

GENERAL PERMIT FOR SMALL MUNICIPAL SEPARATE STORM  
SEWER SYSTEMS

PERMIT NUMBER: VAR040053

Permit Year 4 Annual Report  
Reporting Period: July 1, 2021 - June 30, 2022



City of Winchester, Virginia  
Rouss City Hall  
Public Services Department  
15 North Cameron Street  
Winchester, VA 22601

October 1, 2022

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## 1.0 Background Information

### 1.1 Regulatory Requirement

In accordance with the requirements of Permit Number VAR040053, this Annual Report is hereby submitted in compliance with the City of Winchester General Permit for Small Municipal Separate Storm Sewer Systems (MS4). A link to the MS4 Program Plan and latest Annual Report can be found at:

- <https://www.winchesterva.gov/engineering/stormwater>

This Annual Report covers all information required by the permit as described in 9VAC25-890, but is not intended to fully describe all activities the City has performed, programs the City has implemented, or plans the City has made or is making. Not all the permittee's activities are required to be reported; therefore, omissions of non-required information should not be taken as an indication that the City is not fulfilling those requirements.

## 2.0 Annual Reporting Requirements

### 2.1 Regulatory Requirement

The permittee, system name, and permit number as listed below:

**Permittee:** City of Winchester

**System Name:** General Permit for Small Municipal Separate Storm Sewer Systems

**Permit Number:** VAR040053

### 2.2 Reporting Period

This document serves as the Annual Report for Permit Year 4 of the 2018-2023 Virginia MS4 General Permit. The reporting period for which this annual report is being submitted is July 1<sup>st</sup>, 2021 to June 30<sup>th</sup>, 2022.

### 2.3 Signed Certification per Part III K

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 gather and evaluate 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.

  
\_\_\_\_\_  
Perry Eisenach, P.E.  
Public Services Director

9/27/2022  
\_\_\_\_\_  
Date

## **2.4 Minimum Control Measures (MCMs) Reporting Items**

All applicable Minimum Control Measures (MCM) reporting items can be found in Sections 3.0-8.0 of this Annual Report. Supporting information for the MCMs can be found within the Appendix.

## **2.5 Evaluation of the MS4 Program Implementation**

Based on the current program results, the City is confident that the Minimum Control Measures (MCMs) being implemented are appropriate, effective, and meet the requirements of the 2018-2023 Virginia MS4 General Permit. As such, the City does not anticipate the need to make any changes to its MS4 Program at this time. The City will continue to monitor the status, appropriateness, and effectiveness of each MCM as part of our iterative process to reduce pollutant loadings and protect water quality.

## **2.6 Chesapeake Bay TMDL Special Condition Update**

An update of the Chesapeake Bay TMDL Special Condition as established under Part II A of the General Permit requirements can be found in Section 9.0.

## **2.7 Local TMDL Special Condition Update**

An update of the Local TMDL Special Condition as established under Part II B of the General Permit requirements can be found in Section 10.0.

# **3.0 Minimum Control Measure 1 – Public Education and Outreach**

## **3.1 High Priority Stormwater Issues**

The City addressed three high priority stormwater issues during the reporting period. The three high priority stormwater issues are the following:

- #1 – Reduce the amount of sediment and nutrients in local stormwater discharges.
- #2 – Reduce bacteria levels in City streams.
- #3 – Reduce the number of Illicit Discharges.

## **3.2 High Priority Stormwater Strategies**

The City used multiple strategies to educate the public on the high priority stormwater issues. These strategies varied in target audience and delivery method to maximize the outreach and education. The strategies used to address the high priority stormwater issues can be seen in Table 1 below. For more information about the individual public education and outreach events see Section 4.3.

**Table 1. High Priority Stormwater Strategies**

High Priority Stormwater Issue	Strategy Category	Public Education and Outreach
Reduce the amount of sediment and nutrients in local stormwater discharges	<ol style="list-style-type: none"> <li>1. Traditional Written Materials</li> <li>2. Signage</li> <li>3. Media Materials</li> <li>4. Curriculum Materials</li> </ol>	<ol style="list-style-type: none"> <li>1. City Publications</li> <li>2. Community Signage</li> <li>3. City Publications</li> <li>4. Watershed and Stormwater Education Opportunities Program</li> </ol>
Reduce bacteria levels in City Streams	<ol style="list-style-type: none"> <li>1. Traditional Written Materials</li> <li>2. Signage</li> <li>3. Media Materials</li> <li>4. Curriculum Materials</li> </ol>	<ol style="list-style-type: none"> <li>1. City Publications</li> <li>2. Community Signage</li> <li>3. City Publications</li> <li>4. Watershed and Stormwater Education Opportunities Program</li> </ol>
Reduce the number of illicit dischargers	<ol style="list-style-type: none"> <li>1. Traditional Written Materials</li> <li>2. Signage</li> <li>3. Media Materials</li> <li>4. Curriculum Materials</li> </ol>	<ol style="list-style-type: none"> <li>1. City Publications</li> <li>2. Community Signage</li> <li>3. City Publications</li> <li>4. Watershed and Stormwater Education Opportunities Program</li> </ol>

## 4.0 Minimum Control Measure 2 – Public Involvement and Participation

### 4.1 Summary of Public Input

During this reporting period, the City continued to advertise the Stormwater Complaint Hotline on its stormwater webpage, processed calls placed to the Stormwater Complaint Hotline, and facilitated distribution (via direct download) of the Stormwater Complaint Hotline Flyer. Public input and complaints are categorized into three sections: 1) Refer for maintenance by Public Works, 2) Large capital project suggestions, 3) Inter-property dispute, in which the City is not involved. Maintenance recommendations are evaluated and added to the Public Works’ schedule as necessary. Large capital project suggestions are noted and incorporated into future discussions when evaluating the City’s needs. Inter-property disputes are directed to the appropriate department or handled between the property owners, in the cases where the City has no jurisdiction on the matter. City staff was also available at the community events listed in Section 4.3 to allow for public input.

### 4.2 MS4 Program and Stormwater Website

The City of Winchester’s current MS4 Program Plan and previous Annual Reports dating back to 2009 are available for download at:

- <https://www.winchesterva.gov/engineering/stormwater>

This MS4 Annual Report and any revisions to the City’s MS4 Program Plan will be placed on-line within thirty (30) days of submission to DEQ.

### **4.3 Public Involvement Activities**

The City participates in multiple public involvement activities. These activities are intended to increase public knowledge and awareness about stormwater related issues within the City limits. The activities vary in type and are spread throughout the calendar year to ensure the maximum audience can be reached. Although certain activities were delayed again this program year due to the pandemic, it is anticipated that most of the public involvement opportunities will return in Year 5.

#### City Publications

The City’s webpage was used as the primary public education and outreach tool for reaching out to the program’s targeted audiences and providing for distribution of educational materials to convey the appropriate messages. Publications currently available for download from the City’s Stormwater webpage during this reporting period included:

- Stormwater Complaint Hotline Flyer
- EPA’s “After the Storm” Video Series
- “Pick it Up, It’s Your Doodie” Pet Waste Brochure
- “Please Do Not Feed the Waterfowl” Wildlife Waste Brochure
- “How to Make Your Own Rain Barrel” Presentation
- 2018 - 2023 Municipal Separate Storm Sewer System (MS4) Program Plan
- MS4 Permit Years 1-5 Annual Reports from the 2014-2019 permit cycle.
- After the Storm Brochure - English
- After the Storm Brochure - Spanish
- SepticSmart: Septic Tank Maintenance – English
- SepticSmart: Septic Tank Maintenance - Spanish
- Make Your Home the Solution to Stormwater Pollution Brochure
- Kids Stormwater Stickers

In addition, the City uses its email newsletter, The Cit-E News, to announce and promote various activities throughout the year that have an impact on stormwater. Educational articles dealing with stormwater are also published in the newsletter. The Cit-E Newsletter currently has a total of one thousand eight hundred and eighty-five (1,885) subscribers; however, many of the City’s Facebook and Twitter posts direct readers to articles in the Cit-E Newsletter, so readership is much larger than just the subscriber list.

#### Community Signage

The City continued to promote picking up pet waste through the use of "Clean Up After Your Dog" signs placed at the Dog Park located in Jim Barnett Park. The number of registered dog owners with access to the Dog Park is not monitored due to the dog park being a public facility.

### Watershed and Stormwater Education Opportunities Program

The City continued the Watershed and Stormwater Educational Opportunities Program as part of the City's formal program of stormwater education at schools within the City. The City's engineering staff conducted the following school presentations regarding engineering and high priority water quality issues during the current reporting period:

- September 13, 2021 – Winchester STARBASE Academy – 22 students
- October 4, 2021 – Winchester STARBASE Academy – 24 students
- October 29, 2021 – Winchester STARBASE Academy – 19 students
- November 30, 2021 – Winchester STARBASE Academy – 45 students
- February 4, 2022– Winchester STARBASE Academy – 42 students
- March 15, 2022– Winchester STARBASE Academy – 38 students
- April 27, 2022– Winchester STARBASE Academy – 40 students
- May 27, 2022– Winchester STARBASE Academy –22 students

### Community Wellness Festival

The Community Wellness Festival was changed this year to an online event, instead of in person. As such, the City chose not to participate because we felt that the interaction and benefit to our program would be less than optimal. Alternatively, the City hosted increased community cleanup events on April 9, May 28 and June 11, to encourage citizens to take an active role in keeping our community clean. At the event, we spoke about the benefits of reduced trash and pollution in our storm sewers and waterways.

### Household Hazardous Waste Collection Days

The City continued to promote the Household Hazardous Waste Collection Days as one of its four local participation programs. These events were held on the first and third Wednesdays of each month from noon to 6 p.m. during the months of April through October. During the months of November, December, January, February and March, one event was held each month on the third Wednesday of the month.

