

MONAGHAN TOWNSHIP

STORM WATER

MANAGEMENT ORDINANCE

OF 1992

YORK COUNTY, PENNSYLVANIA

THE PREPARATION OF THIS ORDINANCE WAS FINANCED IN PART THROUGH A STATE PLANNING ASSISTANCE GRANT FROM THE DEPARTMENT OF COMMUNITY AFFAIRS UNDER THE PROVISIONS OF ACT 7A APPROVED AUGUST 4, 1991, AS ADMINISTERED BY THE BUREAU OF COMMUNITY PLANNING, PENNSYLVANIA DEPARTMENT OF COMMUNITY AFFAIRS.



MONAGHAN TOWNSHIP

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**MONAGHAN TOWNSHIP
YORK COUNTY, PENNSYLVANIA**

ORDINANCE NO. _____ 1992

AN ORDINANCE FOR THE MANAGEMENT OF STORM WATER RUNOFF IN MONAGHAN TOWNSHIP, YORK COUNTY, PENNSYLVANIA; CONTAINING GENERAL PROVISIONS; DEFINING CERTAIN TERMS; ESTABLISHING DESIGN STANDARDS AND PLAN REQUIREMENTS; REQUIRING THE COMPLETION OF STORM WATER MANAGEMENT FACILITIES OR THE GUARANTEE THEREOF; ESTABLISHING PROCEDURES FOR MAINTENANCE OF STORM WATER MANAGEMENT FACILITIES; AND PROVIDING FOR THE ADMINISTRATION AND ENFORCEMENT OF THE ORDINANCE, INCLUDING THE IMPOSITION OF PENALTIES.

WHEREAS, the Board of Supervisors of Monaghan Township has proposed certain storm water management standards in a proposed Storm Water Management Ordinance; and

WHEREAS, the Board of Supervisors of Monaghan Township held a public hearing pursuant to public notice on _____, 1992, to receive public comment concerning the proposed Storm Water Management Ordinance; and

WHEREAS, the Board of Supervisors of Monaghan Township deems it necessary and appropriate to enact a Storm Water Management Ordinance.

NOW, THEREFORE, BE IT ENACTED AND ORDAINED AND IT IS HEREBY

ENACTED AND ORDAINED by the Board of Supervisors of Monaghan Township, York County, Pennsylvania, that the Monaghan Township Storm Water Management Ordinance is hereby adopted to read as follows:

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ARTICLE I

GENERAL PROVISIONS

SECTION 101 **TITLE**

This Ordinance shall be known and may be cited as the “Monaghan Township Storm Water Management Ordinance.”

SECTION 102 **STATEMENT OF FINDINGS**

The Board of Supervisors of Monaghan Township finds that inadequate management of storm water runoff increases downstream flooding, eroding and/or silts stream channels, pollutes water, overloads existing drainage facilities, and reduces the groundwater table.

A comprehensive and reasonable program of storm water management regulations is fundamental to the public health, safety, and welfare and to the protection of the citizenry and environment.

SECTION 103 **PURPOSE**

The purpose of this Ordinance is to promote the public health, safety and welfare by minimizing the problems described in Section 102 of this Ordinance by provisions designed to:

- a) Manage storm water runoff, soil erosion and sedimentation, both during and upon completion of a land disturbance activity, by regulating activities which cause such problems.
- b) Utilize and preserve existing natural drainage.
- c) Encourage recharge of groundwaters.
- d) Maintain and/or improve the existing flows and quality of streams and watercourses in the municipality and the Commonwealth.
- e) Preserve and/or restore the flood carrying capacity of streams.
- f) Provide for proper maintenance of all storm water management structures.

ADOPTION-AUTHORITY-APPLICABILITY

The Board of Supervisors of Monaghan Township pursuant to the Pennsylvania Storm Water Management Act, Act of October 4, 1978, P.L. 864, No. 167, as amended, the Pennsylvania Municipalities Planning Code, Act of July 31, 1968, P.L. 805, No. 247, as amended, and the Second Class Township Code, Act of May 1, 1933, P.L. 103, No. 69, reenacted and amended July 10, 1947 P.L. 1481, No. 567, as amended, hereby enacts and ordains this Ordinance as the Monaghan Township Storm Water Ordinance. This Ordinance shall apply to all land disturbance activities as defined in this Ordinance. The standards shall apply to conditions both during and upon completion of a land disturbance activity.

ARTICLE II

DEFINITIONS

SECTION 201 GENERAL

Words and phrases shall be presumed to be used in their ordinary context unless such word or phrase is defined or interpreted differently within this section.

SECTION 202 GENERAL TERMS

In this Ordinance when not inconsistent with the context:

- a) Words in the present tense imply also the future tense.
- b) The singular includes the plural.
- c) The male gender includes the female gender.
- d) The term “person” includes an individual, partnership, corporation, unincorporated association, estate, or any other legally recognized entity.
- e) The term “shall” or “must” is always mandatory.
- f) The term “may” is permissive.

SECTION 203 SPECIFIC TERMS

The following words and phrases shall have the particular meaning assigned by this section of this Ordinance. Additionally, the words and phrases which are used in this Ordinance and not defined below shall have the meaning assigned by the Monaghan Township Subdivision and Land Development Ordinance.

Agriculture - The tilling of the soil, the raising of crops, forestry, horticulture and gardening, including the keeping or raising of livestock, such as cattle, cows, hogs, horses, sheep, goats, poultry, rabbits, birds, fish, bees and other similar animals.

Board of Supervisors - The Board of Supervisors of the Township of Monaghan, York County, Pennsylvania.

Channel - A natural or artificial watercourse with a definite bed and banks which confine and conduct continuously or periodically flowing water.

Culvert - A structure with appurtenant works which carries a watercourse under or through an embankment of fill.

Dedication - The deliberate appropriation of property by its owner for general public use.

Design Storm - The magnitude of precipitation from a storm event measured in probability of occurrence (e.g. 25-year storm) and duration (e.g. 24 hour storm) and used in computing storm water management control systems.

Detention Basin - A reservoir which temporarily contains storm water runoff and releases it gradually into a watercourse or storm water drainage system.

Developer - Anyone who undertakes Land Disturbance Activities as defined in this Ordinance.

Drainage Easement - A right granted by a landowner to a grantee, allowing the use of private land for storm water management purposes.

Erosion - The processes by which soil particles are detached and transported by action of natural forces.

