DIV/0!
TYPE 3 (60 ft)	0	#DIV/0!
TYPE 4 (72 ft)	0	#DIV/0!

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 18

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
825	UPLAND	9.7	53.4	1525	1525	0	0
9999	BASIN	0	53.4	0	0		

Average Basin Elevation:	224
Basin Area (ac.):	53.4
Effective Modeling Area (ac.):	53.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 19

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.7	270	270	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.2	287	36	0	0
475	DIRT	0.1	0.6	713	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	6.6	0.5	904	23	0	0
700	BARREN	6.9	0.2	310	31	0	0
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	7.1	3.5	763	197	0	0
900	ICI	6.3	0.1	81	30	0	0
9999	BASIN	0.0	6.8	0	0	242	0

Average Basin Elevation:	242
Basin Area (ac.):	6.8
Effective Modeling Area (ac.):	5.0
Basin Area Not Modeled (ac.):	1.7
Basin % Not Modeled:	24.68

Road Type Summary		as % of total roads
TYPE 1 (36ft)	862	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 19

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
825	UPLAND	7.7	6.8	543	543	0	0
9999	BASIN	0	6.8	0	0		

Average Basin Elevation:	242
Basin Area (ac.):	6.8
Effective Modeling Area (ac.):	6.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 20

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.6	267	267	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	5.9	5.8	503	503	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.3	54	216	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	4.3	0.0	125	15	0	0
700	BARREN	3.0	0.0	63	22	0	0
825	UPLAND	15.5	5.5	491	491	0	0
875	LANDSCAPED	6.6	4.1	913	195	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	17.4	0	0	252	0

Average Basin Elevation:	252
Basin Area (ac.):	17.4
Effective Modeling Area (ac.):	15.8
Basin Area Not Modeled (ac.):	1.6
Basin % Not Modeled:	9.40

Road Type Summary		as % of total roads
TYPE 1 (36ft)	0	#DIV/0!
TYPE 2 (50 ft)	0	#DIV/0!
TYPE 3 (60 ft)	0	#DIV/0!
TYPE 4 (72 ft)	0	#DIV/0!

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 20

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	5.5	9.0	625	625	0	0
825	UPLAND	13.6	8.4	606	606	0	0
9999	BASIN	0	17.4	0	0		

Average Basin Elevation:	252
Basin Area (ac.):	17.4
Effective Modeling Area (ac.):	17.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 21

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	3.3	381	381	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	3.3	4032	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.7	4.4	5128	38	0	0
700	BARREN	3.0	1.1	1541	31	0	0
825	UPLAND	1.7	1.5	325	195	0	0
875	LANDSCAPED	3.1	12.0	2431	215	0	0
900	ICI	1.8	0.2	234	29	0	0
9999	BASIN	0.0	25.8	0	0	232	0

Average Basin Elevation:	232
Basin Area (ac.):	25.8
Effective Modeling Area (ac.):	22.4
Basin Area Not Modeled (ac.):	3.3
Basin % Not Modeled:	12.89

Road Type Summary		as % of total roads
TYPE 1 (36ft)	3598	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 21

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.8	25.8	1060	1060	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	25.8	0	0		

Average Basin Elevation:	232
Basin Area (ac.):	25.8
Effective Modeling Area (ac.):	25.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 22

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.2	99	99	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.5	1579	42	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.7	0.2	291	28	0	0
700	BARREN	2.6	0.3	344	36	0	0
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	3.0	1.0	526	80	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	3.1	0	0	215	0

Average Basin Elevation:	215
Basin Area (ac.):	3.1
Effective Modeling Area (ac.):	3.0
Basin Area Not Modeled (ac.):	0.2
Basin % Not Modeled:	7.33

Road Type Summary		as % of total roads
TYPE 1 (36ft)	259	13%
TYPE 2 (50 ft)	1281	87%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 22

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.8	2.0	294	294	0	0
825	UPLAND	2.6	1.1	218	218	0	0
9999	BASIN	0	3.1	0	0		

Average Basin Elevation:	215
Basin Area (ac.):	3.1
Effective Modeling Area (ac.):	3.1
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 23

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	3.3	378	378	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.4	2958	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	3.5	2.3	2198	45	0	0
700	BARREN	2.7	0.6	814	34	0	0
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	4.3	7.4	2180	148	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	16.1	0	0	222	0

Average Basin Elevation:	222
Basin Area (ac.):	16.1
Effective Modeling Area (ac.):	12.8
Basin Area Not Modeled (ac.):	3.3
Basin % Not Modeled:	20.41

Road Type Summary		as % of total roads
TYPE 1 (36ft)	2723	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 23

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.5	12.8	748	748	0	0
825	UPLAND	7.2	3.2	374	374	0	0
9999	BASIN	0	16.1	0	0		

Average Basin Elevation:	222
Basin Area (ac.):	16.1
Effective Modeling Area (ac.):	16.1
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 24

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	22.2	984	984	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	2.0	2.3	497	201	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	29.0	35140	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	4.9	6.5	534	534	0	0
600	DCI	2.7	35.5	16411	94	0	0
700	BARREN	3.0	7.6	8813	37	0	0
825	UPLAND	2.1	7.7	1687	199	0	0
875	LANDSCAPED	3.4	64.9	9255	305	0	0
900	ICI	2.0	4.6	1371	145	0	0
9999	BASIN	0.0	180.2	0	0	247	0

Average Basin Elevation:	247
Basin Area (ac.):	180.2
Effective Modeling Area (ac.):	158.1
Basin Area Not Modeled (ac.):	22.2
Basin % Not Modeled:	12.33

Road Type Summary		as % of total roads
TYPE 1 (36ft)	19449	58%
TYPE 2 (50 ft)	1817	8%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	5720	34%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 24

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.2	126.9	3109	1778	0	0
825	UPLAND	6.4	53.3	1900	1221	0	0
9999	BASIN	0	180.2	0	0		

Average Basin Elevation:	247
Basin Area (ac.):	180.2
Effective Modeling Area (ac.):	180.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 25

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.1	47	47	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	5.5	10.6	679	679	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.0	48	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	12.6	0.4	589	26	0	0
700	BARREN	9.6	0.5	546	40	0	0
825	UPLAND	12.0	2.2	321	302	0	0
875	LANDSCAPED	0.0	0.0	0	0	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	13.7	0	0	117	0

Average Basin Elevation:	117
Basin Area (ac.):	13.7
Effective Modeling Area (ac.):	13.7
Basin Area Not Modeled (ac.):	0.1
Basin % Not Modeled:	0.37

Road Type Summary		as % of total roads
TYPE 1 (36ft)	66	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 25

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	5.5	10.6	681	681	0	0
825	UPLAND	11.8	3.1	368	368	0	0
9999	BASIN	0	13.7	0	0		

Average Basin Elevation:	117
Basin Area (ac.):	13.7
Effective Modeling Area (ac.):	13.7
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 26

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	4.8	456	456	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	3.8	4611	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	6.9	2.2	3383	28	0	0
700	BARREN	8.8	0.5	810	28	0	0
825	UPLAND	24.3	2.1	360	252	0	0
875	LANDSCAPED	9.0	11.0	2148	222	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	24.4	0	0	227	0

Average Basin Elevation:	227
Basin Area (ac.):	24.4
Effective Modeling Area (ac.):	19.5
Basin Area Not Modeled (ac.):	4.8
Basin % Not Modeled:	19.50

Road Type Summary		as % of total roads
TYPE 1 (36ft)	3998	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 26

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.1	8.0	592	592	0	0
825	UPLAND	12.1	16.4	892	800	0	0
9999	BASIN	0	24.4	0	0		

Average Basin Elevation:	227
Basin Area (ac.):	24.4
Effective Modeling Area (ac.):	24.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 27

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.6	260	260	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.4	1698	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	1.9	1.3	1783	31	0	0
700	BARREN	1.9	0.2	338	30	0	0
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	1.8	4.4	816	233	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	8.9	0	0	213	0

Average Basin Elevation:	213
Basin Area (ac.):	8.9
Effective Modeling Area (ac.):	7.3
Basin Area Not Modeled (ac.):	1.6
Basin % Not Modeled:	17.50

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1507	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 27

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.0	8.3	602	602	0	0
825	UPLAND	1.5	0.5	154	154	0	0
9999	BASIN	0	8.9	0	0		

Average Basin Elevation:	213
Basin Area (ac.):	8.9
Effective Modeling Area (ac.):	8.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 28

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	4.6	8.6	695	540	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.3	330	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	4.4	0.1	151	27	0	0
700	BARREN	5.1	0.1	121	41	0	0
825	UPLAND	4.0	0.4	164	107	0	0
875	LANDSCAPED	3.7	0.2	155	47	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	9.7	0	0	116	0

Average Basin Elevation:	116
Basin Area (ac.):	9.7
Effective Modeling Area (ac.):	9.7
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	352	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 28

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	4.5	8.8	621	621	0	0
825	UPLAND	4.2	0.8	192	192	0	0
9999	BASIN	0	9.7	0	0		

Average Basin Elevation:	116
Basin Area (ac.):	9.7
Effective Modeling Area (ac.):	9.7
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 29

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.9	291	291	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.0	29	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	1.9	9.6	869	483	0	0
700	BARREN	4.5	0.5	430	48	0	0
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	3.9	7.0	577	526	0	0
900	ICI	1.0	0.5	179	117	0	0
9999	BASIN	0.0	19.5	0	0	218	0

Average Basin Elevation:	218
Basin Area (ac.):	19.5
Effective Modeling Area (ac.):	17.6
Basin Area Not Modeled (ac.):	1.9
Basin % Not Modeled:	9.96

Road Type Summary		as % of total roads
TYPE 1 (36ft)	26	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 29

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.8	19.5	922	922	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	19.5	0	0		

Average Basin Elevation:	218
Basin Area (ac.):	19.5
Effective Modeling Area (ac.):	19.5
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 30

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.1	219	219	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	14.2	0.3	149	99	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	3.3	2795	52	0	0
475	DIRT	0.1	0.0	57	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	15.3	1.6	1292	55	0	0
700	BARREN	6.4	1.1	1043	44	0	0
825	UPLAND	23.3	0.9	259	155	0	0
875	LANDSCAPED	6.6	4.4	651	296	0	0
900	ICI	5.6	0.0	23	23	0	0
9999	BASIN	0.0	12.9	0	0	145	0

Average Basin Elevation:	145
Basin Area (ac.):	12.9
Effective Modeling Area (ac.):	11.8
Basin Area Not Modeled (ac.):	1.1
Basin % Not Modeled:	8.57

Road Type Summary		as % of total roads
TYPE 1 (36ft)	0	#DIV/0!
TYPE 2 (50 ft)	0	#DIV/0!
TYPE 3 (60 ft)	0	#DIV/0!
TYPE 4 (72 ft)	0	#DIV/0!

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 30

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	13.3	0.3	144	101	0	0
825	UPLAND	11.3	12.5	739	739	0	0
9999	BASIN	0	12.9	0	0		

Average Basin Elevation:	145
Basin Area (ac.):	12.9
Effective Modeling Area (ac.):	12.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 31

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.1	77	77	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	0.0	0.0	0	0	0	0
700	BARREN	0.0	0.0	0	0	0	0
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	1.6	2.0	296	296	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	2.1	0	0	213	0

Average Basin Elevation:	213
Basin Area (ac.):	2.1
Effective Modeling Area (ac.):	2.0
Basin Area Not Modeled (ac.):	0.1
Basin % Not Modeled:	6.27

Road Type Summary	as % of total roads	
TYPE 1 (36ft)	0	#DIV/0!
TYPE 2 (50 ft)	0	#DIV/0!
TYPE 3 (60 ft)	0	#DIV/0!
TYPE 4 (72 ft)	0	#DIV/0!

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 31

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.7	2.1	306	306	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	2.1	0	0		

Average Basin Elevation:	213
Basin Area (ac.):	2.1
Effective Modeling Area (ac.):	2.1
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 32

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	3.2	373	373	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	3.8	4363	38	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.6	2.9	1621	78	0	0
700	BARREN	4.0	0.9	1175	32	0	0
825	UPLAND	9.4	1.3	397	140	0	0
875	LANDSCAPED	3.2	7.1	1837	169	0	0
900	ICI	3.1	0.2	212	37	0	0
9999	BASIN	0.0	19.3	0	0	209	0

Average Basin Elevation:	209
Basin Area (ac.):	19.3
Effective Modeling Area (ac.):	16.2
Basin Area Not Modeled (ac.):	3.2
Basin % Not Modeled:	16.51

Road Type Summary		as % of total roads
TYPE 1 (36ft)	2236	54%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	962	46%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 32

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.6	14.1	784	784	0	0
825	UPLAND	8.4	5.2	477	477	0	0
9999	BASIN	0	19.3	0	0		

Average Basin Elevation:	209
Basin Area (ac.):	19.3
Effective Modeling Area (ac.):	19.3
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 33

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.1	60	60	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	2.9	1.0	298	151	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.2	1691	56	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.3	1.0	717	62	0	0
700	BARREN	2.2	0.3	371	39	0	0
825	UPLAND	2.4	0.1	61	61	0	0
875	LANDSCAPED	2.0	1.1	583	84	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	5.8	0	0	123	0

Average Basin Elevation:	123
Basin Area (ac.):	5.8
Effective Modeling Area (ac.):	5.8
Basin Area Not Modeled (ac.):	0.1
Basin % Not Modeled:	1.44

Road Type Summary		as % of total roads
TYPE 1 (36ft)	261	9%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	1244	91%

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 33

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.6	1.8	278	278	0	0
825	UPLAND	2.0	4.0	419	419	0	0
9999	BASIN	0	5.8	0	0		

Average Basin Elevation:	123
Basin Area (ac.):	5.8
Effective Modeling Area (ac.):	5.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 34

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.8	280	280	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	2.4	7.4	806	402	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	3.6	2591	61	0	0
475	DIRT	0.1	0.2	302	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.8	40.4	7093	248	0	0
700	BARREN	5.0	10.2	6661	67	0	0
825	UPLAND	3.0	0.9	361	107	0	0
875	LANDSCAPED	2.6	27.1	7972	148	0	0
900	ICI	2.1	16.2	1810	389	0	0
9999	BASIN	0.0	108.0	0	0	139	0

Average Basin Elevation:	139
Basin Area (ac.):	108.0
Effective Modeling Area (ac.):	106.1
Basin Area Not Modeled (ac.):	1.8
Basin % Not Modeled:	1.66

Road Type Summary		as % of total roads
TYPE 1 (36ft)	234	5%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	2585	92%
TYPE 4 (72 ft)	74	3%

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 34

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.3	28.2	1834	670	0	0
825	UPLAND	2.8	79.8	1865	1864	0	0
9999	BASIN	0	108.0	0	0		

Average Basin Elevation:	139
Basin Area (ac.):	108.0
Effective Modeling Area (ac.):	108.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 35

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.4	124	124	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	6.5	11.3	963	510	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.2	122	72	0	0
475	DIRT	0.1	0.7	828	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	11.4	1.4	2235	26	0	0
700	BARREN	10.3	1.8	1942	41	0	0
825	UPLAND	5.7	1.5	278	229	0	0
875	LANDSCAPED	9.8	8.0	990	352	0	0
900	ICI	5.7	0.0	35	35	0	0
9999	BASIN	0.0	25.1	0	0	149	0

Average Basin Elevation:	149
Basin Area (ac.):	25.1
Effective Modeling Area (ac.):	24.8
Basin Area Not Modeled (ac.):	0.4
Basin % Not Modeled:	1.41

Road Type Summary		as % of total roads
TYPE 1 (36ft)	796	78%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	115	22%

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 35

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	6.1	14.0	782	781	0	0
825	UPLAND	10.8	11.1	729	664	0	0
9999	BASIN	0	25.1	0	0		

Average Basin Elevation:	149
Basin Area (ac.):	25.1
Effective Modeling Area (ac.):	25.1
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 36

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.4	138	138	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	3.6	8.1	593	593	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	4.4	0.2	211	43	0	0
700	BARREN	4.9	0.1	141	37	0	0
825	UPLAND	5.2	3.1	776	176	0	0
875	LANDSCAPED	3.4	0.0	29	29	0	0
900	ICI	4.7	0.3	114	114	0	0
9999	BASIN	0.0	12.3	0	0	234	0

Average Basin Elevation:	234
Basin Area (ac.):	12.3
Effective Modeling Area (ac.):	11.8
Basin Area Not Modeled (ac.):	0.4
Basin % Not Modeled:	3.54

Road Type Summary	as % of total roads	
TYPE 1 (36ft)	0	#DIV/0!
TYPE 2 (50 ft)	0	#DIV/0!
TYPE 3 (60 ft)	0	#DIV/0!
TYPE 4 (72 ft)	0	#DIV/0!

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 36

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.7	11.1	697	697	0	0
825	UPLAND	8.6	1.2	226	226	0	0
9999	BASIN	0	12.3	0	0		

Average Basin Elevation:	234
Basin Area (ac.):	12.3
Effective Modeling Area (ac.):	12.3
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 37

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	29.6	1135	1135	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	7.4	9.5	643	643	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	16.9	18455	40	0	0
475	DIRT	0.1	2.4	2932	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	3.9	10.9	5063	94	0	0
700	BARREN	4.4	5.3	6941	33	0	0
825	UPLAND	7.5	9.3	3073	131	0	0
875	LANDSCAPED	6.4	84.2	4354	842	0	0
900	ICI	4.4	1.8	706	109	0	0
9999	BASIN	0.0	170.5	0	0	318	0

Average Basin Elevation:	318
Basin Area (ac.):	170.5
Effective Modeling Area (ac.):	140.3
Basin Area Not Modeled (ac.):	29.6
Basin % Not Modeled:	17.34

Road Type Summary		as % of total roads
TYPE 1 (36ft)	13323	57%
TYPE 2 (50 ft)	7209	43%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 37

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	7.4	9.5	642	642	0	0
825	UPLAND	6.3	161.1	2649	2649	0	0
9999	BASIN	0	170.5	0	0		

Average Basin Elevation:	318
Basin Area (ac.):	170.5
Effective Modeling Area (ac.):	170.5
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 38

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	3.2	371	371	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.4	2949	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	2.0	0.1	85	36	0	0
600	DCI	1.6	2.6	3333	34	0	0
700	BARREN	1.8	0.9	1155	35	0	0
825	UPLAND	1.4	0.2	108	73	0	0
875	LANDSCAPED	1.8	10.0	1513	288	0	0
900	ICI	1.0	0.6	411	65	0	0
9999	BASIN	0.0	20.0	0	0	201	0

Average Basin Elevation:	201
Basin Area (ac.):	20.0
Effective Modeling Area (ac.):	16.8
Basin Area Not Modeled (ac.):	3.2
Basin % Not Modeled:	15.87

Road Type Summary		as % of total roads
TYPE 1 (36ft)	2503	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 38

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.6	13.5	766	766	0	0
825	UPLAND	1.8	6.5	532	532	0	0
9999	BASIN	0	20.0	0	0		

Average Basin Elevation:	201
Basin Area (ac.):	20.0
Effective Modeling Area (ac.):	20.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 39

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.1	223	223	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	3.0	1.1	463	107	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.6	1539	46	0	0
475	DIRT	0.1	0.1	81	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.2	5.0	3496	62	0	0
700	BARREN	3.1	4.3	2952	63	0	0
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	2.9	8.3	2922	123	0	0
900	ICI	2.7	6.2	1010	267	0	0
9999	BASIN	0.0	27.7	0	0	149	0

Average Basin Elevation:	149
Basin Area (ac.):	27.7
Effective Modeling Area (ac.):	26.5
Basin Area Not Modeled (ac.):	1.1
Basin % Not Modeled:	4.11

Road Type Summary		as % of total roads
TYPE 1 (36ft)	91	5%
TYPE 2 (50 ft)	1316	95%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.1
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 39

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.1	9.6	992	422	0	0
825	UPLAND	2.9	18.1	1169	674	0	0
9999	BASIN	0	27.7	0	0		

Average Basin Elevation:	149
Basin Area (ac.):	27.7
Effective Modeling Area (ac.):	27.7
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.1
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 40

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.5	253	253	0	0
100	WATER	1.9	2.9	355	355	0	0
200	WETLAND	1.9	44.6	1394	1394	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	3.3	0.7	755	41	0	0
700	BARREN	1.9	0.4	474	35	0	0
825	UPLAND	1.3	0.2	133	67	0	0
875	LANDSCAPED	2.6	17.1	2124	350	0	0
900	ICI	2.9	0.2	111	82	0	0
9999	BASIN	0.0	67.3	0	0	232	0

Average Basin Elevation:	232
Basin Area (ac.):	67.3
Effective Modeling Area (ac.):	63.2
Basin Area Not Modeled (ac.):	4.4
Basin % Not Modeled:	6.48

Road Type Summary		as % of total roads
TYPE 1 (36ft)	252	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 40

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	3	3	350	350	0	0
200	WETLAND	2.1	63.5	1663	1663	0	0
825	UPLAND	2.8	1.0	340	133	0	0
9999	BASIN	0	67.3	0	0		

Average Basin Elevation:	232
Basin Area (ac.):	67.3
Effective Modeling Area (ac.):	64.5
Basin Area Not Modeled (ac.):	2.8
Basin % Not Modeled:	4.178679706

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 41

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	2.5	333	333	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.5	1808	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	6.9	1.2	1046	51	0	0
700	BARREN	7.0	0.5	651	33	0	0
825	UPLAND	13.8	1.7	502	150	0	0
875	LANDSCAPED	7.0	3.8	1227	136	0	0
900	ICI	16.0	0.0	60	32	0	0
9999	BASIN	0.0	11.4	0	0	223	0

Average Basin Elevation:	223
Basin Area (ac.):	11.4
Effective Modeling Area (ac.):	8.8
Basin Area Not Modeled (ac.):	2.5
Basin % Not Modeled:	22.35

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1653	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 41

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	5.4	6.5	532	532	0	0
825	UPLAND	14.7	4.9	461	461	0	0
9999	BASIN	0	11.4	0	0		

Average Basin Elevation:	223
Basin Area (ac.):	11.4
Effective Modeling Area (ac.):	11.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 42

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	5.2	475	475	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	5.0	5715	38	0	0
475	DIRT	0.1	0.4	507	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	6.1	3.4	4343	34	0	0
700	BARREN	6.0	1.1	1460	32	0	0
825	UPLAND	12.4	2.1	440	206	0	0
875	LANDSCAPED	6.4	12.4	2027	267	0	0
900	ICI	12.6	0.2	120	70	0	0
9999	BASIN	0.0	29.8	0	0	253	0

Average Basin Elevation:	253
Basin Area (ac.):	29.8
Effective Modeling Area (ac.):	24.6
Basin Area Not Modeled (ac.):	5.2
Basin % Not Modeled:	17.38

Road Type Summary		as % of total roads
TYPE 1 (36ft)	4219	70%
TYPE 2 (50 ft)	1305	30%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 42

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.5	2.2	310	310	0	0
825	UPLAND	7.3	27.6	1096	1096	0	0
9999	BASIN	0	29.8	0	0		

Average Basin Elevation:	253
Basin Area (ac.):	29.8
Effective Modeling Area (ac.):	29.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 43

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	3.5	393	393	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.5	0.3	107	107	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.9	3485	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.2	4.5	3366	58	0	0
700	BARREN	2.4	0.8	1212	30	0	0
825	UPLAND	3.8	1.9	507	167	0	0
875	LANDSCAPED	2.2	6.8	1922	155	0	0
900	ICI	2.1	0.1	145	25	0	0
9999	BASIN	0.0	20.9	0	0	233	0

Average Basin Elevation:	233
Basin Area (ac.):	20.9
Effective Modeling Area (ac.):	17.3
Basin Area Not Modeled (ac.):	3.5
Basin % Not Modeled:	16.94

Road Type Summary		as % of total roads
TYPE 1 (36ft)	3243	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 43

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.6	14.9	806	806	0	0
825	UPLAND	4.4	6.0	511	511	0	0
9999	BASIN	0	20.9	0	0		

Average Basin Elevation:	233
Basin Area (ac.):	20.9
Effective Modeling Area (ac.):	20.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 44

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.5	153	153	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.0	2321	38	0	0
475	DIRT	0.1	0.1	106	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.1	1.7	966	78	0	0
700	BARREN	2.4	0.4	415	43	0	0
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	2.2	1.3	722	77	0	0
900	ICI	1.4	0.0	26	26	0	0
9999	BASIN	0.0	6.0	0	0	192	0

Average Basin Elevation:	192
Basin Area (ac.):	6.0
Effective Modeling Area (ac.):	5.5
Basin Area Not Modeled (ac.):	0.5
Basin % Not Modeled:	8.83

Road Type Summary		as % of total roads
TYPE 1 (36ft)	539	20%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	1261	80%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 44

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.0	6.0	513	513	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	6.0	0	0		

Average Basin Elevation:	192
Basin Area (ac.):	6.0
Effective Modeling Area (ac.):	6.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 45

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	2.5	328	328	0	0
100	WATER	3.0	12.3	731	731	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.0	1234	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	12.1	1.5	1363	48	0	0
700	BARREN	8.0	2.6	2523	46	0	0
825	UPLAND	6.9	0.4	428	45	0	0
875	LANDSCAPED	7.2	61.8	1652	1630	0	0
900	ICI	3.7	0.3	191	72	0	0
9999	BASIN	0.0	82.5	0	0	182	0

Average Basin Elevation:	182
Basin Area (ac.):	82.5
Effective Modeling Area (ac.):	67.7
Basin Area Not Modeled (ac.):	14.7
Basin % Not Modeled:	17.86

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1209	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.15
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 45

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.6	2.3	316	316	0	0
825	UPLAND	7.2	80.2	1869	1869	0	0
9999	BASIN	0	82.5	0	0		

Average Basin Elevation:	182
Basin Area (ac.):	82.5
Effective Modeling Area (ac.):	82.5
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.15
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 46

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	6.2	518	518	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	3.2	3929	36	0	0
475	DIRT	0.1	0.5	544	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	7.6	2.8	2631	46	0	0
700	BARREN	6.7	0.8	1090	32	0	0
825	UPLAND	11.7	11.9	1760	294	0	0
875	LANDSCAPED	8.2	8.5	1485	250	0	0
900	ICI	10.0	0.2	224	35	0	0
9999	BASIN	0.0	34.1	0	0	253	0

Average Basin Elevation:	253
Basin Area (ac.):	34.1
Effective Modeling Area (ac.):	27.9
Basin Area Not Modeled (ac.):	6.2
Basin % Not Modeled:	18.11

Road Type Summary		as % of total roads
TYPE 1 (36ft)	3761	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 46

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	5.3	10.8	687	687	0	0
825	UPLAND	13.2	23.2	1006	1006	0	0
9999	BASIN	0	34.1	0	0		

Average Basin Elevation:	253
Basin Area (ac.):	34.1
Effective Modeling Area (ac.):	34.1
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 47

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	2.4	323	323	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.6	703	36	0	0
475	DIRT	0.1	0.8	1015	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	1.1	2.0	1633	55	0	0
700	BARREN	1.1	0.7	857	34	0	0
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	1.1	2.3	1205	82	0	0
900	ICI	0.8	0.4	366	48	0	0
9999	BASIN	0.0	9.2	0	0	194	0

Average Basin Elevation:	194
Basin Area (ac.):	9.2
Effective Modeling Area (ac.):	6.8
Basin Area Not Modeled (ac.):	2.4
Basin % Not Modeled:	26.11

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1725	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 47

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.1	9.2	632	632	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	9.2	0	0		

Average Basin Elevation:	194
Basin Area (ac.):	9.2
Effective Modeling Area (ac.):	9.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 48

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	4.0	416	416	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.3	2786	36	0	0
475	DIRT	0.1	0.1	81	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	1.7	2.5	2237	49	0	0
700	BARREN	1.5	1.0	1175	37	0	0
825	UPLAND	1.0	0.6	354	77	0	0
875	LANDSCAPED	1.6	7.2	1393	226	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	17.6	0	0	189	0