### Adopt-A-Stream Program/Spring Greening

As a result of the COVID-19 pandemic and reduced participation in the Adopt-a-Stream program, the City opted to cancel the Adopt-A-Stream Program/Spring Greening event. That program typically consisted of volunteers walking a local stream system on City owned property while gathering and removing trash from the stream and adjacent area. In lieu of the normal event, the City hosted increased community cleanup events on April 9, May 28 and June 11, to encourage citizens to take an active role in keeping our community clean. At the event, we spoke about the benefits of reduced trash and pollution in our storm sewers and waterways.



#### 4.4 Water Quality Metric and Evaluation

The City selected four Public Involvement Opportunities to analyze further and determine their benefits and effectiveness. The City will track the metrics shown in Table 2 below to determine the success of these opportunities in the coming years. All Public Involvement Opportunities were found to have been beneficial to improving water quality. However, due to the ongoing COVID-19 crisis, the City had to cancel multiple public involvement events. The City was unable to plan other public events due to the unforeseen circumstances. Once additional information from health experts is available, the City plans on returning to its regular involvement in public involvement opportunities.

**Table 2. Public Involvement Opportunities**

Public Involvement Opportunity	Activity	Description	Metric	Benefit
Disposal or Collection Events	Household Hazardous Waste Collection Days	Provide household hazardous waste collection opportunities to resident. The events were held on the first and third Wednesdays of each month from noon to 6 pm during the months of April Through October. During the months of November, December, January, February and March, the event was held once on the third Wednesday of the month.	Household waste collected – 6,670.56 tons Recycled Materials – 1,981.11 tons Recycling Bins Distributed - 640	Removed hazardous waste that could enter stormwater systems and dispose of them at approved location that is equipped to handle it
Pollution Prevention	Adopt-a-stream/ Spring Greening	Changed to Community Cleanup Events	Number of trash bags collected – 26	Removed trash from local streams, improving the health and water quality of the stream system.
Educational Events	Watershed and Stormwater Educational Opportunities Program	City engineering staff conducted presentations at schools and taught students about engineering practices and high priority water quality issues.	Number of schools attended – 1 Number of presentations given – 9 Number of students present – 360	Educated students on the importance of water quality
Educational Events	Valley Health Community Wellness Festival	In-person event suspended for 2022		

#### **4.5 MS4 Permittees Collaboration**

The City did not collaborate with any other MS4 permittees during this permit cycle. The City currently does not have any plans to collaborate with other MS4 permittees but reserves the right to do so if a mutually beneficial opportunity arises.

### **5.0 Minimum Control Measure 3 – Illicit Discharge Detection and Elimination**

#### **5.1 Confirmation Statement**

The City confirms that the MS4 map and information table have been updated to reflect any changes to the MS4 occurring on or before June 30 of this reporting year.

#### **5.2 Outfalls Screened**

The City conducted dry weather screening on fifty (50) MS4 outfalls annually using procedures included in the Illicit Discharge Detection and Elimination (IDDE) Standard Operating Procedures Manual. No suspect discharges were found at any of the fifty (50) outfalls.

#### **5.3 Illicit Discharges**

The City continues to track and document suspect and illicit discharges, as well as, City investigation, follow-up and enforcement actions in accordance with procedures included in the Illicit Discharge Detection and Elimination (IDDE) Standard Operating Procedures Manual. During this reporting period, the City investigated seven (7) reports of illicit discharges, all of which were followed up on and eventually closed. A tracking spreadsheet depicting the suspect and illicit discharges has been included in Appendix 1.

### **6.0 Minimum Control Measure 4 – Construction Site Stormwater Runoff Control**

#### **6.1 Confirmation Statement**

The City continues to maintain the legal authority for implementation of a local erosion and sediment control program consistent with 9VAC25-840-10 through the City's Water Protection Ordinance (Chapter 9, Section II of the City Code). The City provides information on erosion sediment control and links to Chapter 9 of the City Code on the following website:

<https://www.winchesterva.gov/engineering>.

The City continues to require permits for land disturbing activities including a VSMP authority permit through Chapter 9 of the City Code. The City provides access to a downloadable Land Disturbance Permit Package and Virginia Stormwater Management Program Permit Package on the following website: <https://www.winchesterva.gov/engineering/permits>.

The City confirms that all land disturbing projects that occurred during this reporting period have been conducted in accordance with the current department approved standards and specifications for erosion and sediment control.

## **6.2 Inspections Performed**

The City continues to maintain an inspection program in accordance with Sections 9-39 and 9-67 of the City Code. The City's inspection program provides for inspection of land disturbing activities during construction to ensure compliance with:

- Approved erosion and sediment control plans
- Approved stormwater management plans
- Development, updating, and implementation of pollution prevention plans
- Development and implementation of any additional control measures necessary to address TMDLs

During this reporting period, there were a total of two thousand three hundred and seventy-six (2,370) inspections conducted across all construction sites located within the City.

## **6.3 Enforcement Actions**

During this reporting period, there were no erosion and sediment control enforcement actions taken.

# **7.0 Minimum Control Measure 5 – Post-Construction Stormwater Management for New Development and Development on Prior Developed Lands**

## **7.1 Virginia Stormwater Management Program Information**

The City continues to maintain the legal authority for implementation of a local Virginia Stormwater Management Program (VSMP) consistent with 9VAC25-870-10 through the City's Water Protection Ordinance (Chapter 9, Article III of the City Code). Furthermore, the City provides a link to Chapter 9 of the City Code on the following website: <https://www.winchesterva.gov/engineering>. The City provides access to a downloadable Virginia Stormwater Management Program Permit Package on the following website: <https://www.winchesterva.gov/engineering/permits>. The City continues to maintain a post development stormwater management facility inspection program in accordance with Section 9-67 of the City Code. The City requires inspections once every five years by City personnel, *and* annual self-inspections by owners.

## **7.2 Privately Owned Stormwater Management Facility Inspections**

During this reporting period, one hundred and seventy-five (175) private BMPs were requested to be self-inspected by their owners; of that number, the City received responses and self-certifications for forty-nine (49) BMPs. The City performed inspections on seventy-nine (79) private BMPs.

### **7.3 Privately Owned Stormwater Management Facility Enforcement Actions**

During this reporting period, zero(0) of the seventy-nine (79) private BMPs inspected by the City failed inspection.

### **7.4 Public Stormwater Management Facilities Inspections**

During this reporting period, forty-one (41) City owned BMPs were inspected. A spreadsheet with the findings of these inspections can be found within the Appendix 5.

### **7.5 Significant Maintenance, Repair, or Retrofit Activities on Stormwater Management Facilities**

Based on the results of the inspections of the forty-one (41) City owned/operated stormwater management facilities, none were found to require significant maintenance, repair, or retrofit activities beyond routine maintenance. A tracking spreadsheet depicting the City's publicly owned stormwater management facility maintenance logs has been included in Appendix 5.

### **7.6 Virginia Construction Stormwater General Permit Database Confirmation Statement**

The City confirms that the permittee submitted stormwater management facility information through the Virginia Construction Stormwater General Permit database for those land disturbing activities for which the permittee was required to obtain coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities in accordance with Part.I.E.5.f.

### **7.7 Electronic Reporting Confirmation Statement**

The City confirms that all best management practices (BMPs) were reported in accordance with Part I.E.5.f and no best management practices (BMPs) were eligible to be submitted under Part I.E.5.g.

## **8.0 Minimum Control Measure 6 – Pollution Prevention and Good Housekeeping for Municipal Operations**

### **8.1 Operation Procedures Summary**

The City developed written Standard Operating Procedures (SOPs) for Daily Good Housekeeping and Pollution Prevention during Permit Year 2 of the 2013-2018 permit cycle. The Pollution Prevention/Good Housekeeping for Municipal Operations - Standard Operating Procedures provides guidance for City staff. The Standard Operating Procedures manual can be seen in Appendix 6.

## **8.2 New SWPPPs Summary**

Per DEQ's request, the SWPPP for the City's Parks Maintenance Facility was updated during this reporting period. The revised SWPPP is included as Appendix #7 in this report.

## **8.3 Modified SWPPPs Summary**

The City has modified the Winchester Parks and Recreation Maintenance Building SWPPP and has not delisted it as a high priority facility.

## **8.4 Nutrient Management Plans Summary**

The City has not developed any new turf or landscape nutrient management plans during this permit year.

## **8.5 Training Events Summary**

Due to COVID-19, the City was not permitted to perform in-person training this spring as regularly scheduled. Instead, the City conducted an online training incorporating all four modules previously taught and required a 10-question quiz with an 75% pass rate in order for the participant to be counted. The modules that were incorporated are:

- Training Module #1 – Recognition and Reporting of Illicit Discharges
- Training Module #2 – Pollution Prevention for Road, Street, and Parking Maintenance
- Training Module #3 – Pollution Prevention for Fleet and Public Works Facilities
- Training Module #4 – Minimizing Stormwater Pollution Practices for Parks and Recreational Facilities

Sixteen (16) City employees were trained in this program year. The City expects to use this online training in the coming years due to the convenience it offers to staff.

# **9.0 Chesapeake Bay TMDL Special Conditions Requirements**

## **9.1 Non-Reported BMPs**

The City confirms that all best management practices (BMPs) were reported in accordance with Part I.E.5.f and no best management practices (BMPs) were eligible to be submitted under Part I.E.5.g.

## **9.2 Credit Acquisitions**

The City has acquired credits during the reporting period to meet the required reductions in Part II A 3, A 4, or A5. The City acquired fifty (50) lbs/yr of nitrogen reduction from the Frederick-Winchester Service Authority to be applied toward their Chesapeake Bay reduction goals. The credit purchase invoice and annual water quality credit transfer form have been included as Appendix 7.