Floodplain - Any area specified as Floodplain in the Zoning Ordinance of Monaghan Township, as amended, and the Flood-prone Area/Floodplain Building Construction Permit Ordinance of Monaghan Township, as amended.

Impervious Surface - A surface made of materials which prevent the percolation of water into the ground.

Land Disturbance Activity - The use of land for activities in the following categories:

- a) Installation of new impervious or semi-impervious surface that is either in excess of five thousand (5,000) square feet or two-thirds (2/3) of the total lot area, or
- b) Diversion or piping of any natural or man-made watercourse, or
- c) Removal of ground cover, grading, filling, or other excavation in excess of five (5) acres, except for the agricultural use of land when operated in accordance with a farm conservation plan approved by the York County Conservation District.

Peak Discharge - The maximum rate of flow of water at a given point and time resulting from a specified storm event.

Retention Basin - A reservoir designed to retain storm water runoff with its primary release of water being through the infiltration of said water into the ground.

Sedimentation Basin - A reservoir designed to retain sediment.

Semi-impervious Surface - A surface such as stone, rock, or other material which prevents some percolation of water into the ground.

Storm Sewer - A system of pipes, conduits, swales or other similar structures, including appurtenant works, which carries intercepted runoff, and other drainage, but excludes domestic sewage and industrial waste.

Storm Water Management - A program of controls and measures designed to regulate the quantity and quality of storm water runoff from a development while promoting the protection and conservation of groundwaters and groundwater recharge.

Storm Water Management Facilities - Those controls and measures (e.g., storm sewers, berms, terraces, bridges, dams, basins, infiltration systems, swales, watercourses, and floodplains) used to effect a storm water management program.

Storm Water Runoff - Drainage runoff from the surface of the land resulting from precipitation or snow and ice melt.

Township - Monaghan Township, York County, Pennsylvania.

Watercourse - A permanent or intermittent stream, river, brook, creek, run, channel, swale, pond, lake, or other body of water, whether natural or man-made, for gathering or carrying surface water.

ARTICLE III

PERMIT PROCEDURES AND REQUIREMENTS

SECTION 301 GENERAL

A Land Disturbance Activity, as defined in this Ordinance, shall not be initiated until a Storm Water Management Permit has been issued.

SECTION 302 APPLICATION PROCEDURE

All applications for a Storm Water Management Permit, the activity for which also constitutes a subdivision or land development, shall be submitted concurrently with the Monaghan Township Subdivision and Land Development Ordinance application. Final action on the Storm Water Management Permit will be made in conjunction with the final plan.

An Application for a Storm Water Management Permit shall be submitted to the designated Township representative who has been authorized to receive applications at the Monaghan Township Building, on any business day.

The Township staff shall forward the application to the Township Engineer to determine approval, conditional approval or disapproval of the application.

The Township Engineer shall, within sixty (60) days from the municipal receipt of an application, issue a permit (see Appendix No. 3) or disapprove the application and transmit the decision in writing to the applicant and the Township Board of Supervisors. Failure of the Township Engineer to render a decision and communicate it as prescribed above shall not be deemed an approval.

A notice of disapproval shall cite the reasons for disapproval.

SECTION 303 APPLICATION REQUIREMENTS

303.01 An application for a Storm Water Management Permit for a Land Disturbance Activity, as defined in this Ordinance, shall include the following items:

- a) One (1) completed copy of the Application for a Storm Water Management Permit (see Appendix No. 1).
- b) Four (4) copies of the Storm Water Management Plan (see Section 304 for Plan contents).
- c) Filing fee in the amount specified in the fee schedule as established by resolution or ordinance of the Board of Supervisors.

- d) Performance bond, when applicable (see Section 309 for specifications).
- e) Liability insurance, when applicable (see Section 310 for specifications).

SECTION 304

STORM WATER MANAGEMENT PLAN CONTENTS

Storm water management plans shall be prepared by professionals registered in the Commonwealth of Pennsylvania to perform such duties. Designs which entail engineering expertise shall be prepared by engineers with appropriate expertise. The plan shall show, be accompanied by, or be prepared in accordance with the following:

304.01 General

- 304.01.1 The plan shall be clearly and legibly drawn at a scale of ten (10) feet, twenty (20) feet, thirty (30) feet, forty (40) feet, fifty (50) feet, or one hundred (100) feet to the inch. Profile plans shall maintain a ratio of 1:10 vertical to horizontal.
- 304.01.2 The sheet size shall be twenty-two by thirty-six (22 x 36) inches. If the plan is prepared in two (2) or more sections, a key map showing the location of the sections shall be placed on each sheet. If more than one (1) sheet is necessary, each sheet shall be numbered to show the relationship to the total number of sheets in the plan (e.g., Sheet 1 of 5).
- 304.01.3 Plans shall be legible in every detail.
- 304.01.4 Name and address of landowner, applicant, and individual who prepared the plan.
- 304.01.5 Plan date and date of latest revision to plan, north point, graphic scale and written scale. All maps shall be drawn at a commonly used engineering scale.
- 304.01.6 A location map, drawn to scale, relating the property to at least two (2) intersections of existing road centerlines, including the approximate distance to the intersection of the centerlines of the nearest existing street intersection.
- 304.01.7 Note on plan indicating any area that is proposed to be offered for dedication to the Township. Any area that is easemented and not to be offered for dedication shall be identified along with a statement that the Township is not responsible for the maintenance of any area not dedicated to and accepted for public use.
- 304.01.8 Certificate, signed and sealed by an individual registered in the Commonwealth of Pennsylvania and qualified to perform such duties,

indicating compliance with the provisions of this Ordinance (see Appendix No. 2).

304.02 Existing Features

- 304.02.1 Tract boundaries showing distances, bearings and curve data, as located by field survey or deed plotting, total acreage of tract, and total acreage of project if less than the entire tract.
- 304.02.2 Existing topographical data. This information shall be provided by field survey of contour lines. Contour lines shall be provided at two (2) foot vertical intervals for slopes of four percent (4%) or less, and at vertical intervals of five (5) feet for more steeply sloping land. Additionally, the benchmark and the datum used shall also be indicated. The United States Geodetic Survey shall be used for benchmark datum.
- 304.02.3 Names of all owners of all immediately adjacent land, names of all proposed or existing developments immediately adjacent, and locations and dimensions of any streets or easements shown thereon.
- 304.02.4 Names, locations and dimensions of all existing buildings, streets, railroads, utilities, watercourses, drainage facilities, floodplains, wetland, and other significant features located either within and adjacent to the property or two hundred (200) feet from the property.
- 304.02.5 The size, slope capacity, and condition of the existing storm water management system and any other facility that may be used to convey storm flows.
- 304.02.6 Soils types as designated by the U.S. Department of Agriculture, Soil Conservation Service, Soil Survey of York County.
- 304.02.7 Designation of the location of on-site and off-site sub-watersheds.
- 304.02.8 Designation of the location of the time of concentration for the on-site and off-site sub-watersheds.

