

Arlington County 26th St. North Leaf Mulch Storage & Distribution Center Stormwater Pollution Prevention Plan



Arlington County Department of Environmental Services



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Introduction

In accordance with Arlington County's Virginia Stormwater Management Program (VSMP), Municipal Separate Storm Sewer System (MS4) permit (VA0088579), the County is required to develop and maintain a Stormwater Pollution Prevention Plan (SWPPP) for high priority municipal facilities (HPMF). The Arlington County North Side Leaf Mulch Storage and Distribution Center facility has been identified as a HPMF.

A high priority municipal facility is any facility that performs fleet maintenance, recycling activities, outdoor equipment and machinery storage, or the unloading, loading or storage of erodible, floatable or soluble materials or chemicals without protection from exposure to precipitation.

The objectives of this SWPPP are:

- To provide information about the facility and operations conducted there;
- To identify potential sources of stormwater pollutants; and
- To provide information on best management practices (BMPs) and pollution controls that will be implemented at the facility to prevent or minimize non-stormwater discharges and pollutant releases to the storm drain system and surface waters.

This SWPPP will be evaluated annually and updated as necessary to reflect any changes in operations and/or maintenance activities at the facility.

Site Description and Operations

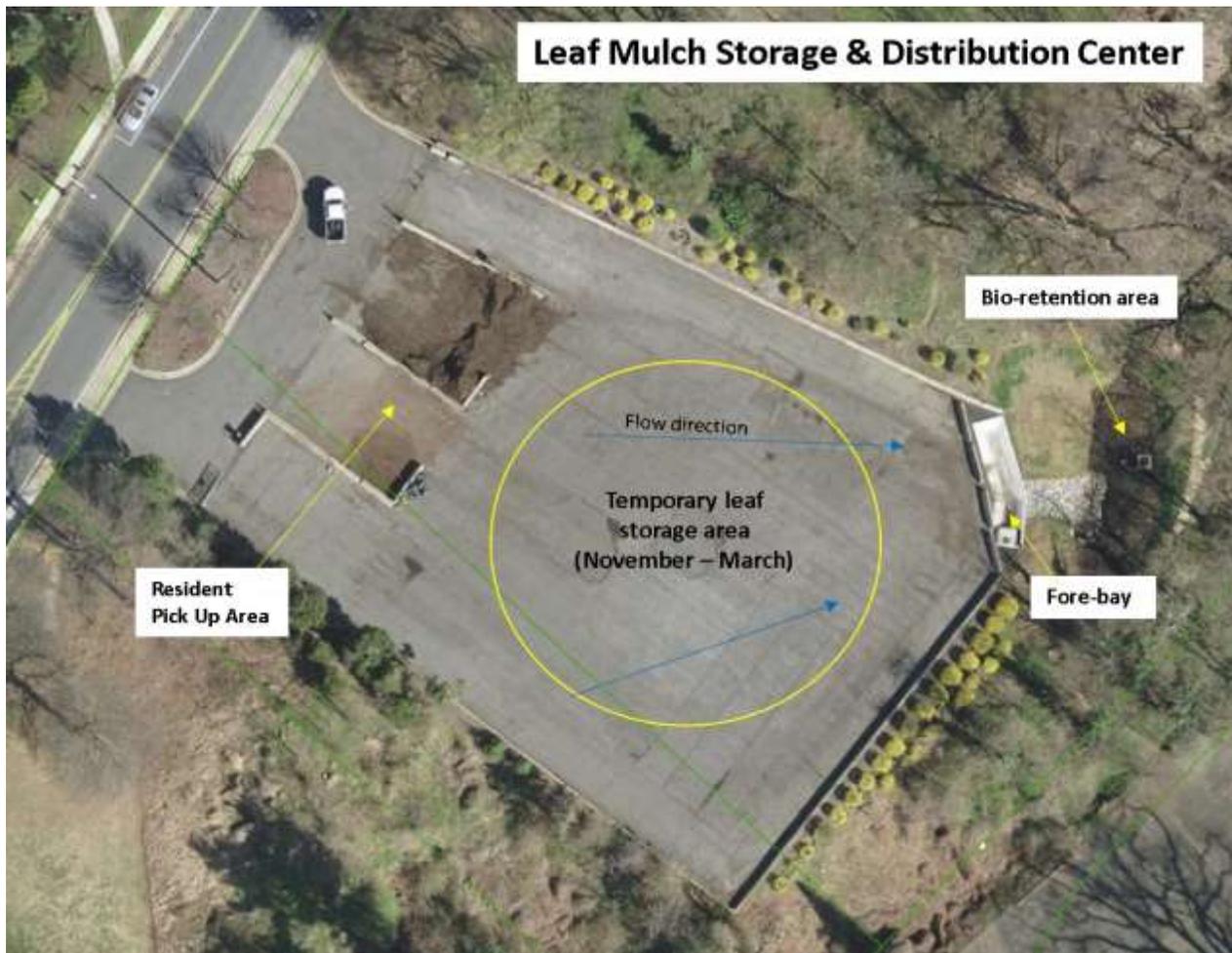
The North Side Leaf Storage Facility is located at 26th Street North in Arlington County (Figure 1). The facility covers approximately 41,850 square feet (0.96 acres).

