

MIDDELTON FARM STORMWATER POLLUTION PREVENTION PLAN

Fairfax County, Virginia

Prepared for:

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Dulles, Virginia 20166

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March, 2001

**MIDDLETON FARM
STORMWATER POLLUTION PREVENTION PLAN**

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**MIDDLETON FARM
STORMWATER POLLUTION PREVENTION PLAN**

NOTE: This Stormwater Pollution Prevention Plan shall be retained onsite at the project location with a copy of the VPDES permit.

SITE DESCRIPTION			
Project Name and Location	Middleton Farm Latitude: 38°55'50" Longitude: 77°24'16"	Owner Name and Address	Toll VA, L.P. 21630 Ridgetop Circle Suite 130 Dulles, VA 20166
Description (Purpose and Types of Soil Disturbing Activities)			
<p>The project consists of the construction of detached single family residential dwellings on the site.</p> <p>Soil disturbing activities will include: clearing and grubbing; installing erosion and sediment controls; grading; excavation for stormwater management facilities, storm sewer, and utilities; construction of roads and homes; and preparation for final stabilization and seeding.</p>			
Runoff Coefficient	The final coefficient of runoff for each phase and section of the project is provided in the "Construction Plans and Profiles".		
Site Area	The site is 16.9 acres of which 13.9 acres will be disturbed by construction activities		
Site Map	A site map is provided in the "Construction Plans and Profiles".		

Description of Existing Vegetation	
Information on existing vegetation, tree preservation, and plantings is provided in the landscape section of the "Construction Plans and Profiles".	
Sequence of Major Activities	
The order of activities will be as follows:	
<ol style="list-style-type: none"> 1. Install temporary construction entrance(s) 2. Install temporary culvert crossing(s) 3. Install perimeter erosion and sediment controls 4. Install sediment basin(s) and trap(s) 5. Stabilize sediment basin(s) embankments 	<ol style="list-style-type: none"> 6. Clearing and grubbing 7. Grading and construction 8. Complete seeding 9. Remove accumulated sediment from basin(s) 10. Remove erosion and sediment control measures
Name of Receiving Waters	Horsepen Run
CONTROLS	
Erosion and Sediment Controls	
Approved erosion and sediment control plans for the project are incorporated by reference as part of this Stormwater Pollution Prevention Plan.	
Stabilization Practices	
1. Land shall be developed in increments of workable size with erosion and sediment controls provided, maintained and temporarily stabilized by seeding and mulching or paving before and during the construction period.	

2. No areas shall be left denuded for any period longer than seven (7) days.
3. No unprotected, disturbed area shall drain to roadway pavements such that subbase, base or wearing surfaces are contaminated by silt trapped at low points or inlets.
4. All utility trenches located outside of paved areas are to be seeded and mulched within seven (7) days after completion of backfill.
5. Temporary controls such as earth berms, diversion dikes, and sediment traps are to be mulched and seeded within seven (7) days after grading.
6. Material from utility line trenches shall be placed above trenches.
7. All sediment control measures shall be installed in conformance with the specifications outlined in the latest edition of the "Virginia Erosion and Sediment Control Handbook".

Structural Practices

The following erosion and sediment control structural practices will be incorporated on the project site:

- | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • Temporary diversion dike • Silt fence • Super silt fence • Inlet protection | <ul style="list-style-type: none"> • Temporary sediment trap • Stone construction entrance • Tree preservation and protection |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|

Stormwater Management

Stormwater drainage will be provided by curb and gutter, storm sewer and catch basins for the developed areas. Details of stormwater management for each phase and section of the project are provided in the "Construction Plans and Profiles".

OTHER CONTROLS

Waste Disposal

Waste Materials

All waste materials will be collected and stored in a proper receptacle in accordance with all local and State solid waste management regulations. All trash and construction debris from the site will be deposited in dumpsters. The trash will be hauled to an appropriate waste disposal site. No construction waste materials will be buried onsite. All project personnel will be instructed regarding the correct procedure for waste disposal.

Hazardous Waste

All hazardous waste materials will be disposed of in the manner specified by the manufacturer and as required by local or State regulation. Site personnel will be instructed in these practices.

Sanitary Waste

All sanitary waste will be collected from the portable units as required by local and State regulation.

Offsite Vehicle Tracking

Stabilized construction entrances will be provided to help reduce vehicle tracking of sediments. The paved street adjacent to the site entrance will be swept as needed to remove any excess mud, dirt or rock tracked from the site. Dump trucks hauling material from the construction site will be covered with a tarpaulin.

Timing Of Controls/Measures

As indicated in the Stabilization Practices, areas where construction activity temporarily ceases for more than seven (7) days will be stabilized with a temporary seed. Once construction activity ceases permanently in an area, that area will be stabilized with permanent seed.

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

The Stormwater Pollution Prevention Plan reflects State requirements for stormwater management and erosion and sediment control, as established in the Virginia Stormwater Management Handbook and Virginia Erosion and Sediment Control Manual.

MAINTENANCE/INSPECTION PROCEDURES

Erosion and Sediment Control Inspection and Maintenance Practices

Inspections of the construction site shall be made by personnel familiar with the construction activity.

Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly.