### 9.3 Cumulative Reduction Progress

The City has summarized the progress toward meeting the required cumulative reductions for total nitrogen, total phosphorus, and total suspended solids in Table 3 below:

**Table 3. Overall Chesapeake Bay TMDL Reduction Progress**

City of Winchester 40% Overall Chesapeake Bay TMDL Reduction Goals Progress						
Pollutant	Subsource	Loading Rate (lbs./ac./yr.)	Existing Developed Lands as of 6/30/09 served by the MS4 within the 2010 CUA (acres)	Sum of 40% cumulative reduction (lbs./yr.)	Total Reduction Achieved as June 30 <sup>th</sup> , 2022 (lbs./yr.)	Reduction Achieved from July 1 <sup>st</sup> , 2021 – June 30 <sup>th</sup> , 2022 (lbs./yr)
Nitrogen	Regulated Urban Impervious	16.86	2,359.21	2,120.81	971.93	963.11
	Regulated Urban Pervious	10.07	2,848.97			
Phosphorus	Regulated Urban Impervious	1.62	2,359.21	270.11	111.51	111.51
	Regulated Urban Pervious	0.41	2,848.97			
Total Suspended Solids	Regulated Urban Impervious	1171.32	2,359.21	237,061.42	95,913.57	94,379.14
	Regulated Urban Pervious	175.8	2,848.97			

The City has re-evaluated these numbers in this program year to reflect new calculations for street sweeping.

### 9.4 BMP Implementation Summary

One new City BMP has been brought online during this reporting period. The regional stormwater facility that was constructed as part of the City’s Hope Drive project drains 345 acres and was approved in June 2022. The facility provides the following nutrient credit removals:

- Phosphorus – 111.51 lb/year
- Nitrogen – 927.83 lb/year
- Total Suspended Solids – 94,379.14 lb/year

Also, three additional properties were disconnected from septic systems, generating a nitrogen credit of 35.28 lbs/year.

## 10.0 Local TMDL Special Conditions Requirements

### 10.1 Summary of Actions

The City of Winchester currently has two (2) Local TMDLs, they are as follows:

- 1.) Abrams Creek – Sediment
- 2.) Lower Opequon Creek – Sediment

The City has put together a comprehensive plan for addressing their local TMDL requirements in the *Abrams Creek and Lower Opequon Creek Combined Sediment and Bacteria TMDL Action Plan* (Permit Number VAR040053), which has been approved by DEQ. The City continues to conduct its enhancements to public education, outreach, and employee training programs. The City also continues to implement its BMP management strategy for controlling the POC loads and is on track to accomplish its goals and milestone set forth in the report.

## **Appendix 1 - Illicit Discharge Detection and Elimination (IDDE) Tracking**



IDDE Report Log									
ID #	Date	Time	Contact Name	Phone Number	pprox. Address of Dischar	Description of Discharge Event	Actions Taken	Follow-up Needed? Y/N	Date Closed
IDR22-001	9/29/2021	12:30	Yen Doan, Carie Holbrook	(540) 323-4787 OR (540) 533-3382	Walmart (Pleasant Valley located)	City got a phone called from Police department about disel leaking from a truck at Walmart (Please Valley location) parking.	Carie and Yen went there after the called from Police Department. The leak was from a hose of the diesal tank on the back of the truck. The Fire department place dry stay on top of the diesel on the parking lot to avoid the diesel flow to stomwater inlet. There is no diesel reached to storm inlet near the truck. The Car owner wife arrived at 4:30 to collect/ sweep the dry stay and bring to the enviromental company for disposal.	N	9/30/2021
IDR22-002	9/29/2021	15:30	Carie Holbrook	(540) 323-4787	943 Buckner	Mr. Sorenson stated his wife took her car to Malloy Ford to have the oil changed, but the specific drain plug for the oil reservoir was not set back in place correctly. Mrs. Sorenson did not notice this until she got home, then saw there were trace amounts of oil in the driveway and street at which point they made contact with the City.	I advised he could try using Sta-Dri to pull up any residual not already absorbed into the asphalt. At approximately 4:45pm on the same day, Mr. Sorenson made contact with me again to let me know he followed recommendations and will be sweeping it up after letting it sit overnight.	N	9/30/2021
IDR22-003	12/16/2021	16:00	Yen Doan, Carie Holbrook, Reza Ravandoust	(540) 323-4787	661 Millwood Avenue Winchester VA 22601	At approximately 4:00pm on 12/15, we received a call from the police department regarding a realtor located at 661 Millwood Ave who made contact saying Abrams Creek behind their building had been cloudy for the past 2 days.	On 12/15, Reza and Yen visited the location for documentation but could not investigate further due to daylight fading. On 12/16, Reza and Carie revisited the location for a comprehensive review. The water flow was normal and clear. We did notice several areas between 661 Millwood Ave and 500 W Jubal Early Drive where a sandy substance was seen to be laying in the bottom of the creek. It would appear as if a portion of a nearby bank with sandy soil may have collapsed, causing natural material to enter the creek.	N	12/17/2021
IDR22-004	1/31/2022	7:45AM	Carie Holbrook	540-323-4787	900 S Pleasant Valley Rd Winchester VA 22601	On 01/31/22 at approximately 7:45am, we received a call from the police department regarding a vehicle accident near 900 S Pleasant Valley Rd. One of the vehicles involved caught fire and there was a suspected fuel leak near the City's storm inlet.	Once on scene, the city Vac truck was cleaning up all spilled liquids and the vehicles were removed. Upon inspection, there was minimal to no discharge into the storm sewer system.	N	
IDR22-005	3/31/2022	2:30PM	Carie Holbrook	540-323-4787	609 Cedar Creek Grade Winchester VA 22601	At approximately 2:30pm, I received a call from Winchester PD regarding a vehicle accident at 609 Cedar Creek Grade where a vehicle struck a tree, puncturing the oil and antifreeze tanks. Upon my visit, I noticed it had made its way into the gutter pan and towards the downstream storm inlet.	The police department laid down absorbent litter to clean up the spill. I contacted Public Works to have the sweeper truck dispatched and the absorbent material was thoroughly removed via 3 passes by the truck.	N	3/31/2022
IDR22-006	4/20/2022	3:00PM	Carie Holbrook	540-323-4787	2509 Stoneridge Drive Winchester VA 22601	While out conducting routine inspections, I noticed a chalky white substance running along the gutter pan and into the nearest storm inlet. Upon further investigation, it appeared to be concrete washwater, most likely from recent concrete work completed at 2509 Stoneridge Drive adjacent to their garage.	The bulk of the waste material seems to have dissipated and a discoloration is all that remains.	N	4/20/2022
IDR22-007	6/13/2022	2:00PM	Carie Holbrook	540-323-4787	1675 S Pleasant Valley Rd Winchester VA 22601	I received a call from Winchester FD at approximately 2:00pm regarding an RV parked in the rear lot of Dick's Sporting Goods who was discharging their sanitary waste directly into the parking lot. Dumping occurred around 9am and called in by nearby witnesses. Upon my arrival, the majority of liquid waste had evaporated, but there was still sewage debris littering the parking lot.	I called Public Works, they sent out a sweeper truck to clean up any residual before forecasted rain moves in. The sweeper truck made 3-5 passes and cleaned up the majority of the spill.	N	6/13/2022

