RESOLUTION #2006-8

A RESOLUTION OF THE BOARD OF SUPERVISORS OF UPPER SOUTHAMPTON TOWNSHIP, COUNTY OF BUCKS, COMMONWEALTH OF PENNSYLVANIA ADOPTING AN OPERATION, MAINTENANCE AND INSPECTION PROGRAM FOR MUNICIPAL STORMWATER FACILITIES

WHEREAS, the PA DEP'S MS4 permit requires the development and implementation of a pollution prevention based operation, maintenance, and inspection program for municipal storm water facilities; and

WHEREAS, the Board of Supervisors desires to adopt such a program,

NOW THEREFORE, BE IT RESOLVED, that the Upper Southampton Township Board of Supervisors does hereby adopt the following Operation, Maintenance and Inspection Program for Municipal Storm Water Facilities:

Upper Southampton Township

Operation, Maintenance and Inspection Program for Municipal Storm Water Facilities

The goal of the following Operation and Maintenance program for Upper Southampton Township is to ensure that storm water management facilities are functioning properly and to prevent or reduce pollutant runoff to the maximum extent practical. All components of the municipal storm sewer collection system will be included in this program. These components include Township roads, parking lots, or other paved areas; storm sewer inlets, piping and outfalls; swales, ditches or other storm water conveyances; detention/retention basins or other storm water management structures under the ownership or control of the Township.

Storm Water Facility Operation:

- All municipal storm water facilities will be operated according to their design specifications and in a manner that prevents or reduces adverse environmental or public health and safety impacts.

Storm Water Facility Inspection:

- Inspections will be conducted to evaluate the performance of the storm water facilities and to determine the potential or actual amounts of pollutants, trash and debris entering and discharging from the storm water collection system.
- Inspection frequencies will depend on various factors, but will be at least once per year. The type, size and design of the storm water facility will be used to guide inspection frequencies. The size of the drainage area, the amount of impervious cover, and the type of activities that occur within the drainage area will affect inspection frequencies. More

frequent inspections would be warranted in industrial, construction or high vehicle use areas, or in any area that is known or suspected to be an increased risk for pollution. Severe weather conditions such as heavy rains will usually require follow up inspections to determine the impact to and performance of storm water facilities.

- All inspection activities, results and recommendations will be documented in writing.
- The overall condition and cleanliness of township roads and parking lots will be constantly evaluated during routine travels by public works staff. Those areas with excessive staining, trash or sediment will be investigated or scheduled for cleaning. Appropriate corrective actions will be considered for any areas exhibiting flooding or poor drainage patterns.
- All storm sewer inlets/catch basins will be inspected at least annually to determine the sediment load and overall condition of the structure. If the depth of deposits is greater than or equal to one-third the depth from the basin bottom to the invert of the lowest pipe or opening into or out of the basin, cleaning will be scheduled. Catch basins that accumulate deposits quickly will be inspected more frequently and the drainage area will also be inspected to determine possible causes. Inlet grates will be inspected for trash blocking free water entry into the sewer, especially before heavy rains are forecast.
- Storm sewer easements and right-of-ways will be inspected at least annually to check for obstructions or any other conditions that might threaten the integrity of the system.
- Storm sewer outfall structures will be inspected annually to check for structural integrity and erosion potential.
- Township detention/retention basins will be inspected annually to check for sediment accumulation and overall basin conditions. Sediment exceeding 10% of the designed basin depth will trigger sediment removal to the original basin shape and depth. The basin will be inspected for the presence of yard waste or other non-degradable materials. The type and quantity of vegetation will be checked. Basin dikes, berms and spillways will be examined for structural integrity. The basin will be checked to determine if the trash rack is missing or plugged.
- Other township storm water conveyances, such as swales, pipes, and ditches, will be inspected on a regular basis to check for trash, vegetation, sediment, and erosion conditions.
- Any other type of township storm water BMP (e.g. wet pond, vegetated swale, infiltration facility, etc) will be inspected according to guidelines contained in the Pennsylvania Storm Water Best Management Practices Manual.

Storm Water Facility Maintenance:

- Township roads and parking lots will be cleaned on a regular basis. Those areas identified by inspections as being more debris prone will be prioritized or cleaned more often. Roadway cleaning will occur after the winter deicing season is over in order to remove accumulated materials. Roadway cleaning may also occur under non-deicing conditions when oil spill clean up materials such as sand or oil dry are applied. This will prevent these oil contaminated materials from being washed into the storm sewer system.
- The storage and application of materials used for roadway deicing or traction control will be in a manner that reduces the impact to the storm sewer system and the environment. Types of materials currently being used in Upper Southampton Township include road

salt and cinders. All storage, except for cinders, will be protected from precipitation Any spillage of materials will be cleaned up to prevent storm water runoff contamination. The application of any material to roads or parking lots, such as deicing compounds, will be only enough to accomplish the task and will take into consideration site specific characteristics such as road width and design, traffic concentration, and proximity to surface waters. The least hazardous materials will be used in environmentally sensitive or protected areas.

- Storm sewer inlets/catch basins will be cleaned when inspections reveal an excessive accumulation of sediment or debris. Storm sewer inlet grating will also be cleaned as necessary. Structural repairs to any part of the storm sewer inlet/catch basin will be performed as the need arises. Any storm sewer piping deficiencies will also be corrected. Excessive debris or sediment in any storm sewer piping will be removed. Damaged piping will be replaced.
- Free flow of water from outfalls will be maintained by removal of debris and obstructions. Velocity reducers at outfalls will be maintained or replaced as necessary.
- Detention basin sediment removal will occur when the basin is completely dry. Disturbed areas will be immediately stabilized and re-vegetated. Yard waste or non-degradable waste in a basin will be removed. Spillways and overflows will be maintained to allow for uninterrupted flow. Nuisance or exotic/invasive basin vegetation will be removed. Mowing and/or trimming of vegetation will occur as needed to sustain the basin and all detritus will be removed. Vegetative basin cover will be maintained at 95%. Areas of bare or sparse vegetation will be addressed by soil aerating, conditioning, seeding and mulching, as necessary to restore a proper vegetative cover. Potential basin mosquito problems from unwanted standing water will be addressed by introduction of mosquito predators or by implementation of a pesticide plan.
- Any planned herbicide or pesticide application in a basin or any part of the storm sewer collection system will be reviewed by qualified persons in order to comply with all applicable regulations and to prevent adverse water quality impacts. The use of herbicides and pesticides will be limited as much as possible.
- Any other type of Township storm water BMP (e.g. wet pond, vegetated swale, infiltration facility, etc) will be maintained according to guidelines contained in the Pennsylvania Storm Water Best Management Practices Manual.
- Any materials recovered from any part of the storm sewer collection system will be handled and disposed of in accordance with all applicable state and federal disposal regulations
- All maintenance activities will be documented in writing. Pictures will be taken of various storm sewer system components to document maintenance conditions.

BE IT RESOLVED this 4th day of April 2006.

UPPER SOUTHAMPTON TOWNSHIP
BOARD OF SUPERVISORS

Lola Biuckians, Secretary/Treasurer

Stephen W. Ulrich, Chairman