Average Basin Elevation:	189
Basin Area (ac.):	17.6
Effective Modeling Area (ac.):	13.8
Basin Area Not Modeled (ac.):	4.0
Basin % Not Modeled:	22.57

Road Type Summary		as % of total roads
TYPE 1 (36ft)	2570	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 48

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.7	14.3	789	789	0	0
825	UPLAND	1.2	3.3	380	380	0	0
9999	BASIN	0	17.6	0	0		

Average Basin Elevation:	189
Basin Area (ac.):	17.6
Effective Modeling Area (ac.):	17.6
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 49

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.5	152	152	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.2	286	36	0	0
475	DIRT	0.1	0.2	301	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	1.7	0.9	1021	37	0	0
700	BARREN	1.5	0.6	672	40	0	0
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	1.7	3.8	600	276	0	0
900	ICI	1.8	0.3	278	51	0	0
9999	BASIN	0.0	6.7	0	0	196	0

Average Basin Elevation:	196
Basin Area (ac.):	6.7
Effective Modeling Area (ac.):	6.1
Basin Area Not Modeled (ac.):	0.5
Basin % Not Modeled:	7.96

Road Type Summary		as % of total roads
TYPE 1 (36ft)	642	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 49

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.7	6.7	538	538	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	6.7	0	0		

Average Basin Elevation:	196
Basin Area (ac.):	6.7
Effective Modeling Area (ac.):	6.7
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 50

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.2	227	227	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.2	1435	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	1.6	0.9	977	38	0	0
700	BARREN	1.9	0.2	284	33	0	0
825	UPLAND	0.9	0.3	193	66	0	0
875	LANDSCAPED	1.5	3.4	775	190	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	7.1	0	0	186	0

Average Basin Elevation:	186
Basin Area (ac.):	7.1
Effective Modeling Area (ac.):	5.9
Basin Area Not Modeled (ac.):	1.2
Basin % Not Modeled:	16.60

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1229	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 50

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.5	6.5	530	530	0	0
825	UPLAND	2.0	0.6	168	168	0	0
9999	BASIN	0	7.1	0	0		

Average Basin Elevation:	186
Basin Area (ac.):	7.1
Effective Modeling Area (ac.):	7.1
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 51

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	4.7	454	454	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	4.3	5168	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	1.5	4.3	4849	39	0	0
700	BARREN	1.3	1.5	2042	33	0	0
825	UPLAND	2.3	0.3	142	86	0	0
875	LANDSCAPED	1.4	12.1	2817	186	0	0
900	ICI	1.3	0.1	152	33	0	0
9999	BASIN	0.0	27.3	0	0	184	0

Average Basin Elevation:	184
Basin Area (ac.):	27.3
Effective Modeling Area (ac.):	22.6
Basin Area Not Modeled (ac.):	4.7
Basin % Not Modeled:	17.33

Road Type Summary		as % of total roads
TYPE 1 (36ft)	4705	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 51

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.4	9.2	634	634	0	0
825	UPLAND	1.6	18.1	888	888	0	0
9999	BASIN	0	27.3	0	0		

Average Basin Elevation:	184
Basin Area (ac.):	27.3
Effective Modeling Area (ac.):	27.3
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 52

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.4	132	132	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	3.5	4184	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	1.7	3.5	2378	65	0	0
700	BARREN	2.0	1.7	1084	67	0	0
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	1.9	5.9	1857	139	0	0
900	ICI	1.3	0.0	23	23	0	0
9999	BASIN	0.0	14.9	0	0	197	0

Average Basin Elevation:	197
Basin Area (ac.):	14.9
Effective Modeling Area (ac.):	14.6
Basin Area Not Modeled (ac.):	0.4
Basin % Not Modeled:	2.67

Road Type Summary		as % of total roads
TYPE 1 (36ft)	3747	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 52

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.9	14.9	807	807	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	14.9	0	0		

Average Basin Elevation:	197
Basin Area (ac.):	14.9
Effective Modeling Area (ac.):	14.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 53

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	4.5	443	443	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	6.6	2.6	773	149	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	6.1	5289	50	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	4.8	22.9	4992	200	0	0
700	BARREN	6.8	8.5	4889	76	0	0
825	UPLAND	2.5	0.2	186	51	0	0
875	LANDSCAPED	10.5	29.5	2864	449	0	0
900	ICI	4.5	9.4	2062	199	0	0
9999	BASIN	0.0	83.7	0	0	178	0

Average Basin Elevation:	178
Basin Area (ac.):	83.7
Effective Modeling Area (ac.):	79.3
Basin Area Not Modeled (ac.):	4.5
Basin % Not Modeled:	5.38

Road Type Summary		as % of total roads
TYPE 1 (36ft)	799	12%
TYPE 2 (50 ft)	104	2%
TYPE 3 (60 ft)	3568	86%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.1
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 53

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	4.9	7.3	867	366	0	0
825	UPLAND	7.5	76.4	1824	1824	0	0
9999	BASIN	0	83.7	0	0		

Average Basin Elevation:	178
Basin Area (ac.):	83.7
Effective Modeling Area (ac.):	83.7
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.1
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 54

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.9	290	290	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	1.0	0.0	41	41	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.0	1162	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	3.2	1.1	1698	29	0	0
700	BARREN	3.2	0.5	559	39	0	0
825	UPLAND	1.0	0.2	113	88	0	0
875	LANDSCAPED	3.2	3.3	882	161	0	0
900	ICI	2.6	0.0	23	23	0	0
9999	BASIN	0.0	8.1	0	0	237	0

Average Basin Elevation:	237
Basin Area (ac.):	8.1
Effective Modeling Area (ac.):	6.1
Basin Area Not Modeled (ac.):	1.9
Basin % Not Modeled:	23.88

Road Type Summary		as % of total roads
TYPE 1 (36ft)	918	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 54

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.7	3.3	378	378	0	0
825	UPLAND	4.3	4.8	456	456	0	0
9999	BASIN	0	8.1	0	0		

Average Basin Elevation:	237
Basin Area (ac.):	8.1
Effective Modeling Area (ac.):	8.1
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 55

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	2.8	350	350	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	3.8	0.8	211	173	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.7	2097	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	5.4	2.2	2086	47	0	0
700	BARREN	5.5	0.9	1003	38	0	0
825	UPLAND	5.7	2.1	518	172	0	0
875	LANDSCAPED	6.0	3.6	939	165	0	0
900	ICI	3.0	0.0	26	26	0	0
9999	BASIN	0.0	14.2	0	0	252	0

Average Basin Elevation:	252
Basin Area (ac.):	14.2
Effective Modeling Area (ac.):	11.3
Basin Area Not Modeled (ac.):	2.8
Basin % Not Modeled:	19.82

Road Type Summary		as % of total roads
TYPE 1 (36ft)	2326	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 55

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.4	0.7	180	179	0	0
825	UPLAND	5.9	13.5	766	766	0	0
9999	BASIN	0	14.2	0	0		

Average Basin Elevation:	252
Basin Area (ac.):	14.2
Effective Modeling Area (ac.):	14.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 56

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.1	69	69	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	2.0	0.2	137	62	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.7	491	60	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	5.6	7.8	3088	110	0	0
700	BARREN	7.0	8.5	3218	115	0	0
825	UPLAND	1.6	0.2	149	71	0	0
875	LANDSCAPED	6.6	12.4	2284	236	0	0
900	ICI	5.1	2.0	667	128	0	0
9999	BASIN	0.0	31.9	0	0	174	0

Average Basin Elevation:	174
Basin Area (ac.):	31.9
Effective Modeling Area (ac.):	31.8
Basin Area Not Modeled (ac.):	0.1
Basin % Not Modeled:	0.35

Road Type Summary	as % of total roads	
TYPE 1 (36ft)	0	0%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	441	100%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.15
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 56

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.1	1.4	247	247	0	0
825	UPLAND	6.5	30.5	1152	1152	0	0
9999	BASIN	0	31.9	0	0		

Average Basin Elevation:	174
Basin Area (ac.):	31.9
Effective Modeling Area (ac.):	31.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.15
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 57

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.2	95	95	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.0	1129	38	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	4.4	0.6	680	35	0	0
700	BARREN	4.1	0.2	269	37	0	0
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	3.5	1.5	444	147	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	3.5	0	0	198	0

Average Basin Elevation:	198
Basin Area (ac.):	3.5
Effective Modeling Area (ac.):	3.3
Basin Area Not Modeled (ac.):	0.2
Basin % Not Modeled:	5.98

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1060	87%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	91	13%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 57

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	4.6	3.5	391	391	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	3.5	0	0		

Average Basin Elevation:	198
Basin Area (ac.):	3.5
Effective Modeling Area (ac.):	3.5
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 58

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.4	131	131	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	3.1	3233	42	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	7.6	1.4	870	72	0	0
700	BARREN	7.8	0.6	672	40	0	0
825	UPLAND	7.5	0.3	265	46	0	0
875	LANDSCAPED	7.3	1.5	869	74	0	0
900	ICI	6.0	0.0	19	19	0	0
9999	BASIN	0.0	7.3	0	0	238	0

Average Basin Elevation:	238
Basin Area (ac.):	7.3
Effective Modeling Area (ac.):	6.9
Basin Area Not Modeled (ac.):	0.4
Basin % Not Modeled:	5.34

Road Type Summary		as % of total roads
TYPE 1 (36ft)	467	13%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	1830	87%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 58

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	7.3	7.3	565	565	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	7.3	0	0		

Average Basin Elevation:	238
Basin Area (ac.):	7.3
Effective Modeling Area (ac.):	7.3
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 59

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.6	262	262	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.5	1835	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.5	1.0	1429	31	0	0
700	BARREN	2.9	0.5	562	36	0	0
825	UPLAND	8.8	0.7	173	167	0	0
875	LANDSCAPED	3.7	3.6	704	225	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	9.0	0	0	192	0

Average Basin Elevation:	192
Basin Area (ac.):	9.0
Effective Modeling Area (ac.):	7.3
Basin Area Not Modeled (ac.):	1.6
Basin % Not Modeled:	17.55

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1545	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 59

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	4.0	9.0	626	626	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	9.0	0	0		

Average Basin Elevation:	192
Basin Area (ac.):	9.0
Effective Modeling Area (ac.):	9.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 60

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	8.8	620	620	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	7.9	9501	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	5.2	7.5	8071	40	0	0
700	BARREN	5.3	3.7	4429	36	0	0
825	UPLAND	6.4	1.6	778	87	0	0
875	LANDSCAPED	4.7	19.0	4004	206	0	0
900	ICI	9.1	0.2	288	30	0	0
9999	BASIN	0.0	48.6	0	0	204	0

Average Basin Elevation:	204
Basin Area (ac.):	48.6
Effective Modeling Area (ac.):	39.8
Basin Area Not Modeled (ac.):	8.8
Basin % Not Modeled:	18.18

Road Type Summary	as % of total roads	
TYPE 1 (36ft)	0	#DIV/0!
TYPE 2 (50 ft)	0	#DIV/0!
TYPE 3 (60 ft)	0	#DIV/0!
TYPE 4 (72 ft)	0	#DIV/0!

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 60

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	5.1	48.6	1455	1455	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	48.6	0	0		

Average Basin Elevation:	204
Basin Area (ac.):	48.6
Effective Modeling Area (ac.):	48.6
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 61

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	19.3	917	917	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	1.3	0.4	166	95	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	17.5	20019	38	0	0
475	DIRT	0.1	0.5	493	45	0	0
500	PARKING	4.9	0.1	78	78	0	0
600	DCI	5.5	17.5	15659	49	0	0
700	BARREN	5.5	5.0	6260	35	0	0
825	UPLAND	9.9	8.8	1536	251	0	0
875	LANDSCAPED	5.8	42.7	8171	228	0	0
900	ICI	3.7	1.9	817	102	0	0
9999	BASIN	0.0	113.8	0	0	259	0

Average Basin Elevation:	259
Basin Area (ac.):	113.8
Effective Modeling Area (ac.):	94.5
Basin Area Not Modeled (ac.):	19.3
Basin % Not Modeled:	16.98

Road Type Summary	as % of total roads
TYPE 1 (36ft)	15514 79%
TYPE 2 (50 ft)	2883 21%
TYPE 3 (60 ft)	0 0%
TYPE 4 (72 ft)	0 0%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 61

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.4	9.5	644	644	0	0
825	UPLAND	6.6	104.3	2131	2131	0	0
9999	BASIN	0	113.8	0	0		

Average Basin Elevation:	259
Basin Area (ac.):	113.8
Effective Modeling Area (ac.):	113.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 62

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.7	273	273	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	2.1	15.5	1172	578	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	11.8	13542	38	0	0
475	DIRT	0.1	4.3	5027	38	0	0
500	PARKING	1.7	8.8	867	442	0	0
600	DCI	1.8	59.6	7572	343	0	0
700	BARREN	4.9	27.3	8053	148	0	0
825	UPLAND	2.5	7.4	2356	137	0	0
875	LANDSCAPED	2.6	46.2	6332	318	0	0
900	ICI	3.3	8.9	1977	195	0	0
9999	BASIN	0.0	193.0	0	0	160	0

Average Basin Elevation:	160
Basin Area (ac.):	193.0
Effective Modeling Area (ac.):	189.9
Basin Area Not Modeled (ac.):	1.7
Basin % Not Modeled:	0.89

Road Type Summary		as % of total roads
TYPE 1 (36ft)	11871	61%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	1636	14%
TYPE 4 (72 ft)	2357	24%

Rainfall Factor:	1.1
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 62

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.6	92.2	2004	2004	0	0
825	UPLAND	3.6	100.8	2276	1929	0	0
9999	BASIN	0	193.0	0	0		

Average Basin Elevation:	160
Basin Area (ac.):	193.0
Effective Modeling Area (ac.):	193.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.1
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 63

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	7.9	585	585	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	14.0	0.4	135	135	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.6	3206	36	0	0
475	DIRT	0.1	0.6	714	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	7.0	3.7	4050	39	0	0
700	BARREN	7.9	1.2	1507	35	0	0
825	UPLAND	14.8	6.0	627	419	0	0
875	LANDSCAPED	8.6	8.3	2172	167	0	0
900	ICI	3.8	0.1	83	29	0	0
9999	BASIN	0.0	30.9	0	0	232	0

Average Basin Elevation:	232
Basin Area (ac.):	30.9
Effective Modeling Area (ac.):	23.0
Basin Area Not Modeled (ac.):	7.9
Basin % Not Modeled:	25.49

Road Type Summary		as % of total roads
TYPE 1 (36ft)	3609	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 63

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.9	15.1	810	810	0	0
825	UPLAND	16.1	15.8	830	830	0	0
9999	BASIN	0	30.9	0	0		

Average Basin Elevation:	232
Basin Area (ac.):	30.9
Effective Modeling Area (ac.):	30.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 64

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.7	273	273	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.7	2071	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	1.5	1.7	2147	34	0	0
700	BARREN	1.5	0.9	1274	31	0	0
825	UPLAND	1.2	0.1	86	46	0	0
875	LANDSCAPED	1.6	4.8	1521	137	0	0
900	ICI	0.7	0.0	26	26	0	0
9999	BASIN	0.0	10.9	0	0	180	0

Average Basin Elevation:	180
Basin Area (ac.):	10.9
Effective Modeling Area (ac.):	9.2
Basin Area Not Modeled (ac.):	1.7
Basin % Not Modeled:	15.68

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1790	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 64

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.5	3.9	410	410	0	0
825	UPLAND	1.5	7.0	553	553	0	0
9999	BASIN	0	10.9	0	0		

Average Basin Elevation:	180
Basin Area (ac.):	10.9
Effective Modeling Area (ac.):	10.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 65

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	4.3	433	433	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	4.6	5268	38	0	0
475	DIRT	0.1	0.1	78	42	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	6.4	3.7	3309	49	0	0
700	BARREN	7.6	1.2	1503	33	0	0
825	UPLAND	7.9	0.7	270	114	0	0
875	LANDSCAPED	8.2	9.1	2072	191	0	0
900	ICI	9.4	0.2	167	43	0	0
9999	BASIN	0.0	23.8	0	0	222	0

Average Basin Elevation:	222
Basin Area (ac.):	23.8
Effective Modeling Area (ac.):	19.5
Basin Area Not Modeled (ac.):	4.3
Basin % Not Modeled:	18.05

Road Type Summary		as % of total roads
TYPE 1 (36ft)	4351	95%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	133	5%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 65

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	8.0	23.8	1018	1018	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	23.8	0	0		

Average Basin Elevation:	222
Basin Area (ac.):	23.8
Effective Modeling Area (ac.):	23.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 66

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	2.5	331	331	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.8	3377	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	3.1	2.2	2925	33	0	0
700	BARREN	3.5	1.2	1532	34	0	0
825	UPLAND	4.7	0.6	470	59	0	0
875	LANDSCAPED	3.2	6.8	1503	198	0	0
900	ICI	3.0	0.0	26	26	0	0
9999	BASIN	0.0	16.2	0	0	187	0

Average Basin Elevation:	187
Basin Area (ac.):	16.2
Effective Modeling Area (ac.):	13.7
Basin Area Not Modeled (ac.):	2.5
Basin % Not Modeled:	15.49

Road Type Summary		as % of total roads
TYPE 1 (36ft)	2924	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 66

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.4	16.2	840	840	0	0
825	UPLAND	2.1	0.0	37	37	0	0
9999	BASIN	0	16.2	0	0		

Average Basin Elevation:	187
Basin Area (ac.):	16.2
Effective Modeling Area (ac.):	16.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 67

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	9.6	648	648	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	4.7	1.5	294	227	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	5.7	6851	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	8.7	3.5	5015	30	0	0
700	BARREN	8.7	1.3	1505	38	0	0
825	UPLAND	9.5	2.7	955	123	0	0
875	LANDSCAPED	8.3	15.6	2841	239	0	0
900	ICI	18.3	0.1	106	28	0	0
9999	BASIN	0.0	40.1	0	0	287	0

Average Basin Elevation:	287
Basin Area (ac.):	40.1
Effective Modeling Area (ac.):	30.3
Basin Area Not Modeled (ac.):	9.6
Basin % Not Modeled:	24.06

Road Type Summary		as % of total roads
TYPE 1 (36ft)	6076	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 67

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	4.8	1.7	354	214	0	0
825	UPLAND	9.4	38.4	1293	1293	0	0
9999	BASIN	0	40.1	0	0		

Average Basin Elevation:	287
Basin Area (ac.):	40.1
Effective Modeling Area (ac.):	40.1
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 68

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.4	134	134	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.6	727	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	2.3	0.7	1134	28	0	0
700	BARREN	2.2	0.4	342	46	0	0
825	UPLAND	1.4	0.2	105	92	0	0
875	LANDSCAPED	2.2	1.9	679	120	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	4.2	0	0	179	0

Average Basin Elevation:	179
Basin Area (ac.):	4.2
Effective Modeling Area (ac.):	3.8
Basin Area Not Modeled (ac.):	0.4
Basin % Not Modeled:	9.80

Road Type Summary		as % of total roads
TYPE 1 (36ft)	603	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 68

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.2	4.2	428	428	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	4.2	0	0		

Average Basin Elevation:	179
Basin Area (ac.):	4.2
Effective Modeling Area (ac.):	4.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 69

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.5	255	255	0	0
100	WATER	1.5	9.7	651	651	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	3.9	0.6	906	29	0	0
700	BARREN	1.8	1.6	1466	46	0	0
825	UPLAND	2.8	0.5	160	128	0	0
875	LANDSCAPED	3.6	15.5	833	811	0	0
900	ICI	2.0	0.0	37	18	0	0
9999	BASIN	0.0	29.4	0	0	166	0

Average Basin Elevation:	166
Basin Area (ac.):	29.4
Effective Modeling Area (ac.):	18.2
Basin Area Not Modeled (ac.):	11.2
Basin % Not Modeled:	38.14

Road Type Summary		as % of total roads
TYPE 1 (36ft)	0	#DIV/0!
TYPE 2 (50 ft)	0	#DIV/0!
TYPE 3 (60 ft)	0	#DIV/0!
TYPE 4 (72 ft)	0	#DIV/0!

Rainfall Factor:	1.15
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 69

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.1	0.4	131	131	0	0
825	UPLAND	2.8	29.1	1125	1125	0	0
9999	BASIN	0	29.4	0	0		

Average Basin Elevation:	166
Basin Area (ac.):	29.4
Effective Modeling Area (ac.):	29.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.15
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 70

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.1	60	60	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	1.6	2.3	318	312	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	1.4	1.8	930	86	0	0
700	BARREN	1.7	1.4	825	76	0	0
825	UPLAND	0.0	0.0	0	0	0	0
875	LANDSCAPED	1.8	1.1	900	52	0	0
900	ICI	1.6	1.4	558	110	0	0
9999	BASIN	0.0	8.1	0	0	158	0

Average Basin Elevation:	158
Basin Area (ac.):	8.1
Effective Modeling Area (ac.):	8.0
Basin Area Not Modeled (ac.):	0.1
Basin % Not Modeled:	1.02

Road Type Summary		as % of total roads
TYPE 1 (36ft)	0	#DIV/0!
TYPE 2 (50 ft)	0	#DIV/0!
TYPE 3 (60 ft)	0	#DIV/0!
TYPE 4 (72 ft)	0	#DIV/0!

Rainfall Factor:	1.1
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 70

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.6	4.3	435	435	0	0
825	UPLAND	1.6	3.8	404	404	0	0
9999	BASIN	0	8.1	0	0		

Average Basin Elevation:	158
Basin Area (ac.):	8.1
Effective Modeling Area (ac.):	8.1
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.1
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 71

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.7	174	174	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.7	842	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	8.8	0.6	607	45	0	0
700	BARREN	11.5	0.1	175	32	0	0
825	UPLAND	18.7	0.1	74	37	0	0
875	LANDSCAPED	9.1	0.7	462	66	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	2.9	0	0	217	0

Average Basin Elevation:	217
Basin Area (ac.):	2.9
Effective Modeling Area (ac.):	2.2
Basin Area Not Modeled (ac.):	0.7
Basin % Not Modeled:	24.29

Road Type Summary		as % of total roads
TYPE 1 (36ft)	765	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 71

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.4	1.6	267	267	0	0
825	UPLAND	16.5	1.2	232	232	0	0
9999	BASIN	0	2.9	0	0		

Average Basin Elevation:	217
Basin Area (ac.):	2.9
Effective Modeling Area (ac.):	2.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 72

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	5.3	479	479	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	13.4	0.1	49	49	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	12.2	11113	48	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	2.0	10.1	1306	336	0	0
600	DCI	2.1	33.5	5557	263	0	0
700	BARREN	2.4	15.0	3551	184	0	0
825	UPLAND	1.9	9.1	1676	235	0	0
875	LANDSCAPED	2.3	8.8	4758	80	0	0
900	ICI	2.5	1.8	1080	71	0	0
9999	BASIN	0.0	96.5	0	0	176	0

Average Basin Elevation:	176
Basin Area (ac.):	96.5
Effective Modeling Area (ac.):	90.5
Basin Area Not Modeled (ac.):	5.3
Basin % Not Modeled:	5.46

Road Type Summary		as % of total roads
TYPE 1 (36ft)	5984	41%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	1583	18%
TYPE 4 (72 ft)	2976	41%

Rainfall Factor:	1.15
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 72

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	2.8	5.7	644	387	0	0
825	UPLAND	2.2	90.8	1989	1989	0	0
9999	BASIN	0	96.5	0	0		

Average Basin Elevation:	176
Basin Area (ac.):	96.5
Effective Modeling Area (ac.):	96.5
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.15
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 73

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	10.7	684	684	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	9.8	0.5	154	154	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	13.0	15769	36	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	1.6	8.3	602	602	0	0
600	DCI	2.9	17.7	7571	102	0	0
700	BARREN	3.5	8.0	7399	47	0	0
825	UPLAND	5.8	3.2	1188	119	0	0
875	LANDSCAPED	3.3	23.2	5357	189	0	0
900	ICI	3.0	0.1	195	27	0	0
9999	BASIN	0.0	85.1	0	0	216	0

Average Basin Elevation:	216
Basin Area (ac.):	85.1
Effective Modeling Area (ac.):	74.1
Basin Area Not Modeled (ac.):	10.7
Basin % Not Modeled:	12.61

Road Type Summary		as % of total roads
TYPE 1 (36ft)	10688	74%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	1833	26%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 73

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.4	80.8	1877	1875	0	0
825	UPLAND	2.6	4.4	524	362	0	0
9999	BASIN	0	85.1	0	0		

Average Basin Elevation:	216
Basin Area (ac.):	85.1
Effective Modeling Area (ac.):	85.1
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 74

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.2	91	91	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	2.1	0.1	79	79	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.0	2381	36	0	0
475	DIRT	0.1	0.0	10	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	1.5	5.7	2736	91	0	0
700	BARREN	1.6	3.8	1932	86	0	0
825	UPLAND	1.5	0.4	247	78	0	0
875	LANDSCAPED	1.4	4.0	1464	120	0	0
900	ICI	1.9	0.6	243	106	0	0
9999	BASIN	0.0	17.0	0	0	159	0

Average Basin Elevation:	159
Basin Area (ac.):	17.0
Effective Modeling Area (ac.):	16.7
Basin Area Not Modeled (ac.):	0.2
Basin % Not Modeled:	1.12

Road Type Summary		as % of total roads
TYPE 1 (36ft)	2256	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.15
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 74

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	1.6	11.0	693	693	0	0
825	UPLAND	1.4	6.0	511	511	0	0
9999	BASIN	0	17.0	0	0		

Average Basin Elevation:	159
Basin Area (ac.):	17.0
Effective Modeling Area (ac.):	17.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.15
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 75

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.1	221	221	0	0
100	WATER	3.4	3.4	386	386	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	5.3	0.6	504	51	0	0
700	BARREN	4.1	0.1	151	27	0	0
825	UPLAND	7.1	0.0	39	39	0	0
875	LANDSCAPED	5.2	1.0	290	149	0	0
900	ICI	0.0	0.0	0	0	0	0
9999	BASIN	0.0	6.3	0	0	210	0

Average Basin Elevation:	210
Basin Area (ac.):	6.3
Effective Modeling Area (ac.):	1.7
Basin Area Not Modeled (ac.):	4.5
Basin % Not Modeled:	72.12

Road Type Summary		as % of total roads
TYPE 1 (36ft)	0	#DIV/0!
TYPE 2 (50 ft)	0	#DIV/0!
TYPE 3 (60 ft)	0	#DIV/0!
TYPE 4 (72 ft)	0	#DIV/0!

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 75

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	6	3	354	354	0	0
200	WETLAND	4.9	2.5	331	331	0	0
825	UPLAND	5.6	0.9	199	199	0	0
9999	BASIN	0	6.3	0	0		

Average Basin Elevation:	210
Basin Area (ac.):	6.3
Effective Modeling Area (ac.):	3.4
Basin Area Not Modeled (ac.):	2.9
Basin % Not Modeled:	45.66420698

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 76

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.5	154	154	0	0
100	WATER	14.2	2.6	339	339	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.0	9	37	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	9.4	1.5	673	99	0	0
700	BARREN	11.9	0.5	667	36	0	0
825	UPLAND	29.8	0.0	32	32	0	0
875	LANDSCAPED	8.8	1.8	631	121	0	0
900	ICI	9.9	0.0	45	23	0	0
9999	BASIN	0.0	7.1	0	0	220	0

Average Basin Elevation:	220
Basin Area (ac.):	7.1
Effective Modeling Area (ac.):	3.9
Basin Area Not Modeled (ac.):	3.2
Basin % Not Modeled:	45.03

Road Type Summary	as % of total roads	
TYPE 1 (36ft)	0	#DIV/0!
TYPE 2 (50 ft)	0	#DIV/0!
TYPE 3 (60 ft)	0	#DIV/0!
TYPE 4 (72 ft)	0	#DIV/0!