**Appendix 2. Electronic Database/Spreadsheet of City-Owned and Privately-Owned Stormwater Management Facilities**

0000	Property Name	Project Address	Property ID	000-Type	Owner	Owners Address	HU Code ID	Acres Treated	Constructed?	Impervious Acres Treated	Online Date	Last Self-Inspection	x
0001	804 Amherst Street	804 Amherst Street	171-1--18-	Pervious Pavers (Concrete)	Iris, LC	611 Handley Ave, Winchester, VA 22601	17	0.08	TRUE		04/30/10	05/14/20	05/14/20
0002	804 Amherst Street	804 Amherst Street	171-1--18-	Grass Swale	Iris, LC	612 Handley Ave, Winchester, VA 22601	17	0.04	TRUE		04/30/10	02/15/22	06/08/21
0003	Aiken Strip Mall	2820-2836 Valley Avenue	310-7--40-	Detention Basin (Dry Pond)	Aikens Group	P.O. Box 2468, Winchester, VA 22604	16	6.00	TRUE		06/30/05	02/14/19	05/15/20
0004	All Points Warehouse	3082 Shawnee Drive	351-1--5-A	Detention Basin (Dry Pond)	All Points Properties LLC	1682 East Guide Drive, Suite 201, Rockville, MD 20850	16	8.80	TRUE		06/30/05	02/15/22	06/11/21
0005	Allston Mews	500-552 Allston Circle, 500-520 Mews Lane	351-1--21-	Detention Basin (Dry Pond)	JONES MICHAEL TRUSTEE	4306 Evergreen Ln, STE 102. Annadale, VA 22003	16	0.75	TRUE		06/30/05	05/28/14	06/11/21
0006	Allston Mews	500-552 Allston Circle, 500-520 Mews Lane	351-1--21-	Detention Basin (Dry Pond)	JONES MICHAEL TRUSTEE	4306 Evergreen Ln, STE 102. Annadale, VA 22003	16	0.75	TRUE		06/30/05	05/28/14	05/18/20
0007	American Woodmark	3102 Shawnee Drive	351-1--4-	Detention Basin (Dry Pond)	Grafton School Inc	120 Bellview Ave, Winchester VA 22601	16	2.60	TRUE		06/30/05	05/26/20	06/02/20
0008	Amherst St. CVS	1721 Amherst Street	149-1--8-B	Detention Basin (Dry Pond)	Summit Community Bank	100 W. Jubal Early Drive, Winchester, VA 22601	17	43.50	TRUE		07/28/08	05/26/20	05/25/20
0010	Bank of Clarke County	2555 South Pleasant Valley Road	291-5--4-	Hydrodynamic Separator	Bank of Clarke County	P.O Box 391 Berryville VA 22611	17	1.12	TRUE		03/25/13	03/10/21	06/11/21
0011	Saturn of Winchester	3003-3019 Valley Avenue	329-1--9-	Detention Basin (Dry Pond)	O'Malley LLC	3019 Valley Avenue, Winchester, VA 22601	16	3.80	TRUE		06/30/05	05/14/20	05/25/20
0012	Berryville Ave. CVS	836-906 Berryville Avenue	176-6--8-	Underground Detention	SCP 2006-C23-208-LLC	1 CVS Drive, Woonsocket, RI 02895	17	1.10	TRUE		06/30/07	None	05/25/20
0014	Byrd Office Building	2909-2919 Valley Avenue	310-1--17-	Detention Basin (Dry Pond)	Byrd Enterprises, LLC	2913 Valley Avenue, Winchester, VA 22601	16	2.06	TRUE		02/27/08	02/28/22	06/11/21
0015	George Washington Autopark (131 North Kent Street)	131 North Kent Street	173-1-P-4A-	Filterra	Winchester Parking Authority	15 N. Cameron Street, Winchester, VA 22601	17	0.20	TRUE		04/11/08	02/18/22	06/11/21
0016	Castleman Subdivision	Mosby Street ROW	1-1--1-	Underground Detention	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	6.39	TRUE		11/27/07	N/A - City Owned	06/28/22
0017	Cedar Creek Grade Office Complex (905 Cedar Creek Grade)	905 Cedar Creek Grade	269-2--70-	Filterra	Dinapoli Properties, LLC	905 Cedar Creek Grade, Winchester, VA 22601	17	0.36	TRUE		02/27/07	02/22/22	05/15/22
0018	Cedar Creek Grade Office Complex (817 Cedar Creek Grade)	817 Cedar Creek Grade	269-2--69-	Filterra	Treybul Co., LLC	817 Cedar Creek Grade, Suite 120, Winchester, VA 22601	17	0.48	TRUE		02/27/07	03/18/21	05/15/22
0019	Cedar Creek Grade Office Complex(905 Cedar Creek Grade)	905 Cedar Creek Grade	269-2--70-	Filterra	Dinapoli Properties, LLC	905 Cedar Creek Grade, Winchester, VA 22601	17	0.48	TRUE		02/27/07	02/22/22	05/15/22
0020	Cedar Creek Grade Office Complex (905 Cedar Creek Grade)	905 Cedar Creek Grade	269-2--70-	Filterra	Dinapoli Properties, LLC	905 Cedar Creek Grade, Winchester, VA 22601	17	0.61	TRUE		02/27/07	02/22/22	05/15/22
0021	Cedar Creek Grade Office Complex (817 Cedar Creek Grade)	817 Cedar Creek Grade	269-2--69-	Filterra	Treybul Co., LLC	817 Cedar Creek Grade, Suite 120, Winchester, VA 22601	17	0.78	TRUE		02/27/07	03/18/21	05/15/22
0022	Centre at Winchester - Home Depot, Target (2320 Legge Boulevard)	2320 Legge Boulevard	292-1--3-	Detention Basin (Dry Pond)	P D K Winchester LC	1313 Dolley Madison Boulevard, Suite 401, McLean, VA 22101	17	8.50	TRUE		06/30/15	06/20/14	05/18/20
0023	Southside Church of Christ (3136 Papermill Road)	3136 Papermill Road	332-1--1-	General Infiltration Practice	Southside Church of Christ	3136 Papermill Road, Winchester, VA 22601	17	0.75	TRUE	0.59	11/01/17	05/14/20	06/02/20
0025	Cottages at Willow Lawn	1826 Tilghman Lane	230-5-A-130-	Detention Basin (Dry Pond)	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	40.60	TRUE			N/A	06/28/22
0027	Dermatology Associates (1514 Amherst Street)	1514 Amherst Street	150-1--7-A	Detention Basin (Dry Pond)	Dermatology Properties, LC	1514 Amherst Street, Winchester, VA 22601	17	5.20	TRUE		06/30/05	02/09/22	06/28/22
0028	Drissi Plaza (29-35 East Jubal Early Drive)	29-35 East Jubal Early Drive	252-4--A-	Underground Detention	Drissi Properties, LLC	12839 Tournament Drive, Reston, VA 20191	17	2.10	TRUE		06/30/05	03/01/22	06/07/21
0029	Ft. Collier Rd. Food Lion [now Shop N Save] (699 -723 Fort Collier Road)	699-723 Fort Collier Road	176-7--2B-	Detention Basin (Dry Pond)	Kentland Foundation Inc.	P.O. Box 879, Berryville, VA 22611	17	20.20	TRUE		06/30/05	03/29/22	05/19/20

0033	FCPS Admin Annex (1415 Amherst Street)	1415 Amherst Street	170-1--3-	Bioretention Basin	Frederick County Public Schools	PO BOX 3508, Winchester VA 22604	17	0.10	TRUE		11/01/11	05/18/20	06/07/21
0034	FCPS Admin Annex (1415 Amherst Street)	1415 Amherst Street	170-1--3-	General Infiltration Practice	Frederick County Public Schools	PO BOX 3508, Winchester VA 22604	17	0.10	TRUE		11/01/11	05/18/20	06/07/21
0035	Featherbed Lane - Lot 3	80 Featherbed Lane	252-1-C-3-	Filtterra	Windewald Enterprises, LLC	1025 Winchester Avenue, Martinsburg, WV 25401	17	0.38	TRUE			02/10/22	06/07/21
0036	Featherbed Lane - Lot 3	80 Featherbed Lane	252-1-C-3-	Filtterra	Windewald Enterprises, LLC	1025 Winchester Avenue, Martinsburg, WV 25401	17	0.38	TRUE			02/10/22	06/07/21
0037	Featherbed Lane - Lot 3	80 Featherbed Lane	252-1-C-3-	Bioretention Basin	Windewald Enterprises, LLC	1025 Winchester Avenue, Martinsburg, WV 25401	17	0.38	TRUE			02/10/22	06/07/21
0038	Fern Adams Building (303 South Loudoun Street)	303 South Loudoun Street	193-4--1-		AFLP-FAB LLC	303 South Loudoun Street, Winchester, VA 22601	17	0.47	TRUE		06/30/05	02/15/22	05/19/20
0039	Burke Center (2-40 Weems Lane)	2-40 Weems Lane	271-2--A-	Detention Basin (Dry Pond)	BURKE REALTY INC	36 WEEMS LN, Winchester VA 22601	17	7.10	TRUE		06/30/05	02/23/22	05/15/20
0040	Frederick Douglas School	100 West Tevis Street	291-1--5E1-	Detention Basin (Dry Pond)	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	16	78.90	TRUE			N/A	06/28/22
0041	Friendship Fire Hall	627 North Pleasant Valley Road	175-1--23B-	Detention Basin (Dry Pond)	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	50.50	TRUE			N/A	06/28/22
0044	Trinity Express Lube (2409-2433 Valley Avenue)	2409-2433 Valley Avenue	270-3--13-	Detention Basin (Dry Pond)	KGA HOLDINGS LLC	37360 JOHN MOSBY HIGHWAY, Middleburg VA 20117	17	0.81	TRUE		06/30/05	07/27/10	05/25/20
0045													
0046	Harvest Drive Medical (501 - 519 Harvest Drive)	501-519 Harvest Drive	230-4--1-	Filtterra	Valley Proteins, Inc.	151 Valpro Drive, Winchester, VA 22603	17	0.53	TRUE		12/11/12	02/07/22	05/14/20
0047	Harvest Drive Medical (501 - 519 Harvest Drive)	501-519 Harvest Drive	230-4--1-	Filtterra	Valley Proteins, Inc.	151 Valpro Drive, Winchester, VA 22603	17	0.51	TRUE		12/11/12	02/07/22	05/14/20
0048	Harvest Drive Medical (501 - 519 Harvest Drive)	501-519 Harvest Drive	230-4--1-	Filtterra	Valley Proteins, Inc.	151 Valpro Drive, Winchester, VA 22603	17	0.17	TRUE		12/11/12	02/07/22	05/14/20
0049	Harvest Drive Medical (501 - 519 Harvest Drive)	501-519 Harvest Drive	230-4--1-	Filtterra	Valley Proteins, Inc.	151 Valpro Drive, Winchester, VA 22603	17	0.16	TRUE		12/11/12	02/07/22	05/14/20
0050	Harvest Drive Medical (501 - 519 Harvest Drive)	501-519 Harvest Drive	230-4--1-	Filtterra	Valley Proteins, Inc.	151 Valpro Drive, Winchester, VA 22603	17	0.14	TRUE		12/11/12	02/07/22	05/14/20
0051	Harvest Drive Medical (501 - 519 Harvest Drive)	501-519 Harvest Drive	230-4--1-	Filtterra	Valley Proteins, Inc.	151 Valpro Drive, Winchester, VA 22603	17	0.49	TRUE		12/11/12	02/07/22	05/14/20
0052	Harvest Drive Medical (501 - 519 Harvest Drive)	501-519 Harvest Drive	230-4--1-	Filtterra	Valley Proteins, Inc.	151 Valpro Drive, Winchester, VA 22603	17	0.78	TRUE		12/11/12	02/07/22	05/14/20
0053	Harvest Drive Medical (501 - 519 Harvest Drive)	501-519 Harvest Drive	230-4--1-	Pervious Pavers (Concrete)	Valley Proteins, Inc.	151 Valpro Drive, Winchester, VA 22603	17	1.50	TRUE		12/11/12	02/07/22	05/14/20
0054	Henkel-Harris (2983 South Pleasant Valley Road)	2983 South Pleasant Valley Road	331-1--1-	Detention Basin (Dry Pond)	NO NAME	114 N Cameron St Winchester VA 22601	16	30.10	TRUE		06/30/05	03/29/18	06/02/20
0055	High End Automotive (2970 Valley Avenue)	2970 Valley Avenue	330-2--5-	Detention Basin (Dry Pond)	SMD Properties, LLC	P.O. Box 8881, Reston, VA 20195	16	0.55	TRUE		04/19/07	01/28/16	05/15/20
0056	High End Automotive (2970 Valley Avenue)	2970 Valley Avenue	330-2--5-	Bioretention Filter	SMD Properties, LLC	P.O. Box 8881, Reston, VA 20195	16	0.55	TRUE		04/19/07	01/28/16	06/07/21
0057	Hilton Garden Inn (120 Wingate Drive)	120 Wingate Drive	253-1--11-	Underground Detention	Lucky 7 LP-LLP	1025 Martinburg Pike Winchester VA 22603	17	5.50	TRUE		12/04/06	02/01/21	05/13/20
0058	Hirschberg Office Building (1818 Amherst Street)	1818 Amherst Street	Hirschberg Office Building (1818 Amherst Street)	General Infiltration Practice	Neurosurgical Investment Properties	1818 Amherst Street, Winchester, VA 22601	17	1.10	TRUE		06/30/05	02/03/22	06/07/21
0059	History and Tourism Center	1400 South Pleasant Valley Road	234-1--14-	Bioretention Basin	City of Winchester	15 N. Cameron Street, Risk Manager STE 106 Winchester, VA 22601	17	1.63	TRUE			N/A - City Owned	06/28/22
0060	History and Tourism Center	1400 South Pleasant Valley Road	234-1--14-	Bioretention Basin	City of Winchester	15 N. Cameron Street, Risk Manager STE 106 Winchester, VA 22601	17	1.77	TRUE			N/A - City Owned	06/28/22
0061	Orchard Hills Section 7A	1946 Cidermill Lane	229-3-7-227-	General Infiltration Practice	Nancy Adams	205 N George St C/O Millersville University, Millersville, PA 17551	17	1.20	TRUE			05/26/20	05/25/20