304.03 Proposed Features

- 304.03.1 Proposed land use, total number of lots and dwelling units, and extent of commercial, industrial or other non-residential uses.
- 304.03.2 Locations and dimensions of all proposed streets, sidewalks, lot lines, building locations, parking compounds, impervious and semi-impervious surfaces, sanitary sewer facilities, water facilities, storm water management facilities, utilities, and other significant features.

This information shall be provided to the detail necessary to construct the facilities.

- 304.03.3 Proposed changes to land surface and vegetative cover including areas to be cut or filled.
- 304.03.4 Proposed Topographical Data. This information shall be provided by contour lines indicating the natural drainage patterns of the site. Contour lines shall be provided at two (2) foot vertical intervals for slopes of four percent (4%) or less, and at vertical intervals of five (5) feet for more steeply sloping land.
- 304.03.5 Plans and profiles of proposed storm water management facilities including horizontal and vertical location. This information shall be of the quality required for the construction of all facilities.
- 304.03.6 The size, capacity, and condition of the proposed storm water management system and other facility that may be used to convey storm flows.
- 304.03.7 Plans and profiles of all erosion and sedimentation control measures, temporary as well as permanent.
- 304.03.8 Designation of the location of on-site sub-watersheds.
- 304.03.9 Designation of the location of the time of concentration for the on-site sub-watersheds.
- 304.04 Written Report and Calculations
 - 304.04.1 Calculations, assumptions, criteria, and references used in the design of storm water management facilities, the establishment of capacities, and the pre-development and post-development peak discharge. This information shall include data on all sub-watersheds.
 - 304.04.2 For all basins, a plotting or tabulation of the storage volumes and discharge curves with corresponding water surface elevations, inflow hydrographs, and outflow hydrographs.
 - 304.04.3 Soil structures and characteristics shall be provided for all proposed detention and retention basins which (a) hold two (2) acre feet or more of water, or (b) have an embankment that is six (6) feet or more in height, or (c) in the opinion of the Township, located directly upstream from buildings, streets or other significant structures. Plans and data prepared by a registered professional experienced and educated in soil mechanics shall be submitted. This data shall provide design solutions for frost heave potential, spring-swell potential, soil bearing strength,

water infiltration, soil settling characteristics, fill and back-filling procedures and soil treatment techniques as required to protect the improvements or structures.

304.04.4 Description of all erosion and sedimentation control measures, temporary as well as permanent, including the staging of land moving activities, sufficient in detail to clearly indicate their function. All erosion and sedimentation control measures shall conform to the requirements of the Pennsylvania Department of Environmental Resources, Soil Erosion and Sedimentation Control Manual.

304.04.5 Description of an ownership and maintenance program, in a recordable form, that clearly sets forth the ownership and maintenance responsibilities for all temporary and permanent storm water management facilities which shall include the following:

- a) Description of the method and extent of the maintenance requirements.
- b) When maintained by a private entity, identification of an individual, corporation, association or other entity responsible for ownership and maintenance.
- c) When maintained by a private entity, a copy of the legally binding document which provides that the Township shall have the right to:
 - (1) Inspect the facilities at any time.
 - (2) Require the private entity to take corrective measures and assign the private entity reasonable time periods for any necessary action.
 - (3) Authorize maintenance to be done by the Township or an agent or contractor of the Township and the liening of the cost of the work against the properties of the private entity responsible for the maintenance.
- d) Establishment of suitable easements for access to storm water management facilities.
- e) When an assignment of responsibility is made to the Township, it must include an acknowledgement of their formal acceptance of the responsibility.

This document shall be recorded in the Office of the Recorder of Deeds for York County upon issuance of a permit. In all cases, the document

shall be recorded prior to the initiation of construction and be fully effective at the post-construction period.

- 304.04.6 A Pennsylvania Department of Transportation Highway Occupancy Permit for any storm water management facility proposed within the right-of-way of any State road.
- 304.04.7 For land disturbance activities of five (5) or more acres, a certificate from regulatory agency(ies) that no NPDES, Earth Disturbance Permit, or other soil erosion and sediment pollution control approval is required by law, or if such approval is required by law, then a true and correct copy of such approval shall be provided to the Township.
- 304.04.8 Notification of approval from the applicable State and Federal agencies for any proposed encroachment into the wetland.

SECTION 305 MODIFICATION OF PLANS

A modification of an approved Storm Water Management Plan shall require a new permit except that the Township Engineer may authorize modification provided that such modifications do not (1) alter the storm water management facilities in a manner which significantly affects the discharge of storm water to an adjacent property, or (2) significantly relocate a major storm water management facility within the project.

SECTION 306 WAIVER AND APPEAL PROCEDURE

The provisions of this Ordinance are intended as minimum standards for the protection of the public health, safety and welfare. The Board of Supervisors may grant a waiver from literal compliance with mandatory provisions of the Ordinance if the applicant can demonstrate either (1) that compliance would cause undue hardship as it applies to a particular property, or (2) that an alternative proposal will allow for equal or better results.

Additionally, the Board of Supervisors may hear and decide appeals where it is alleged that the Township has failed to follow prescribed procedures or has misinterpreted or misapplied any provision of the Ordinance.

The approval of the waiver or appeal shall not have the effect of making null and void the intent and purpose of the Ordinance. In the approval of a waiver or appeal, the Board of Supervisors may impose such conditions as will, in its judgement, secure substantially the objectives of the standards and requirements of the Ordinance.

306.01 Application Procedures (Waiver-Appeal)

306.01.1 A request for a waiver or appeal shall be submitted to the designated Township representative at the Monaghan Township Building, on any business day. The request shall be made in writing and identify (1) the specific section of the ordinance or decision which is requested for waiver or appeal, (2) the proposed alternative to the requirement, when applicable, and (3) justifications for an approval of the waiver or appeal.