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 76

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	9	2	313	313	0	0
200	WETLAND	9.4	4.8	458	458	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	7.1	0	0		

Average Basin Elevation:	220
Basin Area (ac.):	7.1
Effective Modeling Area (ac.):	4.8
Basin Area Not Modeled (ac.):	2.2
Basin % Not Modeled:	31.81522637

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 77

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.3	234	234	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	3.9	4760	36	0	0
475	DIRT	0.1	0.1	107	40	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	6.4	2.3	2291	43	0	0
700	BARREN	4.6	1.9	1259	66	0	0
825	UPLAND	5.3	2.1	1113	81	0	0
875	LANDSCAPED	8.6	4.0	745	235	0	0
900	ICI	4.0	0.4	214	73	0	0
9999	BASIN	0.0	15.9	0	0	230	0

Average Basin Elevation:	230
Basin Area (ac.):	15.9
Effective Modeling Area (ac.):	14.6
Basin Area Not Modeled (ac.):	1.3
Basin % Not Modeled:	7.88

Road Type Summary		as % of total roads
TYPE 1 (36ft)	4429	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 77

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.1	1.4	297	207	0	0
825	UPLAND	6.2	14.5	794	794	0	0
9999	BASIN	0	15.9	0	0		

Average Basin Elevation:	230
Basin Area (ac.):	15.9
Effective Modeling Area (ac.):	15.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 78

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.3	241	241	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	5.0	4542	48	0	0
475	DIRT	0.1	1.0	1256	36	0	0
500	PARKING	2.2	3.2	486	283	0	0
600	DCI	2.6	5.5	1801	134	0	0
700	BARREN	3.4	2.4	1114	95	0	0
825	UPLAND	4.1	1.6	562	122	0	0
875	LANDSCAPED	3.9	2.4	1302	79	0	0
900	ICI	3.5	0.3	224	51	0	0
9999	BASIN	0.0	22.7	0	0	233	0

Average Basin Elevation:	233
Basin Area (ac.):	22.7
Effective Modeling Area (ac.):	21.3
Basin Area Not Modeled (ac.):	1.3
Basin % Not Modeled:	5.86

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1572	21%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	1307	29%
TYPE 4 (72 ft)	1925	51%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 78

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	3.2	22.7	995	995	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	22.7	0	0		

Average Basin Elevation:	233
Basin Area (ac.):	22.7
Effective Modeling Area (ac.):	22.7
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 79

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.2	232	232	0	0
100	WATER	4.2	1.7	271	271	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.7	857	36	0	0
475	DIRT	0.1	0.1	70	37	0	0
500	PARKING	15.2	0.2	98	98	0	0
600	DCI	6.7	1.7	1078	68	0	0
700	BARREN	7.3	0.7	790	37	0	0
825	UPLAND	10.8	0.6	349	80	0	0
875	LANDSCAPED	5.9	1.6	701	99	0	0
900	ICI	9.9	0.5	233	86	0	0
9999	BASIN	0.0	8.9	0	0	229	0

Average Basin Elevation:	229
Basin Area (ac.):	8.9
Effective Modeling Area (ac.):	6.0
Basin Area Not Modeled (ac.):	2.9
Basin % Not Modeled:	32.83

Road Type Summary		as % of total roads
TYPE 1 (36ft)	711	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 79

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	7	1	251	251	0	0
200	WETLAND	7.1	7.4	571	568	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	8.9	0	0		

Average Basin Elevation:	229
Basin Area (ac.):	8.9
Effective Modeling Area (ac.):	7.4
Basin Area Not Modeled (ac.):	1.4
Basin % Not Modeled:	16.30487852

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 80

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.5	258	258	0	0
100	WATER	1.6	0.3	105	105	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.6	1895	36	0	0
475	DIRT	0.1	0.0	23	52	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	1.9	2.2	2171	44	0	0
700	BARREN	2.2	0.5	759	31	0	0
825	UPLAND	3.2	0.3	105	105	0	0
875	LANDSCAPED	2.3	3.7	1028	155	0	0
900	ICI	2.3	0.1	106	28	0	0
9999	BASIN	0.0	10.1	0	0	215	0

Average Basin Elevation:	215
Basin Area (ac.):	10.1
Effective Modeling Area (ac.):	8.3
Basin Area Not Modeled (ac.):	1.8
Basin % Not Modeled:	17.70

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1706	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 80

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	74	73	0	0
200	WETLAND	0.0	9.7	649	649	0	0
825	UPLAND	0.0	0.3	113	113	0	0
9999	BASIN	0	10.1	0	0		

Average Basin Elevation:	215
Basin Area (ac.):	10.1
Effective Modeling Area (ac.):	9.9
Basin Area Not Modeled (ac.):	0.1
Basin % Not Modeled:	1.238169916

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 81

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	12.8	747	747	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	3.9	51.7	1500	1500	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.0	2411	36	0	0
475	DIRT	0.1	0.2	292	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	5.5	12.1	1922	273	0	0
700	BARREN	6.7	6.4	1750	160	0	0
825	UPLAND	8.6	34.0	2707	548	0	0
875	LANDSCAPED	8.5	41.2	1435	1252	0	0
900	ICI	6.4	1.0	724	63	0	0
9999	BASIN	0.0	161.9	0	0	284	0

Average Basin Elevation:	284
Basin Area (ac.):	161.9
Effective Modeling Area (ac.):	148.7
Basin Area Not Modeled (ac.):	12.8
Basin % Not Modeled:	7.92

Road Type Summary		as % of total roads
TYPE 1 (36ft)	2558	100%
TYPE 2 (50 ft)	0	0%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	0	0%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 81

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.8	189	189	0	0
825	UPLAND	0.0	56.9	1574	1574	0	0
9999	BASIN	0	57.7	0	0		

Average Basin Elevation:	309
Basin Area (ac.):	57.7
Effective Modeling Area (ac.):	57.7
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 82

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	1.3	240	240	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	1.0	0.0	42	42	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	1.4	20.4	1456	611	0	0
700	BARREN	1.5	2.9	1463	85	0	0
825	UPLAND	2.5	0.0	23	23	0	0
875	LANDSCAPED	1.8	6.0	1396	187	0	0
900	ICI	2.1	0.3	423	30	0	0
9999	BASIN	0.0	30.9	0	0	229	0

Average Basin Elevation:	229
Basin Area (ac.):	30.9
Effective Modeling Area (ac.):	29.6
Basin Area Not Modeled (ac.):	1.3
Basin % Not Modeled:	4.28

Road Type Summary	as % of total roads
TYPE 1 (36ft)	0 #DIV/0!
TYPE 2 (50 ft)	0 #DIV/0!
TYPE 3 (60 ft)	0 #DIV/0!
TYPE 4 (72 ft)	0 #DIV/0!

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 82

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	71.4	1763	1763	0	0
825	UPLAND	0.0	90.5	1985	1985	0	0
9999	BASIN	0	161.9	0	0		

Average Basin Elevation:	284
Basin Area (ac.):	161.9
Effective Modeling Area (ac.):	161.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - South Chester Creek Current Conditions

Drainage Basin ID: 83

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	9.7	649	649	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	2.8	0.0	35	35	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	7.0	7636	40	0	0
475	DIRT	0.1	0.6	723	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	8.8	6.3	2078	133	0	0
700	BARREN	11.5	2.9	1729	72	0	0
825	UPLAND	10.6	13.4	1689	346	0	0
875	LANDSCAPED	7.2	17.1	1589	468	0	0
900	ICI	10.4	0.7	368	86	0	0
9999	BASIN	0.0	57.7	0	0	309	0

Average Basin Elevation:	309
Basin Area (ac.):	57.7
Effective Modeling Area (ac.):	48.0
Basin Area Not Modeled (ac.):	9.7
Basin % Not Modeled:	16.74

Road Type Summary		as % of total roads
TYPE 1 (36ft)	2431	27%
TYPE 2 (50 ft)	63	1%
TYPE 3 (60 ft)	0	0%
TYPE 4 (72 ft)	3207	72%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - South Chester Creek Predevelopment Conditions

Drainage Basin ID: 83

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	30.9	1159	1159	0	0
825	UPLAND	0.0	0.0	0	0	0	0
9999	BASIN	0	30.9	0	0		

Average Basin Elevation:	229
Basin Area (ac.):	30.9
Effective Modeling Area (ac.):	30.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 1

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	3.2	13.0	754	754	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.4	285	66	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	0.6	0.4	171	98	0	0
700	BARREN	1.4	0.2	204	35	0	0
825	UPLAND	7.3	0.7	177	177	0	0
875	LANDSCAPED	0.8	0.4	239	64	0	0
900	ICI	0.8	0.0	49	25	0	0
9999	BASIN	0.0	15.2	0	0	19	0

Average Basin Elevation:	19
Basin Area (ac.):	15.2
Effective Modeling Area (ac.):	15.1
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	0	0.0%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	255	45.6%
TYPE 4 (72 ft)	254	54.4%

Rainfall Factor:	2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 1

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	14.2	787	787	0	0
825	UPLAND	0.0	0.8	183	183	0	0
9999	BASIN	0	15.2	0	0		

Average Basin Elevation:	19
Basin Area (ac.):	15.2
Effective Modeling Area (ac.):	15.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 2

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	5.1	0.4	191	89	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.0	1210	36	0	0
475	DIRT	0.1	5.3	6133	38	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	6.5	2.9	2547	50	0	0
700	BARREN	6.5	2.7	3799	31	0	0
825	UPLAND	6.3	44.6	3350	580	0	0
875	LANDSCAPED	7.0	2.5	2000	55	0	0
900	ICI	6.7	3.1	3454	40	0	0
9999	BASIN	0.0	62.7	0	0	443	0

Average Basin Elevation:	443
Basin Area (ac.):	62.7
Effective Modeling Area (ac.):	62.6
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	5785	77.2%
TYPE 2 (50 ft)	1232	22.8%
TYPE 3 (60 ft)	0	0.0%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 2

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	1.7	325	225	0	0
825	UPLAND	0.0	61.0	1630	1630	0	0
9999	BASIN	0	62.7	0	0		

Average Basin Elevation:	443
Basin Area (ac.):	62.7
Effective Modeling Area (ac.):	62.7
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 3

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	3.2	26.7	1079	1079	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.6	433	64	0	0
475	DIRT	0.1	0.3	354	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	4.4	0.4	224	72	0	0
700	BARREN	6.3	0.3	405	31	0	0
825	UPLAND	12.4	12.2	861	618	0	0
875	LANDSCAPED	11.2	1.1	378	123	0	0
900	ICI	13.8	0.3	185	61	0	0
9999	BASIN	0.0	41.9	0	0	33	0

Average Basin Elevation:	33
Basin Area (ac.):	41.9
Effective Modeling Area (ac.):	41.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	324	21.8%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	434	48.8%
TYPE 4 (72 ft)	218	29.4%

Rainfall Factor:	2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 3

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	28.0	1105	1105	0	0
825	UPLAND	0.0	13.8	776	776	0	0
9999	BASIN	0	41.9	0	0		

Average Basin Elevation:	33
Basin Area (ac.):	41.9
Effective Modeling Area (ac.):	41.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 4

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	4.6	4383	46	0	0
475	DIRT	0.1	3.5	4026	38	0	0
500	PARKING	4.8	2.8	348	348	0	0
600	DCI	2.8	2.5	1047	105	0	0
700	BARREN	5.0	1.6	2595	27	0	0
825	UPLAND	5.7	38.5	3930	427	0	0
875	LANDSCAPED	5.4	3.2	1595	88	0	0
900	ICI	4.8	1.5	1799	36	0	0
9999	BASIN	0.0	58.4	0	0	363	0

Average Basin Elevation:	363
Basin Area (ac.):	58.4
Effective Modeling Area (ac.):	58.3
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	3917	38.2%
TYPE 2 (50 ft)	168	2.3%
TYPE 3 (60 ft)	3655	59.5%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 4

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
825	UPLAND	0.0	58.4	1595	1595	0	0
9999	BASIN	0	58.4	0	0		

Average Basin Elevation:	363
Basin Area (ac.):	58.4
Effective Modeling Area (ac.):	58.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 5

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	2.2	5.9	531	484	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.2	2238	44	0	0
475	DIRT	0.1	5.4	6523	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	7.7	2.4	2875	36	0	0
700	BARREN	8.4	2.5	3638	30	0	0
825	UPLAND	9.9	71.4	5349	581	0	0
875	LANDSCAPED	6.9	3.3	2214	66	0	0
900	ICI	7.9	2.8	3255	37	0	0
9999	BASIN	0.0	96.0	0	0	865	0

Average Basin Elevation:	865
Basin Area (ac.):	96.0
Effective Modeling Area (ac.):	95.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	6631	70.4%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	1674	29.6%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 5

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	12.8	1073	519	0	0
825	UPLAND	0.0	83.2	2570	1410	0	0
9999	BASIN	0	96.0	0	0		

Average Basin Elevation:	865
Basin Area (ac.):	96.0
Effective Modeling Area (ac.):	96.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 6

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.1	1.2	1446	37	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	10.7	0.2	319	29	0	0
700	BARREN	12.5	0.6	1123	24	0	0
825	UPLAND	20.5	34.2	1545	964	0	0
875	LANDSCAPED	18.2	1.4	595	104	0	0
900	ICI	8.6	0.3	317	44	0	0
9999	BASIN	0.0	38.0	0	0	793	0

Average Basin Elevation:	793
Basin Area (ac.):	38.0
Effective Modeling Area (ac.):	38.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1845	83.7%
TYPE 2 (50 ft)	259	16.3%
TYPE 3 (60 ft)	0	0.0%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	1.3
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 6

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	2.9	380	330	0	0
825	UPLAND	0.0	35.1	1236	1236	0	0
9999	BASIN	0	38.0	0	0		

Average Basin Elevation:	793
Basin Area (ac.):	38.0
Effective Modeling Area (ac.):	38.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 7

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	4.7	0.8	189	189	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	7.9	8036	43	0	0
475	DIRT	0.1	12.4	14814	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	8.7	5.2	6577	34	0	0
700	BARREN	11.4	4.5	7225	27	0	0
825	UPLAND	11.4	151.8	7043	939	0	0
875	LANDSCAPED	12.0	14.4	4435	141	0	0
900	ICI	11.4	7.2	7665	41	0	0
9999	BASIN	0.0	204.2	0	0	881	0

Average Basin Elevation:	881
Basin Area (ac.):	204.2
Effective Modeling Area (ac.):	204.1
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary	as % of total roads
TYPE 1 (36ft)	17297 70.4%
TYPE 2 (50 ft)	0 0.0%
TYPE 3 (60 ft)	4362 29.6%
TYPE 4 (72 ft)	0 0.0%

Rainfall Factor:	1.2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 7

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	18.5	952	846	0	0
825	UPLAND	0.0	185.7	2856	2833	0	0
9999	BASIN	0	204.2	0	0		

Average Basin Elevation:	881
Basin Area (ac.):	204.2
Effective Modeling Area (ac.):	204.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 8

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.9	1355	60	0	0
475	DIRT	0.1	4.5	5447	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	23.1	1.0	1104	41	0	0
700	BARREN	20.9	1.2	1786	29	0	0
825	UPLAND	25.6	49.0	2227	958	0	0
875	LANDSCAPED	21.4	1.9	1313	62	0	0
900	ICI	23.3	0.8	1133	30	0	0
9999	BASIN	0.0	60.3	0	0	1309	0

Average Basin Elevation:	1309
Basin Area (ac.):	60.3
Effective Modeling Area (ac.):	60.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	5155	69.3%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	1372	30.7%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 8

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
825	UPLAND	0.0	60.3	1620	1620	0	0
9999	BASIN	0	60.3	0	0		

Average Basin Elevation:	1309
Basin Area (ac.):	60.3
Effective Modeling Area (ac.):	60.3
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 9

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.4	177	94	0	0
475	DIRT	0.1	7.3	8851	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	10.3	2.0	2005	43	0	0
700	BARREN	11.2	2.4	3581	29	0	0
825	UPLAND	10.8	61.8	3736	721	0	0
875	LANDSCAPED	10.0	3.6	2380	66	0	0
900	ICI	10.9	3.5	3206	47	0	0
9999	BASIN	0.0	80.9	0	0	1106	0

Average Basin Elevation:	1106
Basin Area (ac.):	80.9
Effective Modeling Area (ac.):	81.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary	as % of total roads
TYPE 1 (36ft)	8421 100.0%
TYPE 2 (50 ft)	0 0.0%
TYPE 3 (60 ft)	0 0.0%
TYPE 4 (72 ft)	0 0.0%

Rainfall Factor:	2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 9

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
825	UPLAND	0.0	80.9	1877	1877	0	0
9999	BASIN	0	80.9	0	0		

Average Basin Elevation:	1106
Basin Area (ac.):	80.9
Effective Modeling Area (ac.):	80.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 10

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	4.4	4114	47	0	0
475	DIRT	0.1	3.9	4599	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	14.8	1.4	1369	46	0	0
700	BARREN	11.1	1.3	1790	33	0	0
825	UPLAND	17.0	30.3	1963	672	0	0
875	LANDSCAPED	15.0	10.5	1957	234	0	0
900	ICI	17.5	1.4	1735	35	0	0
9999	BASIN	0.0	53.3	0	0	902	0

Average Basin Elevation:	902
Basin Area (ac.):	53.3
Effective Modeling Area (ac.):	53.3
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	5003	47.1%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	3366	52.9%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 10

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	20.1	937	937	0	0
825	UPLAND	0.0	33.1	1201	1201	0	0
9999	BASIN	0	53.3	0	0		

Average Basin Elevation:	902
Basin Area (ac.):	53.3
Effective Modeling Area (ac.):	53.3
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 11

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	3.5	3828	40	0	0
475	DIRT	0.1	3.3	4029	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	10.5	1.8	1917	40	0	0
700	BARREN	8.1	1.2	1909	27	0	0
825	UPLAND	9.3	38.8	2263	748	0	0
875	LANDSCAPED	19.0	5.2	1029	219	0	0
900	ICI	7.9	1.6	1915	35	0	0
9999	BASIN	0.0	55.3	0	0	982	0

Average Basin Elevation:	982
Basin Area (ac.):	55.3
Effective Modeling Area (ac.):	55.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	4248	48.3%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	2732	51.7%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	1.05
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 11

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	6.1	515	515	0	0
825	UPLAND	0.0	49.2	1464	1464	0	0
9999	BASIN	0	55.3	0	0		

Average Basin Elevation:	982
Basin Area (ac.):	55.3
Effective Modeling Area (ac.):	55.3
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 12

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	4.0	3895	44	0	0
475	DIRT	0.1	2.6	3137	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	22.8	1.6	1539	45	0	0
700	BARREN	22.3	2.5	2673	41	0	0
825	UPLAND	23.3	144.9	3947	1599	0	0
875	LANDSCAPED	19.5	2.3	1509	68	0	0
900	ICI	22.5	2.2	1613	60	0	0
9999	BASIN	0.0	160.2	0	0	1274	0

Average Basin Elevation:	1274
Basin Area (ac.):	160.2
Effective Modeling Area (ac.):	160.1
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	4522	56.0%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	2135	44.0%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 12

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	19.7	926	926	0	0
825	UPLAND	0.0	140.5	2474	2474	0	0
9999	BASIN	0	160.2	0	0		

Average Basin Elevation:	1274
Basin Area (ac.):	160.2
Effective Modeling Area (ac.):	160.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 13

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.5	439	48	0	0
475	DIRT	0.1	5.0	5166	42	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	28.5	2.0	1253	71	0	0
700	BARREN	23.2	4.9	3534	60	0	0
825	UPLAND	25.8	185.5	4478	1805	0	0
875	LANDSCAPED	26.9	0.9	765	51	0	0
900	ICI	23.8	2.3	2368	42	0	0
9999	BASIN	0.0	201.0	0	0	1397	0

Average Basin Elevation:	1397
Basin Area (ac.):	201.0
Effective Modeling Area (ac.):	201.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	3981	58.3%
TYPE 2 (50 ft)	1589	32.3%
TYPE 3 (60 ft)	387	9.4%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 13

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	14.9	807	807	0	0
825	UPLAND	0.0	186.1	2847	2847	0	0
9999	BASIN	0	201.0	0	0		

Average Basin Elevation:	1397
Basin Area (ac.):	201.0
Effective Modeling Area (ac.):	201.0
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 14

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.1	1.0	1191	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	6.3	0.3	266	51	0	0
700	BARREN	17.3	0.3	512	22	0	0
825	UPLAND	24.6	17.0	1017	727	0	0
875	LANDSCAPED	32.3	0.8	526	70	0	0
900	ICI	9.0	0.4	380	44	0	0
9999	BASIN	0.0	19.7	0	0	847	0

Average Basin Elevation:	847
Basin Area (ac.):	19.7
Effective Modeling Area (ac.):	19.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary	as % of total roads
TYPE 1 (36ft)	1285 100.0%
TYPE 2 (50 ft)	0 0.0%
TYPE 3 (60 ft)	0 0.0%
TYPE 4 (72 ft)	0 0.0%

Rainfall Factor:	2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 14

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.1	77	77	0	0
825	UPLAND	0.0	19.6	924	924	0	0
9999	BASIN	0	19.7	0	0		

Average Basin Elevation:	847
Basin Area (ac.):	19.7
Effective Modeling Area (ac.):	19.7
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 15

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.3	1195	48	0	0
475	DIRT	0.1	2.1	2329	39	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	12.1	1.3	534	106	0	0
700	BARREN	12.5	0.7	1333	23	0	0
825	UPLAND	14.0	36.2	2192	719	0	0
875	LANDSCAPED	12.6	2.6	1149	98	0	0
900	ICI	10.9	1.5	593	107	0	0
9999	BASIN	0.0	45.6	0	0	1044	0

Average Basin Elevation:	1044
Basin Area (ac.):	45.6
Effective Modeling Area (ac.):	45.6
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	3287	67.5%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	951	32.5%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 15

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
825	UPLAND	0.0	45.6	1410	1410	0	0
9999	BASIN	0	45.6	0	0		

Average Basin Elevation:	1044
Basin Area (ac.):	45.6
Effective Modeling Area (ac.):	45.6
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 16

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.0	0.0	0	0	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	15.7	0.1	143	36	0	0
700	BARREN	18.4	0.7	1045	27	0	0
825	UPLAND	21.9	181.7	2815	2811	0	0
875	LANDSCAPED	9.6	0.2	146	59	0	0
900	ICI	21.0	0.1	205	23	0	0
9999	BASIN	0.0	182.8	0	0	1304	0

Average Basin Elevation:	1304
Basin Area (ac.):	182.8
Effective Modeling Area (ac.):	182.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary	as % of total roads	
TYPE 1 (36ft)	0	#DIV/0!
TYPE 2 (50 ft)	0	#DIV/0!
TYPE 3 (60 ft)	0	#DIV/0!
TYPE 4 (72 ft)	0	#DIV/0!

Rainfall Factor:	2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 16

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	10.1	816	540	0	0
825	UPLAND	0.0	172.6	2742	2742	0	0
9999	BASIN	0	182.8	0	0		

Average Basin Elevation:	1304
Basin Area (ac.):	182.8
Effective Modeling Area (ac.):	182.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 17

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.1	95	60	0	0
475	DIRT	0.1	0.9	1038	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	14.7	0.3	351	37	0	0
700	BARREN	16.2	0.7	1042	28	0	0
825	UPLAND	18.1	78.8	2010	1708	0	0
875	LANDSCAPED	15.8	2.5	764	140	0	0
900	ICI	13.4	0.6	786	31	0	0
9999	BASIN	0.0	83.8	0	0	1226	0

Average Basin Elevation:	1226
Basin Area (ac.):	83.8
Effective Modeling Area (ac.):	83.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1146	88.3%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	91	11.7%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 17

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	2.5	331	331	0	0
825	UPLAND	0.0	81.3	1882	1882	0	0
9999	BASIN	0	83.8	0	0		

Average Basin Elevation:	1226
Basin Area (ac.):	83.8
Effective Modeling Area (ac.):	83.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
------------------	---

Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 18

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.9	2577	48	0	0
475	DIRT	0.1	4.2	5129	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	14.0	0.8	1044	34	0	0
700	BARREN	15.0	1.1	1934	24	0	0
825	UPLAND	17.4	82.5	3091	1163	0	0
875	LANDSCAPED	18.2	13.4	2067	283	0	0
900	ICI	15.7	0.9	1240	33	0	0
9999	BASIN	0.0	105.9	0	0	1041	0

Average Basin Elevation:	1041
Basin Area (ac.):	105.9
Effective Modeling Area (ac.):	105.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary	as % of total roads
TYPE 1 (36ft)	5635 62.3%
TYPE 2 (50 ft)	0 0.0%
TYPE 3 (60 ft)	2042 37.7%
TYPE 4 (72 ft)	0 0.0%

Rainfall Factor:	2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 18

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	5.4	485	485	0	0
825	UPLAND	0.0	100.5	2092	2092	0	0
9999	BASIN	0	105.9	0	0		

Average Basin Elevation:	1041
Basin Area (ac.):	105.9
Effective Modeling Area (ac.):	105.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
------------------	---

Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 19

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	4.6	4106	49	0	0
475	DIRT	0.1	10.4	12532	36	0	0
500	PARKING	2.0	0.5	141	141	0	0
600	DCI	5.4	4.5	4275	46	0	0
700	BARREN	7.0	3.5	4457	34	0	0
825	UPLAND	8.3	132.1	5111	1126	0	0
875	LANDSCAPED	6.8	4.7	2680	76	0	0
900	ICI	7.3	4.4	4929	39	0	0
9999	BASIN	0.0	164.6	0	0	265	0

Average Basin Elevation:	265
Basin Area (ac.):	164.6
Effective Modeling Area (ac.):	164.5
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	13971	69.6%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	3656	30.4%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 19

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
825	UPLAND	0.0	164.6	2677	2677	0	0
9999	BASIN	0	164.6	0	0		

Average Basin Elevation:	265
Basin Area (ac.):	164.6
Effective Modeling Area (ac.):	164.6
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 20

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.5	1249	52	0	0
475	DIRT	0.1	3.3	3985	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	14.0	1.4	931	66	0	0
700	BARREN	15.0	1.0	1563	27	0	0
825	UPLAND	11.9	30.3	2688	491	0	0
875	LANDSCAPED	15.1	3.0	1051	123	0	0
900	ICI	14.0	1.2	1500	34	0	0
9999	BASIN	0.0	41.5	0	0	213	0

Average Basin Elevation:	213
Basin Area (ac.):	41.5
Effective Modeling Area (ac.):	41.5
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	3963	68.4%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	1098	31.6%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 20

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
825	UPLAND	0.0	41.5	1344	1344	0	0
9999	BASIN	0	41.5	0	0		

Average Basin Elevation:	213
Basin Area (ac.):	41.5
Effective Modeling Area (ac.):	41.5
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 21

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	4.9	13.8	1096	548	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	4.0	3835	45	0	0
475	DIRT	0.1	8.2	9980	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	7.4	3.0	2556	50	0	0
700	BARREN	7.1	5.2	8784	26	0	0
825	UPLAND	7.7	104.7	4186	1090	0	0
875	LANDSCAPED	6.5	5.5	3614	66	0	0
900	ICI	7.5	4.0	4316	40	0	0
9999	BASIN	0.0	148.4	0	0	853	0

Average Basin Elevation:	853
Basin Area (ac.):	148.4
Effective Modeling Area (ac.):	148.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary	as % of total roads
TYPE 1 (36ft)	12449 78.9%
TYPE 2 (50 ft)	0 0.0%
TYPE 3 (60 ft)	2001 21.1%
TYPE 4 (72 ft)	0 0.0%

Rainfall Factor:	2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 21

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	45.4	1406	1406	0	0
825	UPLAND	0.0	103.1	2289	1961	0	0
9999	BASIN	0	148.4	0	0		

Average Basin Elevation:	853
Basin Area (ac.):	148.4
Effective Modeling Area (ac.):	148.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 22