0062	HN Funkhouser	2148-2150 South Loudoun Street	272-1--7-	Detention Basin (Dry Pond)	KVC LLC	303 JEFFERSON S, Winchester VA 22601	17	1.16	TRUE		01/01/08	02/02/21	06/07/21
0063	HN Funkhouser	2148-2150 South Loudoun Street	272-1--7-	Grass Swale	KVC LLC	303 JEFFERSON S, Winchester VA 22601	17	0.56	TRUE		01/01/08	02/02/21	05/14/20
0064	HN Funkhouser	2148-2150 South Loudoun Street	272-1--7-	Grass Swale	KVC LLC	303 JEFFERSON S, Winchester VA 22601	17	0.22	TRUE		01/01/08	02/02/21	05/14/20
0065	HN Funkhouser	2148-2150 South Loudoun Street	272-1--7-	Grass Swale	KVC LLC	303 JEFFERSON S, Winchester VA 22601	17	1.53	TRUE		01/01/08	02/02/21	05/14/20
0066	Hope Drive Site Plan (321 Hope Drive)	321 Hope Drive	270-1--8-C	Detention Basin (Dry Pond)	Zolivia Properties, LLC	21 S. Loudoun Street, Winchester VA 22601	16	2.69	TRUE		07/12/11	02/07/22	06/11/21
0067	Hope Drive Subdivision	230 Hope Drive	270-1--8-D	Detention Basin (Dry Pond)	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	66.00	TRUE			N/A - City Owned	06/28/22
0068	Islamic Society of Winchester	601 Woodstock Lane	195-10-B-69-	Permeable Pavement (Concrete, Asphalt)	Islamic Society of Winchester	P O BOX 4440 Winchester, VA 22604	17	0.20	TRUE		09/01/10	05/26/20	05/25/20
0070	John Handley Parking Lot	338 Handley Boulevard	212-1--1-	Underground Detention	Winchester Public School Board	12 N. Washington Street, Winchester, VA 22601	17	0.00	TRUE		01/30/07	04/06/21	06/25/21
0071	John Handley Bowl (425 Handley Boulevard)	425 Handley Boulevard	211-1--1-	Underground Detention	HANDLEY BOARD OF TRU	P O BOX 58 Winchester, VA 22604	17	4.83	TRUE		02/02/11	04/06/21	06/25/21
0072	John Handley Tennis (338 Handley Boulevard)	338 Handley Boulevard	212-1--1-	Underground Detention	Winchester Public School Board	12 N. Washington Street, Winchester, VA 22601	17	0.24	TRUE		02/02/11	04/06/21	06/25/21
0073	Jubal Early Plaza I - Lot 2	21-29 West Jubal Early Drive	252-1-A-2-	Detention Basin (Dry Pond)	CRAUN LLC	PO BOX 3124594, Sioux Falls, SD 57186	17	4.22	TRUE		06/30/05	06/25/20	06/11/21
0074	Jubal Early Plaza II - Lot 9	1820 West Plaza Drive	252-1-B-9-1820	Detention Basin (Dry Pond)	Women's Center of Winchester	1820 Plaza Drive, Winchester, VA 22601	17	4.22	TRUE		06/30/05	03/09/21	06/11/21
0075	KSR LLC	210 East Clifford Street	193-1-U-3-	Sand Filter	The Townes at Kent HOA	210 South Kent Street, Winchester, VA 22601	17	0.12	TRUE		01/29/07	02/06/19	
0076	SU Sarah's Glen	1460 University Drive	254-1--2-	Pervious Pavers (Concrete)	Shenandoah University	1460 University Drive, Winchester, VA 22601	17	0.00	TRUE		01/21/13	02/09/21	06/12/21
0077	Limestone Court	2610 Hockman Avenue	290-9--32-	Detention Basin (Dry Pond)	White Properties of Winchester, Inc.	1520 Commerce Street, Winchester, VA 22601	17	0.00	TRUE		06/30/05		06/11/21
0078	Linden Drive Office Park	136 Linden Drive	150-2-B-3-	Detention Basin (Dry Pond)	BLMT PROPERTIES LLC	136 LINDEN DRIVE SUITE 100, Winchester VS 22601	17	2.13	TRUE		03/14/11		05/25/22
0079	Linden Heights Animal Hospital	274 Linden Drive	150-2-B-19-	Enhanced Extended Detention Basin	SCHMITT PROPERTIES LLC	377 MARGARITAVILLE AVE S, Hardeeville, SC 29927	17	1.34	TRUE		03/14/11	03/11/22	06/25/21
0080	Linden Medical Center	172 Linden Drive	150-2-B-15-CE	Detention Basin (Dry Pond)	Linden Westside Condominiums Assoc.	2509 Valley Avenue, Winchester, VA 22601	17	4.40	TRUE		06/12/07	03/09/21	05/25/22
0081	Lowes	2200 South Pleasant Valley Road	272-1--C1-	Detention Basin (Dry Pond)	Lowes Home Center Inc	1000 LOWE'S BLVD, Mooresville NC 28117	17	13.50	TRUE		06/30/05	02/15/22	06/02/20
0082	Lowes	2210 Legge Boulevard	293-1--1-	Detention Basin (Dry Pond)	Lowes Home Center Inc	P.O. Box 1111, North Wilkesboro, NC 28656	17	19.70	TRUE		06/30/05	01/02/19	05/25/22
0083	Madison Center	320 Hope Drive	270-6--2-	Detention Basin (Dry Pond)	NC Development LLC	P.O. Box 31, Winchester, VA 22604	17	0.78	TRUE		01/07/08	03/22/17	05/15/22
0084	Madison Center	320 Hope Drive	270-6--2-	Bioretention Filter	NC Development LLC	P.O. Box 31, Winchester, VA 22604	17	0.20	TRUE		01/07/08	03/22/17	05/15/22
0085	Madison Center	320 Hope Drive	270-6--2-	Bioretention Filter	NC Development LLC	P.O. Box 31, Winchester, VA 22604	17	0.20	TRUE		01/07/08	03/22/17	05/13/20
0086	Madison Center	320 Hope Drive	270-6--2-	Bioretention Filter	NC Development LLC	P.O. Box 31, Winchester, VA 22604	17	0.20	TRUE		01/07/08	03/22/17	05/13/20
0087	Madison Center	320 Hope Drive	270-6--2-	Bioretention Filter	NC Development LLC	P.O. Box 31, Winchester, VA 22604	17	0.20	TRUE		01/07/08	03/22/17	05/13/20
0088	Madison Center	320 Hope Drive	270-6--2-	Underground Detention	NC Development LLC	P.O. Box 31, Winchester, VA 22604	17	1.80	TRUE		01/07/08	03/22/17	05/13/20
0089	Madison Place I	3018 Shawnee Drive	351-1--19-	Detention Basin (Dry Pond)	Madison Winds, LLC	P.O. Box 2468, Winchester, VA 22604	16	5.53	TRUE		12/20/05	02/14/19	05/18/20
0090	McDonald's - Berryville Ave.	1124 Berryville Avenue	176-3--20-A	Underground Detention	McDonald's Restaurant	1124 Berryville Avenue, Winchester, VA 22601	17	0.60	TRUE		06/30/05	05/20/14	06/02/20
0091	McKinley Office Building	700 Fort Collier Road	176-3--12-B	Detention Basin (Dry Pond)	TEE SPOT REACHING HIGHER HEIGHTS	175 GREENWOOD RD, Winchester VA 22602	17	3.20	TRUE		06/30/05		06/12/21
0093	Morlyn Hills Subdivision	1511 Stone House court	188-6--61-	Constructed Wetlands	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.00	TRUE			N/A	05/25/22
0094	Orchard Terrace	282 Green Street	154-10-B-115-	Detention Basin (Dry Pond)	286,282, 278, 274 Green Street	286,282, 278, 274 Green Street, Winchester, VA 22601	18	6.40	TRUE			04/01/22	06/03/20
0095	Our Health - Phase II (401 North Cameron Street)	401 North Cameron Street	173-1-L-11-	Pervious Pavers (Concrete)	North Cameron Properties, LLC	925 Meadow Court, Winchester, VA 22601	17	0.08	TRUE		05/28/10	07/03/13	06/12/21
0096	Panera	2605 South Pleasant Valley Road	291-5--1-	Filtterra	Glaize Developments	P.O. Box 888, Winchester, VA 22604	16	0.12	TRUE		06/18/07	02/14/19	05/15/22
0097	Panera	2605 South Pleasant Valley Road	291-5--1-	Filtterra	Glaize Developments	P.O. Box 888, Winchester, VA 22604	16	0.51	TRUE		06/18/07	02/14/19	05/15/22
0098	Panera	2605 South Pleasant Valley Road	291-5--1-	Filtterra	Glaize Developments	P.O. Box 888, Winchester, VA 22604	16	0.34	TRUE		06/18/07	02/14/19	05/15/22
0099	Panera	2605 South Pleasant Valley Road	291-5--1-	Detention Basin (Dry Pond)	Glaize Developments	P.O. Box 888, Winchester, VA 22604	16	0.34	TRUE		06/18/07	02/14/19	05/15/22
0100	Park Place	2024 Harvest Drive	250-4-B-89-	Detention Basin (Dry Pond)	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	33.10	TRUE			N/A - City Owned	05/25/22