Approximately 0.87 acres of the site is covered by impervious surface. The facility is comprised of a paved asphalt area that is used for stockpiling leaves during leaf collection season and a self-service mulch pick up area. The facility is used for leaf storage during the fall and winter season, between November 1 and April 1. The resident mulch pick-up area is accessible year-round.

Drainage

The facility is located in the Donaldson Run watershed. Approximately ¼ of the site drains toward two driveway aprons and onto 26th Street North. The remainder of the site drains to the east and into a bio-retention area.

Figure 1 - North Side Leaf Storage Facility



Site Oversight /Compliance Responsibilities

The DES Solid Waste Bureau (SWB) oversees and maintains the facility. SWB staff are responsible for ensuring the practices outlined in this SWPPP are implemented as well as the following:

- Compliance with the conditions and requirements of the County’s MS4 permit.
- Stormwater pollution prevention efforts and good housekeeping practices are implemented.
- Employees have the necessary training, materials and equipment to carry out the provisions of this SWPPP.
- Spills or unauthorized non-stormwater discharges or pollution releases to the County’s MS4 or surface waters are cleaned up upon discovery and properly reported.
- Periodic review and update to this SWPPP to address changes in operations or regulatory requirements.
- Corrective actions identified during an inspection are remedied within a specified time frame, as determined in the inspection report based upon the nature of the corrective action needed and level of effort required.

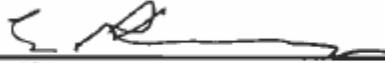
Certification

The following staff certify that they have reviewed the Leaf Mulch Storage and Distribution Stormwater Pollution Prevention Plan and will ensure the plan will be implemented in order to comply with the conditions of the County's MS4 permit and applicable regulations.

ERIK GRABOWSKY

(Printed Name)

DES/SWB Bureau Chief



(Signature)

9-13-18

(Date)

Potential Stormwater Pollutants and Pollution Sources

Operations carried out at the Leaf Mulch Storage and Distribution Facility that have the potential to generate stormwater pollutants and non-stormwater discharges, include materials storage and transferring and loading materials. Leaks from vehicles and equipment on the site, sediment, and trash can negatively impact water quality if they are allowed to enter the storm drain system and surface waters. Transport and storage of organic materials such as mulch and leaves can also contribute nutrients to surface waters if these materials are not properly managed.

The primary pollutants of concern at this facility include:

- Sediment
- Nutrients
- Hydrocarbons (fuel, oil)
- Hydraulic fluid
- Trash

Parking Areas / Outside Storage

Parking and outdoor storage areas can be significant sources of stormwater pollutants including sediment, litter, hydrocarbons, and metals that can be carried by runoff during storm events to the storm drain system and surface waters. Hydrocarbons, metals and other vehicle-related materials are deposited on paved areas as a result of leaks, spills, and routine vehicle wear and tear. Other pollutants include accumulated grit and sediment from vehicle tracking and deposition from transportation of loose materials.