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	8.3	7769	47	0	0
475	DIRT	0.1	7.7	8495	39	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	12.9	3.2	3226	43	0	0
700	BARREN	18.1	4.8	7697	27	0	0
825	UPLAND	18.3	151.2	4233	1556	0	0
875	LANDSCAPED	10.8	5.1	2790	79	0	0
900	ICI	15.6	3.4	4376	34	0	0
9999	BASIN	0.0	183.7	0	0	648	0

Average Basin Elevation:	648
Basin Area (ac.):	183.7
Effective Modeling Area (ac.):	183.7
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	7251	37.2%
TYPE 2 (50 ft)	1532	10.9%
TYPE 3 (60 ft)	6062	51.9%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 22

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	21.8	1097	868	0	0
825	UPLAND	0.0	161.9	2665	2646	0	0
9999	BASIN	0	183.7	0	0		

Average Basin Elevation:	648
Basin Area (ac.):	183.7
Effective Modeling Area (ac.):	183.7
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 23

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.1	1.9	2258	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	7.2	0.8	797	43	0	0
700	BARREN	7.5	1.2	1932	28	0	0
825	UPLAND	8.9	27.7	2014	600	0	0
875	LANDSCAPED	8.2	0.8	652	53	0	0
900	ICI	7.9	1.4	1201	51	0	0
9999	BASIN	0.0	33.9	0	0	316	0

Average Basin Elevation:	316
Basin Area (ac.):	33.9
Effective Modeling Area (ac.):	33.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary	as % of total roads
TYPE 1 (36ft)	2267 100.0%
TYPE 2 (50 ft)	0 0.0%
TYPE 3 (60 ft)	0 0.0%
TYPE 4 (72 ft)	0 0.0%

Rainfall Factor:	2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 23

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
825	UPLAND	0.0	33.9	1215	1215	0	0
9999	BASIN	0	33.9	0	0		

Average Basin Elevation:	316
Basin Area (ac.):	33.9
Effective Modeling Area (ac.):	33.9
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 24

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	8.4	4.4	436	436	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	4.5	4424	44	0	0
475	DIRT	0.1	3.9	4728	36	0	0
500	PARKING	6.8	0.7	227	132	0	0
600	DCI	8.5	4.4	3235	60	0	0
700	BARREN	8.9	4.2	4330	42	0	0
825	UPLAND	10.6	58.9	3331	770	0	0
875	LANDSCAPED	8.2	5.2	1376	166	0	0
900	ICI	9.4	3.4	3092	47	0	0
9999	BASIN	0.0	89.6	0	0	191	0

Average Basin Elevation:	191
Basin Area (ac.):	89.6
Effective Modeling Area (ac.):	89.5
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	5304	52.3%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	2908	47.7%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 24

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	4.3	435	435	0	0
825	UPLAND	0.0	85.3	1928	1928	0	0
9999	BASIN	0	89.6	0	0		

Average Basin Elevation:	191
Basin Area (ac.):	89.6
Effective Modeling Area (ac.):	89.6
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 25

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	3.5	6.3	780	352	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	6.4	5625	49	0	0
475	DIRT	0.1	8.3	9873	37	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	6.9	4.6	3402	58	0	0
700	BARREN	6.4	6.2	7913	34	0	0
825	UPLAND	5.9	91.5	6367	626	0	0
875	LANDSCAPED	7.5	3.7	4355	37	0	0
900	ICI	5.7	5.2	4881	46	0	0
9999	BASIN	0.0	132.2	0	0	470	0

Average Basin Elevation:	470
Basin Area (ac.):	132.2
Effective Modeling Area (ac.):	132.1
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	9236	52.2%
TYPE 2 (50 ft)	635	5.0%
TYPE 3 (60 ft)	4553	42.9%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	1.15
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 25

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	14.5	1369	462	0	0
825	UPLAND	0.0	117.6	2264	2264	0	0
9999	BASIN	0	132.2	0	0		

Average Basin Elevation:	470
Basin Area (ac.):	132.2
Effective Modeling Area (ac.):	132.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.15
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 26

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.1	4.0	4672	37	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	9.9	1.6	1724	42	0	0
700	BARREN	9.7	2.9	4687	27	0	0
825	UPLAND	10.4	43.7	2625	726	0	0
875	LANDSCAPED	9.4	1.1	1000	47	0	0
900	ICI	9.8	2.8	2764	45	0	0
9999	BASIN	0.0	56.2	0	0	618	0

Average Basin Elevation:	618
Basin Area (ac.):	56.2
Effective Modeling Area (ac.):	56.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	4141	90.2%
TYPE 2 (50 ft)	323	9.8%
TYPE 3 (60 ft)	0	0.0%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	2
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Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 26

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
825	UPLAND	0.0	56.2	1564	1564	0	0
9999	BASIN	0	56.2	0	0		

Average Basin Elevation:	618
Basin Area (ac.):	56.2
Effective Modeling Area (ac.):	56.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
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Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 27

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	5.9	6.0	864	305	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	3.4	3555	41	0	0
475	DIRT	0.1	5.6	6693	37	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	9.0	3.9	4085	42	0	0
700	BARREN	8.7	5.6	7794	31	0	0
825	UPLAND	8.9	67.5	3633	810	0	0
875	LANDSCAPED	9.4	2.9	2917	44	0	0
900	ICI	9.5	5.2	5764	39	0	0
9999	BASIN	0.0	100.3	0	0	683	0

Average Basin Elevation:	683
Basin Area (ac.):	100.3
Effective Modeling Area (ac.):	100.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	7615	72.1%
TYPE 2 (50 ft)	80	1.1%
TYPE 3 (60 ft)	1705	26.9%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	1.3
------------------	-----

Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 27

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	9.0	1018	383	0	0
825	UPLAND	0.0	91.4	1995	1995	0	0
9999	BASIN	0	100.3	0	0		

Average Basin Elevation:	683
Basin Area (ac.):	100.3
Effective Modeling Area (ac.):	100.3
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
------------------	-----

Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 28

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.1	1.0	1186	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	17.4	0.1	91	25	0	0
700	BARREN	17.8	0.0	96	20	0	0
825	UPLAND	17.0	8.2	1025	349	0	0
875	LANDSCAPED	14.0	1.3	432	128	0	0
900	ICI	12.6	0.2	293	31	0	0
9999	BASIN	0.0	10.8	0	0	840	0

Average Basin Elevation:	840
Basin Area (ac.):	10.8
Effective Modeling Area (ac.):	10.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1230	100.0%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	0	0.0%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	2
------------------	---

Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 28

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.8	224	149	0	0
825	UPLAND	0.0	10.0	661	661	0	0
9999	BASIN	0	10.8	0	0		

Average Basin Elevation:	840
Basin Area (ac.):	10.8
Effective Modeling Area (ac.):	10.8
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
------------------	---

Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 29

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.1	1.3	1521	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	12.4	0.1	139	27	0	0
700	BARREN	11.1	0.4	477	33	0	0
825	UPLAND	13.2	8.6	955	392	0	0
875	LANDSCAPED	13.4	1.8	692	115	0	0
900	ICI	11.6	0.2	325	32	0	0
9999	BASIN	0.0	12.4	0	0	864	0

Average Basin Elevation:	864
Basin Area (ac.):	12.4
Effective Modeling Area (ac.):	12.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1976	100.0%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	0	0.0%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	1.3
------------------	-----

Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 29

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
825	UPLAND	0.0	12.4	734	734	0	0
9999	BASIN	0	12.4	0	0		

Average Basin Elevation:	864
Basin Area (ac.):	12.4
Effective Modeling Area (ac.):	12.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.3
------------------	-----

Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 30

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	2.2	2129	44	0	0
475	DIRT	0.1	1.2	1464	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	10.9	0.4	576	30	0	0
700	BARREN	10.9	1.0	1616	26	0	0
825	UPLAND	14.7	25.7	1996	562	0	0
875	LANDSCAPED	14.3	4.4	976	194	0	0
900	ICI	14.0	0.6	781	34	0	0
9999	BASIN	0.0	35.4	0	0	919	0

Average Basin Elevation:	919
Basin Area (ac.):	35.4
Effective Modeling Area (ac.):	35.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1585	38.2%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	1537	61.8%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	2
------------------	---

Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 30

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
825	UPLAND	0.0	35.4	1242	1242	0	0
9999	BASIN	0	35.4	0	0		

Average Basin Elevation:	919
Basin Area (ac.):	35.4
Effective Modeling Area (ac.):	35.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	2
------------------	---

Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 31

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.0	0.0	0	0	0	0
475	DIRT	0.1	0.4	503	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	21.0	0.0	29	29	0	0
700	BARREN	11.2	0.0	41	21	0	0
825	UPLAND	26.3	5.8	502	502	0	0
875	LANDSCAPED	11.9	0.5	142	142	0	0
900	ICI	13.4	0.0	37	19	0	0
9999	BASIN	0.0	6.7	0	0	794	0

Average Basin Elevation:	794
Basin Area (ac.):	6.7
Effective Modeling Area (ac.):	6.7
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	478	100.0%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	0	0.0%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	1.1
------------------	-----

Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 31

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.4	138	125	0	0
825	UPLAND	0.0	6.3	523	523	0	0
9999	BASIN	0	6.7	0	0		

Average Basin Elevation:	794
Basin Area (ac.):	6.7
Effective Modeling Area (ac.):	6.7
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.1
------------------	-----

Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 32

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	7.0	6.8	880	338	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	1.1	1147	42	0	0
475	DIRT	0.1	23.3	28139	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	8.6	5.9	5855	44	0	0
700	BARREN	8.1	12.1	15909	33	0	0
825	UPLAND	8.5	184.7	10811	744	0	0
875	LANDSCAPED	8.6	9.4	6414	64	0	0
900	ICI	8.2	11.1	11323	43	0	0
9999	BASIN	0.0	254.1	0	0	561	0

Average Basin Elevation:	561
Basin Area (ac.):	254.1
Effective Modeling Area (ac.):	254.3
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary	as % of total roads
TYPE 1 (36ft)	26446 90.9%
TYPE 2 (50 ft)	1416 6.8%
TYPE 3 (60 ft)	413 2.4%
TYPE 4 (72 ft)	0 0.0%

Rainfall Factor:	1.1
------------------	-----

Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 32

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	19.8	1805	479	0	0
825	UPLAND	0.0	234.3	3195	3195	0	0
9999	BASIN	0	254.1	0	0		

Average Basin Elevation:	561
Basin Area (ac.):	254.1
Effective Modeling Area (ac.):	254.1
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.1
------------------	-----

Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 33

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	4.8	0.9	198	198	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.4	310	60	0	0
475	DIRT	0.1	9.2	9653	42	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	8.7	1.6	2147	32	0	0
700	BARREN	8.6	3.7	5887	27	0	0
825	UPLAND	17.4	125.3	4469	1222	0	0
875	LANDSCAPED	8.6	3.9	2443	69	0	0
900	ICI	9.7	3.3	3468	42	0	0
9999	BASIN	0.0	148.4	0	0	503	0

Average Basin Elevation:	503
Basin Area (ac.):	148.4
Effective Modeling Area (ac.):	148.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	7296	62.2%
TYPE 2 (50 ft)	2854	33.8%
TYPE 3 (60 ft)	285	4.0%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	1.05
------------------	------

Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 33

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	14.3	1121	557	0	0
825	UPLAND	0.0	134.1	2417	2417	0	0
9999	BASIN	0	148.4	0	0		

Average Basin Elevation:	503
Basin Area (ac.):	148.4
Effective Modeling Area (ac.):	148.4
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.05
------------------	------

Note: "Water" areas not modeled in SWMM for predevelopment conditions

SWMM Input Data - Rabbit Creek Current Conditions

Drainage Basin ID: 34

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
0	UNKNOWN	0.0	0.0	0	0	0	0
100	WATER	0.0	0.0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
300	DITCH	0.0	0.0	0	0	0	0
425	PAVED	0.1	0.8	691	52	0	0
475	DIRT	0.1	1.4	1677	36	0	0
500	PARKING	0.0	0.0	0	0	0	0
600	DCI	7.7	0.5	717	32	0	0
700	BARREN	9.7	0.8	1402	26	0	0
825	UPLAND	17.3	24.9	1283	845	0	0
875	LANDSCAPED	12.7	2.9	802	155	0	0
900	ICI	8.9	0.9	1203	33	0	0
9999	BASIN	0.0	32.2	0	0	192	0

Average Basin Elevation:	192
Basin Area (ac.):	32.2
Effective Modeling Area (ac.):	32.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0.00

Road Type Summary		as % of total roads
TYPE 1 (36ft)	1651	62.3%
TYPE 2 (50 ft)	0	0.0%
TYPE 3 (60 ft)	600	37.7%
TYPE 4 (72 ft)	0	0.0%

Rainfall Factor:	1.15
------------------	------

Note: "Unknown" and "Water" areas not modeled in SWMM for current conditions

SWMM Input Data - Rabbit Creek Predevelopment Conditions

Drainage Basin ID: 34

SWMM Code	Land Cover	Percent Slope	Area (acres)	Effective Width	Effective Length	Minimum Elevation	Maximum Elevation
100	WATER	0	0	0	0	0	0
200	WETLAND	0.0	0.0	0	0	0	0
825	UPLAND	0.0	32.2	1184	1184	0	0
9999	BASIN	0	32.2	0	0		

Average Basin Elevation:	192
Basin Area (ac.):	32.2
Effective Modeling Area (ac.):	32.2
Basin Area Not Modeled (ac.):	0.0
Basin % Not Modeled:	0

Rainfall Factor:	1.15
------------------	------

Note: "Water" areas not modeled in SWMM for predevelopment conditions

Appendix B

Bibliography of Infiltration Values

Appendix B: Bibliography for Infiltration Values

- Davis, Stanley N. and Roger J. M. DeWiest. 1966. Hydrogeology. New York: John Wiley & Sons, Inc. 463 p.
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- Kashef, Abdel-Aziz Ismail. 1986. Groundwater Engineering. New York: McGraw-Hill. 512 p.
- MacFarlane, Ivan C., ed. 1969. Muskeg Engineering Handbook: National Research Council of Canada. University of Toronto Press. 297p.
- Morris D. A. and A. I. Johnson. 1967. Summary of Hydrologic and Physical Properties of Rock and Soil Materials, as Analyzed by the Hydrologic Laboratory of the U.S. Geological Survey 1948-60. Geological Survey Water-Supply Paper 1839-D. pD1-D42.
- Walton, William C. 1984. Practical Aspects of Groundwater Modeling. National Water Well Association. 566 p.

Appendix C

Example Input File

```

*
*      <<<<<<<<  SWMM 4.4H (beta) RUNOFF INPUT DATA FILE >>>>>>>>
*****
*****
**      WMS - Main Chester Creek - Drainage 1 - Present
**
**      Discharge across land cover types via overland flow routing.
**      Flow rates are calculated via a dummy outlet at the bottom of the
**      outfall basin. This dummy outlet receives the runoff from the Paved, Parking
**      and upland areas. ICI is distributed to upland, and DCI is distributed to Paved
**      roads.
**
**      The model is run using 1965 temperature, rainfall, and wind data from
**      the NWS station at Ted Stevens Intl. Airport. Simulation was set to
**      run from 4/1/65 through 4/1/66.
**      1965 temp/rainfall values were used in lieu of 1964/1966 values.
**      Temperature values were not altered.
**
**
**      For the snow-melt routine, Areal-depletion curve values were derived from
**      the values calibrated from the 1999 MW OGS study.
**
**      Evaporation values were derived from NWS Data
**
*=====
*      The SW card sets up the interface files to be used or created.
*      There is one output file (#9) that will contain the time series
*      of flows and pollutant loads for subsequent blocks.
*=====
*  NBLOCK  JIN(1)  JOUT(1)
SW      1      4      9
*=====
*      The MM card opens the scratch files to be used by different subroutines.
*      Up to 9 scratch files are required by the Runoff Block.
*=====
*  NITCH  NSCRAT(1) NSCRAT(2) NSCRAT(3) NSCRAT(4) NSCRAT(5) NSCRAT(6) NSCRAT(7)
MM      9      1      2      3      10      11      12      13
*      NSCRAT(8)  NSCRAT(9)
*      14      15
*=====
*      The @ command is used to permanently save an interface or
*      scratch file. This line should be placed before the first SWMM
*      block call. The format of the @ command is as follows:
*=====
*Column 1      Unit number of the      Name of the interface
*               interface file saved     file (any valid DOS filename),
*               or utilized               including optional path.
*
*****
*****
@              1              'RAIN_1.OUT'
@              3              'TEMP_1.OUT'
@              9              'CHS1.OUT'
*=====
*Column 1
* $ANUM ==> Use alphanumeric labels for subcatchment and channel/pipe
*           labels -- WHEREVER ENCOUNTERED AND IN ALL SUBSEQUENT BLOCKS.
*           Names (IDs) must be enclosed in single quotes. A maximum length
*           of 6 characters for a label is recommended. Longer names (max
*           of 8 characters) may not print out correctly but will
*           be input OK.
*=====
*Column 1
* $NOQUOTE ==> Omit on-screen and printed literary quotations in SWMM output.
*=====
$RUNOFF      Call the RUNOFF block with a '$' in first column.
*=====
*      Create title lines for the simulation. There are two title lines
*      for the Runoff Block. Titles are enclosed in single quotes.
*=====
*      A1 Line      :
*      Title        : Two lines (both with A1 identifier) with heading
*                      to be printed on output.
*                      Each line has format A76 (76 characters, maximum).
*=====
*****
*****
A1 'Main Chester Creek - Drainage 1 - Present'
A1 'Anchorage, Alaska'
*=====
*      The 'B' lines are for program control purposes.
*=====
*      B1 Line      :
*      METRIC        : Metric input-output.
*                      = 0, Use U.S. customary units
*                      = 1, Use metric units. Metric input indicated
*                      in brackets [] in remainder of this table.
*      ISNOW         : Snowmelt parameter.
*                      = 0, Snowmelt not simulated.
*                      = 1, Single event snowmelt simulation.
*                      = 2, Continuous snowmelt simulation.
*      NRGAG         : Number of hyetographs (rain gages),
*                      Maximum is limited by MAXRG parameter in Tapes.inc
*      INFILM        : Choice of infiltration equation
*                      = 0, Horton equation used.

```



```

*           = 1, Green-Ampt equation used.
*           = 2, Horton equation with maximum infiltration
*             volume limiting infiltration.
*           In this version, the available infiltration volume for the
*           Horton option will recover during dry periods.
*           = 3, Green-Ampt equation with maximum infiltration
*             volume limiting infiltration.
*           DON'T USE INFILM = 3 TEMPORARILY. WCH, 6/10/97.
*           In this version, 3 for G-A can only be used for single
*           event simulation as the infiltration volume is not
*           regenerated during dry periods.
*           KWALTY      : Quality (or erosion) simulated?
*                       = 0, No.
*                       = 1, Yes.
*           IVAP        : Evaporation parameter
*                       = 0, Evaporation data not read in,
*                         default rate used of 0.1 in/day [3.0 mm/day].
*                       = 1, Read monthly evaporation data in Group F1
*                         in units of inch/day [mm/day].
*                       = 2, Read monthly evaporation data in Group F1
*                         in units of inch/month [mm/month].
*                       = 3, Read monthly evaporation data on lines
*                         F1 and F2,
*                         in units of inch/month [mm/month].
*                       = 4, Read evaporation time series on NSCRAT(3)
*                         file as created by the TEMP Block of SWMM.
*           NOTE! If it is desired to have no (zero) evaporation
*           during time steps when it is raining or snowing, input
*           IVAP as a negative number, i.e., IVAP = -1, -2, -3
*           or -4 instead of a positive number. This option can
*           only be used if IVAP not equal to 0. If IVAP < 0,
*           there will be zero surface or subsurface evaporation
*           during any time step with rain or snow on that
*           subcatchment and zero evaporation from all channel/
*           pipes if there is rain or snow on any subcatchment.
*           Normal evaporation continues when precipitation = 0.
*
*           NHR         : Hour of day of start of storm (24 hour clock,
*                         midnight = 00).
*           NMN         : Minute of hour of start of storm (0 - 59).
*           NDAY        : Day of month of start of simulation (1 - 31).
*           MONTH       : Month of start of simulation (1 - 12).
*           IYRSTR      : Year of start of simulation (4 digits).
*                       If less than 4 digits are entered, then
*                       program assumes 1900.
*           Optional input to control evaporation on
*           channels but does not need to be entered.
*           If not entered or 0, then the default is to allow
*           evaporation as controlled by IVAP.
*           IF 1 then evaporation is never allowed from channels.
*
*           IVCHAN      : 0 - Allow evaporation from channels.
*                       : 1 - Don't allow evaporation from channels.
**
** The B1 line sets the starting date of the simulation, in this case (post-development)
** a year long simulation is run, beginning April 1
*****
* METRIC ISNOW NRGAG INFILM KWALTY IVAP NHR NMN NDAY MONTH IYRSTR [IVCHAN]
B1 0 2 1 1 1 1 00 59 1 4 1965
*****
*           B2 Line      :
*           IPRN(1)      : Print control for SWMM input.
*                       = 0, Print all input data.
*                       = 1, Do not print channel/pipe, snowmelt,
*                         subcatchment, or quality data, only control
*                         information is printed.
*                       = K, where K equals possible combinations of
*                         channel/pipe(2), snowmelt(3), subcatchment(4),
*                         or water quality(5). For example:
*                         Channel/pipe + subcatchment would be 24,
*                         Channel/pipe + subcatchment + quality would be 245.
*           IPRN(2)      : Print control for Runoff Block graphs.
*                       = 0, Plot all graphs.
*                       = 1, Do not plot hyetograph(s) (for each gage),
*                         or inlet hydrograph (sum of all inlets).
*           IPRN(3)      : Print control for output of SWMM. 'Totals'
*                         below refer to precipitation, runoff and all
*                         quality parameters. Done for each inlet. Daily,
*                         monthly, and yearly printouts only function if
*                         simulation is long enough.
*                       = 0, Do not print daily, monthly, or yearly totals.
*                       = 1, Monthly and annual totals only, one year
*                         per page.
*                       = 2, Daily, monthly and annual totals, two months
*                         per page. Daily totals are printed whenever
*                         there is non-zero precipitation and/or runoff.
*
*           The following parameters are truly optional and may
*           be omitted from line B2 without an error.
*
*           IPRNGW       = 0, Print up to 10,000 ground water routine error
*                         messages.
*                       > 0, Print limit of IPRNGW ground water routine
*                         error messages.
*           NOHEAD       = 0, For time series output in M-lines, reprint

```

```

*
*          headers after every 50 lines (historic
*          mode).
*          = 1, Print headers only at top of output. This
*          mode may facilitate post-processing using
*          M-line output.
*          LANDUPR = 0, Do not include percentages from each land
*          use for surface washoff summary in overall
*          quality summary (historic mode).
*          = 1, Do include percentages for each land use.
*          These will be inserted into quality summary
*          table.
*=====
*  IPRN(1) IPRN(2) IPRN(3)  IRPNGW  NOHEAD  LANDUPR
B2      0      1      1      50      1      1
*=====
*  The B3 line contains time step and duration-of-run parameters.
*  The program starts at date/time indicated on line B1. It then
*  uses time steps WET, WETDRY and DRY to simulate to an ending date/time
*  specified by parameter LONG.
*
*  B3 Line      :
*  WET          : Wet time step (seconds). WET must be => 1 second.
*                Typical: 60-300-900 sec for event simulation; 900
*                or 3600 sec for continuous simulation. WET time
*                step is used only during time steps with precip.
*  WETDRY       : Transition (no rain but water on surface or in
*                channels) between wet and dry time step (seconds).
*                WETDRY is used during 1) residual overland flow
*                (no precipitation), 2) residual channel/pipe flow,
*                3) snowmelt, 4) groundwater outflow to channel/
*                pipes. WETDRY should be greater than or equal
*                to WET and less than or equal to DRY.
*                Typical: = WET for event simulation; 3600 - 7200
*                for continuous simulation.
*                Note, decrease WETDRY toward WET for better
*                resolution and lower continuity errors, but at
*                the expense of greater computer time during
*                continuous simulation.
*  DRY          : Dry time step (seconds). DRY must be greater
*                than or equal to WET. Typical: = WET for event
*                simulation; 7200 - 86400 sec for continuous
*                simulation. DRY time step principally affects
*                groundwater ET and deep percolation and residual
*                surface evaporation and infiltration.
*
*  Note: DRY and WETDRY time steps are only approximated during
*  time intervals with no precipitation. Thus, print-outs may
*  occur at intervals that do not correspond exactly to DRY
*  or WETDRY.
*
*  LUNIT        : Units of LONG (simulation length).
*                = 0, seconds.      = 1, minutes.
*                = 2, hours.        = 3, days.
*                = 4, ending date, a eight figure number
*                (year/mo/dy), e.g. 19870730.
*                If year is two digits, program assumes 1900.
*  LONG         : Simulation length (units from LUNIT). A real
*                number, not an integer.
** The B3 line sets the ending date and also sets the time step to one hour
** One hour was used because this is the interval of the rainfall data
*=====
*                SIMULATION LENGTH 4/65 - 4/66
*  WET  WET/DRY  DRY  LUNIT LONG
B3  3600.  3600.0  3600.  4      19660401
*=====
*  B4 is an optional data group. The B4 data group is used only when the
*  user desires to modify one of SWMM's subcatchment default parameters.
*=====
*  B4 Line      :
*  PCTZER       : Percent of impervious area with zero detention
*                (immediate runoff). Default = 25%.
*  REGEN        : For continuous SWMM, infiltration capacity is
*                regenerated using a Horton type exponential rate
*                constant equal to REGEN*DECAY, where DECAY is the
*                Horton rate constant read in for each subcatchment
*                in group H1. Default = 0.01. Not required for
*                Green-Ampt infiltration.
**
** Regen was ingored because we're using Green-Ampt. Setting PCTZER to 25 provided
** some immediate runoff from 25% of the impervious surfaces
**
*=====
*  PCTZER      REGEN
B4      25      0.01
*=====
*  Use line C1 to input general snow input data.
*  If ISNOW = 0 in group B1, skip to group D1.
*=====
*  C1 Line      :
*  ELEV         : Average watershed elevation, ft, msl [m, msl].
*  FWFRAC(1)    : Ratio of free water holding capacity to snow depth
*                (in. or mm w.e.= water equivalent) on snow
*                covered impervious area.
*  FWFRAC(2)    : Ratio of free water holding capacity to snow depth
*                (in. or mm w.e.) on snow covered pervious area.