0101	Patriot Collision Center	3064-3068 Shawnee Drive	351-1--7-	Underground Detention	BIRLS LLC	C/O WILLIAM EMERSON JR, 3002 RIVERSIDE DR., Danville , VA 24541	16	1.20	TRUE		06/30/05	02/15/19	06/12/21
0102	Rubbermaid Building Expansion (3124 Valley Avenue)	3124 Valley Avenue	330-1--11-	Detention Basin (Dry Pond)	NEWELL BRANDS INDUSTRIES LLC	6655 PEACHTREE DUNWOODY RD, Atlanta GA 30328	16	0.00	TRUE		06/25/12	05/19/20	05/25/22
0103	Pine-Burke Apartments - Phase I (2-14 Taft Avenue)	2-14 Taft Avenue	271-4--13-	Underground Detention	Pine-Burke Realty, LLC	36 WEEMS LN, Winchester VA 22601	17	0.47	TRUE		06/30/05	02/23/22	06/25/21
0104	JD Byrider (1930 South Loudoun Street)	1930 South Loudoun Street	252-1--16-	Extended Detention Basin	JSB Associates	707 Commerce Ave, Front Royal VA 22630	17	1.41	TRUE		04/02/12	09/22/20	06/26/21
0105	Popeye's (2659 Valley Avenue)	2659 Valley Avenue	290-6--2-	Underground Detention	Christina Tseng	160 Lenz Lane, Stephens City, VA 22655	16	0.93	TRUE		06/12/07	04/10/17	05/25/22
0106													
0107	Rolling Hills Park	702 Kennedy Drive	289-7--1-	Detention Basin (Dry Pond)	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	16	4.50	TRUE			N/A	05/25/22
0108	Rolling Hills Subdivision (612 Lake Drive)	612 Lake Drive	289-8-2-65-A	Detention Basin (Dry Pond)	Rolling Hills Estates HOA	2509 Valley Avenue, Winchester, VA 22601	16	54.70	TRUE		08/24/12	01/02/19	05/25/22
0109	Major Properties	150 Commercial Street	153-1-J-3-	Pervious Pavers (Concrete)	Major Properties, LLC	150 Commercial Street, Winchester, VA 22601	17	0.72	TRUE		05/29/15	12/26/18	05/25/22
0110	Selma Medical	330 Amherst Street	172-1-F-15-C	Detention Basin (Dry Pond)	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	7.50	TRUE			N/A - City Owned	06/03/20
0112	Shawnee Fire Department (2210 Valor Drive)	2210 Valor Drive	271-3--7-	Detention Basin (Dry Pond)	Shawnee Volunteer Fire Dept	2210 Valor Drive, Winchester, VA 22601	17	20.30	TRUE		06/30/05	05/26/20	06/11/21
0113	Stone Ridge Development	412 South Loudoun Street	193-1-J-2-	Pervious Pavers (Concrete)	EISENACH PERRY	412 S LOUDOUN ST, Winchester VA 22601	17	0.18	TRUE			04/27/22	
0114													
0115	812 & 830 Amherst Street (812 Amherst Street)	812 Amherst Street	171-1--16-100	Pervious Pavers (Concrete)	AMHERST HOLDING LLC	812 Amherst Street, Suite 101, Winchester, VA 22601	17	0.14	TRUE		08/31/10	01/07/19	05/19/20
0116	Sorrel Court (2946 Sorrel Court)	2946 Sorrel Court	310-14--23-	Detention Basin (Dry Pond)	Sorrel Court HOA	P.O. Box 2580, Winchester, VA 22604	16	4.80	TRUE		06/30/05	04/11/18	06/04/20
0117	Spencer Square (2856 Spencer Square)	2856 Spencer Square	310-17--11-	Detention Basin (Dry Pond)	Melco Inc	609 Cedar Creek Grade, Suite A, Winchester, VA 22601	16	1.50	TRUE		06/30/05	07/17/22	06/04/20
0118													
0119	Stonecrest Village (415 Russelcroft Road)	415 Russelcroft Road	290-8-C-35-	Detention Basin (Dry Pond)	Stonecrest Village HOA	P.O. Box 2580, Winchester, VA 22604	16	87.00	TRUE		06/30/05	02/08/19	05/14/20
0120	Stutzman Body Shop (2725 Valley Avenue)	2725 Valley Avenue	310-1--6-	Underground Detention	MALLOY PROPERTIES III L	2700 Valley Avenue, Winchester, VA 22601	16	1.10	TRUE		08/28/09	01/18/19	05/13/20
0121	SU Student Center Addendum (1460 University Drive)	1460 University Drive	254-1--2-	Pervious Pavers (Concrete)	Shenandoah University	1460 University Drive, Winchester, VA 22601	17	0.40	TRUE		07/10/08	02/09/21	05/13/20
0122	Summerfield Apartments (900 - 975 Summerfield Lane)	900-975 Summerfield Lane	249-1--3-	Detention Basin (Dry Pond)	SUMMERFIELD LLC	1573 Commerce Street, Winchester, VA 22601	17	5.40	TRUE		06/30/05	01/31/19	06/11/21
0123	812 & 830 Amherst Street (830 Amherst Street)	830 Amherst Street	171-1--15A-	Pervious Pavers (Concrete)	830 AMHERST RENTALS L	830 Amherst Street, Winchester, VA 22601	17	0.24	TRUE		08/31/10	02/13/22	06/29/22
0124													
0125	Sun Trust Bank	1738 Amherst Street	149-2-B-1-	Underground Detention	Amherst Associates II, LLC	1712 Amherst Street, Winchester, VA 22601	17	1.00	TRUE		06/30/05	05/14/20	05/14/20
0126	TGI Friday's	2600-2690 South Pleasant Valley Road	292-2--3-	Hydrodynamic Separator	Glaize Developments	P.O. Box 888, Winchester, VA 22604	16	1.30	TRUE		07/23/07	02/14/19	06/11/21
0127	TGI Friday's	2600-2690 South Pleasant Valley Road	292-2--3-	Hydrodynamic Separator	Glaize Developments	P.O. Box 888, Winchester, VA 22604	16	1.23	TRUE		07/23/07	02/14/19	06/11/21
0128	TGI Friday's	2600-2690 South Pleasant Valley Road	292-2--3-	Extended Detention Basin	Glaize Developments	P.O. Box 888, Winchester, VA 22604	16	1.30	TRUE		07/23/07	02/14/19	06/11/21
0129	TGI Friday's	2600-2690 South Pleasant Valley Road	292-2--3-	Extended Detention Basin	Glaize Developments	P.O. Box 888, Winchester, VA 22604	16	1.23	TRUE		07/23/07	02/14/19	06/11/21
0130	The Corners I and II	2270 Valor Drive	270-6--5-	Underground Detention	JKLEE SERVICES LLC	PO BOX 1694, Winchester VA 22604	17	1.51	TRUE		09/30/08	12/30/18	06/29/22
0131	Timberlake Office Building	900 South Pleasant Valley Road	214-8--2-	Filtrerra	Grove Hill, LLC	PO BOX 131, Boyce VA 22620	17	0.24	TRUE		11/27/06	01/10/19	05/19/20