Vehicles exiting the facility can track materials off the site and into the roadway. These materials (mulch, sediment) can be carried by stormwater runoff into the storm drain system.

Litter can also accumulate in storage areas as a result of being blown out of vehicles or dropped on the ground by individuals (littering). The main types of litter and debris at this facility are cigarette ends, wrappers, work gloves, paper, and plastic bottles. Litter can be washed into storm drains.

Construction equipment is temporarily staged at this facility when leaves are being stored. Heavy duty equipment, such as front end loaders have the potential to leak. Rain can wash dirt or grease off uncovered construction equipment.

Waste Receptacles

Uncovered trash cans can be potential sources of pollution. Open containers can collect rain water which can leak or spill out when the container is emptied or damaged. Rain can wash leaked materials and debris from these containers into storm drains.

Non-Stormwater Discharges

Potential non-stormwater discharges could result from spills and leaks associated with equipment and vehicle use on the site. The following are potential sources of leaks and spills that could result in a non-stormwater discharge:

- Fuel tank and hydraulic cylinder / lines on the loader
- Fuel and fluids from vehicles accessing the facility

Vehicle and equipment washing is not authorized at this facility without the use of a wash water containment and collection system, such as a portable vehicle wash pad.

Stormwater Management Controls

Stormwater runoff from three-quarters of the site discharges to a forebay structure and bio-retention facility located in the south east corner of the property. Runoff enters a concrete forebay and yard inlet fitted with a leaf screen before flowing into the plunge pool of the bio-retention area.

SWB staff will remove accumulated debris from the forebay weekly and after .5" or more rain during the operating months, November through March. During the other months, a contractor will maintain the facility monthly.

Pollution Prevention

Good Housekeeping

Housekeeping practices are implemented at the storage facility to reduce pollutant runoff. Paved areas shall be swept at the end of the leaf collection season to remove accumulated sediment and debris throughout the facility. Additionally, sweeping is conducted during the operating season if there is heavy tracking and sediment accumulation.

Litter is picked up daily throughout the operating season by staff and disposed of in on site trash receptacles maintained by SWB as necessary. Trash and recyclable materials are disposed of in appropriate collection receptacles. Full containers are emptied immediately to prevent waste materials from being blown or washed into a storm drain. Overflowing containers are not allowed

Containment

Mulch left at the facility for residential pick up is stockpiled in areas surrounded by concrete barriers to keep the material contained. Any materials that are spilled outside of the containment area during drop offs are shoveled or swept back inside the area at the time of drop off. Booms or temporary curbing shall be used to prevent materials from migrating through gaps between the barriers and being washed into the storm drain system. Concrete barriers shall be checked and spilled materials shoveled or swept back inside the area weekly.

Spills and Leaks

Equipment and vehicles are checked for leaks daily when the facility is being used. Any vehicles with leaks are taken to the Equipment Bureau for repair.

Minor spills that occur at the facility are cleaned up by staff upon discovery. Staff use clean-up materials from spill kits carried in fleet vehicles.

For larger spills (those spills that cannot be contained and cleaned up using available spill kits and materials) or releases of hazardous materials, the Arlington County Fire Department (911) will be notified to assist with containment.

Notification and information regarding non-stormwater discharges to the storm drain system or on-site bioretention shall be provided to DES-OSEM for tracking and reporting purposes. Spill reports are filled out and sent to DES OSEM and the Fire Prevention Office for record keeping. Spill report forms can be found on-line on AC Commons under Teams and Trades Center. A copy of the spill report form is included in Appendix B.

Spill History

To date, spills at this facility have been minor and been contained and cleaned up using appropriate absorbent materials. Spills are reported using the Spill Report Form located on the Trades Center Home Page and updating the spill log for this facility located in Appendix C.