```

```

*=====
*      Note: The following parameters are required only for ISNOW=2.
*=====
*      FWFRAC(3)  : Ratio of free water holding capacity to snow depth
*                  (in. or mm w.e.) for snow on normally bare
*                  impervious area.
*      SNOTMP     : Dividing temperature between snow and rain,
*                  F [C]. Precipitation occurring at air
*                  temperatures above this value will be rain,
*                  at or below will be snow.
*      SCF        : Snow gage catch correction factor.
*                  Snow depths computed from NWS precipitation tape
*                  will be multiplied by this value.
*      TIPM       : Weight used to compute antecedent temperature index,
*                  0 <= TIPM <= 1.0. Low values (e.g., 0.1) give
*                  more weight to past temperatures. Values > 0.5
*                  essentially give weight to temperatures only
*                  during the past day.
*      RNM        : Ratio of negative melt coefficient to melt
*                  coefficient. "Negative melt coefficient" is used
*                  when snow is warming or cooling below the base melt
*                  temperature without producing liquid melt. RNM is
*                  usually <= 1.0 with a typical value of 0.6.
*      ANGLAT     : Average latitude of watershed, degrees north.
*      DTLONG     : Longitude correction, standard time minus
*                  mean solar time, minutes (of time).
*=====
*****
** This input line uses results of calibration data from the 1999 OGS study
*****
*      ELEV FWFRAC(1) FWFRAC(2) FWFRAC(3) SNOTMP SCF TIPM RNM ANGLAT DTLONG
C1  120  0.02  0.10  0.02  33  1  0.3  0.75  61  60
*=====
*      Use line C2 to input average Monthly Wind Speeds. Enter pairs of values
*      (month number, wind speed) only for months with potential snow
*      melt. Enter values for months in any order. Months not entered
*      are assumed to have zero wind.
*=====
*      C2 Line      :
*      NUMB         : Enter number of months with wind speed data.
*                    (Maximum = 12)
*                    [NOTE: Option on page 69 of User's Manual to
*                    set NUMB = 999 to indicate NOAA wind data is
*                    not valid. Use ISNOW=2 to indicate use of
*                    NOAA data on NSCRAT(3) from Temp Block.]
*      MONTH        : Integer number of first month.
*      WIND(MONTH)  : Average wind speed for first month, mi/hr [km/hr].
*
*      MONTH        : Integer number of last month.
*      WIND(MONTH)  : Average wind speed for last month, mi/hr [km/hr].
**
**Wind speed data was obtained from NWS Anchorage historical monthly averages
*=====
*      NUMB MON WIN(1) Mon Win(2) Mon Win(3) Mo Win(4) Mon Win(5) Mon Win(6) MON WIN(7) Mon Win(8) Mon Win(9) Mon Win(10) Mon
Win(11) Mon Win(12)
C2  12  1  6  2  7  3  7  4  7  5  8  6  8  7  7  8  7  9  7  10  7  11  7
12  6
*=====
*      Use line C3 to input Areal Depletion Curve for Impervious Area.
*      IF ISNOW=1 IN GROUP B1, SKIP TO DATA GROUP C5.
*=====
*      C3 Line      :
*      ADCI(1)      : Fraction of area covered by snow (ASC) at "zero+"
*                    ratio of snow depth to depth at 100 percent
*                    cover (AWESI).
*      ADCI(2)      : Value of ASC for AWESI = 0.1.
*      ADCI(3)      : Value of ASC for AWESI = 0.2.
*
*      ADCI(9)      : Value of ASC for AWESI = 0.8.
*      ADCI(10)     : Value of ASC for AWESI = 0.9.
*      Note: Program automatically assigns value of ADCI=1.0 when AWESI = 1.0.
**
** ADC data was taken from the 1999 OGS study report
*=====
*      ADCI(1) ADCI(2) ADCI(3) ADCI(4) ADCI(5) ADCI(6) ADCI(7) ADCI(8) ADCI(9) ADCI(10)
C3  0.00  0.02  0.03  0.05  0.07  0.10  0.12  0.15  0.18  0.40
*=====
*      Use the C4 line to define an Areal Depletion Curve for Pervious Area.
*=====
*      C4 Line      :
*      ADCP(1)      : Fraction of area covered by snow (ASC) at "zero+"
*                    ratio of snow depth to depth at 100 percent cover
*                    (AWESI).
*      ADCP(2)      : Value of ASC for AWESI = 0.1.
*      ADCP(3)      : Value of ASC for AWESI = 0.2.
*
*      ADCP(9)      : Value of ASC for AWESI = 0.8.
*      ADCP(10)     : Value of ASC for AWESI = 0.9.
*      Note: Program automatically assigns value of ADCP = 1.0 when AWESI = 1.0.
** ADC data was taken from the 1999 OGS study report
*=====
*      ADCP(1) ADCP(2) ADCP(3) ADCP(4) ADCP(5) ADCP(6) ADCP(7) ADCP(8) ADCP(9) ADCP(10)
C4  0.05  0.08  0.10  0.12  0.15  0.20  0.25  0.35  0.47  0.64
*=====
*      Line D1 is the first rainfall control line.

```

```

*=====
*      D1 Line      :
*      ROPT         : Precipitation input option.
*                     = 0, Read NRGAG hyetographs on E1, E2 and E3
*                     data groups. (Rain data can be saved permanently
*                     on NSCRAT(1) using the @ function.)
*                     = 1, Read processed precipitation file on NSCRAT(1)
*                     file [not JIN!]. This file is either from the Rain
*                     Block (earlier saved JOUT file) or from a previous
*                     run of the Runoff Block (earlier saved NSCRAT(1)
*                     file). Unless blocks are run as part of a single
*                     overall SWMM run, access to earlier saved files is
*                     through the @ function described at the beginning
*                     of this file.
** This line calls the rainfall input file (1965 - hourly totals)
*=====
*      ROPT
D1      1
*=====
** EVAPORATION DATA - from Anchorage, NWS Historical Data
F1 0.05 0.05 0.05 0.06 0.07 0.08 0.09 0.09 0.09 0.08 0.07 0.06
*=====
*      Use the F1 and F2 lines to input evaporation data if
*                     IVAP = 3 on data group B1.
*=====
* Rainfall-Dependent Infiltration/Inflow (RDII or I/I) Data, Lines F3 and F4.
*      New, 9/4/93. Chuck Moore
*      Camp, Dresser and McKee, Inc., Annandale, VA
*=====
*      Enter Channel/Pipe data on line G1.
*=====
*      Enter control structure data on line G2.
*=====
*      Insert H0 line before first H1 line to read optional PZ parameter
*      on every H1 line.
*=====
*H0 * No parameter required. Omit if not using optional variable PCTZER.
*H0
*=====
*      Enter Subcatchment Data on line H1. Repeat for each subcatchment
*      (Maximum of NW different subcatchments).
*
*      Note: Variables with asterisks can be modified using
*      the Default/Ratio option. If any of H2-H5 lines follow for
*      this subcatchment, must have a non-ratio/default line follow
*      this ratio/default line. That is, cannot have H1 ratio/default
*      line followed immediately by H2 or H5 line.
*=====
*      H1 Line      :
*      JK           : Hyetograph number (based on the order
*                     in which they are input, in Group E3).
*      NAMEW        : Subcatchment number or name.
*      NGTO         : Channel/pipe or inlet (manhole) number for drainage.
* ***See new parameter IFLOWP below to direct flow to another subcatchment.
*      WW(1)*       : Width of subcatchment, ft [m].
*                     This term actually refers to the physical width of
*                     overland flow in the subcatchment and may be estimated
*                     as illustrated in the text or by ratio of subcatchment
*                     area to average length of overland flow.
*      WAREA*       : Area of subcatchment, acres [ha].
*      WW(3)*       : Percent imperviousness of subcatchment,
*                     (percent hydraulically effective or directly
*                     connected impervious area).
*      WSLOPE*      : Ground slope, ft/ft (dimensionless).
*      WW(5)*       : Impervious area Manning's roughness.
*      WW(6)*       : Pervious area Manning's roughness.
*      IDS*         : Impervious area depression storage, in. [mm].
*      PDS*         : Pervious area depression storage, in. [mm].
*=====
*      Last three parameters on line H1 if Horton equation
*      is used, INFILM = 0 on data group B1.
*=====
*      WLMAX*       : Maximum initial infiltration rate, in./hr [mm/hr].
*      WLMIN*       : Minimum (asymptotic) infiltration rate, in./hr [mm/hr].
*      DECAY*       : Decay rate of infiltration in Horton's equation, 1/sec.
*=====
*      Last three parameters on line H1 if Green-Ampt equation
*      is used, INFILM = 1 on group B1.
*=====
*      SUCT*        : Average capillary suction, in. [mm] of water.
*      HYDCON*      : Saturated hydraulic conductivity of soil,
*                     in./hr [mm/hr].
*      SMDMAX*      : Initial moisture deficit for soil, volume
*                     air/volume voids (fraction).
*
*      IF INFILM = 2 or 3, the maximum infiltration volume is entered
*      next on the H1 line.
*
*      Only needed for INFILM = 2 or 3.
*      RMAXINF      : Maximum infiltration volume, in. [mm] of water.
*=====
*      Option for directing runoff from one overland flow plane to another.
*      Input of this parameter is optional and required only if redirection
*      of overland flow is desired.
*

```

```

*
*           IFLOWP           :  = 0, Overland flow from three subareas goes directly
*                               to subcatchment outflow (historical procedure).
*                               = 1, Flow from impervious subarea (with and without
*                               depression storage) flows onto pervious subarea.
*                               = 2, Flow from pervious subarea flows onto impervious
*                               subarea (with depression storage).
*                               = 3, Case 0 above, but subcatchment flow is directed
*                               to another *subcatchment*, indicated by NGTO.
*                               = 4, Case 1 above, but subcatchment flow is directed
*                               to another *subcatchment*, indicated by NGTO.
*                               = 5, Case 2 above, but subcatchment flow is directed
*                               to another *subcatchment*, indicated by NGTO.
*
*                               For IFLOWP = 3,4 or 5, runoff from one
*                               subcatchment may be directed over another.
*
*                               For all cases of IFLOWP not equal to zero, the runoff is
*                               directed to the appropriate subarea or subcatchment
*                               uniformly over the entire subarea or subcatchment,
*                               in the manner of rainfall. A separate continuity check
*                               is maintained so that the total amount of rainfall
*                               is not confused.
*
*                               In all cases, pollutants, if simulated, follow the flow.
*                               However, pollutant routing uses aggregated flow, over
*                               whole subcatchment, with option for variable quality
*                               parameters as a function of land use. But land use
*                               coverage CANNOT correspond to pervious-impervious parts
*                               of subcatchment. If such correspondence is desired, need
*                               to have a subcatchment with just one land use and just
*                               pervious or impervious.
*                               See J3 lines for information on possible pollutant removal.
*                               -----
*                               If H0 line is used above, insert parameter PZ here.
*                               Otherwise, may omit.
*
*           PZ               :  Percent of impervious area in subcatchment with
*                               zero depression storage. These variable PZ values
*                               are used instead of constant PCTZER on line B4.
*
** MW Land Cover/Subcatchment Key
** SWMM Code 100 200 300 425 475 500 600 700 825 875 900
** Value Water Wetland Ditch Paved-Road Gravel-Road Parking DCI Barren Upland Landscaped ICI
*****
** This data is derived from the Geonorth GIS analysis of landcover and researched information
** regarding infiltration values (see report)
*****
* =====> SURFACE WATER DATA
* JK NAMEW NGTO WIDTH AREA %IMP SLP IMPN PERVN IDS PDS SUCT HYDCON SMDMAX RMAXINF IFLOWP PZ
*H1 1 100 0 1.0 1. 100. .000 .0 .0 .0 .00 0.00 0.000 .00 0.0 0 25
H1 1 200 0 0.1 0.1 0. .001 .0 .02 .0 4.0 12.00 0.140 .21 0.0 0 25
H1 1 300 0 0.1 0.1 0. .001 .0 .13 .0 .4 10.00 0.500 .26 0.0 0 25
H1 1 425 0 8313.0 6.9 100. .001 .011 .0 .1 .00 0.00 0.000 .00 0.0 0 25
H1 1 475 300 0.1 0.1 0. .001 .0 .02 .0 .15 7.00 0.005 .34 0.0 3 25
H1 1 500 0 2176.0 31.1 100. .020 .011 .0 .15 .0 0.00 0.000 .00 0.0 0 25
H1 1 600 425 3458.0 106.8 100. .014 .011 .0 .175 .0 0.00 0.000 .00 0.0 3 25
H1 1 700 0 3109.0 63.1 0. .017 .0 .02 .0 .2 7.00 0.050 .34 0.0 0 25
H1 1 825 0 0.1 0.1 0. .001 .0 .02 .0 2.0 10.00 2.500 .31 0.0 0 25
H1 1 875 825 3732.0 12.8 0. .025 .0 .04 .0 .3 9.50 0.250 .26 0.0 3 25
H1 1 900 875 377.0 0.7 100. .022 .011 .0 .175 .0 0.00 0.000 .00 0.0 3 25
*****
** this information was taken from the 1999 OGS modeling report
*****
* I1 Line :
* JK1 : Subcatchment number or name. Must correspond to NAMEW
* entered in Group H1.
* SNN1 : Fraction of impervious area with 100 percent
* snow cover (ISNOW = 1) or subject to areal
* depletion curve (ISNOW = 2).
* SNCP(N) : Fraction of pervious area subject to 100 percent
* snow cover (ISNOW = 1). N.R. if ISNOW = 2.
* WSNOW(N,1) : Initial snow depth of impervious area that is
* normally snow covered, in. water equivalent
* [mm w.e.]
* WSNOW(N,2) : Initial snow depth on pervious area,
* in. w.e. [mm w.e.].
* FW(N,1) : Initial free water on snow covered impervious
* area, in. [mm].
* FW(N,2) : Initial free water on snow covered pervious
* area, in. [mm].
* DHMAX(N,1)* : Melt coefficient (ISNOW = 1) or maximum melt
* coefficient, occurring on June 21 (ISNOW = 2)
* for snow covered impervious area,
* in. w.e./hr-F [mm w.e./hr-C].
* DHMAX(N,2)* : Melt coefficient (ISNOW = 1) or maximum melt
* coefficient, occurring on June 21 (ISNOW = 2)
* for snow covered pervious area,
* in. w.e./hr-F [mm w.e./hr-C].
* TBASE(N,1)* : Snow melt base temperature for snow covered
* impervious area, F [C].
* TBASE(N,2)* : Snow melt base temperature for snow covered
* pervious area, F [C].
*****
* JK1 SNN1 SNCP WSNOW(N,1) WSNOW(N,2) FW(N,1) FW(N,2) DHMAX(N,1) DHMAX(N,2) TBASE(N,1) TBASE(N,2)
*I1 100 0 1 0 0 0 0 0.000 0.00 32 32

```

	JK2	WSNOW(N,3)	FW(N,3)	DHMAX(N,3)	TBASE(N,3)	DHMIN(N,1)	DHMIN(N,2)	DHMIN(N,3)	SI(N,1)	SI(N,2)	WEFLOW(N)	SFRAC(N,1)	SFRAC(N,2)
I2 100	0	0	0.000	32	0.000	0.000	0.000	0.0	0.0	0.0	0.5	0.15	
0.05	0.23	0.07											
I1 200	1.	1	0	0	0	0.008	0.002	32	32				
I2 200	0	0	0.008	32	0.008	0.004	0.008	0.2	0.3	0.15	0.5	0.15	
0.05	0.23	0.07											
I1 300	0.	1	0	0	0	0.008	0.002	32	32				
I2 300	0	0	0.008	32	0.008	0.004	0.008	0.2	0.3	0.15	0.5	0.15	
0.05	0.23	0.07											
I1 425	0.	1	0	0	0	0.008	0.002	32	32				
I2 425	0	0	0.008	32	0.008	0.004	0.008	0.2	0.3	0.15	0.5	0.15	
0.05	0.23	0.07											
I1 475	0.	1	0	0	0	0.008	0.002	32	32				
I2 475	0	0	0.008	32	0.008	0.004	0.008	0.2	0.3	0.15	0.5	0.15	
0.05	0.23	0.07											
I1 500	0.2	1	0	0	0	0.008	0.002	32	32				
I2 500	0	0	0.008	32	0.008	0.004	0.008	0.2	0.3	0.15	0.5	0.15	
0.05	0.23	0.07											
I1 600	0.25	1	0	0	0	0.008	0.002	32	32				
I2 600	0	0	0.008	32	0.008	0.004	0.008	0.2	0.3	0.15	0.5	0.15	
0.05	0.23	0.07											
I1 700	0.	1	0	0	0	0.008	0.002	32	32				
I2 700	0	0	0.008	32	0.008	0.004	0.008	0.2	0.3	0.15	0.5	0.15	
0.05	0.23	0.07											
I1 825	0.	1	0	0	0	0.008	0.002	32	32				
I2 825	0	0	0.008	32	0.008	0.004	0.008	0.2	0.3	0.15	0.5	0.15	
0.05	0.23	0.07											
I1 875	0.	1	0	0	0	0.008	0.002	32	32				
I2 875	0	0	0.008	32	0.008	0.004	0.008	0.2	0.3	0.15	0.5	0.15	
0.05	0.23	0.07											
I1 900	0.25	1	0	0	0	0.008	0.002	32	32				
I2 900	0	0	0.008	32	0.008	0.004	0.008	0.2	0.3	0.15	0.5	0.15	
0.05	0.23	0.07											

*=====

* Enter Subcatchment Snow Input Data on data group I2 if ISNOW = 2.

*=====

* I2 Line :

* JK2 : Subcatchment number or name. Must correspond to JK1 on Line I1 and NAMEW in Group H1.

* WSNOW(N,3) : Initial snow depth on impervious area that is normally bare, in. [mm].

* FW(N,3) : Initial free water on impervious area that is normally bare, in. [mm].

* DHMAX(N,3)* : Maximum melt coefficient occurring on June 21, for snow on normally bare impervious area, in. w.e./hr-F [mm w.e./hr-C].

* TBASE(N,3)* : Snow melt base temperature for normally bare impervious area, F [C].

* DHMIN(N,1)* : Minimum melt coefficient occurring on December 21 for snow covered impervious area, in. w.e./hr-F [mm w.e./hr-C].

* DHMIN(N,2)* : Minimum melt coefficient occurring on December 21 for snow covered pervious area, in. w.e./hr-F [mm w.e./hr-C].

* DHMIN(N,3)* : Minimum melt coefficient occurring on December 21 for snow on normally bare impervious area, in. w.e./hr-F [mm w.e./hr-C].

* SI(N,1)* : Snow depth above which there is 100 percent cover on snow covered impervious areas, in. [mm] w.e.

* SI(N,2)* : Snow depth above which there is 100 percent cover on snow covered pervious areas, in. [mm] w.e.

* WEFLOW(N) : Redistribution (plowing) depth on normally bare impervious area, in. [mm] w.e. Snow above this depth redistributed according to fractions below.

* Note: Redistribution (plowing) fractions (see Figure 4-25). Snow above WEFLOW in. [mm] w.e. on normally bare impervious area will be transferred to area(s) indicated below. The five fractions should sum to 1.0.

* SFRAC(N,1) : Fraction transferred to snow covered impervious area.

* SFRAC(N,2) : Fraction transferred to snow covered pervious area.

* SFRAC(N,3) : Fraction transferred to snow covered pervious area in last catchment.

* SFRAC(N,4) : Fraction transferred out of watershed.

* SFRAC(N,5) : Fraction converted to immediate melt on normally bare impervious area.

*=====*****

#####

* Optional input of multiple land uses per subcatchment.

* IMUL is a variable to trigger multiple land uses per subcatchment. Any value > 0 will cause the model to use JLAND land uses per subcatchment.

* CAUTION: IMUL > 0 requires input on L2 lines for each subcatchment, even if JLAND = 1.

* ALSO, if IMUL > 0 and JLAND > 1, read JLAND J3 lines for each constituent.

* IMUL

JJ 1

*=====

* Enter General Quality Control on data group J1.

*=====

```

*      J1 Line      :
*      NQS          : Number of quality constituents. Maximum is controlled
*                    : by parameter statement (MQUAL in TAPES.INC) but should generally
*                    : be limited to 20. NQS must be one less than maximum
*                    : if erosion is simulated (IROS = 1).
*      JLAND        : Number of land uses (Maximum controlled by NLU
*                    : parameter in TAPES.INC).
*      IROS         : Erosion simulation parameter
*                    : = 0, Erosion not simulated.
*                    : = 1, Erosion of suspended solids simulated using
*                    : the Universal Soil Loss Equation. Parameters input
*                    : in Group K1. Output will be last quality constituent
*                    : (i.e., constituent NQS+1).
*      IROSAD       : Option to add erosion constituent to constituent
*                    : number IROSAD. E.g., if IROSAD = 3, erosion will
*                    : be added to constituent 3 (perhaps suspended solids).
*                    : No addition if IROSAD = 0. N.R. if IROS = 0.
*      DRYDAY       : Number of dry days prior to start of storm.
*      CBVOL        : Average individual catchbasin storage volume, ft3 [m3].
*      DRYBSN       : Dry days required to recharge catchbasin concentrations
*                    : to initial values (CBFACT on group J3). Must be > 0.
*      RAINIT       : For erosion, highest average 30-minute rainfall
*                    : intensity during the year (continuous SWMM) or during
*                    : the storm (single event), in./hr [mm/hr].
*                    : N.R. if IROS = 0.
*
*      The next three parameters are for modeling street sweeping.
*      KLNBN and KLNEND are only used if the simulation is greater
*      than one month.
*
*      REFFDD       : Street sweeping efficiency (removal)
*                    : fraction) for "dust and dirt."
*      KLNBN        : Day of year on which street sweeping
*                    : begins (e.g. March 1 = 60).
*      KLNEND       : Day of year on which street sweeping
*                    : stops (e.g. Nov. 30 = 334)
*=====
** This line establishes baseline quality control parameters and street sweeping frequency
** Six land covers were used to model street surfaces. 4 Types of paved surfaces, parking lots,
** and a "dummy" land cover that was required to cover the remaining areas (everything
** but paved streets and parking lots) even though no quality
** data was modeled for these areas.
*   NQS JLAND IROS IROSAD DRYDAY CBVOL DRYBSN RAINIT REFFDD KLNBN KLNEND
J1 3   6   0   0   7.0  10.0  10.00  0.00  0.90  135  270
*=====
*      Enter JLAND (from data group J1) Land Use data lines. One line for
*      each land use. Land use 1 will be that of first group, land use 2 will be
*      that of the second group etc.
*
*      Note: Variables with asterisks can be modified
*            using the Default/Ratio option.
*=====
*      J2 Line      :
*      LNAME(J)     : Name of land use (8 character, max).
*      METHOD(J)     : Buildup equation type for 'dust and dirt'(see text).
*                    : = -2, New default values,
*                    : = -1, New ratios,
*                    : = 0, Power-linear,
*                    : = 1, Exponential,
*                    : = 2, Michaelis - Menten.
*      JACGUT(J)    : Functional dependence of buildup parameters.
*                    : = 0, Function of subcatchment gutter length,
*                    : = 1, Function of subcatchment area,
*                    : = 2, Constant.
*
*      Following are up to three buildup parameters. (See Table 4-16).
*
*      DDLIM(J)*    : Limiting buildup quantity.
*      DDPOW(J)*    : Power or exponent.
*      DDFACT(J)*   : Coefficient.
*
*      Following are three street sweeping parameters.
*
*      CLFREQ(J)*   : Cleaning interval, days.
*      AVSWP(J)*    : Availability factor, fraction
*      DSLCL(J)*    : Days since last cleaning, DSLCL <= CLFREQ
** Established the linear buildup methods for sediment buildup and cleaning frequency.
** Equation parameter selection followed that of the 1999 OGS study.
*=====
*      LNAME      METHOD JACGUT DDLIM DDPOW DDFACT CLFREQ AVSWP DSLCL
J2 'STREET1'     0       1   3.E04  1.0   10.0   60.0  0.90  15.0
J2 'STREET2'     0       1   3.E04  1.0   10.0   60.0  0.90  15.0
J2 'STREET3'     0       1   3.E04  1.0   10.0  120.0  0.90 119.0
J2 'STREET4'     0       1   3.E04  1.0   10.0  120.0  0.90 119.0
J2 'PARKING'     0       1   3.E04  1.0   10.0  120.0  0.90 119.0
J2 'DUMMY'       0       1   1.E01  1.0    1.0  120.0  0.90 119.0
*=====
*      Enter data for quality constituent(s) on data group J3. Repeat for
*      each constituent, total of NQS groups. Constituent 1 will be that of the
*      first line constituent 2 that of the second line, etc.
*
*      If IMUL > 0 (line JJ) and JLAND > 1, then read JLAND J3 lines for
*      each constituent. I.e., read JLAND lines for constituent 1, followed by
*      JLAND lines for constituent 2, etc. In this case, each constituent
*      can have different J3 parameters for each land use. These different

```

* parameters will be used on each land use fraction for each subcatchment,
 * as defined in data group L2.

*
 * Note: Variables with asterisks can be modified
 * using the Default/Ratio option.

```

*=====
*   J3 Line   :
*   PNAME(K)  : Constituent name (8 characters, max).
*   PUNIT(K)  : Constituent units (8 characters, max).
*   NDIM(K)   : Type of units.
*               = 0, mg/l
*               = 1, "Other" per liter, e.g., MPN/L or ug/L
*               = 2, Other concentration units, e.g., pH, JTU
*   KALC(K)   : Type of buildup calculation.
*               = 0, Buildup is fraction of "dust and dirt"
*                 for each land use.
*               = 1, Power-linear constituent buildup
*               = 2, Exponential constituent buildup
*               = 3, Michaelis-Menten constituent buildup
*               = 4, No buildup required (with KWASH = 1)
*   KWASH(K)  : Type of washoff calculation
*               = 0, Power-exponential
*               = 1, Rating curve, no upper limit (see note, below)
*               = 2, Rating curve, upper limit by buildup equation
*   KACGUT(K) : Functional dependence of buildup
*                 parameters. N.R. for KALC = 0 or 4.
*               = 0, Function of subcatchment gutter length
*               = 1, Function of subcatchment area
*               = 2, Constant
*   LINKUP(K) : Linkage to snowmelt. N.R. if ISNOW = 0 or KALC = 4.
*               = 0, No linkage to snow parameters
*               = 1, Constituent buildup during dry weather only when
*                 snow is present on impervious surface of subcatchment.

```

* Following are up to five buildup parameters
 * (see text and Tables 4-17, 4-18).

```

*   QFACT(1,K)* : First buildup parameter, e.g., limit.
*   QFACT(2,K)* : Second buildup parameter, e.g., power or exponent.
*   QFACT(3,K)* : Third buildup parameter, e.g. coefficient.
*   QFACT(4,K)* : Fourth buildup parameter, N.R. if KALC > 0
*                 or JLAND < 4.
*   QFACT(5,K)* : Fifth buildup parameter, N.R., if KALC > 0
*                 or JLAND < 5.

```

* Following are two washoff or rating curve parameters.

```

*   WASHPO(K)* : Power (exponent) for runoff rate.
*   RCOEF(K)*  : Coefficient.
*   CBFACT(K)* : Initial catchbasin concentration.
*                 (units according to NDIM).
*   CONCNRN(K)* : Concentration in precipitation.
*                 (units according to NDIM).
*   REFF(K)*   : Street sweeping efficiency (removal fraction)
*                 for this constituent.

```

* *** The following two parameters are required only when flow are
 * routed from one subcatchment to another or when it is desired
 * to simulate first-order decay in channel/pipes. They may be
 * omitted from the J3 line otherwise. ***

* Parameter REMOVE applies only to subcatchments
 * receiving inflow from an upstream subcatchment. It
 * have no effect on other subcatchments. See J7 line for
 * BMP removal in channel/pipes.

```

*   REMOVE(K)* : Removal fraction for overland flow, e.g., BMP
*                 effectiveness, based on load. REMOVE = 1 -
*                 outflow load/inflow load. May be a function of
*                 land use if multiple J3 lines are entered for
*                 different land uses.
*   QDECAY(K)* : First-order decay coefficient for this pollutant,
*                 1/day. This is a constant for the pollutant
*                 for all land uses. If multiple J3 lines are
*                 entered, QDECAY(K) will be taken from the FIRST
*                 line entered for the pollutant. QDECAY is also
*                 applied to channel/pipe pollutant routing, if
*                 simulated. Pollutants stored as surcharge will
*                 be decayed while in storage.

```

```

*=====
* For rating curve, equation is: Load (mg/sec) = RCOEF*FLOW^WASHPO
* where FLOW is in cfs (METRIC=0) or cms (METRIC=1). If WASHPO = 1,
* this equation can be used to get constant concentration = EMC,
* and RCOEF must include conversion coefficient of 28.316 L/ft3 or 1000 L/m3.
* Then RCOEF = EMC*conversion. See example for TN, below.
* Another way to get a constant concentration is to set rainfall
* concentration to desired EMC and zero-out buildup-washoff parameters.
* Caution for constant concentration: dilution can result from inflows of
* I/I and groundwater (but both may be set to non-zero concentrations) and
* from initial water stored in channel/pipes. Cannot set non-zero
* concentrations for latter.