0132	Timberlake Office Building	900 South Pleasant Valley Road	214-8--2-	Filtrerra	Grove Hill, LLC	PO BOX 131, Boyce VA 22620	17	0.22	TRUE		11/27/06	01/10/19	06/11/21
0133	Valley Ave. Food Lion	2584-2606 Valley Avenue	290-1--2A-	Detention Basin (Dry Pond)	Kentland Foundation Inc.	P.O. Box 879, Berryville, VA 22611	17	20.70	TRUE		12/19/06	03/17/22	07/09/20
0134	Valley Mortgage	2654 Valley Avenue	290-1--8-	Detention Basin (Dry Pond)	SEE Properties LP LLP	P.O. Box 11836, Danville, VA 24543	16	58.00	TRUE		06/30/05	07/09/20	06/11/21
0135	Limestone Court	2658 Limestone Court	290-9--31-	Detention Basin (Dry Pond)	DAVIS GRANT	2658 Limestone Court, Winchester, VA 22601	17	18.30	TRUE		06/30/05	02/09/22	05/13/20
0136	Valor Drive Site Plan	2233-2265 Valor Drive	270-6--4-A-N	Detention Basin (Dry Pond)	Alejandro Orfila	P.O. Box 1182, Middleburg, VA 20118	17	3.44	TRUE		05/15/06	02/16/22	05/15/20
0137	Valor View Shopping Center	2301-2325 Valor Drive	270-6--3-	Underground Detention	PRO Properties, LLC	588 Stoney Mountain Drive, Strasburg, VA 22657	17	1.36	TRUE		12/03/10	04/23/18	06/25/21
0138	Valor View Shopping Center	2301-2325 Valor Drive	270-6--3-	Bioretention Basin	PRO Properties, LLC	588 Stoney Mountain Drive, Strasburg, VA 22657	17	0.59	TRUE		12/03/10	04/23/18	06/25/21
0139	Northside Station	823 North Loudoun Street	134-5--6-	General Infiltration Practice	Pari Plaza LLC	7204 Hickory Street, Falls Church, VA 22043	18	1.60	TRUE		06/30/05	05/18/20	06/03/20
0140	Walmart	2350 South Pleasant Valley Road	292-1--1-	Detention Basin (Dry Pond)	Walmart Supercenter	P O BOX 8050 MS 0555, Bentonville AR 72712	17	19.40	TRUE		06/30/05	02/14/19	05/15/22
0141	Walnut Street Extension Subdivision	400 Walnut Street	196-13--1-	Grass Swale	PACKARD DON JR INC	PACKARD DON JR INC	17	1.24	TRUE		09/26/05	03/10/22	06/03/20
0142													
0143	Westridge Section 1	2505 Goldenfield Lane	269-4--A-	Detention Basin (Dry Pond)	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	9.20	TRUE			N/A - City Owned	06/29/22
0144	Westridge Section 2	2653 Windwood Drive	289-4-C-60-	Detention Basin (Dry Pond)	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	15.10	TRUE			N/A - City Owned	06/29/22
0146	Whittier Ponding Basin	841 Whittier Avenue	171-6--A-	Detention Basin (Dry Pond)	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	124.70	TRUE			N/A - City Owned	05/10/22
0147	Winchester Medical Center	1840 Amherst Street	149-3--1-	Retention Basin (Wet Pond)	Winchester Medical Center	P.O. Box 3340, Winchester, VA 22604	17	57.00	TRUE		06/30/05	04/08/16	06/09/21
0148	Winchester Medical Center	1840 Amherst Street	149-3--1-	Retention Basin (Wet Pond)	Winchester Medical Center	P.O. Box 3340, Winchester, VA 22604	17	57.00	TRUE		06/30/05	04/08/16	06/09/21
0149	Winchester Medical Center	1840 Amherst Street	149-3--1-	Retention Basin (Wet Pond)	Winchester Medical Center	P.O. Box 3340, Winchester, VA 22604	17	57.00	TRUE		06/30/05	04/08/16	06/09/21
0150	Glaize Pleasant Valley Commercial	2600-2690 South Pleasant Valley Road	292-2--3-	General Infiltration Practice	Glaize Developments	P.O. Box 888, Winchester, VA 22604	16	1.81	TRUE	0.98		02/14/19	06/09/21
0151	Glaize Pleasant Valley Commercial	2600-2690 South Pleasant Valley Road	292-2--3-	Hydrodynamic Separator	Glaize Developments	P.O. Box 888, Winchester, VA 22604	16	0.67	TRUE	0.64		02/14/19	06/09/21
0156													
0157													
0158													
0159													
0161	FCPS Admin Building Addition	1415 Amherst Street	170-1--3-	Filtrerra	Frederick County Public Schools	PO BOX 3508, Winchester VA 22604	17	0.20	TRUE		11/01/11	05/18/20	06/25/21
0163	Harvest Drive Medical	501-519 Harvest Drive	230-4--1-	Grass Swale	Valley Proteins, Inc.	151 Valpro Drive, Winchester, VA 22603	17	0.21	TRUE			02/07/22	05/14/20
0164	Harvest Drive Medical	501-519 Harvest Drive	230-4--1-	Grass Swale	Valley Proteins, Inc.	151 Valpro Drive, Winchester, VA 22603	17	3.09	TRUE			02/07/22	05/14/20
0165	Medical Circle Imaging	125 Medical Circle	171-8--B2-	Filtrerra	Neurological Properties, LLC	125 Medical Circle, Suite A, Winchester, VA 22601	17	0.00	TRUE		09/14/05	06/16/20	06/25/21
0166	Medical Circle Imaging	125 Medical Circle	171-8--B2-	Filtrerra	Neurological Properties, LLC	125 Medical Circle, Suite A, Winchester, VA 22601	17	0.00	TRUE		09/14/05	06/16/20	06/25/21
0167	Medical Circle Imaging	125 Medical Circle	171-8--B2-	Underground Detention	Neurological Properties, LLC	125 Medical Circle, Suite A, Winchester, VA 22601	17	0.00	TRUE		09/14/05	06/16/20	06/25/21
0168	Omps Pet Crematory	1600 Amherst Street	150-15--3-	Bioretention Filter	Omps Funeral Home	1600 Amherst Street, Winchester, VA 22601	17	4.57	TRUE		08/04/11	05/14/20	06/25/21
0169	Rubbermaid Storage Area	3124 Valley Avenue	330-1--11-	Grass Swale	NEWELL BRANDS INDUSTRIES LLC	6655 PEACHTREE DUNWOODY RD, Atlanta GA 30328	16	0.49	TRUE		07/12/13	05/19/20	06/11/21
0170	Rubbermaid Storage Area	3124 Valley Avenue	330-1--11-	Grass Swale	NEWELL BRANDS INDUSTRIES LLC	6655 PEACHTREE DUNWOODY RD, Atlanta GA 30328	16	0.27	TRUE		07/12/13	05/19/20	06/11/21
0180	Spanish United Pentecostal Church	672 Virginia Avenue	175-11--10-	Pervious Pavers (Concrete)	Spanish United Pentecostal Church Trustees	672 Virginia Avenue, Winchester, VA 22601	17	0.23	TRUE		04/30/13	06/01/20	06/25/21
0181	Star Beauty School	219 Millwood Avenue	213-2--1A-	Bioretention Basin	Wright Renovations	124 Page Court, White Post, VA 22663	17	0.37	TRUE			01/05/19	06/25/21
0182	TGI Friday's	2600-2690 South Pleasant Valley Road	292-2--3-	Filtrerra	Glaize Developments	P.O. Box 888, Winchester, VA 22604	16	0.33	TRUE		07/23/07	02/14/19	05/18/20
0183	City National Bank	1830 Valley Avenue	231-7--K-	Underground Detention	City National Bank	25 GATEWATER RD, Cross Lanes, WV 25356	17	0.29	TRUE		08/20/13	07/23/20	06/11/21
0184	City National Bank	1830 Valley Avenue	231-7--K-	Filtrerra	City National Bank	25 GATEWATER RD, Cross Lanes, WV 25356	17	0.21	TRUE		08/20/13	07/23/20	05/13/20

