Municipal Stormwater Ordinances Summary Table

Municipality	Stormwater Ordinance	Runoff equals pre and post develop- ment	Erosion and Sediment Control	Water Quality Requirements	Peak Rate Require- ments	Design Storm	Design Standards
Abington Township	Yes, SALDO	Yes	Yes	Any development which creates a significant change in characteristics of the watershed, thus increasing volume and velocity of surface-water runoff due to the decrease in retention and infiltration of storm water, shall not be permitted until guarantees are made of improvements that will reduce the likelihood of erosion, sedimentation, inundation and water drainage from peak periods of precipitation and provide for controlled disposal of excess surface water.	Stormwater detention sized to limit peak outfall to the predevelopm ent rate for 2-, 5-, 10-, 25-, 50- and 100-year storms.	- Residential areas and streets: based on a ten-year storm - commercial and industrial areas, secondary and primary streets: twenty-five- year storm	 Designs shall provide for overflow that will cause no damage to property nor affect health and safety of individuals. Additional storage shall be provided to compensate for basin bypass areas.
Bryn Athyn Borough	No	No	Yes		N/A	N/A	N/A
Hatboro Borough	Yes	Yes	Yes	 The capacity of all natural streams shall not be reduced from the predevelopment conditions. All drainage provisions shall be of such design as to carry surface water to the nearest practical storm drain, detention basin, or natural water course. Where drainage 	Stormwater Detention. Stormwater detention facilities will be required if Runoff from the development would increase the peak runoff by one (1) cubic foot per second (CFS) or	All stormwater facilities shall be designed to transport a ten year frequency storm. Provision must be made to convey the 100 year storm to and be controlled by required	Developer shall construct and/or install such drainage structures as necessary to: - Preserve the existing culverts and bridges by suppressing new flood peaks - Provide off-site improvements to satisfactorily handle stormwater from

	Vachut	Vaa	Vec	swales are used, they shall not be less than 1 % grade. (The swales shall be sodded or planted as required and shall be of such shape, size, and slope to conform with specifications of Borough Engineer.) - Construction. The developer shall construct and/or install such drainage structures and/or pipes which are necessary to prevent erosion damage and to satisfactorily carry off such surface waters to the nearest practical storm drain or natural water course, in accordance with current State Erosion Control and Sedimentation Regulations. - A 100 foot buffer (50 feet from edge or bank of water body) shall be maintained along all perennial water courses and ponds.	more from the existing conditions.	detention facilities.	proposed development - Prevent erosion damage and to satisfactorily carry off or detain and control the rate of release of surface waters. - Encourage all runoff control measures to percolate stormwater into ground - Carry surface water to nearest adequate street, storm drain, detention basin, natural watercourse or drainage facility. - Take surface water from bottom of vertical grades, to lead water away from springs, and to avoid excessive use of cross gutters - Not only handle anticipated peak discharge from property being subdivided or developed, but also existing and forecasted run-off being contributed from all land at a higher elevation in watershed. - Maintain natural stream channels.
Horsham Township	Yes, but only in portions of Township located within the confines of the Little Neshaminy Creek	Yes, requires groundw ater recharge	Yes	 Stormwater management facilities shall be provided to detain 1-year, 24-hour (SCS Type II) design storm using the distribution. Provisions shall be 	Peak rate requirements for the 1-, 2-, 5-, 10-, 25-, 50- and 100-year return period runoff events (design storms)	- Design storm criteria to be used in calculations for the watershed is to limit the post- development runoff for	Retention of existing watercourses and natural drainage features. - Watercourse, stream, or intermittent stream located within a
	Watershed.			made so that 1-year	consistent	the 1-, 5-, 10-	development site