Inspections / Site Compliance Evaluation

A SWPPP inspection of the facility will be conducted on an annual basis by DES Office of Sustainability and Environmental Management (OSEM). The purpose of the inspection will be to assess the facility for potential pollutant and/or non-stormwater discharges and evaluate the effectiveness of existing best management practices and general housekeeping to ensure MS4 permit compliance and protection of surface waters. Daily site checks will be conducted by DES Solid Waste Bureau staff when operations are occurring at the facility.

During the SWPPP inspection, storage areas will be checked to identify housekeeping issues. Once completed, the stormwater management facility (bio-retention) will be inspected on an annual basis by a county contractor to ensure the facility is functioning according to design and identify any maintenance needs. Inspection reports will be kept on file by DES OSEM.

Completed inspection reports (Appendix A) and photos will be sent to appropriate staff for follow-up and kept on file by OSEM. Any noted corrective actions will be followed up on as soon as possible.

Annual Outfall Screening

The areas (driveways and inlets to the stormwater management facility) where stormwater runoff leaves the facility will be visually screened during the annual inspection. The screening will consist of a detailed visual assessment. Screening criteria include:

- Evidence of non-stormwater discharges
- Cleanliness of area (evidence of sheen, stains, trash)
- Observation of runoff during wet weather

Training

Training on good housekeeping practices and stormwater pollution prevention is conducted on an annual basis as part of the Trades Center SWPPP training. Training attendance sheets are kept on file by DES OSEM. Specialized training for pollution prevention at this facility is conducted as needed.

Additional Resources

Additional information can be found in the Arlington County Pollution Prevention Protocols: Street, Road, and Parking Lot Maintenance. These protocols provide pollution prevention information for roadway and parking lot maintenance as well as associated equipment maintenance and material storage for these types of operations.

The Arlington County Trades Center Stormwater Pollution Prevention Plan also contains information on material storage, equipment maintenance, and field operations.

Appendix A – Inspection Form

**Arlington County North Side Leaf Mulch Storage & Distribution Center
SWPPP Inspection Form**

Date: _____ Precipitation (type / amount) past 24 hours: _____

Inspector(s): _____

	No Issues Observed	Action(s) Needed	Corrective Actions Required / Comments
Parking Area / Outdoor Storage <ul style="list-style-type: none"> • Evidence of leaks / stains • Sediment accumulation • Litter / debris • Stockpile 	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Community Mulch Pick Up Site <ul style="list-style-type: none"> • Stockpiles contained • Tracking • Litter 	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Waste Receptacles <ul style="list-style-type: none"> • Damage / Leaks • Debris around container • Overflowing • Lids / doors kept closed 	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Stormwater BMP <ul style="list-style-type: none"> • Maintenance needed • Evidence of trash/litter 	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	
Storm Drain Screening <ul style="list-style-type: none"> • Sediment / trash • Evidence of sheen • Staining 	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Non-Stormwater Discharges	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

Appendix B – Spill Report Form

SPILL REPORT FORM

This form shall be completed after an outdoor spill or release has occurred. Submit form to the SWB Bureau Chief, DES OSEM c/o Mark Wisdom, and Fire Prevention Office c/o Charlene Gillis

What was spilled? _____

Amount / Volume spilled (best estimate) _____

Date and Time of Incident: _____

Location of Spill: _____

Describe what caused the spill:

How was the spill cleaned up?

Was the spill contained? YES NO

Did the spill enter a storm drain? YES NO

Did the spill enter surface waters? YES NO

Did the spill soak into the ground / soil? YES NO

Check the offices that were contacted:

- Arlington County Fire Department
- DES OSEM (must contact if spill entered storm drain or surface water)
- VA DEQ
- Other _____

Additional comments / information:

Name (please print)

Signature

Date

Appendix C – Spill Log

Arlington County North Side Leaf Storage Facility Spill Log			
Date of Spill	Type of Material / Amount Spilled	Date / Description of Clean-up	Employee Initials