Inspections shall be conducted at least once every fourteen (14) calendar days and within 48 hours of the end of a storm event that is 0.5 inch or greater. These inspections shall cover disturbed areas that have not been finally stabilized, areas used for storage of materials that are exposed to precipitation, structural control measures, and locations where vehicles enter or exit the site.

Where areas have been finally or temporarily stabilized or runoff is unlikely due to winter conditions (e.g., site is covered with snow, ice, or frozen ground exists) such inspections shall be conducted at least once every month.

Reports summarizing each inspection shall be retained onsite as part of this Stormwater Pollution Prevention Plan.

Non-Stormwater Discharges

It is expected that the following non-stormwater discharges will occur from the site during the construction period:

- Water from water line flushings
- Pavement wash waters (where no spills or leaks of toxic or hazardous materials have occurred)
- Uncontaminated groundwater (from dewatering excavation)

All non-stormwater discharges will be directed to the sediment basin prior to discharge, where possible.

INVENTORY FOR POLLUTION PREVENTION PLAN

The materials or substances listed below are expected to be present onsite during construction:

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none">• Concrete• Wood• Masonry block• Roofing shingles• Tar• Vinyl siding• Insulation | <ul style="list-style-type: none">• Petroleum based products• Solvents• Detergents• Paints• Fertilizers• Herbicides |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SPILL PREVENTION

Material Management Practices

The following are the materials management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to stormwater runoff.

Good Housekeeping

The following good housekeeping practices will be followed onsite during the construction project.

- All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers. Materials which have the potential for contaminating runoff during storm events will be stored in their appropriate watertight containers, stored under a canopy, tarpaulin, shrink wrapped or otherwise precluded from direct exposure to precipitation.
- Empty containers that may contain chemical residues shall be disposed of in accordance with State and local regulations.
- Products, where possible, will be kept in their original containers with the original manufacturer's label.
- Chemical or petroleum products will not be mixed with one another unless recommended by the manufacturer.
- Whenever possible, all of a product will be used up before disposing of the container.
- Manufacturers' recommendations for proper use and disposal will be followed.
- The site superintendent will inspect daily to ensure proper use and disposal of materials onsite.

Hazardous Products

These practices are used to reduce the risks associated with hazardous materials.

- Products will be kept in original containers unless they are not resealable.
- Original specimen labels and materials safety data sheets will be kept on file; they contain important product information.
- If surplus product must be disposed of, manufacturer's and/or local and State recommended methods for proper disposal will be followed.

Product Specific Practices

The following product specific practices will be followed onsite:

Petroleum Products

- All onsite vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage.
- It is recommended that, if practicable, all refueling, repair and changing of equipment and vehicle fluids shall be conducted in a designated area. This area will be designed in a manner to reduce the potential for contamination of onsite resources. For refueling, repair and changing of equipment and vehicles outside of the designated areas, care should be taken to avoid activities within ± 50 feet of wetlands, streams, water bodies, tree preservation areas or other environmentally sensitive areas.
- Petroleum products will be stored in tightly sealed containers, which are clearly labeled.
- An area will be designated for the collection and storage of all chemical and petroleum based products and containers for those products. The containers shall be protected from rain events.
- Any asphalt substances used onsite will be applied according to the manufacturer's recommendations.

- The project superintendent will regularly inspect the site to insure proper disposal methods of used antifreeze, oils, filters, and other hazardous materials are followed.

Fertilizers

Fertilizers used will be applied according to manufacturer's product standards. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic container to avoid spills.

Paints

All containers will be tightly sealed and stored when not required for use. Excess paint will be properly disposed of according to manufacturers' instructions or State and local regulations.

Concrete Trucks

Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum wash water on the site.

Spill Control Practices

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanup:

- Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area

onsite. Equipment and materials may include but not be limited to brooms, dust pans, mops, rags, gloves, goggles, absorbent material (e.g. kitty litter, sand, sawdust) and plastic and metal trash containers.

- All spills will be cleaned up immediately after discovery.
- In the event of a spill of a hazardous substance, the spill will be immediately contained and the spill area will be kept well ventilated. Personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance during cleanup operation.
- Spills of toxic or hazardous material will be reported to the appropriate State or local government agency, as required by regulatory standards.

POLLUTION PREVENTION PLAN CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signed: _____

Jim Smith
Vice President
Toll VA, L.P.

Date: _____

CONTRACTOR'S CERTIFICATION

I certify under penalty of law that I understand the terms and conditions of this Virginia Pollutant Discharge Elimination System (VPDES) general permit that authorizes the stormwater discharges from the construction activity identified as part of this certification.

Signed Certifications

All signed contractors' certifications are included by reference as part of this Stormwater Pollution Prevention Plan and are attached.

**STORMWATER POLLUTION PREVENTION PLAN
CONTRACTOR'S CERTIFICATION**

Project Name: Middleton Farm

I certify under penalty of law that I understand the terms and conditions of this Virginia Pollutant Discharge Elimination System (VPDES) general permit that authorizes the stormwater discharges from the construction activity identified as part of this certification.

Company Name: _____

Address: _____

Telephone Number: _____

Responsible for: _____

Signed

Printed Name, Title

Date