				storm takes 25 hours to drain from	with the	, 25, 50- and 100-year	shall remain open in its natural state and
				the facility from a point where	methodology as specified.	storms to the applicable	location.
				maximum volume of water captured	×	release rate of the	- Existing points of natural drainage
				by facility for 1-year		predevelopm	discharge onto
				(i.e., maximum		ent flows.	shall not be altered
				water surface elevation achieved		- Provisions must also be	without the written
				in facility).		made for	affected
				- Release of this		safely passing the	homeowners.
				water can begin at		runoff greater than	- No stormwater
				storm (i.e., the		that	drainage shall be so
				invert of the water quality orifice is at		occurring from the	diverted as to overload existing
				the invert of the facility).		largest design storm.	drainage systems (including existing stormwater
				- Stormwater			management facilities) or create
				districts must			flooding.
				implement water quality requirement			- Design of facility
				of Subsections A and B			shall consider and minimize chances
							of clogging and
				- Can be obtained through BMPs			sedimentation potential.
				including			(minimum outfall orifice diameter
				detention, extended			shall be four in.)
Jenkintown	Yes,	No	Yes	day detention, etc. - Stormwater or	N/A	N/A	- The provisions
Borough	SALDO			surface water shall			made for disposal
				over a sidewalk but			refuse and
				shall be collected in suitable inlets and			stormwater, including
				conducted			certification of the Borough Engineer
				curb or drain, if			as to adequacy, and
				available.			a suitable contour map of the area.
				- Adequate			- Storm drainage
				made for disposal			facilities shall be
				ot surface stormwater from			designed to convey the flow of
				adjoining properties			stormwater runoff
				of roof water.			efficient manner.
							- The system shall

							ensure proper drainage along streets and provide positive drainage away from buildings. - The system shall also be designed to prevent the discharge of excess runoff onto adiacent properties.
Lower Moreland Township	Yes	Yes and groundw ater recharge	Yes	State Water Quality Requirements for post-construct ion: - BMPs shall be designed, implemented and maintained to meet State Water Quality Requirements, and any other more stringent requirements as determined - Post-construction stormwater impacts can be met by BMPs, including site design, which provide for replication of pre- construction stormwater infiltration - and runoff conditions This may be achieved by the following: - Infiltration: replication of pre- construction stormwater infiltration gre- construction stormwater infiltration - and runoff conditions This may be achieved by the following: - Infiltration stormwater infiltration conditions, - Treatment: use of water quality treatment BMPs to ensure filtering out of the chemical and physical pollutants	 The rate of stormwater runoff from any proposed earth disturbance activity after full development shall not exceed the peak rate of discharge prior to development Culverts or bridges shall be required at all stream crossings of any street or roadway, using design criteria for a 100-year peak flow rate appropriate to the contributing watershed. 	The storm drain system shall be designed to carry a 50- year peak flow rate. The design 50-year peak flow rate into each inlet shall be indicated on the stormwater drainage plan. The 50- year flow rate shall be determined by the Rational Formula (NOTE: Appropriate values for the runoff coefficient and rainfall intensity can be found in the Commonwea Ith of Pennsylvania Department of Transportati on Design Manual, Part 2, Highway Design, Chapter 12.)	 All land areas graded to secu re proper drainage away from buildings. Drainage provisions to carry surface waters to nearest practical adequate street, storm drain or natural watercourse. Developers must carry surface water to practical storm drain or natural watercourse. Developer shall construct and/or install such drainage structures and/or pipes as required to prevent erosion, damage and siltation and to satisfactorily carry off surface waters. Stormwater discharge shall be carried by conduit to prevent excessive surface flow on or across streets, sidewalks, drives, parking areas and any other paved surface or traveled way, where infiltration practices, such as pervious paving, would not be feasible.

	from the stormwater runoff, and - Stream bank and Streambed Protection: management of volume and rate of post construction		- Natural swales or open drains of any type may be used only where no danger to structures or abutting property.
Rockledge No N/A Yo Borough	Yes N/A	N/A N/A	N/A
Upper Dublin Township Yes Yes, and groundw ater recharge Yes Image: State of the state of	Yes - Stormwater detention facilities shall include provisions to detain, for extended periods of time, runoff from the water quality design storm - Release of detained stormwater can begin at the start of the storm (i.e., the stormwater detention facility will not permanently retain a portion of the runoff). - When detention basins are used to satisfy the water quality requirement, the invert of the water quality orifice may be placed at invert of the basin. (Township Engineer will determine the minimum standard diameter orifice as part of the stormwater management plan review) - In soils nonconducive to infiltration, the addition of an underdrain is required, (can be waived upon determination by the	Any stormwater detentionThe design storm criteria to be used in calculations for the watershed is and subject to the water qualityThe design storm criteria to be used in calculations for the watershed is to limit the post development runoff for the one-, stormwaterrunoff nd peak rate requirements herein shall meet the applicable requirement for the 1-, 2-, 10-, 50 and 100-year return period runoff events (design storms) consistent with the standard and accepted calculation methodology and be satisfactory to the Township Engineer.The design storm criteria to be used in calculation methodology and be satisfactory to the TownshipThe design storms to the the and to the to the to the to wnship	 Design of Stormwater management facility shall consider and minimize the chances of clogging and sedimentation potential. Stormwater detention facilities include provisions to detain, for extended periods of time, runoff from the water quality design storm (1-year, 24- hour rainfall event), using methodology appropriate for the drainage area under consideration Selected BMP must meet required water quality and runoff peak rate requirements Developers shall consider use of innovative BMPs (e.g., infiltration techniques, wet ponds, riparian buffers, bioretention areas, underground detention, seepage beds, artificial wetlands), if appropriate, to provide for water quality impropriate, to