306.01.2 The Township shall (1) schedule the request for consideration by the Board of Supervisors at a public meeting within sixty (60) days of receipt and (2) provide adequate notice to the applicant and any other involved parties of the meeting at which consideration of the request is scheduled.

306.01.3 The Board of Supervisors shall, following the consideration of the request, take such public action as it shall deem advisable and notify all involved parties within twenty (20) days of the action. Such notice shall cite the findings and reasons for the deposition of the waiver or appeal.

SECTION 307 EXPIRATION OF A STORM WATER MANAGEMENT PERMIT

All Storm Water Management Permits shall expire twelve (12) months from the date of issuance unless an extension of time is approved. An extension of an unexpired Storm Water Management Permit shall be issued by the Township Engineer following the submission of a written request if, in the opinion of the Township Engineer, the following characteristics are present: (1) the subject property or affected surrounding area has not been altered in a manner which requires alteration to the Storm Water Management Plan, and (2) in the case where substantial improvements have not been completed, any new standard would not alter the application.

The refusal of an extension of time shall cite the reasons for such refusal.

A Storm Water Management Permit shall not expire while a request for an extension is pending.

SECTION 308

SCHEDULE OF INSPECTIONS

Inspections shall be required prior to the start of construction, during installation of materials and structures, and upon the completion of all improvements. Prior to the initiation of construction, the developer shall arrange a pre-construction meeting with the Township Engineer so that an inspection schedule can be coordinated with the construction schedule. The Township Engineer shall be notified two (2) working days in advance of any intended date of construction. The provisions stated herein shall not be construed as mandating periodic inspections and the undertaking of periodic inspections shall not be construed as an acceptance of the work during construction or as a final inspection of the construction. The Township shall inspect all phases of the Land Disturbance Activity including, but not limited to, the following:

- a) Prior to the start of any Land Disturbance Activity.
- b) Upon completion of preliminary site preparation including stripping of vegetation, stockpiling of topsoil, and construction of temporary storm water management facilities.
- c) Upon completion of rough grading, but prior to placing topsoil, permanent drainage, or other site development improvements and ground covers.
- d) During construction of the permanent storm water management facilities at such times as specified by the Township.
- e) Upon installation of permanent storm water management facilities.
- f) Upon completion of any final grading, vegetative control measures or other site restoration work done in accordance with the permit.

No work shall begin on a subsequent phase (as identified in Section 308.01) until the preceding phase has been inspected and approval has been noted on the permit.

Any portion of the work which does not comply with the approved plan must be corrected by the applicant. No work may proceed on any subsequent phase until the required corrections have been made.

SECTION 309

PERFORMANCE GUARANTEE

The Township may, prior to issuing a Storm Water Management Permit, require a Performance Guarantee for storm water detention and/or retention basin, erosion control facility, and other drainage facilities which may adversely affect adjacent properties, streets or other public improvements.

Where required, the developer shall file with the Board of Supervisors, financial security in an amount sufficient to cover the costs of the storm water management facilities. The administration of the financial security shall comply with the financial security provisions of the Monaghan Township Subdivision and Land Development Ordinance of 1992, as amended.

SECTION 310

LIABILITY INSURANCE

If, in the opinion of the Board of Supervisors based upon a report of the Township Engineer, the nature of the work is such that it may create a hazard to human life, or endanger adjoining property or streets, then the Board of Supervisors may, before issuing the Permit, require that the applicant file a Certificate of Insurance showing that there exists insurance against claims for damages for personal injury, bodily injury and property damage, including damage to Monaghan Township by surface water flow which has been altered on the site. The liability insurance shall be to the amount prescribed by the Township in accordance with the nature of risks involved and include Monaghan Township as an additional insured. Such insurance shall be written by a company licensed to do such business in the Commonwealth.

Neither issuance of the Permit nor compliance with the provisions hereto or any conditions imposed by the municipality shall relieve any person from any responsibility for damage otherwise imposed by law, nor impose any liability upon Monaghan Township or its officers and employees for damages to persons or property.

SECTION 311

MAINTENANCE GUARANTEE

The Township may, prior to issuing a storm water management permit, require the applicant to submit a maintenance guarantee for the structural integrity as well as function of any storm water management facility for a term not to exceed eighteen (18) months from the date of acceptance of dedication by the Board of Supervisors. Said guarantee shall not exceed fifteen (15) percent of the actual cost of installation of said improvements and be of the same type of financial security as required in this Article.

SECTION 312

AS-BUILT PLANS

Upon completion of all required improvements and prior to release of the performance bond, the applicant shall submit an as-built plan showing the location, dimension and elevation of all storm water management facilities. In addition, the plan shall indicate that the resultant grading, drainage structures and/or drainage systems, and erosion and sediment control practices, including vegetative measures, are in substantial conformance with the previously approved drawings and specifications. The plan shall note all deviation from the previously approved drawings. Three (3) copies of the plan (two paper copies and one plastic transparency) shall be submitted to the Township, who

shall distribute a paper copy to the Township Engineer and retain the remaining copies for the Township files.

ARTICLE IV

DESIGN STANDARDS

SECTION 401 GENERAL DESIGN STANDARDS

In the interest of reducing the total area of impervious surface, preserving existing features which are critical to storm water management, and reducing the concentration of storm water flow, the designer should consider imaginative design concepts and the flexibility provided by the waiver process.

Maximum use should be made of the existing on-site natural and man-made storm water management facilities.

The management of storm water, both during and upon completion of the disturbance associated with a land disturbance activity, shall be accomplished in accordance with the standards of this Ordinance.

SECTION 402 DESIGN STANDARDS

The management of storm water, both during and upon completion of the disturbance associated with a land disturbance activity, shall be accomplished in accordance with the standards of this Ordinance.

402.01 Pre-Development vs. Post-Development. Storm water management facilities shall be designed so that the peak discharge of the calculated post-development runoff to an adjacent property does not exceed the peak discharge of the calculated pre-development runoff.

Runoff calculations for the pre and post development comparison shall be based upon the peak flow from a two (2), ten (10), twenty-five (25), and one hundred (100) year storm frequency. The peak discharges and volumes of runoff shall be determined by using Technical Release No. 55, Urban Hydrology for Small Watersheds, or an acceptable engineering method, subject to Township approval.

For pre-development computations, all runoff coefficients within the project shall be based on actual land use assuming summer or good land cover conditions. Off-site land use conditions used to determine storm flows for designing storm facilities shall be based on existing land uses assuming winter or poor land cover conditions.