```

** Sediment parameters were selected from the 1999 OGS study.

* PNAME	PUNIT	NDIM	KALC	KWASH	KACGUT	LINKUP	QFACT1	QFACT2	QFACT3	QFACT4	QFACT5	WASHPO	RCOEFF	CBFACT	CONCRN	REFF	REMOVE
J3 'SED_SML' 'MG/L'	0	1	0	1	0	200.0	1.0	3.73	0.0	0.0	0.99	0.87	0.0	0.0	0.46	0	0
J3 'SED_SML' 'MG/L'	0	1	0	1	0	200.0	1.0	6.39	0.0	0.0	0.99	0.87	0.0	0.0	0.14	0	0
J3 'SED_SML' 'MG/L'	0	1	0	1	0	200.0	1.0	21.44	0.0	0.0	0.99	0.87	0.0	0.0	0.92	0	0
J3 'SED_SML' 'MG/L'	0	1	0	1	0	200.0	1.0	94.82	0.0	0.0	0.99	0.87	0.0	0.0	0.86	0	0
J3 'SED_SML' 'MG/L'	0	1	0	1	0	200.0	1.0	6.39	0.0	0.0	0.99	0.87	0.0	0.0	0.14	0	0
J3 'SED_SML' 'MG/L'	0	1	0	1	0	200.0	1.0	0.01	0.0	0.0	0.99	0.87	0.0	0.0	0.14	0	0
J3 'SED_MED' 'MG/L'	0	1	0	1	0	200.0	1.0	5.98	0.0	0.0	2.48	0.99	0.0	0.0	0.67	0	0
J3 'SED_MED' 'MG/L'	0	1	0	1	0	200.0	1.0	1.59	0.0	0.0	2.48	0.99	0.0	0.0	1.00	0	0
J3 'SED_MED' 'MG/L'	0	1	0	1	0	200.0	1.0	7.70	0.0	0.0	2.48	0.99	0.0	0.0	1.00	0	0
J3 'SED_MED' 'MG/L'	0	1	0	1	0	200.0	1.0	20.89	0.0	0.0	2.48	0.99	0.0	0.0	0.90	0	0
J3 'SED_MED' 'MG/L'	0	1	0	1	0	200.0	1.0	1.59	0.0	0.0	2.48	0.99	0.0	0.0	1.00	0	0
J3 'SED_MED' 'MG/L'	0	1	0	1	0	200.0	1.0	0.01	0.0	0.0	2.48	0.99	0.0	0.0	1.00	0	0
J3 'SED_LRG' 'MG/L'	0	1	0	1	0	200.0	1.0	2.41	0.0	0.0	3.16	4.30	0.0	0.0	0.89	0	0
J3 'SED_LRG' 'MG/L'	0	1	0	1	0	200.0	1.0	0.05	0.0	0.0	3.16	4.30	0.0	0.0	0.93	0	0
J3 'SED_LRG' 'MG/L'	0	1	0	1	0	200.0	1.0	8.10	0.0	0.0	3.16	4.30	0.0	0.0	1.00	0	0
J3 'SED_LRG' 'MG/L'	0	1	0	1	0	200.0	1.0	27.50	0.0	0.0	3.16	4.30	0.0	0.0	0.93	0	0
J3 'SED_LRG' 'MG/L'	0	1	0	1	0	200.0	1.0	0.05	0.0	0.0	3.16	4.30	0.0	0.0	0.93	0	0
J3 'SED_LRG' 'MG/L'	0	1	0	1	0	200.0	1.0	0.01	0.0	0.0	3.16	4.30	0.0	0.0	0.93	0	0

Enter Subcatchment Surface Quality data on data group L1.

One line for each subcatchment is required. The order is arbitrary, but a match must be found for each subcatchment number (NAMEW) used earlier in group H1.

Note: Variables with asterisks can be modified using the Default/Ratio option.

=====

L1 Line :
 N=NAMEW : Subcatchment number or name.
 KL : Land use classification. 0 < KL < 5. Numbers correspond to input sequence of Group J2.
 Note: default value for KL = 1. If L2 lines are being used, still must enter a "representative" value for KL. Fraction data on L2 line will over-ride value of KL.
 BASINS(N)* : Number of catchbasins in subcatchment.
 GQLEN(N)* : Total curb length within subcatchment hundreds of feet [km]. May not be required depending on method used to calculate constituent loadings (Groups J2 and J3).

The following initial constituent loading values may be input as an alternative to computation of loadings via methods specified in groups J2 and J3 (for initial conditions only). For any non-zero values read in, initial constituent loadings will be calculated simply by multiplication of the value by the subcatchment area (or fractional area if IMUL > 0 on line JJ). (I.e., if a loading value is entered on line L1, it will be apportioned over land uses with non-zero fractions.) "Load" has units depending on value of NDIM (Group J3), according to the following table:

NDIM	LOAD
0	pounds [kg]
1	10 ⁶ x quantity, e.g. 10 ⁶ MPN
2	10 ⁶ x quantity x ft3, e.g. 10 ⁶ pH-ft3.

PSHED(1,N) : Initial loading, first constituent, load/acre [load/ha].

PSHED(10,N) : Initial loading, tenth constituent, load/acre [load/ha].

Note, line L1 below illustrates use of slash to fill in any needed remaining zeros automatically.

** This data was derived from the Geonorth GIS analysis of road type and parking lots.
 ** It shows the proportion of road types 1-4 within the paved surface land-cover category (if present). It also shows if parking lots are present in the sub-drainage.

NAMEW	KL	BA	GQ	PSHED(1)	PSHED(2)
*L1	100	1	0.0	0.0	/
*L2	0.0	0.0	0.0	0.0	0.0 0.0
L1	200	1	0.0	0.0	/
L2	0.0	0.0	0.0	0.0	0.0 1.0
L1	300	6	0.0	0.0	/
L2	0.0	0.0	0.0	0.0	0.0 1.0
L1	425	1	0.0	0.0	/
L2	1.00	0.0	0.0	0.0	0.0 0.0
L1	475	4	0.0	0.0	/
L2	0.0	0.0	0.0	0.0	0.0 1.0
L1	500	5	0.0	0.0	/
L2	0.0	0.0	0.0	0.0	1.0 0.0
L1	600	6	0.0	0.0	/
L2	0.0	0.0	0.0	0.0	0.0 1.0
L1	700	6	0.0	0.0	/
L2	0.0	0.0	0.0	0.0	0.0 1.0
L1	825	6	0.0	0.0	/
L2	0.0	0.0	0.0	0.0	0.0 1.0
L1	875	6	0.0	0.0	/
L2	0.0	0.0	0.0	0.0	0.0 1.0
L1	900	6	0.0	0.0	/

```

L2      0.0 0.0 0.0 0.0 0.0 1.0
*****
*      L2 line :
*
*      If required, this line immediately follows each L1 line.
*      Enter land use fractions for subcatchment on previous L1 line.
*      Not required if IMUL = 0 on line JJ (or line JJ omitted).
*
*      If IMUL > 0, an L2 line must follow each L1 line, even if JLAND = 1.
*      The fractions on line L2 must total to exactly 1.0 (tolerance = 0.001).
*
*      These fractions (PLAND) are used to multiply the subcatchment area
*      or curb length for all buildup calculations, depending on
*      parameters JACGUT (line J2) and/or KACGUT (line J3).
*      Similarly, if initial loads are input on line L1, the
*      quantity/area values will be multiplied by the fraction area
*      for each land use. Thus, the quantity/area values in line L1 cannot
*      differentiate between different land uses.
*      Throughout the simulation, separate buildup and washoff parameters
*      will be used for each land use fraction, as input in the multiple
*      J3 lines.
*      If catchbasin quality information is entered, the total catchbasin
*      load for a subcatchment is the sum over the number of land uses of:
*      CBFAC*BASINS*CBVOL*PLAND.
*
*      Enter JLAND fractions. Value 1 corresponds to land use 1, etc.
*
*      PLAND(1,N) : Fraction of subcatchment N consisting of land use 1.
*      PLAND(2,N) : Fraction of subcatchment N consisting of land use 2.
*      Etc.      Read JLAND values of PLAND.
*****
*      Enter data for Channel/Inlet Print Control on data group M1.
*****
*      M1 Line :
*      NPRNT   : Total number of channels/pipes/inlets for which
*                non-zero flows (and concentrations) are
*                to be printed (maximum = NG).
*      INTERV  : Print Control.
*                = 0, Print statistical summary only.
*                = 1, Print every time step.
*                = K, Print every K time steps.
*****
*      NPRNT  INTERV
M1      1      2
*****
*      IF NPRNT = 0 on line M1 SKIP groups M2 and M3.
*
*      Enter Print Period information on data group M2.
*****
*      M2 Line :
*      NDET    : Number of detailed printout periods.
*                (Maximum of 10 periods.)
*
*      Note: If NDET = 1 and STARTP(1) = 0 and STOPPR(1) = 0 then the
*            total simulation period will be printed as a default.
*
*      STARTP(1) : First starting printout date, year, month,
*                day, e.g., October 2, 1949 = 19491002.
*                If year is entered as 2 digits, program assumes 1900.
*      STOPPR(1) : First stopping printout date.
*
*      STARTP(NDET): Last starting date.
*      STOPPR(NDET): Last stopping date.
*****
*      NDET  STARTP(1) STOPPR(1)
M2      1      0      0
*****
*      Enter channel/inlet printout locations on data group M3.
*****
*      M3 Line :
*      IPRNT(1) : First channel/inlet numbers or name for which flows
*                and concentrations are to be printed.
*
*      IPRNT(NPRNT): First channel/inlet numbers or name for which flows
*                and concentrations are to be printed.
*
*      Note: Inflows to channel/pipes are printed as the default option. To
*            print the OUTFLOW from a channel/pipe, give the ID as a negative
*            number. A channel/pipe may be listed with both a positive and negative
*            number. The negative option is not available for alphanumeric labeling.
*****
*      IPRNT(1) ...      IPRNT(NPRNT)
M3      0
*****
*      End your input data set with a $ENDPROGRAM.
$ENDPROGRAM

```

M3 0

*=====

* End your input data set with a \$ENDPROGRAM.

\$ENDPROGRAM

Appendix D

SWMM Model Output Tables

Summary Data For Main Chester Creek - Drainage # 1

Basin Area: 221.8 acres

Impervious Surface: 66%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.40	10.78
Total Runoff Volume (ft3)	0	3,834	3,701,452
Total Infiltration (ft3)	7,274,159	3,860,788	3,823,446

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	7,254	35,720	6,556	49,530
Sediment 2	4,149	9,217	7,030	20,400
Sediment 3	983	4,160	737	5,881

Summary Data For Main Chester Creek - Drainage # 2

Basin Area: 78.2 acres

Impervious Surface: 58%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.02	3.44
Total Runoff Volume (ft3)	0	225	1,139,945
Total Infiltration (ft3)	2,657,362	1,411,731	1,634,114

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	4,403	22,840	3,094	30,330
Sediment 2	5,217	1,084	4,204	10,510
Sediment 3	3,514	723	3,093	7,330

Summary Data For Main Chester Creek - Drainage # 3

Basin Area: 227.4 acres

Impervious Surface: 44%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.05	7.56
Total Runoff Volume (ft3)	0	490	2,474,790
Total Infiltration (ft3)	258,855	4,108,276	6,334,369

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	11,080	55,770	8,335	75,180
Sediment 2	13,960	1,818	10,330	26,100
Sediment 3	10,080	1,104	8,868	20,060

Summary Data For Main Chester Creek - Drainage # 4

Basin Area: 83.2 acres

Impervious Surface: 55%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.14	3.47
Total Runoff Volume (ft3)	0	1,436	1,149,869
Total Infiltration (ft3)	2,791,704	1,482,156	1,864,931

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	5,622	32,040	4,523	42,190
Sediment 2	5,232	802	5,024	11,060
Sediment 3	3,687	498	3,362	7,548

Summary Data For Main Chester Creek - Drainage # 5

Basin Area: 135.1 acres

Impervious Surface: 54%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.34	5.26
Total Runoff Volume (ft3)	0	3,408	1,762,108
Total Infiltration (ft3)	4,695,437	2,491,367	3,143,754

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	6,167	33,760	4,268	44,190
Sediment 2	7,590	1,646	5,909	15,140
Sediment 3	5,012	1,066	4,421	10,500

Summary Data For Main Chester Creek - Drainage # 6

Basin Area: 7.1 acres

Impervious Surface: 8%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.02	0.03
Total Runoff Volume (ft3)	0	222	9,811
Total Infiltration (ft3)	242,472	128,656	325,265

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	20	59	16	95
Sediment 2	9	0	20	29
Sediment 3	1	0	1	3

Summary Data For Main Chester Creek - Drainage # 7

Basin Area: 58.3 acres

Impervious Surface: 78%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.21	3.42
Total Runoff Volume (ft3)	0	2,299	1,164,950
Total Infiltration (ft3)	1,782,497	945,123	656,222

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	3,719	25,120	3,280	32,120
Sediment 2	2,241	2,042	3,574	7,856
Sediment 3	951	2,050	1,014	4,015

Summary Data For Main Chester Creek - Drainage # 8

Basin Area: 77.3 acres

Impervious Surface: 59%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.15	3.44
Total Runoff Volume (ft3)	0	1,618	1,145,614
Total Infiltration (ft3)	2,604,935	1,382,771	1,594,013

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	5,495	30,700	4,302	40,490
Sediment 2	5,014	844	4,923	10,780
Sediment 3	3,352	526	3,028	6,906

Summary Data For Main Chester Creek - Drainage # 9

Basin Area: 6 acres

Impervious Surface: 23%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.20	0.18
Total Runoff Volume (ft3)	0	1,880	40,013
Total Infiltration (ft3)	1,595,728	845,790	215,415

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	99	430	59	587
Sediment 2	139	34	100	274
Sediment 3	94	24	81	200

Summary Data For Main Chester Creek - Drainage # 10

Basin Area: 3.5 acres

Impervious Surface: 23%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.00	0.05
Total Runoff Volume (ft3)	0	46	17,055
Total Infiltration (ft3)	72,086	38,261	126,893

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	82	310	57	448
Sediment 2	106	12	80	199
Sediment 3	71	7	61	140

Summary Data For Main Chester Creek - Drainage # 11

Basin Area: 18.6 acres

Impervious Surface: 9%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.20	0.04
Total Runoff Volume (ft3)	0	2,071	22,953
Total Infiltration (ft3)	1,408,959	746,595	852,094

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	37	119	21	177
Sediment 2	32	29	40	101
Sediment 3	14	19	19	52

Summary Data For Main Chester Creek - Drainage # 12

Basin Area: 25.1 acres

Impervious Surface: 71%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.15	1.41
Total Runoff Volume (ft3)	0	1,660	461,583
Total Infiltration (ft3)	815,885	432,126	365,353

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	3,564	17,110	2,895	23,560
Sediment 2	2,421	208	2,920	5,549
Sediment 3	1,900	101	1,748	3,749

Summary Data For Main Chester Creek - Drainage # 13

Basin Area: 12.1 acres

Impervious Surface: 37%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.00	0.31
Total Runoff Volume (ft3)	0	16	102,987
Total Infiltration (ft3)	403,028	214,124	380,373

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	563	3,120	392	4,074
Sediment 2	556	77	441	1,073
Sediment 3	484	54	422	959

Summary Data For Main Chester Creek - Drainage # 14

Basin Area: 15.4 acres

Impervious Surface: 35%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.04	0.40
Total Runoff Volume (ft3)	0	413	132,139
Total Infiltration (ft3)	524,264	278,229	500,786

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	532	2,189	347	3,068
Sediment 2	826	111	520	1,457
Sediment 3	588	68	502	1,158

Summary Data For Main Chester Creek - Drainage # 15

Basin Area: 13.7 acres

Impervious Surface: 43%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.13	0.54
Total Runoff Volume (ft3)	0	1,337	151,713
Total Infiltration (ft3)	491,497	260,086	390,409

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	1,525	5,622	1,135	8,282
Sediment 2	1,425	67	1,140	2,632
Sediment 3	1,285	37	1,121	2,443

Summary Data For Main Chester Creek - Drainage # 16

Basin Area: 85.3 acres

Impervious Surface: 2%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.43	0.11
Total Runoff Volume (ft3)	0	4,198	34,783
Total Infiltration (ft3)	2,811,364	1,489,398	4,183,760

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	85	351	46	483
Sediment 2	122	73	81	276
Sediment 3	82	57	62	201

Summary Data For Main Chester Creek - Drainage # 17

Basin Area: 16.8 acres

Impervious Surface: 33%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.12	0.42
Total Runoff Volume (ft3)	0	1,180	135,881
Total Infiltration (ft3)	550,477	291,552	566,010

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	1,124	4,953	872	6,949
Sediment 2	1,048	68	880	1,996
Sediment 3	965	41	861	1,867

Summary Data For Main Chester Creek - Drainage # 18

Basin Area: 6.6 acres

Impervious Surface: 41%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.05	0.20
Total Runoff Volume (ft3)	0	469	65,714
Total Infiltration (ft3)	206,429	109,306	194,770

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	410	1,937	365	2,712
Sediment 2	462	35	380	878
Sediment 3	377	20	343	740

Summary Data For Main Chester Creek - Drainage # 19

Basin Area: 8.1 acres

Impervious Surface: 6%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.01	0.01
Total Runoff Volume (ft3)	0	77	7,847
Total Infiltration (ft3)	258,855	137,469	380,460

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	21	58	16	95
Sediment 2	9	0	20	29
Sediment 3	2	0	1	3

Summary Data For Main Chester Creek - Drainage # 20

Basin Area: 21.2 acres

Impervious Surface: 17%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.05	0.41
Total Runoff Volume (ft3)	0	488	95,198
Total Infiltration (ft3)	743,799	394,803	848,274

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	261	1,150	154	1,565
Sediment 2	403	83	261	748
Sediment 3	283	57	242	583

Summary Data For Main Chester Creek - Drainage # 21

Basin Area: 36.9 acres

Impervious Surface: 8%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.25	0.21
Total Runoff Volume (ft3)	0	2,714	69,207
Total Infiltration (ft3)	1,232,020	652,412	1,699,965

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	407	1,916	373	2,696
Sediment 2	345	23	381	749
Sediment 3	66	3	63	132

Summary Data For Main Chester Creek - Drainage # 22

Basin Area: 37 acres

Impervious Surface: 20%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.22	0.38
Total Runoff Volume (ft3)	0	2,230	158,315
Total Infiltration (ft3)	1,222,190	647,196	1,483,889

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	24	100	23	147
Sediment 2	14	1	22	37
Sediment 3	6	0	3	10

Summary Data For Main Chester Creek - Drainage # 23

Basin Area: 3.7 acres

Impervious Surface: 11%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.09	0.01
Total Runoff Volume (ft3)	0	925	5,429
Total Infiltration (ft3)	353,878	187,276	164,684

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	20	58	16	94
Sediment 2	8	0	20	29
Sediment 3	1	0	1	2

Summary Data For Main Chester Creek - Drainage # 24

Basin Area: 6.9 acres

Impervious Surface: 10%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.06	0.04
Total Runoff Volume (ft3)	0	623	14,798
Total Infiltration (ft3)	206,429	109,187	310,212

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	79	381	80	540
Sediment 2	33	3	80	117
Sediment 3	2	0	6	8

Summary Data For Main Chester Creek - Drainage # 25

Basin Area: 4.1 acres

Impervious Surface: 17%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.05	0.05
Total Runoff Volume (ft3)	0	508	15,054
Total Infiltration (ft3)	140,896	74,462	169,351

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	108	323	94	525
Sediment 2	139	7	100	246
Sediment 3	96	3	81	180

Summary Data For Main Chester Creek - Drainage # 26

Basin Area: 129.3 acres

Impervious Surface: 52%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.13	5.22
Total Runoff Volume (ft3)	0	1,299	1,694,724
Total Infiltration (ft3)	4,518,498	2,399,761	3,037,740

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	7,408	37,880	6,089	51,380
Sediment 2	7,285	1,260	7,348	15,890
Sediment 3	4,333	747	3,991	9,071

Summary Data For Main Chester Creek - Drainage # 28

Basin Area: 11.2 acres

Impervious Surface: 39%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.03	0.35
Total Runoff Volume (ft3)	0	259	107,667
Total Infiltration (ft3)	376,815	200,006	335,992

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	453	1,800	308	2,561
Sediment 2	694	81	440	1,215
Sediment 3	494	48	421	964

Summary Data For Main Chester Creek - Drainage # 29

Basin Area: 15.9 acres

Impervious Surface: 30%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.11	0.36
Total Runoff Volume (ft3)	0	1,152	116,028
Total Infiltration (ft3)	537,370	284,594	555,981

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	587	2,134	450	3,171
Sediment 2	891	77	560	1,528
Sediment 3	637	43	541	1,222

Summary Data For Main Chester Creek - Drainage # 30

Basin Area: 9 acres

Impervious Surface: 4%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.11	0.01
Total Runoff Volume (ft3)	0	1,129	5,474
Total Infiltration (ft3)	437,667	234,443	434,275

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	21	59	16	96
Sediment 2	9	0	20	30
Sediment 3	2	0	1	3

Summary Data For Main Chester Creek - Drainage # 31

Basin Area: 9.7 acres

Impervious Surface: 48%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.03	0.36
Total Runoff Volume (ft3)	0	269	118,035
Total Infiltration (ft3)	327,665	173,874	249,572

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	777	4,107	715	5,599
Sediment 2	715	58	720	1,494
Sediment 3	625	33	598	1,255

Summary Data For Main Chester Creek - Drainage # 32

Basin Area: 24.3 acres

Impervious Surface: 33%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.00	0.61
Total Runoff Volume (ft3)	0	15	197,888
Total Infiltration (ft3)	822,439	436,967	811,785

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	938	3,534	698	5,170
Sediment 2	1,447	140	901	2,487
Sediment 3	1,038	80	882	1,999

Summary Data For Main Chester Creek - Drainage # 33

Basin Area: 21.5 acres

Impervious Surface: 39%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.06	0.62
Total Runoff Volume (ft3)	0	646	202,120
Total Infiltration (ft3)	714,309	379,021	661,267

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	897	5,119	716	6,732
Sediment 2	1,095	157	841	2,092
Sediment 3	908	108	822	1,838

Summary Data For Main Chester Creek - Drainage # 34

Basin Area: 93.9 acres

Impervious Surface: 81%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.09	5.82
Total Runoff Volume (ft3)	0	912	1,987,940
Total Infiltration (ft3)	3,161,965	1,679,304	900,130

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	10,780	60,150	9,714	80,640
Sediment 2	7,206	1,312	10,240	18,760
Sediment 3	4,186	849	4,157	9,191

Summary Data For Main Chester Creek - Drainage # 35

Basin Area: 10 acres

Impervious Surface: 36%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.10	0.26
Total Runoff Volume (ft3)	0	1,029	87,090
Total Infiltration (ft3)	324,388	171,542	320,127

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	324	1,383	201	1,908
Sediment 2	499	81	320	900
Sediment 3	352	52	301	706

Summary Data For Main Chester Creek - Drainage # 36

Basin Area: 27.3 acres

Impervious Surface: 44%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.04	0.93
Total Runoff Volume (ft3)	0	426	304,525
Total Infiltration (ft3)	937,121	497,578	761,225

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	1,941	9,052	1,532	12,530
Sediment 2	1,926	174	1,641	3,741
Sediment 3	1,505	99	1,325	2,928

Summary Data For Main Chester Creek - Drainage # 37

Basin Area: 28 acres

Impervious Surface: 7%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.16	0.17
Total Runoff Volume (ft3)	0	1,748	46,624
Total Infiltration (ft3)	914,822	490,457	1,319,811

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	354	1,047	322	1,722
Sediment 2	503	22	320	845
Sediment 3	361	10	302	673

Summary Data For Main Chester Creek - Drainage # 38

Basin Area: 124.2 acres

Impervious Surface: 74%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.07	7.01
Total Runoff Volume (ft3)	0	728	2,359,599
Total Infiltration (ft3)	4,230,153	2,246,991	1,606,948

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	11,560	67,500	9,892	88,960
Sediment 2	8,180	1,904	10,690	20,770
Sediment 3	5,004	1,386	4,800	11,190

Summary Data For Main Chester Creek - Drainage # 39

Basin Area: 18.7 acres

Impervious Surface: 6%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.13	0.07
Total Runoff Volume (ft3)	0	1,380	24,572
Total Infiltration (ft3)	616,010	326,191	877,149

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	82	401	52	535
Sediment 2	103	32	81	216
Sediment 3	72	25	62	159

Summary Data For Main Chester Creek - Drainage # 40

Basin Area: 24.2 acres

Impervious Surface: 69%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.00	1.36
Total Runoff Volume (ft3)	0	0	412,056
Total Infiltration (ft3)	806,055	428,274	379,897

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	434	3,347	235	4,016
Sediment 2	353	644	334	1,330
Sediment 3	69	169	51	289

Summary Data For Main Chester Creek - Drainage # 41

Basin Area: 9.4 acres

Impervious Surface: 14%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.11	0.05
Total Runoff Volume (ft3)	0	1,094	28,254
Total Infiltration (ft3)	330,941	174,975	405,529

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	21	59	16	96
Sediment 2	9	0	20	30
Sediment 3	2	0	1	3

Summary Data For Main Chester Creek - Drainage # 42

Basin Area: 59.8 acres

Impervious Surface: 2%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.36	0.09
Total Runoff Volume (ft3)	0	3,963	22,702
Total Infiltration (ft3)	2,017,215	1,081,409	2,959,238

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	49	366	41	455
Sediment 2	40	77	42	159
Sediment 3	32	109	23	164

Summary Data For Main Chester Creek - Drainage # 43

Basin Area: 40.3 acres

Impervious Surface: 66%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.02	2.04
Total Runoff Volume (ft3)	0	189	700,077
Total Infiltration (ft3)	1,379,469	732,793	681,378

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	3,570	16,820	3,123	23,510
Sediment 2	2,771	487	3,621	6,879
Sediment 3	1,292	267	1,257	2,816

Summary Data For Main Chester Creek - Drainage # 44

Basin Area: 372.2 acres

Impervious Surface: 59%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.51	16.63
Total Runoff Volume (ft3)	0	4,621	5,599,140
Total Infiltration (ft3)	12,536,460	6,655,543	7,684,434

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	32,310	166,100	27,730	226,200
Sediment 2	26,030	3,130	29,830	58,990
Sediment 3	16,820	1,707	15,710	34,240

Summary Data For Main Chester Creek - Drainage # 45

Basin Area: 6.5 acres

Impervious Surface: 34%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.00	0.16
Total Runoff Volume (ft3)	0	0	51,895
Total Infiltration (ft3)	209,706	111,420	214,835

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	249	940	177	1,366
Sediment 2	368	36	240	644
Sediment 3	260	21	221	502

Summary Data For Main Chester Creek - Drainage # 46

Basin Area: 96 acres

Impervious Surface: 30%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.00	2.13
Total Runoff Volume (ft3)	0	0	695,430
Total Infiltration (ft3)	39,722,360	21,358,420	3,408,838

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	3,704	13,860	2,999	20,570
Sediment 2	5,331	413	3,502	9,246
Sediment 3	3,587	208	3,057	6,852

Summary Data For Main Chester Creek - Drainage # 47

Basin Area: 27.1 acres

Impervious Surface: 43%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.04	0.91
Total Runoff Volume (ft3)	0	407	285,764
Total Infiltration (ft3)	918,113	493,336	777,969

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	785	3,718	413	4,916
Sediment 2	1,284	376	801	2,461
Sediment 3	906	270	782	1,958

Summary Data For Main Chester Creek - Drainage # 48

Basin Area: 27.9 acres

Impervious Surface: 42%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.10	0.92
Total Runoff Volume (ft3)	0	1,018	286,566
Total Infiltration (ft3)	1,102,393	591,947	818,451

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	785	3,762	418	4,964
Sediment 2	1,284	378	801	2,463
Sediment 3	906	272	783	1,961

Summary Data For Main Chester Creek - Drainage # 49

Basin Area: 63.1 acres

Impervious Surface: 52%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.02	2.57
Total Runoff Volume (ft3)	0	223	799,261
Total Infiltration (ft3)	2,089,611	1,123,384	1,541,849