				- Water quality objective can be obtained through a variety of approved BMPs or combinations thereof, including retention basins, detention basins and bioretention areas.			groundwater recharge.
Upper Moreland Township	Yes, SALDO	Yes	Yes	State Water Quality Requirements can be met by BMPs, including site design, which provide for replication of pre- construction stormwater filtration and runoff conditions, so that post-construction stormwater discharges do not degrade the physical, chemical or biological characteristics of the receiving waters. - BMPs must be designed to protect and maintain existing uses (e.g., drinking water use; cold water fishery use) and maintain the level of water quality necessary to protect those uses in all streams, and to protect and maintain water quality in "Special Protection" streams, as required by statewide regulations at 25 Pa. Code Chapter 93 (collectively referred to herein as "State Water Quality Requirements").	Facilities should be so designed that during a 10 year frequency storm the maximum discharge from the site is equal to a 2 year undeveloped flow.	Stormwater detention facilities shall be designed for a 50 year frequency storm with a maximum permitted outlet of 10 year storm during the undeveloped condition.	The computations and design for the drainage system, including runoff calculations, locations and size of inlets, determination of type and size of storm sewer pipe, design of swales and ditches shall be in accordance with the Standards of Upper Moreland Township and/or the Pennsylvania Department of Transportation, Design Manual No. 2, Chapter 12. The computations and design with plans indicating drainage runoff areas and coefficients shall be submitted to the Township Engineer for approval.

Upper Southampton Township	Yes, for the portion of the Township within the Neshaminy Creek Watershed	Yes	Yes	State Water Quality Requirements for post-construction: - BMPs shall be designed, implemented and maintained to meet State Water Quality Requirements, and any other more stringent requirements as determined - Post-construction stormwater impacts can be met by BMPs, including site design, which provide for replication of pre- construction stormwater infiltration - and runoff conditions This may be achieved by the following: - Infiltration: replication of pre- construction stormwater infiltration generic construction stormwater infiltration of pre- construction stormwater infiltration conditions, - Treatment: use of water quality treatment BMPs to ensure filtering out of the chemical and physical pollutants from the stormwater runoff, and - Stream bank and Streambed Protection: management of volume and rate of post construction	Stormwater Runoff Peak Rate Districts: General - Proposed conditions peak rates of runoff from any regulated activity shall not exceed 75% of the peak release rates of runoff from existing conditions for the design storms specified on the Stormwater Management District Watershed Map (Ordinance Appendix D) and Section 408 A 3, of this Ordinance	Standards for managing runoff from each subarea in the Neshaminy Creek Watershed for the 2, 5, 10, 25, 50 and 100-year design storms are shown on the Map in Appendix D. Develop- ment sites located in each of the Management Districts must control proposed conditions runoff rates to existing conditions runoff rates, or percentages thereof	In addition to the peak runoff rate requirements above, the erosion and sedimentation control, the nonstructural project design, the groundwater recharge, the water quality, and the streambank erosion requirements shall be implemented.
Warminster Township	Yes, SALDO	Yes	Yes	- Storm water run- off shall be limited	Basins shall be designed to detain the	All run-off calculations shall be	- Blocks and lots shall be graded to secure proper

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			shall be used as the			such design as to
			starting base for	development		carry surface waters
			such calculations	, releasing at		to the nearest
			instead of the actual	a maximum		practical street, storm
			condition.	outflow rate		drain, or natural
			All	equal to that		water course
			- All streams, lakes	resulting		Original all all
			and ponds shall be	from a pre-		- Owner snall
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