402.02 Design Storm For Collection Facilities. The design of storm water management collection facilities that service drainage areas within the site

shall be based upon the peak flow from a twenty-five (25) year storm frequency event.

All developments shall include design provisions that allow for the overland conveyance of the post development one hundred (100) year peak flows through the site without damage to any private or public property.

- 402.03 Method of Calculations. Runoff calculations for on-site storm water management facilities shall be based upon the Rational Method or an acceptable engineering design method, subject to Township approval.
- 402.04 Criteria and Assumptions. Appropriate values for runoff coefficients, time of concentration, and rainfall intensity shall be from the latest edition of the Commonwealth of Pennsylvania, Department of Transportation *Design Manual, Part 2, Highway Design, Chapter 10*. Use of other criteria, assumptions, references, calculation methods and/or computer modeling may be accepted, provided detailed design information and programming with references are submitted and approved by the Township.
- 402.05 Coordination with Adjacent Lands. Consideration shall be given to the relationship of the subject property to the drainage pattern of the watershed. The proposed storm water discharge at the perimeter of the site shall not be beyond the capacity of any existing, immediately contiguous, storm water management facility into which it flows, unless the existing flow at the perimeter of the site already exceeds the capacity of the existing facilities into which it flows and the discharge does not alter the calculated pre-development discharge characteristics.

Storm water shall not be transferred from one watershed to another, unless (1) the watersheds are sub-watersheds of a common watershed which join together within the perimeter of the property, (2) the effect of the transfer does not alter the peak discharge onto adjacent lands, or (3) easements from the affected downstream landowners are provided.

All new concentrated discharge of storm water onto an adjacent property shall be within an existing watercourse or an easement must be obtained from all affected downstream landowners.

- 402.06 Storm Water Basins. Retention basins and detention basins shall be designed with a minimum one (1) foot freeboard above the design elevation of the one hundred (100) year water surface at the emergency spillway. Additionally, basins shall be designed to safely discharge the peak discharge of a post development storm event through an emergency spillway in a manner which will not damage the integrity of the basin.

Retention basins and/or detention basins shall be designed and maintained to insure the design capacity after sedimentation has taken place.

Basins which are not designed to release all storm water shall be specifically identified as retention basins or permanent pond basins. All other basins shall have provisions for de-watering, particularly the bottom, and shall not create swampy and/or unmaintainable conditions. Low flow channels and tile fields may be used to de-water the bottom of a basin. Discharge structures shall be designed to eliminate the possibility of blockage during operation.

- 402.07 Earth Fill Dams. Basins which are designed with earth fill dams shall incorporate the following minimum standards:
- 402.07.1 The maximum water depth (measured from the base to the crest of the emergency spillway) shall not exceed six (6) feet, unless approved by waiver of the Township.
- 402.07.2 The minimum top width of all dams shall be five (5) feet, unless approved by waiver of the Township.
- 402.07.3 The side slopes of earth fill dams shall not be less than three (3) horizontal to one (1) vertical on both sides of the embankment.
- 402.07.4 Basins without restricted access shall have impoundment areas with side slopes no greater than five (5) horizontal to one (1) vertical.
- 402.07.5 A cutoff trench of impervious material shall be provided under all dams.
- 402.07.6 All pipes and culverts through dams be reinforced concrete and have properly spaced concrete cutoff collars.
- 402.07.7 All riser pipes shall be reinforced cement concrete.
- 402.07.8 Minimum floor elevations for all structures that would be affected by a basin, other temporary impoundments, or open conveyance systems where ponding may occur shall be two (2) feet above the 100 year water surface and/or one (1) foot above the 500 year water surface. If basement or underground facilities are proposed, detailed calculations addressing the effects of storm water ponding on the structure and water-proofing and/or flood-proofing design information shall be submitted for approval.
- 402.08 Capacities. The capacities of the pipes, gutters, inlets, culverts, outlet structures, and swales shall consider all possible hydraulic conditions. The following are minimum design standards:
- 402.08.1 Grass swales and roadside gutters shall consider both the channel velocity and stability for retardant.

- 402.08.2 The “n” factors to be used for paved or rip-rap swales or gutters shall be based on PaDOT design standards.
- 402.08.3 The “n” factors for corrugated metal pipe shall be based upon the manufacturer's standard.
- 402.08.4 The velocity to be used in the design of any piped storm water conveyance system shall be based on the maximum velocity obtainable.
- 402.08.5 Inlets, culverts, and basin discharge systems shall be designed for the worst case condition. Inlet capacity shall be based on design standards provided by PaDOT. If acceptable information is not available, inlets in non-ponding areas shall be designed for a maximum capacity of five (5) cubic feet per second. Where ponding occurs, inlet capacity shall be based on accepted engineering design practices. Culvert design shall consider either inlet/outlet control or a combination of hydraulic losses through the system, whichever is greater. Basin discharge systems shall be designed to the same standards as culverts. If it cannot be readily determined which hydraulic condition controls, the basin discharge rate shall be based on the highest possible discharge rating curve with the basin capacity sized to store the excessive storm runoff based on the lowest possible discharge rating curve.
- 402.09 Storm Water Flow Along Streets and Access Drives. Inlets shall be along the curb line and are not permitted along the curb radius at an intersection. For the purpose of inlet placement, curb, gutter, or roadside swale, flow depths for a ten (10) year storm frequency with a five (5) minute duration shall not exceed three (3) inches along the swale/gutter, and one-half (1/2) inch across intersections and travel lanes. In no case shall inlets be spaced more than six hundred (600) feet apart.
- 402.10 Manhole Locations. Manholes shall not be spaced more than five hundred (500) feet apart. Additionally, manholes shall be placed at points of abrupt changes in the horizontal or vertical direction of storm sewers. Inlets may be substituted for manholes where they will serve a useful purpose.
- 402.11 Alignment Requirement. If less than a forty-eight (48) inch diameter, curves in pipes or box culverts, without an inlet or manhole are prohibited. Tee joints, elbows, and wyes are always prohibited.
- 402.12 Minimum Pipe Size. Storm water management pipe collection and conveyance systems shall have a minimum diameter of eighteen (18) inches.
- 402.13 Material Specifications. Storm water pipe and culvert for dedication to the Township shall be reinforced cement concrete, tongue and groove, and shall conform to AASHTO. The following are approved for all other facilities:

- 402.13.1 Storm Water Pipe. The following are approved types of storm water pipe:
- a) Corrugated polymeric coated galvanized steel (10 mil.) full inside coating (3 mil.) full outside coating, helical design, shall conform to AASHTO M-245.
 - b) Reinforced cement concrete, tongue and groove, shall conform to AASHTO M-170.
 - c) Corrugated polyethylene (PE) shall conform to AASHTO-295-851.
 - d) Corrugated polyvinyl (PVC) minimum stiffness 46 P.S.I. shall conform to ASTM F-794.
- 402.13.2 Storm Water Box Culvert. The following are approved types of storm water culverts:
- a) Cement concrete cast in place, conforming to PaDOT specifications.
 - b) Prestressed concrete, conforming to PaDOT specifications.
- 402.13.3 Pipe sizes with nominal diameters greater than 72" shall require structural design submittals for approval.
- 402.13.4 Endwalls and headwalls shall be type "DW" wall unless field conditions warrant another type.
- 402.13.5 All box culvert structures shall require submission of construction drawings, to assure compliance to HS-25 or current PaDOT specifications.
- 402.13.6 Minimum one (1) foot cover from crown of storm water pipe or culvert to sub grade of streets, access drives, or driveways must be provided.
- 402.14 Surface Flow Characteristics. The maximum swale, gutter, or curb velocity of storm water runoff shall be maintained at levels which result in a stable condition both during and after construction. The following are considered characteristics of a stable condition:
- a) It neither aggrades or degrades beyond tolerable limits.
 - b) The channel banks do not erode to the extent that the channel cross section is changed appreciably.

- c) Sediment bars do not develop.
- d) Erosion does not occur around culverts and bridges or elsewhere.
- e) Gullies do not form or enlarge due to the entry of uncontrolled storm water runoff.

402.14.1 Grass-lined channels shall be considered stable if the calculated velocity does not exceed the allowable velocities shown below:

- a) Three (3) feet per second where only sparse vegetation can be established and maintained because of shade or soil condition.
- b) Four (4) feet per second where normal growing conditions exist and vegetation is to be established by seeding.
- c) Five (5) feet per second where a dense, vigorous sod can be quickly established or where water can be temporarily diverted during establishment of vegetation. Netting and mulch or other equivalent methods for establishing vegetation shall be used.
- d) Six (6) feet per second where there exists a well established sod of good quality.

Where swale bends occur, the allowable velocities listed above shall be divided by the following factors:

<u>Degree of Bend</u>	<u>Velocity</u>
0 to 30	1.50
30 to 60	1.75
60 to 90	2.00
90 and over	2.50

The above grass-lined channel flows may be exceeded if the designer can provide acceptable supportive design criteria as proof of erosion prevention.

402.14.2 Where the velocity of storm water runoff exceeds the allowable velocity, erosion protection must be provided. The method of erosion protection proposed must be supported by the appropriate design information and/or references.

402.15 Phasing Plans. When applications are submitted in phases, and if temporary facilities are required for construction of a phase, such facilities shall be included in the submitted plans. All phases of development must comply with the provisions of this Ordinance. In the event temporary measures cannot

adequately handle the storm water runoff; the main outfall line shall be included as part of the construction of the proposed phase.

- 402.16 Erosion and Sedimentation. All land disturbance facilities shall conform to the requirements of the Pennsylvania Department of Environmental Resources Soil Erosion and Sedimentation Control Manual. The following principles shall be applied to the design plan and construction schedule to minimize soil erosion and sedimentation:
- 402.16.1 Stripping of vegetation, grading, or other soil disturbance shall be done in a manner which will minimize soil erosion.
- 402.16.2 Whenever feasible, natural vegetation shall be retained and protected.
- 402.16.3 The extent of the disturbed area and the duration of its exposure shall be kept to a minimum, within practical limits.
- 402.16.4 Either temporary seeding, mulching, or other suitable stabilization measures shall be used to protect exposed critical areas during construction.
- 402.16.5 Drainage provisions shall accommodate the storm water runoff both during and after construction.
- 402.16.6 Soil erosion and sedimentation facilities shall be installed prior to any on-site grading.
- 402.16.7 The design plan and construction schedule shall incorporate measures to minimize soil erosion and sedimentation.
- 402.16.8 Retention and/or detention basins, and water carrying facilities shall be stabilized in accordance with current engineering and Soil Conservation Service practices.
- 402.17 Floodplain. All storm water management plans shall conform with the Floodplain Standards specified in the Monaghan Township Zoning Ordinance, as amended, and the Monaghan Township Flood-prone Area/Floodplain Building Construction Permit Ordinance.
- 402.18 Easements. Easements shall be provided where storm water or surface water drainage facilities are existing or proposed, whether located within or beyond the boundaries of the property. Easements for maintenance of pipes and culverts shall run from outlet to inlet. Normal lot grading will not require easements. Swales which receive runoff from more than one other lot must be provided with an easement. Easements shall have a minimum width of twenty (20) feet and shall be adequately designed to provide area for (a) the collection and discharge of water, (b) the maintenance, repair, and

reconstruction of the drainage facilities, and (c) the passage of machinery for such work. Easements shall include a description of an ownership and maintenance program, in a recordable form, that clearly sets forth responsibility for all temporary and permanent storm water management facilities.

- 402.19 Ownership and Maintenance of Storm Water Management Facilities. The intent of these regulations is to provide private ownership and maintenance of storm water management facilities, erosion and sedimentation control facilities and floodplain control facilities. Under no circumstances does the Township intend to accept dedication of erosion control and sedimentation basins. The Township does not encourage the dedication of storm water management facilities that are located outside public street rights-of-way. Where the Storm Water Management Plan proposes that the Township own or maintain a storm water management facility, a description of the methods, procedures, and the extent of maintenance shall be described in such an offer.

Maintenance of all storm water management facilities during development shall be the sole responsibility of the developer and shall include, but not be limited to:

- 402.19.1 Removal of silt from all basins, traps or other structures or measures when thirty percent (30%) of capacity is filled with silt;
- 402.19.2 Periodic maintenance of temporary control facilities as described in the soil erosion and sedimentation control plan as such replacement of silt fencing, straw filters or similar measures;
- 402.19.3 Establishment or re-establishment of vegetation by seeding and mulching or sodding of scoured areas or areas where vegetation has not successfully been established;
- 402.19.4 Installation of necessary controls to correct unforeseen problems caused by storm events within designed frequencies;
- 402.19.5 Removal of all temporary measures and installation of permanent measures upon completion of the project.