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	2,311	17,680	1,752	21,750
Sediment 2	2,622	1,129	2,144	5,896
Sediment 3	2,229	1,055	2,051	5,335

Summary Data For Main Chester Creek - Drainage # 50

Basin Area: 20.7 acres

Impervious Surface: 45%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.02	0.76
Total Runoff Volume (ft3)	0	173	242,083
Total Infiltration (ft3)	681,180	366,125	566,106

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	822	3,969	587	5,377
Sediment 2	928	281	841	2,050
Sediment 3	560	195	506	1,261

Summary Data For Main Chester Creek - Drainage # 51

Basin Area: 14.3 acres

Impervious Surface: 43%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.06	0.48
Total Runoff Volume (ft3)	0	597	151,337
Total Infiltration (ft3)	467,283	250,785	413,780

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	433	2,019	233	2,685
Sediment 2	695	193	441	1,328
Sediment 3	489	137	422	1,047

Summary Data For Main Chester Creek - Drainage # 52

Basin Area: 9.9 acres

Impervious Surface: 8%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.10	0.02
Total Runoff Volume (ft3)	0	988	15,339
Total Infiltration (ft3)	298,175	157,649	455,693

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	21	59	16	96
Sediment 2	10	0	20	30
Sediment 3	2	0	1	3

Summary Data For Middle Chester Creek - Drainage # 1

Basin Area: 893.4 acres

Impervious Surface: 36%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	3.52	27.90
Total Runoff Volume (ft3)	0	45,925	8,584,962
Total Infiltration (ft3)	34,092,460	18,046,930	30,315,940

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	35,460	189,100	26,040	250,600
Sediment 2	38,880	7,509	33,170	79,550
Sediment 3	26,740	5,001	23,760	55,500

Summary Data For Middle Chester Creek - Drainage # 2

Basin Area: 203.8 acres

Impervious Surface: 58%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.60	9.00
Total Runoff Volume (ft3)	0	5,335	3,022,938
Total Infiltration (ft3)	7,091,515	3,806,470	4,317,511

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	12,010	66,530	9,225	87,770
Sediment 2	12,300	2,997	11,630	26,930
Sediment 3	8,309	2,192	7,567	18,070

Summary Data For Middle Chester Creek - Drainage # 3

Basin Area: 224.2 acres

Impervious Surface: 44%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.47	7.32
Total Runoff Volume (ft3)	0	4,472	2,413,380
Total Infiltration (ft3)	7,924,069	4,255,892	6,357,802

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	10,430	48,220	7,125	65,780
Sediment 2	14,510	1,953	9,706	26,170
Sediment 3	10,750	1,232	9,261	21,250

Summary Data For Middle Chester Creek - Drainage # 4

Basin Area: 189.3 acres

Impervious Surface: 7%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	1.43	0.83
Total Runoff Volume (ft3)	0	18,654	280,600
Total Infiltration (ft3)	7,140,828	3,809,896	9,823,300

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	1,062	4,882	724	6,668
Sediment 2	1,456	241	1,026	2,723
Sediment 3	904	135	762	1,801

Summary Data For Middle Chester Creek - Drainage # 5

Basin Area: 5.3 acres

Impervious Surface: 47%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.12	0.17
Total Runoff Volume (ft3)	0	1,287	56,990
Total Infiltration (ft3)	170,951	89,782	148,517

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	55	261	27	343
Sediment 2	68	186	58	312
Sediment 3	30	116	14	161

Summary Data For Middle Chester Creek - Drainage # 6

Basin Area: 103.2 acres

Impervious Surface: 17%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.51	1.49
Total Runoff Volume (ft3)	0	5,996	493,667
Total Infiltration (ft3)	1,193,167	628,702	4,532,970

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	1,659	8,316	1,222	11,200
Sediment 2	1,605	691	1,703	3,999
Sediment 3	865	498	809	2,172

Summary Data For Middle Chester Creek - Drainage # 7

Basin Area: 21.2 acres

Impervious Surface: 24%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.10	0.38
Total Runoff Volume (ft3)	0	1,089	125,397
Total Infiltration (ft3)	723,960	388,379	813,619

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	536	2,138	360	3,034
Sediment 2	827	98	520	1,446
Sediment 3	590	59	502	1,150

Summary Data For Middle Chester Creek - Drainage # 8

Basin Area: 45.2 acres

Impervious Surface: 50%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.71	1.89
Total Runoff Volume (ft3)	0	8,665	611,863
Total Infiltration (ft3)	1,615,310	850,766	1,216,490

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	580	5,685	392	6,657
Sediment 2	739	1,993	584	3,315
Sediment 3	531	2,134	433	3,097

Summary Data For Middle Chester Creek - Drainage # 9

Basin Area: 5.7 acres

Impervious Surface: 25%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.19	0.21
Total Runoff Volume (ft3)	0	2,148	49,128
Total Infiltration (ft3)	232,222	122,747	219,386

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	100	532	60	691
Sediment 2	109	40	101	250
Sediment 3	52	22	47	122

Summary Data For Middle Chester Creek - Drainage # 10

Basin Area: 18.1 acres

Impervious Surface: 10%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.09	0.11
Total Runoff Volume (ft3)	0	987	40,602
Total Infiltration (ft3)	638,401	342,438	823,879

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	79	348	42	468
Sediment 2	109	52	81	242
Sediment 3	71	41	62	174

Summary Data For Middle Chester Creek - Drainage # 11

Basin Area: 13.7 acres

Impervious Surface: 55%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.07	0.58
Total Runoff Volume (ft3)	0	819	191,747
Total Infiltration (ft3)	523,226	280,663	307,698

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	143	757	62	961
Sediment 2	223	504	161	889
Sediment 3	117	361	76	555

Summary Data For Middle Chester Creek - Drainage # 12

Basin Area: 163.8 acres

Impervious Surface: 31%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	1.21	4.36
Total Runoff Volume (ft3)	0	14,195	1,425,656
Total Infiltration (ft3)	6,781,609	3,620,582	6,279,290

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	6,768	37,160	4,969	48,900
Sediment 2	6,755	1,162	5,808	13,730
Sediment 3	5,073	772	4,474	10,320

Summary Data For Middle Chester Creek - Drainage # 13

Basin Area: 10.9 acres

Impervious Surface: 48%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.09	0.43
Total Runoff Volume (ft3)	0	957	137,386
Total Infiltration (ft3)	378,434	202,702	287,510

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	794	3,694	719	5,207
Sediment 2	565	71	800	1,436
Sediment 3	243	29	242	514

Summary Data For Middle Chester Creek - Drainage # 14

Basin Area: 12.1 acres

Impervious Surface: 3%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.12	0.01
Total Runoff Volume (ft3)	0	1,232	5,468
Total Infiltration (ft3)	391,596	209,585	591,143

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	21	59	16	96
Sediment 2	10	0	20	30
Sediment 3	3	0	1	4

Summary Data For Middle Chester Creek - Drainage # 15

Basin Area: 14.1 acres

Impervious Surface: 4%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.13	0.04
Total Runoff Volume (ft3)	0	1,421	12,121
Total Infiltration (ft3)	496,900	266,049	682,218

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	47	305	33	386
Sediment 2	35	23	40	98
Sediment 3	25	27	21	73

Summary Data For Middle Chester Creek - Drainage # 16

Basin Area: 9 acres

Impervious Surface: 30%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.19	0.35
Total Runoff Volume (ft3)	0	2,224	91,681
Total Infiltration (ft3)	373,732	198,460	327,432

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	287	1,388	201	1,876
Sediment 2	348	60	281	688
Sediment 3	186	30	163	379

Summary Data For Middle Chester Creek - Drainage # 17

Basin Area: 6.5 acres

Impervious Surface: 22%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.20	0.13
Total Runoff Volume (ft3)	0	2,138	37,102
Total Infiltration (ft3)	251,193	131,731	271,369

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	261	902	239	1,402
Sediment 2	348	21	240	609
Sediment 3	257	11	222	489

Summary Data For Middle Chester Creek - Drainage # 18

Basin Area: 20.9 acres

Impervious Surface: 10%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.13	0.15
Total Runoff Volume (ft3)	0	1,359	49,796
Total Infiltration (ft3)	816,100	437,742	950,289

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	302	1,484	216	2,002
Sediment 2	306	34	240	581
Sediment 3	258	23	221	502

Summary Data For Middle Chester Creek - Drainage # 19

Basin Area: 271.4 acres

Impervious Surface: 5%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	1.89	1.07
Total Runoff Volume (ft3)	0	23,851	261,307
Total Infiltration (ft3)	9,702,328	5,129,754	13,758,940

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	70	287	47	404
Sediment 2	104	311	46	460
Sediment 3	75	125	15	216

Summary Data For Middle Chester Creek - Drainage # 20

Basin Area: 14.8 acres

Impervious Surface: 41%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.25	0.37
Total Runoff Volume (ft3)	0	2,647	162,546
Total Infiltration (ft3)	502,386	264,613	463,585

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	21	67	16	104
Sediment 2	10	0	21	31
Sediment 3	2	0	2	4

Summary Data For North Chester Creek - Drainage # 1

Basin Area: 8.3 acres

Impervious Surface: 53%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.02	0.33
Total Runoff Volume (ft3)	0	211	107,735
Total Infiltration (ft3)	265,409	140,851	194,737

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	274	1,401	148	1,823
Sediment 2	398	151	281	829
Sediment 3	253	103	222	578

Summary Data For North Chester Creek - Drainage # 2

Basin Area: 9 acres

Impervious Surface: 32%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.10	0.25
Total Runoff Volume (ft3)	0	972	72,783
Total Infiltration (ft3)	281,792	148,958	305,080

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	766	3,120	535	4,421
Sediment 2	575	32	540	1,147
Sediment 3	566	19	502	1,087

Summary Data For North Chester Creek - Drainage # 3

Basin Area: 21.3 acres

Impervious Surface: 21%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.13	0.31
Total Runoff Volume (ft3)	0	1,392	102,691
Total Infiltration (ft3)	740,523	392,312	841,685

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	263	1,658	171	2,092
Sediment 2	261	102	261	623
Sediment 3	87	37	79	204

Summary Data For North Chester Creek - Drainage # 4

Basin Area: 9.2 acres

Impervious Surface: 58%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.00	0.40
Total Runoff Volume (ft3)	0	0	130,374
Total Infiltration (ft3)	304,728	161,908	194,764

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	334	1,767	186	2,287
Sediment 2	470	172	341	982
Sediment 3	286	112	252	650

Summary Data For North Chester Creek - Drainage # 5

Basin Area: 24.6 acres

Impervious Surface: 52%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.08	0.96
Total Runoff Volume (ft3)	0	809	315,990
Total Infiltration (ft3)	819,162	434,601	596,003

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	932	4,271	506	5,709
Sediment 2	1,511	382	941	2,834
Sediment 3	1,071	264	922	2,257

Summary Data For North Chester Creek - Drainage # 6

Basin Area: 886.5 acres

Impervious Surface: 57%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	1.32	37.57
Total Runoff Volume (ft3)	0	11,660	12,553,400
Total Infiltration (ft3)	33,077,760	17,559,700	19,205,180

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	53,830	292,900	42,700	389,400
Sediment 2	50,640	10,910	51,570	113,100
Sediment 3	32,130	7,361	29,520	69,010

Summary Data For South Chester Creek - Drainage # 1

Basin Area: 275.85 acres

Impervious Surface: 41%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.7	10.6
Total Runoff Volume (ft3)	0	6,083	3,427,665
Total Infiltration (ft3)	12,076,140	6,517,115	9,520,013

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	10,710	63,920	6,918	81,550
Sediment 2	11,490	4,323	10,220	26,030
Sediment 3	7,512	3,273	6,751	17,540

Summary Data For South Chester Creek - Drainage # 2

Basin Area: 710.1 acres

Impervious Surface: 43%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	1.4	29.8
Total Runoff Volume (ft3)	0	19,625	9,726,777
Total Infiltration (ft3)	30,136,790	7,265,553	23,756,190

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	34,850	194,200	23,950	253,000
Sediment 2	36,200	9,842	33,700	79,740
Sediment 3	22,720	6,583	20,490	49,790

Summary Data For South Chester Creek - Drainage # 3

Basin Area: 24.3 acres

Impervious Surface: 34%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.2	0.8
Total Runoff Volume (ft3)	0	956	239,088
Total Infiltration (ft3)	1,053,525	565,063	913,582

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	982	3,788	679	5,450
Sediment 2	1,562	231	942	2,735
Sediment 3	1,103	150	941	2,194

Summary Data For South Chester Creek - Drainage # 4

Basin Area: 10.7 acres

Impervious Surface: 35%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.1	0.3
Total Runoff Volume (ft3)	0	498	107,799
Total Infiltration (ft3)	450,983	241,827	396,588

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	404	1,666	252	2,323
Sediment 2	629	110	400	1,140
Sediment 3	445	74	381	901

Summary Data For South Chester Creek - Drainage # 5

Basin Area: 70.8 acres

Impervious Surface: 49%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.2	3.3
Total Runoff Volume (ft3)	0	2,166	1,060,968
Total Infiltration (ft3)	3,053,375	141,313	2,055,786

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	4,623	23,610	3,317	31,550
Sediment 2	4,959	951	4,362	10,270
Sediment 3	3,309	607	2,937	6,854

Summary Data For South Chester Creek - Drainage # 6

Basin Area: 21.7 acres

Impervious Surface: 9%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.6	0.2
Total Runoff Volume (ft3)	0	8,080	53,763
Total Infiltration (ft3)	809,551	428,961	1,123,886

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	321	1,524	294	2,139
Sediment 2	246	19	300	566
Sediment 3	18	1	23	41

Summary Data For South Chester Creek - Drainage # 7

Basin Area: 3.5 acres

Impervious Surface: 20%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.1	0.1
Total Runoff Volume (ft3)	0	1,002	17,916
Total Infiltration (ft3)	129,380	68,735	157,930

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	38	158	20	216
Sediment 2	41	45	40	126
Sediment 3	20	34	17	71

Summary Data For South Chester Creek - Drainage # 8

Basin Area: 43.74 acres

Impervious Surface: 55%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.3	2.3
Total Runoff Volume (ft3)	0	2,829	724,183
Total Infiltration (ft3)	1,693,033	907,116	1,103,036

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	4,031	23,980	2,911	30,930
Sediment 2	3,338	615	3,122	7,075
Sediment 3	2,921	457	2,595	5,973

Summary Data For South Chester Creek - Drainage # 9

Basin Area: 93.5 acres

Impervious Surface: 42%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.3	3.7
Total Runoff Volume (ft3)	0	1,704	1,217,223
Total Infiltration (ft3)	0	2,234,623	3,212,213

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	4,364	21,230	2,992	28,580
Sediment 2	5,601	1,035	4,302	10,940
Sediment 3	3,234	551	2,824	6,609

Summary Data For South Chester Creek - Drainage # 10

Basin Area: 30.2 acres

Impervious Surface: 40%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.1	1.2
Total Runoff Volume (ft3)	0	646	357,017
Total Infiltration (ft3)	1,157,029	620,865	1,032,879

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	1,269	5,357	771	7,397
Sediment 2	2,034	382	1,261	3,676
Sediment 3	1,449	259	1,242	2,951

Summary Data For South Chester Creek - Drainage # 11

Basin Area: 4.2 acres

Impervious Surface: 12%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.2	0.0
Total Runoff Volume (ft3)	0	1,946	11,583
Total Infiltration (ft3)	147,863	77,959	209,089

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	39	161	22	223
Sediment 2	41	18	40	99
Sediment 3	24	14	21	59

Summary Data For South Chester Creek - Drainage # 12

Basin Area: 8.9 acres

Impervious Surface: 40%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.3	0.3
Total Runoff Volume (ft3)	0	3,127	105,488
Total Infiltration (ft3)	306,816	162,517	299,980

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	251	1,211	119	1,581
Sediment 2	400	185	260	845
Sediment 3	274	145	241	660

Summary Data For South Chester Creek - Drainage # 13

Basin Area: 56.2 acres

Impervious Surface: 36%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	1.2	1.9
Total Runoff Volume (ft3)	0	16,677	597,527
Total Infiltration (ft3)	2,302,969	1,224,949	2,038,473

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	1,672	7,769	871	10,310
Sediment 2	2,756	831	1,702	5,289
Sediment 3	1,947	619	1,683	4,249

Summary Data For South Chester Creek - Drainage # 14

Basin Area: 608.8 acres

Impervious Surface: 22%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	20.2	19.1
Total Runoff Volume (ft3)	0	402,392	6,853,719
Total Infiltration (ft3)	37,979,090	19,763,130	41,538,940

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	13,080	79,970	6,295	99,350
Sediment 2	19,320	9,376	13,890	42,590
Sediment 3	12,730	6,528	11,410	30,670

Summary Data For South Chester Creek - Drainage # 15

Basin Area: 5.9 acres

Impervious Surface: 19%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.1	0.1
Total Runoff Volume (ft3)	0	376	31,058
Total Infiltration (ft3)	247,671	132,717	271,581

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	37	167	20	224
Sediment 2	36	113	36	184
Sediment 3	15	61	7	82

Summary Data For South Chester Creek - Drainage # 16

Basin Area: 93.9 acres

Impervious Surface: 36%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	1.5	2.8
Total Runoff Volume (ft3)	0	19,470	897,372
Total Infiltration (ft3)	4,225,191	2,255,035	3,425,372

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	2,652	13,090	1,577	17,320
Sediment 2	3,827	1,026	2,667	7,520
Sediment 3	2,447	679	2,130	5,256

Summary Data For South Chester Creek - Drainage # 17

Basin Area: 50.7 acres

Impervious Surface: 34%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.6	1.6
Total Runoff Volume (ft3)	0	7,567	533,079
Total Infiltration (ft3)	2,200,185	1,182,643	1,967,312

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	1,738	8,514	1,097	11,350
Sediment 2	2,397	511	1,721	4,630
Sediment 3	1,443	294	1,251	2,988

Summary Data For South Chester Creek - Drainage # 18

Basin Area: 25.4 acres

Impervious Surface: 10%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.3	0.3
Total Runoff Volume (ft3)	0	1,751	74,991
Total Infiltration (ft3)	2,047,128	1,104,297	1,342,572

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	65	577	45	686
Sediment 2	43	178	40	261
Sediment 3	26	155	17	197

Summary Data For South Chester Creek - Drainage # 19

Basin Area: 5.6 acres

Impervious Surface: 16%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.1	0.1
Total Runoff Volume (ft3)	0	361	33,216
Total Infiltration (ft3)	264,022	142,330	265,508

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	58	263	28	348
Sediment 2	74	54	60	188
Sediment 3	45	43	41	129

Summary Data For South Chester Creek - Drainage # 20

Basin Area: 16.3 acres

Impervious Surface: 4%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.4	0.0
Total Runoff Volume (ft3)	0	4,849	15,064
Total Infiltration (ft3)	665,795	356,130	924,132

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	86	439	74	599
Sediment 2	66	7	80	153
Sediment 3	35	3	33	71

Summary Data For South Chester Creek - Drainage # 21

Basin Area: 22.9 acres

Impervious Surface: 35%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.7	0.8
Total Runoff Volume (ft3)	0	9,520	235,041
Total Infiltration (ft3)	957,414	507,349	845,544

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	669	3,092	352	4,112
Sediment 2	1,088	325	681	2,093
Sediment 3	765	243	662	1,670

Summary Data For South Chester Creek - Drainage # 22

Basin Area: 3.6 acres

Impervious Surface: 53%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.1	0.2
Total Runoff Volume (ft3)	0	1,102	57,284
Total Infiltration (ft3)	118,619	63,247	98,877

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	340	1,551	311	2,201
Sediment 2	287	21	320	628
Sediment 3	53	3	55	112

Summary Data For South Chester Creek - Drainage # 23

Basin Area: 13.3 acres

Impervious Surface: 37%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.5	0.5
Total Runoff Volume (ft3)	0	5,859	151,100
Total Infiltration (ft3)	612,225	326,478	493,788

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	499	216	287	1,002
Sediment 2	792	166	500	1,458
Sediment 3	560	112	481	1,153

Summary Data For South Chester Creek - Drainage # 24

Basin Area: 158.3 acres

Impervious Surface: 48%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	2.5	6.9
Total Runoff Volume (ft3)	0	37,001	2,183,253
Total Infiltration (ft3)	6,661,236	3,551,007	4,698,319

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	7,945	48,220	5,274	61,430
Sediment 2	8,564	2,527	7,111	18,200
Sediment 3	6,171	1,948	5,460	13,580

Summary Data For South Chester Creek - Drainage # 25

Basin Area: 14.3 acres

Impervious Surface: 5%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.1	0.1
Total Runoff Volume (ft3)	0	1,145	14,820
Total Infiltration (ft3)	450,830	241,505	687,252

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	39	155	24	218
Sediment 2	43	34	40	117
Sediment 3	24	27	21	71

Summary Data For South Chester Creek - Drainage # 26

Basin Area: 20.1 acres

Impervious Surface: 31%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.4	0.6
Total Runoff Volume (ft3)	0	4,511	190,950
Total Infiltration (ft3)	933,644	500,977	817,997

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	799	3,052	564	4,415
Sediment 2	1,250	167	780	2,198
Sediment 3	893	103	762	1,758

Summary Data For South Chester Creek - Drainage # 27

Basin Area: 7.9 acres

Impervious Surface: 37%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.3	0.3
Total Runoff Volume (ft3)	0	3,640	87,911
Total Infiltration (ft3)	336,724	179,256	293,406

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	300	1,282	175	1,757
Sediment 2	466	93	300	859
Sediment 3	327	63	281	672

Summary Data For South Chester Creek - Drainage # 28

Basin Area: 10.1 acres

Impervious Surface: 6%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.1	0.0
Total Runoff Volume (ft3)	0	948	11,991
Total Infiltration (ft3)	315,910	169,115	479,817

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	86	264	72	422
Sediment 2	108	6	80	193
Sediment 3	73	3	61	137

Summary Data For South Chester Creek - Drainage # 29

Basin Area: 18.2 acres

Impervious Surface: 57%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.6	1.2
Total Runoff Volume (ft3)	0	7,804	333,445
Total Infiltration (ft3)	749,976	399,474	464,323

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	28	182	17	227
Sediment 2	32	155	29	216
Sediment 3	11	64	5	81

Summary Data For South Chester Creek - Drainage # 30

Basin Area: 12 acres

Impervious Surface: 43%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.0	0.4
Total Runoff Volume (ft3)	0	48	125,831
Total Infiltration (ft3)	421,213	226,438	347,765

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	736	4,059	675	5,470
Sediment 2	622	56	680	1,359
Sediment 3	353	26	350	729

Summary Data For South Chester Creek - Drainage # 31

Basin Area: 2.9 acres

Impervious Surface: 14%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.1	0.0
Total Runoff Volume (ft3)	0	1,048	6,574
Total Infiltration (ft3)	84,181	44,690	146,050

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	20	69	13	102
Sediment 2	8	0	20	29
Sediment 3	1	0	1	2

Summary Data For South Chester Creek - Drainage # 32

Basin Area: 16.6 acres

Impervious Surface: 42%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.4	0.7
Total Runoff Volume (ft3)	0	5,657	212,140
Total Infiltration (ft3)	738,497	394,733	564,498

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	942	5,353	633	6,928
Sediment 2	1,064	207	780	2,051
Sediment 3	877	154	762	1,793

Summary Data For South Chester Creek - Drainage # 33

Basin Area: 6.1 acres

Impervious Surface: 56%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.0	0.3
Total Runoff Volume (ft3)	0	232	82,330
Total Infiltration (ft3)	190,862	102,442	135,702

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	642	3,202	451	4,295
Sediment 2	513	47	460	1,020
Sediment 3	500	31	441	972

Summary Data For South Chester Creek - Drainage # 34

Basin Area: 106.2 acres

Impervious Surface: 57%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.2	4.4
Total Runoff Volume (ft3)	0	2,491	1,547,451
Total Infiltration (ft3)	3,553,985	1,908,940	2,319,146

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	821	12,180	717	13,720
Sediment 2	778	4,759	661	6,198
Sediment 3	749	5,664	538	6,951

Summary Data For South Chester Creek - Drainage # 35

Basin Area: 25.3 acres

Impervious Surface: 7%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.1	0.2
Total Runoff Volume (ft3)	0	1,455	49,252
Total Infiltration (ft3)	825,972	442,967	1,179,851

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	62	399	36	497
Sediment 2	70	157	60	287
Sediment 3	40	143	25	208

Summary Data For South Chester Creek - Drainage # 36

Basin Area: 12.3 acres

Impervious Surface: 6%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.4	0.0
Total Runoff Volume (ft3)	0	5,033	9,939
Total Infiltration (ft3)	454,679	240,535	660,166

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	21	67	14	102
Sediment 2	10	0	20	30
Sediment 3	3	0	1	4

Summary Data For South Chester Creek - Drainage # 37

Basin Area: 141.2 acres

Impervious Surface: 21%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.8	2.9
Total Runoff Volume (ft3)	0	7,671	860,152
Total Infiltration (ft3)	6,306,365	3,380,858	6,294,165

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	3,533	16,410	2,848	22,790
Sediment 2	4,359	602	3,403	8,363
Sediment 3	2,314	281	2,011	4,606

Summary Data For South Chester Creek - Drainage # 38

Basin Area: 17.1 acres

Impervious Surface: 33%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.4	0.5
Total Runoff Volume (ft3)	0	5,412	169,625
Total Infiltration (ft3)	765,282	409,320	670,600

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	496	2,251	277	3,024
Sediment 2	794	192	501	1,486
Sediment 3	560	133	483	1,175

Summary Data For South Chester Creek - Drainage # 39

Basin Area: 26.9 acres

Impervious Surface: 48%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.3	0.6
Total Runoff Volume (ft3)	0	3,254	266,026
Total Infiltration (ft3)	966,395	510,474	841,035

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	345	2,550	213	3,107
Sediment 2	270	213	342	825
Sediment 3	28	26	29	83

Summary Data For South Chester Creek - Drainage # 40

Basin Area: 63.6 acres

Impervious Surface: 2%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	1.2	0.1
Total Runoff Volume (ft3)	0	18,113	25,298
Total Infiltration (ft3)	2,384,294	1,267,662	3,550,902

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	43	127	22	192
Sediment 2	41	32	41	114
Sediment 3	23	20	19	62

Summary Data For South Chester Creek - Drainage # 41

Basin Area: 9.2 acres

Impervious Surface: 32%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.3	0.3
Total Runoff Volume (ft3)	0	3,556	87,236
Total Infiltration (ft3)	436,211	233,017	370,010

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	323	1,322	207	1,851
Sediment 2	498	86	320	905
Sediment 3	352	56	301	709

Summary Data For South Chester Creek - Drainage # 42

Basin Area: 24.9 acres

Impervious Surface: 35%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.3	0.9
Total Runoff Volume (ft3)	0	2,110	258,318
Total Infiltration (ft3)	1,101,581	590,021	913,561

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	1,051	4,686	803	6,540
Sediment 2	1,398	204	1,021	2,622
Sediment 3	830	110	718	1,657

Summary Data For South Chester Creek - Drainage # 43

Basin Area: 17.6 acres

Impervious Surface: 43%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.4	0.7
Total Runoff Volume (ft3)	0	5,772	226,166
Total Infiltration (ft3)	772,585	410,773	567,083

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	584	2,779	290	3,653
Sediment 2	956	349	601	1,906
Sediment 3	668	268	582	1,518

Summary Data For South Chester Creek - Drainage # 44

Basin Area: 6 acres

Impervious Surface: 65%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.2	0.4
Total Runoff Volume (ft3)	0	2,726	121,549
Total Infiltration (ft3)	233,411	124,096	121,834

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	453	3,253	381	4,087
Sediment 2	471	121	420	1,012
Sediment 3	427	102	401	930

Summary Data For South Chester Creek - Drainage # 45

Basin Area: 74.3 acres

Impervious Surface: 4%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.1	0.2
Total Runoff Volume (ft3)	0	956	76,065
Total Infiltration (ft3)	2,993,487	1,602,063	3,977,781