Ownership of all storm water management facilities after construction shall be the sole responsibility of the developer or the private landowner as set forth in the plan. The only storm water management facilities which are to be controlled by the Township shall be those facilities which have been offered for dedication and accepted for dedication by the Township. Future offers for dedication can only be made for facilities which meet current Township specifications.

ARTICLE V

ADMINISTRATION

SECTION 501 REMEDIES

Any person, partnership or corporation who being the owner of land on which a Land Disturbance Activity has occurred or is engaged in a Land Disturbance Activity, as defined in this Ordinance, shall comply with the provision of this Ordinance and the Storm Water Management Permit. Any Land Disturbance Activity conducted in violation of this Ordinance or the Storm Water Management Permit is hereby declared a public nuisance.

In the event of a violation, Monaghan Township may initiate the following actions:

501.01 Suspension of a Storm Water Management Permit

501.01.1 Any permit issued under this Ordinance may be suspended by the Township based upon:

- a) The noncompliance with or failure to implement any provision of the Storm Water Management Plan, or
- b) A violation of any provision of this Ordinance relating to the project, or
- c) The creation of any condition or the commission of any act during construction which constitutes or creates a hazard or nuisance or which endangers the life or property of others.

501.01.2 Under the suspension of a permit, only such work as the Township so authorized may proceed. This work shall be limited to that which is necessary to correct the violation. A suspended permit shall be reinstated by the Township when:

- a) The Township has inspected and approved the corrections to the storm water management facilities or the elimination of the hazard or nuisance, and
- b) The Township is satisfied that the violation of the Ordinance has been corrected.

501.02 Revoke a Storm Water Management Permit

Based upon a report from the Township Engineer that the existing site condition or further construction is likely to endanger property or create hazardous conditions, the Township may:

- 501.02.1 Revoke a permit.
- 501.02.2 Require protective measures to be taken and assign a reasonable time period for the necessary action.
- 501.02.3 Authorize protective measures to be done and lien all cost of the work against the property on which work is required.

A permit which has been revoked cannot be reinstated. The applicant may apply for a new permit in accordance with the processing procedures in Article III.

501.03 Notification of Suspension or Revocation of a Storm Water Management Permit

In the event of a suspension or revocation of a Storm Water Management Permit, the Township shall provide written notification of the violation to the landowner and/or applicant at his last known address. Such notification shall:

- 501.03.1 Cite the specific violation, describe the requirements which have not been met, and cite the provisions of the Ordinance relied upon.
- 501.03.2 Identify the specific protective measures to be taken.
- 501.03.3 Assign a reasonable time period necessary for action or in the case of revocation, identify if the Township has authorized protective measures to be performed at cost to the landowner.
- 501.03.4 Identify the right to request a hearing before the Board of Supervisors if aggrieved by the suspension or revocation.

501.04 Civil Remedies

Suits to restrain, prevent, or abate a violation of this Ordinance may be instituted in equity or at law by the Township. Such proceedings in equity or law may be initiated before any court of competent jurisdiction. In cases of emergency where, in the opinion of the court, the circumstances of the case require immediate abatement of the unlawful conduct, the court may, in its decree, fix a reasonable time during which the person responsible for the unlawful conduct shall correct or abate the same. The expense of such

proceedings shall be recoverable from the violator in such manner as may now or hereafter be provided by law.

SECTION 502 PENALTIES

Any person who shall violate any of the provisions of this Ordinance, or who shall fail to comply with any written notice from Monaghan Township which describes a condition of non-compliance, shall be guilty of a summary offense, and upon conviction thereof, shall be subject to a fine payable to Monaghan Township of not more than one thousand (\$1,000) dollars for each violation, recoverable with cost. In default of payment of the fine, such person shall be liable to imprisonment for not more than thirty (30) days. A new and separate violation shall be deemed to be committed for each day after receipt of the aforesaid notice that such violation exists.

In addition, the Township may institute injunctive, or any other appropriate action or proceeding of law or in equity for the enforcement of this Ordinance. Any court of competent jurisdiction shall have the right to issue restraining orders, temporary or permanent injunctions, writs, or other appropriate forms of remedy or relief.

SECTION 503 APPEAL TO THE MONAGHAN TOWNSHIP BOARD OF SUPERVISORS

Any persons aggrieved by any action of the Township may appeal to the Board of Supervisors within twenty days of that action.

SECTION 504 INSPECTION OF PROPERTY

Upon presentation of proper credentials, duly authorized representatives of Monaghan Township may enter at reasonable times upon any property within the municipality to investigate or ascertain the condition of the subject property in regard to any aspect regulated by this Ordinance.

The landowner shall grant to the Township, or its agents, access to the site of the work at all times, while under construction, for the purpose of inspecting the work.

SECTION 505 SEVERABILITY

Should any section or provision of this Ordinance be declared invalid by a court of competent jurisdiction, such decision shall not affect the validity of any of the remaining provisions of this Ordinance.

SECTION 506

COMPATIBILITY WITH OTHER PERMITS AND ORDINANCES

Permits issued pursuant to this Ordinance do not relieve the applicant of the responsibility to secure required permits or approvals for activities regulated by any other applicable code, rule, act or ordinance of another governing body. Any provision of any other statute, code, ordinance or regulation which provides greater protection shall control in the event of conflicting regulations.

SECTION 507

MUNICIPAL LIABILITY

The degree of storm water management sought by the provisions of this Ordinance is considered reasonable for regulatory purposes. The issuance of permits by Monaghan Township, its officers, or employees, shall not be deemed to relieve the developer of responsibility, if any such responsibility exists, to those adversely affected by the drainage of water. Further, the municipality through the issuance of a permit assumes no responsibility to either the developer or the adjoining property owner affected by the drainage of water.

SECTION 508

ADOPTION AND EFFECTIVE DATE

This Ordinance shall become effective five (5) days after its enactment by the Monaghan Township Board of Supervisors.

DULY ORDAINED AND ENACTED this _____ day of _____, 1992, by the Board of Supervisors of the Township of Monaghan, York County, Pennsylvania, in lawful session duly assembled.

SUPERVISORS OF
MONAGHAN TOWNSHIP

Supervisor

Supervisor

Supervisor

ATTEST:

SEAL

APPENDICES

APPENDIX NO. 1

APPLICATION FOR A STORM WATER MANAGEMENT PERMIT
MAJOR LAND DISTURBANCE ACTIVITY

MONAGHAN TOWNSHIP
York County, Pennsylvania

Application is hereby made to Monaghan Township for the issuance of a Storm Water Management Permit pursuant to the specifications herewith submitted.	
1. Name of Property Owner(s):	
Address:	
Telephone No.:	
2. Name of Applicant (if other than owner):	
Address:	
	Telephone No.:
3. Project Location:	
4. Type of Earth Disturbance Activity:	
A. New impervious or semi-impervious surface _____ (sq. ft./ac.)	
B. Diversion or piping of natural or man-made watercourse _____ (linear ft.)	
C. Installation of the following:	
Culvert	_____
Detention Basin	_____
Retention Basin	_____
Sediment Basin	_____
D. Removal of ground cover, grading, filling, or excavation _____ (sq. ft./ac.)	
5. Storm Water Management Plan Prepared By:	
Address:	
	Telephone No.:
The undersigned hereby represents that, to the best of their knowledge and belief, all information listed above and on the reverse side of this page is true, correct, and complete.	
Date:	Signature of Applicant

(See Section 303.01.a.)

APPENDIX NO. 2

STORM WATER MANAGEMENT PLAN CERTIFICATE

I hereby certify that, to the best of my knowledge, the storm water management facilities shown and described hereon are designed in conformance with the Monaghan Township Storm Water Management Ordinance.

Date

Signature and Seal of the Registered
Professional Responsible for the
Preparation of the Plan

(See Section 304.01.8)

APPENDIX NO. 3

**STORM WATER MANAGEMENT PERMIT
LAND DISTURBANCE ACTIVITY**

**Monaghan Township
York County, Pennsylvania**

PERMIT NO. _____

The property of _____
located at _____
has received approval of the storm water management plans dated _____
_____, last revised _____, in accordance with the Monaghan
Township Storm Water Management Ordinance.

Approved By: _____

Date: _____

Expiration Date: _____

SCHEDULE OF INSPECTIONS

Approved

Date

____ _ Preliminary site preparation, including stripping of vegetation, stockpiling of topsoil,
and construction of temporary storm water management facilities.

____ _ Rough grading (not including placing topsoil, permanent drainage, other site
development improvements and ground covers).

____ _ Construction of the following specific storm water management facilities:

____ _ Construction of all permanent storm water management facilities, including ground
covers and plantings.

____ _ Final grading, vegetative control measures, or other site restoration work.

(See Section 302)

Notice

Notice is hereby given that the Board of Supervisors of Monaghan Township will consider adoption of an Ordinance on _____, at _____ p.m., at the Township Office, 202 South York Road, Dillsburg, PA 17019, the caption and a summary of which is as follows:

AN ORDINANCE OF MONAGHAN TOWNSHIP FOR THE MANAGEMENT OF STORM WATER RUNOFF IN MONAGHAN TOWNSHIP, YORK COUNTY, PENNSYLVANIA; CONTAINING GENERAL PROVISIONS; DEFINING CERTAIN TERMS; ESTABLISHING DESIGN STANDARDS AND PLAN REQUIREMENTS; REQUIRING THE COMPLETION OF STORM WATER MANAGEMENT FACILITIES OR THE GUARANTEE THEREOF, ESTABLISHING PROCEDURES FOR MAINTENANCE OF STORM WATER MANAGEMENT FACILITIES; AND PROVIDING FOR THE ADMINISTRATION AND ENFORCEMENT OF THE ORDINANCE, INCLUDING THE IMPOSITION OF PENALTIES.

The Monaghan Township Storm Water Management Ordinance under consideration establishes a comprehensive program of storm water management in the Township and sets forth regulations relative to land disturbance activities; defines applicable terms; sets forth specific design standards; sets forth the procedure applicable to the filing, review, approval, disapproval or conditional approval of an application for a land disturbance activity; establishes requirements for the completion of public improvements and provides for the filing of financial security in lieu of completion of such improvements; provides for the posting of financial security to secure the structural integrity and performance of the improvements; sets forth requirements for, conditions of and necessary guarantees for maintenance of all such facilities; and provides for the administration of the Ordinance and enforceability thereof by the imposition of penalties or commencement of legal action.

Copies of the full text of the Monaghan Township Storm Water Management Ordinance may be examined at the office of the Township Monday through Friday, inclusive, from 1:00 p.m. to 4:00 p.m., Tuesday through Friday, until the day of the meeting.

**BOARD OF SUPERVISORS OF
MONAGHAN TOWNSHIP**

BY: _____

RESOLUTION NO. _____

**ESTABLISHING THE FEES UNDER THE PROVISIONS
OF THE MONAGHAN TOWNSHIP STORM WATER
MANAGEMENT ORDINANCE**

WHEREAS, the Monaghan Township Storm Water Management Ordinance authorizes the Board of Supervisors, by resolution, to adopt a fee schedule to cover various costs incurred in the Storm Water Management process; and

WHEREAS, by resolution duly adopted, the Board of Supervisors did adopt such fee schedule; and

WHEREAS, the Board of Supervisors has deemed it necessary to adopt such fee schedule.

NOW, THEREFORE, BE IT AND HEREBY IS RESOLVED, by the Board of Supervisors of Monaghan Township, that the fee schedule reference above shall be and hereby is as follows:

A filing fee and the actual cost of engineering and legal services is required for all applications. Applications shall not be considered complete and will not be accepted until the filing fee and deposit for engineering and legal services is paid.

The filing fee shall be in the amount of _____ dollars.

The initial deposit for engineering and legal services shall be in the sum total of the following:

In the event that the deposit is reduced, to a balance insufficient in the opinion of the Township Board of Supervisors to cover the necessary remaining review costs, the applicant on demand, shall deposit with the Townships sufficient additional funds to correct the said deficiency.

In the event that the deposit is less than the actual engineering and legal costs, the applicant shall upon demand of the Township, pay such additional costs.

After completion of the plan review process and inspection of improvements, if the actual engineering and legal costs are less than the deposit paid by the applicant, the difference shall be refunded to the applicant.

The resubmission of a previously rejected application shall be deemed a new submission subject to the fees, deposits and costs provided hereunder.

This resolution shall take effect immediately upon the effective date of the Monaghan Township Storm Water Management Ordinance.

ADOPTED THIS _____ DAY OF _____, 19____
BY THE MONAGHAN TOWNSHIP BOARD OF SUPERVISORS.

Chairman

Vice-Chairman