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	223	993	119	1,335
Sediment 2	348	107	221	676
Sediment 3	244	79	202	526

Summary Data For South Chester Creek - Drainage # 46

Basin Area: 28.2 acres

Impervious Surface: 22%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.5	0.6
Total Runoff Volume (ft3)	0	6,179	198,216
Total Infiltration (ft3)	1,300,979	698,134	1,282,088

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	664	2,811	394	3,870
Sediment 2	1,056	202	661	1,919
Sediment 3	751	135	642	1,527

Summary Data For South Chester Creek - Drainage # 47

Basin Area: 7.4 acres

Impervious Surface: 42%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.4	0.4
Total Runoff Volume (ft3)	0	4,577	107,009
Total Infiltration (ft3)	355,856	666,198	238,041

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	130	655	54	839
Sediment 2	202	233	141	576
Sediment 3	124	178	111	414

Summary Data For South Chester Creek - Drainage # 48

Basin Area: 14.1 acres

Impervious Surface: 35%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.4	0.5
Total Runoff Volume (ft3)	0	5,614	155,691
Total Infiltration (ft3)	673,448	359,575	534,409

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	476	2,134	263	2,874
Sediment 2	760	183	480	1,423
Sediment 3	536	127	462	1,125

Summary Data For South Chester Creek - Drainage # 49

Basin Area: 6.4 acres

Impervious Surface: 23%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.2	0.1
Total Runoff Volume (ft3)	0	2,929	45,686
Total Infiltration (ft3)	260,196	138,427	284,938

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	56	266	26	348
Sediment 2	72	118	61	251
Sediment 3	38	86	28	152

Summary Data For South Chester Creek - Drainage # 50

Basin Area: 6.5 acres

Impervious Surface: 35%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.2	0.2
Total Runoff Volume (ft3)	0	2,843	68,325
Total Infiltration (ft3)	271,675	144,697	246,249

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	263	1,058	172	1,493
Sediment 2	400	64	260	725
Sediment 3	282	41	241	564

Summary Data For South Chester Creek - Drainage # 51

Basin Area: 23 acres

Impervious Surface: 38%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.3	0.8
Total Runoff Volume (ft3)	0	4,187	274,142
Total Infiltration (ft3)	1,044,609	561,157	835,598

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	877	3,849	495	5,221
Sediment 2	1,414	310	881	2,604
Sediment 3	1,003	212	862	2,077

Summary Data For South Chester Creek - Drainage # 52

Basin Area: 15.2 acres

Impervious Surface: 47%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.4	0.7
Total Runoff Volume (ft3)	0	5,788	223,637
Total Infiltration (ft3)	573,961	305,719	470,119

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	717	3,144	405	4,266
Sediment 2	1,151	252	721	2,123
Sediment 3	816	172	702	1,689

Summary Data For South Chester Creek - Drainage # 53

Basin Area: 79.5 acres

Impervious Surface: 48%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.2	2.6
Total Runoff Volume (ft3)	0	2,766	988,028
Total Infiltration (ft3)	2,920,118	1,547,028	2,260,674

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	1,342	14,850	1,135	17,330
Sediment 2	1,360	2,289	1,246	4,895
Sediment 3	1,251	2,867	1,195	5,313

Summary Data For South Chester Creek - Drainage # 54

Basin Area: 6.6 acres

Impervious Surface: 35%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.2	0.2
Total Runoff Volume (ft3)	0	1,790	65,913
Total Infiltration (ft3)	299,423	159,495	243,156

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	219	956	125	1,300
Sediment 2	335	78	220	633
Sediment 3	233	56	201	490

Summary Data For South Chester Creek - Drainage # 55

Basin Area: 11.7 acres

Impervious Surface: 35%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.1	0.4
Total Runoff Volume (ft3)	0	939	120,307
Total Infiltration (ft3)	524,914	281,186	430,672

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	355	1,618	190	2,163
Sediment 2	564	162	360	1,086
Sediment 3	395	120	341	856

Summary Data For South Chester Creek - Drainage # 56

Basin Area: 32.1 acres

Impervious Surface: 33%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.1	0.9
Total Runoff Volume (ft3)	0	588	306,804
Total Infiltration (ft3)	1,157,482	619,306	1,196,413

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	177	2,524	156	2,857
Sediment 2	157	1,010	130	1,297
Sediment 3	150	1,142	108	1,399

Summary Data For South Chester Creek - Drainage # 57

Basin Area: 3.9 acres

Impervious Surface: 46%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.2	0.2
Total Runoff Volume (ft3)	0	1,804	52,791
Total Infiltration (ft3)	137,751	73,040	122,464

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	226	968	163	1,357
Sediment 2	319	45	220	584
Sediment 3	232	29	201	462

Summary Data For South Chester Creek - Drainage # 58

Basin Area: 7.4 acres

Impervious Surface: 64%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.3	0.4
Total Runoff Volume (ft3)	0	3,696	143,662
Total Infiltration (ft3)	283,154	150,178	157,798

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	698	4,493	614	5,805
Sediment 2	699	115	640	1,454
Sediment 3	656	86	621	1,363

Summary Data For South Chester Creek - Drainage # 59

Basin Area: 7.8 acres

Impervious Surface: 35%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.3	0.3
Total Runoff Volume (ft3)	0	4,228	80,902
Total Infiltration (ft3)	348,203	184,991	299,276

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	325	1,278	220	1,823
Sediment 2	498	73	320	891
Sediment 3	352	46	301	700

Summary Data For South Chester Creek - Drainage # 60

Basin Area: 40.3 acres

Impervious Surface: 39%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	1.3	1.5
Total Runoff Volume (ft3)	0	18,207	489,557
Total Infiltration (ft3)	1,863,461	992,968	1,448,450

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	1,599	6,948	919	9,466
Sediment 2	2,590	543	1,601	4,734
Sediment 3	1,844	369	1,582	3,795

Summary Data For South Chester Creek - Drainage # 61

Basin Area: 94.5 acres

Impervious Surface: 39%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.6	3.4
Total Runoff Volume (ft3)	0	6,401	1,063,129
Total Infiltration (ft3)	4,206,707	2,254,413	3,259,555

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	3,555	16,920	2,252	22,730
Sediment 2	5,126	1,086	3,526	9,739
Sediment 3	3,247	673	2,812	6,731

Summary Data For South Chester Creek - Drainage # 62

Basin Area: 191.2 acres

Impervious Surface: 47%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	1.0	7.8
Total Runoff Volume (ft3)	0	12,832	2,468,848
Total Infiltration (ft3)	6,733,366	3,562,659	5,387,136

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	4,244	31,710	3,040	38,990
Sediment 2	4,008	7,080	4,133	15,220
Sediment 3	2,375	7,277	2,058	11,710

Summary Data For South Chester Creek - Drainage # 63

Basin Area: 23.2 acres

Impervious Surface: 28%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.6	0.7
Total Runoff Volume (ft3)	0	7,442	211,245
Total Infiltration (ft3)	1,182,360	633,227	972,772

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	527	2,490	260	3,276
Sediment 2	860	299	541	1,699
Sediment 3	602	223	522	1,347

Summary Data For South Chester Creek - Drainage # 64

Basin Area: 9.7 acres

Impervious Surface: 37%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.2	0.3
Total Runoff Volume (ft3)	0	2,041	110,038
Total Infiltration (ft3)	417,079	223,775	358,188

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	359	1,563	203	2,125
Sediment 2	564	123	360	1,047
Sediment 3	397	84	341	822

Summary Data For South Chester Creek - Drainage # 65

Basin Area: 19.9 acres

Impervious Surface: 43%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.9	0.8
Total Runoff Volume (ft3)	0	10,815	265,593
Total Infiltration (ft3)	914,512	486,115	664,074

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	952	4,152	598	5,702
Sediment 2	1,483	266	941	2,690
Sediment 3	1,071	177	922	2,169

Summary Data For South Chester Creek - Drainage # 66

Basin Area: 14.1 acres

Impervious Surface: 37%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.5	0.5
Total Runoff Volume (ft3)	0	6,903	159,268
Total Infiltration (ft3)	623,705	331,914	523,211

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	586	2,401	378	3,364
Sediment 2	923	158	580	1,661
Sediment 3	656	103	561	1,321

Summary Data For South Chester Creek - Drainage # 67

Basin Area: 30.7 acres

Impervious Surface: 31%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.3	0.9
Total Runoff Volume (ft3)	0	2,270	278,156
Total Infiltration (ft3)	1,482,328	794,324	1,209,257

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	1,191	4,556	851	6,598
Sediment 2	1,872	254	1,161	3,286
Sediment 3	1,339	161	1,142	2,642

Summary Data For South Chester Creek - Drainage # 68

Basin Area: 4.3 acres

Impervious Surface: 35%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.2	0.1
Total Runoff Volume (ft3)	0	2,008	43,884
Total Infiltration (ft3)	164,536	87,399	163,709

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	138	611	75	824
Sediment 2	204	53	140	397
Sediment 3	140	38	121	299

Summary Data For South Chester Creek - Drainage # 69

Basin Area: 18.8 acres

Impervious Surface: 5%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.0	0.0
Total Runoff Volume (ft3)	0	208	21,513
Total Infiltration (ft3)	1,070,399	572,950	996,307

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	51	291	35	377
Sediment 2	33	24	40	98
Sediment 3	26	26	21	74

Summary Data For South Chester Creek - Drainage # 70

Basin Area: 8.5 acres

Impervious Surface: 40%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.1	0.2
Total Runoff Volume (ft3)	0	1,258	93,588
Total Infiltration (ft3)	282,592	149,009	271,279

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	50	347	35	432
Sediment 2	31	111	37	179
Sediment 3	24	133	21	178

Summary Data For South Chester Creek - Drainage # 71

Basin Area: 2.7 acres

Impervious Surface: 56%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.1	0.1
Total Runoff Volume (ft3)	0	916	42,338
Total Infiltration (ft3)	103,504	54,899	67,005

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	161	659	101	920
Sediment 2	236	42	160	438
Sediment 3	164	28	141	333

Summary Data For South Chester Creek - Drainage # 72

Basin Area: 2.7 acres

Impervious Surface: 56%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.2	0.1
Total Runoff Volume (ft3)	0	2,063	44,178
Total Infiltration (ft3)	3,501,473	1,873,209	65,732

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	189	1,163	139	1,491
Sediment 2	191	44	160	395
Sediment 3	159	34	142	335

Summary Data For South Chester Creek - Drainage # 73

Basin Area: 74.2 acres

Impervious Surface: 53%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	1.7	3.8
Total Runoff Volume (ft3)	0	25,310	1,262,450
Total Infiltration (ft3)	3,260,100	1,741,789	2,067,023

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	4,492	26,120	3,007	33,620
Sediment 2	4,546	1,491	4,262	10,300
Sediment 3	3,011	1,121	2,714	6,846

Summary Data For South Chester Creek - Drainage # 74

Basin Area: 16.9 acres

Impervious Surface: 50%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.2	0.8
Total Runoff Volume (ft3)	0	2,966	242,063
Total Infiltration (ft3)	616,840	328,119	472,280

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	394	2,006	163	2,562
Sediment 2	662	543	421	1,626
Sediment 3	434	428	402	1,265

Summary Data For South Chester Creek - Drainage # 75

Basin Area: 2.4 acres

Impervious Surface: 38%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.1	0.0
Total Runoff Volume (ft3)	0	1,374	22,567
Total Infiltration (ft3)	125,684	66,454	84,055

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	20	67	14	100
Sediment 2	8	0	20	28
Sediment 3	1	0	1	2

Summary Data For South Chester Creek - Drainage # 76

Basin Area: 4.5 acres

Impervious Surface: 40%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.2	0.1
Total Runoff Volume (ft3)	0	2,527	53,791
Total Infiltration (ft3)	187,494	99,329	157,806

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	20	70	13	103
Sediment 2	8	0	20	29
Sediment 3	1	0	1	2

Summary Data For South Chester Creek - Drainage # 77

Basin Area: 15 acres

Impervious Surface: 45%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.2	0.6
Total Runoff Volume (ft3)	0	1,347	188,564
Total Infiltration (ft3)	587,756	314,626	469,797

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	822	3,113	595	4,530
Sediment 2	1,282	166	801	2,249
Sediment 3	915	104	782	1,801

Summary Data For South Chester Creek - Drainage # 78

Basin Area: 21.8 acres

Impervious Surface: 64%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.7	1.4
Total Runoff Volume (ft3)	0	9,057	458,139
Total Infiltration (ft3)	872,421	464,710	440,369

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	1,886	12,990	1,451	16,320
Sediment 2	1,444	452	1,641	3,536
Sediment 3	1,120	368	1,045	2,532

Summary Data For South Chester Creek - Drainage # 79

Basin Area: 6.3 acres

Impervious Surface: 49%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.3	0.3
Total Runoff Volume (ft3)	0	3,737	95,861
Total Infiltration (ft3)	286,981	152,217	186,658

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	171	892	87	1,150
Sediment 2	245	175	181	601
Sediment 3	155	136	143	434

Summary Data For South Chester Creek - Drainage # 80

Basin Area: 8.8 acres

Impervious Surface: 45%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.1	0.4
Total Runoff Volume (ft3)	0	2,108	124,134
Total Infiltration (ft3)	382,641	204,873	281,011

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	332	1,549	167	2,048
Sediment 2	531	172	340	1,043
Sediment 3	370	126	321	818

Summary Data For South Chester Creek - Drainage # 81

Basin Area: 148.8 acres

Impervious Surface: 10%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.1	1.7
Total Runoff Volume (ft3)	0	579	440,641
Total Infiltration (ft3)	2,132,926	1,144,927	7,588,894

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	387	2,040	154	2,580
Sediment 2	640	1,622	423	2,685
Sediment 3	339	1,105	167	1,611

Summary Data For South Chester Creek - Drainage # 82

Basin Area: 30.2 acres

Impervious Surface: 69%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.4	1.9
Total Runoff Volume (ft3)	0	8,251	687,675
Total Infiltration (ft3)	6,194,955	3,337,854	546,649

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	23	81	16	120
Sediment 2	12	0	23	35
Sediment 3	4	0	4	8

Summary Data For South Chester Creek - Drainage # 83

Basin Area: 48.4 acres

Impervious Surface: 29%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.2	1.4
Total Runoff Volume (ft3)	0	4,314	409,391
Total Infiltration (ft3)	1,145,940	611,522	1,938,563

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	1,879	12,360	1,266	15,500
Sediment 2	1,751	429	1,423	3,603
Sediment 3	1,588	362	1,391	3,340

Summary Data For Rabbit Creek - Drainage # 1

Basin Area: 15.5 acres

Impervious Surface: 6%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.99	0.15
Total Runoff Volume (ft3)	0	27,327	67,562
Total Infiltration (ft3)	1,058,499	526,303	1,552,621

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	125	1,388	86	1,598
Sediment 2	95	130	100	326
Sediment 3	90	164	81	336

Summary Data For Rabbit Creek - Drainage # 2

Basin Area: 64.3 acres

Impervious Surface: 11%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	1.67	1.41
Total Runoff Volume (ft3)	0	38,590	511,299
Total Infiltration (ft3)	4,425,311	2,272,654	5,935,924

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	193	1,230	76	1,499
Sediment 2	259	758	193	1,209
Sediment 3	119	427	68	614

Summary Data For Rabbit Creek - Drainage # 3

Basin Area: 42.1 acres

Impervious Surface: 3%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	2.22	0.21
Total Runoff Volume (ft3)	0	57,712	88,904
Total Infiltration (ft3)	2,949,841	1,483,621	4,356,489

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	163	1,552	111	1,826
Sediment 2	157	132	141	430
Sediment 3	137	141	122	400

Summary Data For Rabbit Creek - Drainage # 4

Basin Area: 59.4 acres

Impervious Surface: 19%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	1.50	1.88
Total Runoff Volume (ft3)	0	33,336	851,835
Total Infiltration (ft3)	4,128,899	2,122,660	4,987,000

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	1,491	12,400	963	14,860
Sediment 2	1,388	1,014	1,482	3,884
Sediment 3	976	818	937	2,731

Summary Data For Rabbit Creek - Drainage # 5

Basin Area: 97.8 acres

Impervious Surface: 8%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	3.21	1.53
Total Runoff Volume (ft3)	0	76,994	566,274
Total Infiltration (ft3)	6,775,456	3,462,612	9,458,026

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	439	3,429	237	4,104
Sediment 2	660	766	463	1,889
Sediment 3	467	677	444	1,588

Summary Data For Rabbit Creek - Drainage #**6**

Basin Area: 38.6 acres

Impervious Surface: 2%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.08	0.15
Total Runoff Volume (ft3)	0	1,072	24,472
Total Infiltration (ft3)	1,404,700	753,422	2,132,673

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	43	136	23	202
Sediment 2	45	2	41	88
Sediment 3	27	1	19	46

Summary Data For Rabbit Creek - Drainage # 7

Basin Area: 208.4 acres

Impervious Surface: 10%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.21	2.44
Total Runoff Volume (ft3)	0	3,936	583,396
Total Infiltration (ft3)	7,813,525	4,216,360	10,843,450

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	1,690	8,478	1,269	11,440
Sediment 2	2,340	386	1,606	4,332
Sediment 3	1,822	268	1,588	3,678

Summary Data For Rabbit Creek - Drainage # 8

Basin Area: 62 acres

Impervious Surface: 6%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	1.53	1.08
Total Runoff Volume (ft3)	0	34,128	401,284
Total Infiltration (ft3)	4,263,000	2,191,541	6,028,952

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	388	2,757	225	3,369
Sediment 2	568	356	402	1,325
Sediment 3	422	299	383	1,104

Summary Data For Rabbit Creek - Drainage # 9

Basin Area: 83.6 acres

Impervious Surface: 7%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	1.87	1.52
Total Runoff Volume (ft3)	0	42,373	498,217
Total Infiltration (ft3)	5,716,937	2,941,973	8,014,641

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	86	486	33	605
Sediment 2	115	475	70	660
Sediment 3	66	236	21	323

Summary Data For Rabbit Creek - Drainage # 10

Basin Area: 54.7 acres

Impervious Surface: 13%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	2.29	1.46
Total Runoff Volume (ft3)	0	57,104	573,392
Total Infiltration (ft3)	3,754,555	1,904,552	4,897,892

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	908	7,408	661	8,977
Sediment 2	1,174	617	902	2,693
Sediment 3	958	552	883	2,393

Summary Data For Rabbit Creek - Drainage #**11**

Basin Area: 56.7 acres

Impervious Surface: 12%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.02	0.65
Total Runoff Volume (ft3)	0	225	161,331
Total Infiltration (ft3)	1,819,772	978,192	2,471,662

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	783	3,774	673	5,230
Sediment 2	943	82	722	1,746
Sediment 3	783	50	703	1,536

Summary Data For Rabbit Creek - Drainage #**12**

Basin Area: 161.2 acres

Impervious Surface: 5%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	3.94	1.40
Total Runoff Volume (ft3)	0	97,735	509,058
Total Infiltration (ft3)	11,306,570	5,804,292	16,360,850

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	823	6,358	555	7,736
Sediment 2	1,133	629	823	2,585
Sediment 3	895	551	804	2,251

Summary Data For Rabbit Creek - Drainage #**13**

Basin Area: 202.7 acres

Impervious Surface: 2%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	4.17	1.19
Total Runoff Volume (ft3)	0	104,032	388,204
Total Infiltration (ft3)	14,186,270	7,300,159	21,098,150

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	129	814	63	1,005
Sediment 2	142	432	82	657
Sediment 3	85	243	27	355

Summary Data For Rabbit Creek - Drainage # 14

Basin Area: 20.4 acres

Impervious Surface: 4%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.70	0.17
Total Runoff Volume (ft3)	0	14,705	73,384
Total Infiltration (ft3)	1,390,415	711,864	2,048,067

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	36	138	9	184
Sediment 2	31	33	39	103
Sediment 3	14	19	16	48

Summary Data For Rabbit Creek - Drainage # 15

Basin Area: 46.2 acres

Impervious Surface: 9%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	1.26	0.73
Total Runoff Volume (ft3)	0	27,718	257,851
Total Infiltration (ft3)	3,225,481	1,656,807	4,430,651

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	268	2,079	146	2,493
Sediment 2	389	404	281	1,074
Sediment 3	278	358	262	898

Summary Data For Rabbit Creek - Drainage #**16**

Basin Area: 183.3 acres

Impervious Surface: 0%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	3.75	0.10
Total Runoff Volume (ft3)	0	93,407	22,813
Total Infiltration (ft3)	12,894,740	6,637,007	19,640,880

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	41	81	21	143
Sediment 2	43	1	22	66
Sediment 3	36	0	4	40

Summary Data For Rabbit Creek - Drainage # 17

Basin Area: 84.4 acres

Impervious Surface: 1%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	2.05	0.24
Total Runoff Volume (ft3)	0	48,234	75,025
Total Infiltration (ft3)	5,914,527	3,039,696	8,902,248

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	46	211	20	276
Sediment 2	50	95	40	185
Sediment 3	31	66	11	108

Summary Data For Rabbit Creek - Drainage # 18

Basin Area: 106.7 acres

Impervious Surface: 4%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	2.54	1.11
Total Runoff Volume (ft3)	0	60,929	386,731
Total Infiltration (ft3)	7,474,294	3,840,987	10,802,930

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	597	4,245	406	5,248
Sediment 2	841	384	603	1,827
Sediment 3	654	320	584	1,558

Summary Data For Rabbit Creek - Drainage #**19**

Basin Area: 168.3 acres

Impervious Surface: 8%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	2.95	2.91
Total Runoff Volume (ft3)	0	70,344	1,126,176
Total Infiltration (ft3)	11,624,440	5,997,183	16,101,630

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	974	7,577	534	9,085
Sediment 2	1,404	1,443	1,024	3,872
Sediment 3	986	1,239	931	3,156

Summary Data For Rabbit Creek - Drainage # 20

Basin Area: 43 acres

Impervious Surface: 10%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	1.18	0.90
Total Runoff Volume (ft3)	0	25,804	352,733
Total Infiltration (ft3)	2,936,105	1,507,915	4,004,333

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	306	2,389	169	2,864
Sediment 2	447	444	321	1,212
Sediment 3	320	391	303	1,014

Summary Data For Rabbit Creek - Drainage #**21**

Basin Area: 151.2 acres

Impervious Surface: 7%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	4.86	2.50
Total Runoff Volume (ft3)	0	122,787	854,463
Total Infiltration (ft3)	10,480,440	5,348,545	14,644,510

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	772	5,302	394	6,468
Sediment 2	1,240	962	824	3,026
Sediment 3	881	786	806	2,472

Summary Data For Rabbit Creek - Drainage #**22**

Basin Area: 186.2 acres

Impervious Surface: 8%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	4.35	2.72
Total Runoff Volume (ft3)	0	108,971	1,116,029
Total Infiltration (ft3)	12,965,150	6,659,155	18,033,550

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	1,721	14,440	1,254	17,420
Sediment 2	2,081	1,198	1,684	4,962
Sediment 3	1,621	1,059	1,491	4,171

Summary Data For Rabbit Creek - Drainage #**23**

Basin Area: 34.7 acres

Impervious Surface: 7%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	1.02	0.35
Total Runoff Volume (ft3)	0	22,120	150,457
Total Infiltration (ft3)	2,399,701	1,231,501	3,406,842

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	34	138	10	183
Sediment 2	34	55	25	114
Sediment 3	15	33	3	51

Summary Data For Rabbit Creek - Drainage # 24

Basin Area: 90.9 acres

Impervious Surface: 14%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	2.24	2.24
Total Runoff Volume (ft3)	0	53,322	854,963
Total Infiltration (ft3)	6,323,864	3,248,997	8,175,751

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	1,025	9,127	650	10,800
Sediment 2	1,280	1,432	1,043	3,756
Sediment 3	951	1,356	912	3,219

Summary Data For Rabbit Creek - Drainage #**25**

Basin Area: 135 acres

Impervious Surface: 12%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.16	1.69
Total Runoff Volume (ft3)	0	2,460	416,523
Total Infiltration (ft3)	4,793,208	2,564,617	6,474,582

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	1,390	7,562	1,110	10,060
Sediment 2	1,740	280	1,303	3,324
Sediment 3	1,376	194	1,225	2,795

Summary Data For Rabbit Creek - Drainage #**26**

Basin Area: 57.7 acres

Impervious Surface: 8%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	1.46	0.92
Total Runoff Volume (ft3)	0	32,392	307,768
Total Infiltration (ft3)	3,973,624	2,042,830	5,600,109

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	34	146	11	191
Sediment 2	35	66	24	125
Sediment 3	18	28	4	49

Summary Data For Rabbit Creek - Drainage #**27**

Basin Area: 102 acres

Impervious Surface: 12%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.19	1.33
Total Runoff Volume (ft3)	0	2,833	291,689
Total Infiltration (ft3)	3,711,366	1,990,673	4,994,267

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	725	4,044	478	5,248
Sediment 2	1,021	280	703	2,003
Sediment 3	777	223	678	1,677

Summary Data For Rabbit Creek - Drainage #**28**

Basin Area: 11.5 acres

Impervious Surface: 4%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.52	0.16
Total Runoff Volume (ft3)	0	10,634	57,916
Total Infiltration (ft3)	762,248	388,765	1,135,548

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	36	142	10	187
Sediment 2	30	7	40	77
Sediment 3	12	3	21	37

Summary Data For Rabbit Creek - Drainage #**29**

Basin Area: 13.1 acres

Impervious Surface: 4%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.02	0.16
Total Runoff Volume (ft3)	0	120	22,832
Total Infiltration (ft3)	462,072	247,993	693,117

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	41	124	24	190
Sediment 2	43	1	40	84
Sediment 3	26	0	22	47

Summary Data For Rabbit Creek - Drainage # 30

Basin Area: 36.1 acres

Impervious Surface: 9%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	1.05	0.65
Total Runoff Volume (ft3)	0	22,869	237,407
Total Infiltration (ft3)	2,505,571	1,285,868	3,462,038

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	475	3,865	373	4,713
Sediment 2	569	256	461	1,286
Sediment 3	479	230	442	1,152

Summary Data For Rabbit Creek - Drainage #**31**

Basin Area: 7.4 acres

Impervious Surface: 5%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.01	0.05
Total Runoff Volume (ft3)	0	114	10,007
Total Infiltration (ft3)	233,749	123,900	367,889

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	41	118	27	185
Sediment 2	42	1	40	83
Sediment 3	25	0	21	46

Summary Data For Rabbit Creek - Drainage #**32**

Basin Area: 262.3 acres

Impervious Surface: 7%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.21	2.77
Total Runoff Volume (ft3)	0	2,842	423,611
Total Infiltration (ft3)	8,865,018	4,700,043	12,688,640

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	247	1,265	116	1,628
Sediment 2	387	657	243	1,287
Sediment 3	230	482	137	850

Summary Data For Rabbit Creek - Drainage #**33**

Basin Area: 151.1 acres

Impervious Surface: 4%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.05	1.02
Total Runoff Volume (ft3)	0	497	127,283
Total Infiltration (ft3)	4,883,438	2,625,171	7,252,281

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	113	568	66	748
Sediment 2	141	109	103	354
Sediment 3	85	73	58	217

Summary Data For Rabbit Creek - Drainage # 34

Basin Area: 32.9 acres

Impervious Surface: 7%

Impervious surface area refers to current only. No impervious surfaces were present predevelopment.

	Predevelopment		Current
	Summer (4/1 - 10/15)	Winter (10/16 - 3/31)	4/1 - 3/31
Maximun Runoff Rate (cfs)	0	0.00	0.24
Total Runoff Volume (ft3)	0	11	56,050
Total Infiltration (ft3)	1,171,996	627,488	1,681,633

Sediment Modeled for current development only

Sediment Type	Removed by Sweeping	Removed by Washoff	Remaining on Surface	Total
Sediment 1	192	925	151	1,268
Sediment 2	238	32	181	451
Sediment 3	184	21	161	366