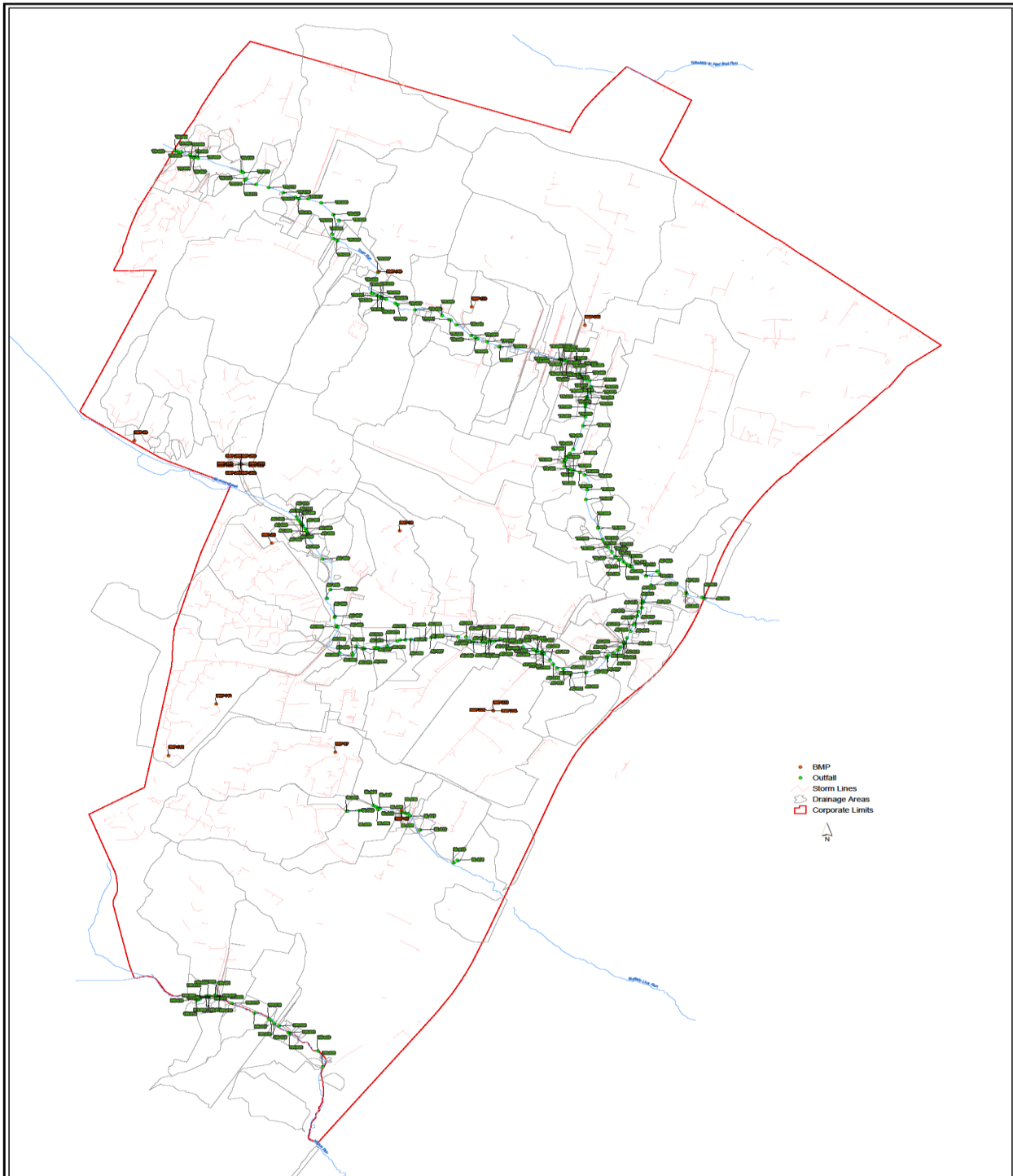
0185	City National Bank	1830 Valley Avenue	231-7--K-	Filtrerra	City National Bank	25 GATEWATER RD, Cross Lanes, WV 25356	17	0.29	TRUE		08/20/13	07/23/20	05/13/20
0186	Cedar Hill Apartments	2250 Sofia Way	270-1--1-B	Filtrerra	Cornerstone, LP LLP	PO BOX 2468, Winchester VA 22604	17	0.38	TRUE			02/14/19	06/11/21
0187	Cedar Hill Apartments	2250 Sofia Way	270-1--1-B	Filtrerra	Cornerstone, LP LLP	PO BOX 2468, Winchester VA 22604	17	0.25	TRUE			02/14/19	06/11/21
0188	Cedar Hill Apartments	2250 Sofia Way	270-1--1-B	Filtrerra	Cornerstone, LP LLP	PO BOX 2468, Winchester VA 22604	17	0.25	TRUE			02/14/19	06/11/21
0189	Cedar Hill Apartments	2250 Sofia Way	270-1--1-B	Filtrerra	Cornerstone, LP LLP	PO BOX 2468, Winchester VA 22604	17	0.25	TRUE			02/14/19	06/11/21
0190	Cedar Hill Apartments	2250 Sofia Way	270-1--1-B	Grass Swale	Cornerstone, LP LLP	PO BOX 2468, Winchester VA 22604	17	0.20	TRUE			02/14/19	05/15/20
0191	Roberts Street Plaza Parking	1811 Roberts Street	231-9--1-	Filtrerra	1818 Robert, LC	1816 Roberts Street, Winchester, VA 22601	17	0.33	TRUE			06/01/20	05/14/20
0192	Winchester Marketplace	1551 South Pleasant Valley Road	253-1--8B-	Filtrerra	COOK-OUT SHENANDOAH INC	PO BOX 698, Thomasville NC 27361	17	0.12	TRUE	0.12	09/30/15	02/12/19	05/10/22
0193	Winchester Marketplace	1531-1539 Pleasant Valley Road	253-1--8C-	Filtrerra	JDC Winchester, LLC	1760 Reston Parkway, Suite 210, Reston, VA 20190	17	0.37	TRUE	0.37	09/30/15	05/26/20	06/10/21
0194	Winchester Marketplace	1531-1539 Pleasant Valley Road	253-1--8C-	Filtrerra	JDC Winchester, LLC	1760 Reston Parkway, Suite 210, Reston, VA 20190	17	0.12	TRUE	0.12	09/30/15	02/15/19	06/10/21
0195	Winchester Marketplace	1551 South Pleasant Valley Road	253-1--8B-	Filtrerra	COOK-OUT SHENANDOAH INC	PO BOX 698, Thomasville NC 27361	17	0.11	TRUE	0.11	09/30/15	05/26/20	06/10/21
0196	Winchester Marketplace	1551 South Pleasant Valley Road	253-1--8B-	Filtrerra	COOK-OUT SHENANDOAH INC	PO BOX 698, Thomasville NC 27361	17	0.21	TRUE	0.21	09/30/15	02/12/19	06/10/21
0197	Winchester Marketplace	1551 South Pleasant Valley Road	253-1--8B-	Filtrerra	COOK-OUT SHENANDOAH INC	PO BOX 698, Thomasville NC 27361	17	0.28	TRUE	0.28	09/30/15	02/12/19	06/10/21
0198	Winchester Marketplace	1531-1539 Pleasant Valley Road	253-1--8C-	Filtrerra	JDC Winchester, LLC	1760 Reston Parkway, Suite 210, Reston, VA 20190	17	0.08	TRUE	0.27	09/30/15	05/26/20	06/10/21
0199	Winchester Marketplace	1531-1539 Pleasant Valley Road	253-1--8C-	Filtrerra	JDC Winchester, LLC	1760 Reston Parkway, Suite 210, Reston, VA 20190	17	0.42	TRUE	0.30	09/30/15	05/26/20	06/10/21
0215	Chuck E. Cheese's	2600-2690 South Pleasant Valley Road	292-2--3-	Filtrerra	Glaize Developments	P.O. Box 888, Winchester, VA 22604	16	0.25	TRUE			02/14/19	05/18/20
0216	Chuck E. Cheese's	2600-2690 South Pleasant Valley Road	292-2--3-	Filtrerra	Glaize Developments	P.O. Box 888, Winchester, VA 22604	16	0.29	TRUE			02/14/19	05/18/20
0217	SVEC South Winchester Substation	21 Shingleton Lane	SVEC South Winchester Substation	General Infiltration Practice	Shenandoah Valley Electric Cooperative	PO BOX 236, Mount Crawford, VA 22841	17	9.30	TRUE			02/14/22	06/25/21
0218	Trinity Auto Center	2409-2433 Valley Avenue	270-3--13-	Bioretention Basin	KGA HOLDINGS LLC	37360 JOHN MOSBY HIGHWAY, Middleburg VA 20117	17	0.67	TRUE		08/26/13	None Thus Far	06/11/21
0219	Gateway Center	1705 Amherst Street	150-1--11-	Cartridge Filter	PELL INVESTMENT PROPERTIES LLC	1370 MERRIMANS LN, Winchester VA 22602	17	0.16	TRUE			02/02/22	06/25/21
0220	Gateway Center	1705 Amherst Street	150-1--11-	Underground Detention	PELL INVESTMENT PROPERTIES LLC	1370 MERRIMANS LN, Winchester VA 22602	17	1.46	TRUE			02/02/22	06/25/21
0221	Gateway Center	1705 Amherst Street	150-1--11-	Cartridge Filter	PELL INVESTMENT PROPERTIES LLC	1370 MERRIMANS LN, Winchester VA 22602	17	1.46	TRUE			02/02/22	06/25/21
0222	Gateway Center	1705 Amherst Street	150-1--11-	Detention Basin (Dry Pond)	PELL INVESTMENT PROPERTIES LLC	1370 MERRIMANS LN, Winchester VA 22602	17	0.77	TRUE			02/02/22	05/19/20
0223	Spring Street	Spring Street ROW	1-1--2-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.05	TRUE	0.05	09/30/15	N/A - City Owned	05/10/22
0224	Spring Street	Spring Street ROW	1-1--2-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.21	TRUE	0.21	10/01/15	N/A - City Owned	05/10/22
0225	Spring Street	Spring Street ROW	1-1--2-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.30	TRUE	0.15	10/02/15	N/A - City Owned	05/10/22
0226	118 St. James Place	118 East James Street	213-1-K-8-	Bioretention Basin	John & Juanita Melling	5607 Hopkins Cemetery Road, Felton, DE 19943	17	0.04	TRUE		10/27/14	04/12/21	06/11/21
0227	118 St. James Place	120 East James Street	213-1-K-8-A	Bioretention Basin	ROBERTS STEPHANIE	120 East James Street, Winchester, VA 22601	17	0.04	TRUE		10/28/14	03/30/18	06/11/21
0228	118 St. James Place	122 East James Street	213-1-K-8-B	Bioretention Basin	NEWTON MARGARET TRUSTEE	122 East James Street, Winchester, VA 22601	17	0.04	TRUE		10/29/14	04/25/17	06/11/21
0229	118 St. James Place	124 East James Street	213-1-K-8-C	Bioretention Basin	TROUT JOHN	124 East James Street, Winchester, VA 22601	17	0.15	TRUE		10/30/14	05/14/20	05/18/20
0230	Stewart Street Properties	120 South Stewart Street	192-1-M-5-	Bioretention Filter	STEWART & CORK ST PROPERTIES LLC	120 South Stewart Street, Winchester, VA 22601	17	0.55	TRUE		06/24/15	02/04/22	05/10/22
0231	WMC Cancer Center	1840 Amherst Street	149-3--1-	Cartridge Filter	Winchester Medical Center	P.O. Box 3340, Winchester, VA 22604	17	2.65	TRUE	1.38	08/25/16		05/10/22
0232	New John Kerr Elementary School	427 Meadowbranch Avenue	149-1--7B-	Bioretention Basin	Winchester Public School Board	12 N. Washington Street, Winchester, VA 22601	17	1.19	TRUE	0.80	01/12/17	04/06/21	06/25/21
0233	New John Kerr Elementary School	427 Meadowbranch Avenue	149-1--7B-	Bioretention Basin	Winchester Public School Board	12 N. Washington Street, Winchester, VA 22601	17	1.24	TRUE	0.55	01/12/17	04/06/21	06/25/21
0234	New John Kerr Elementary School	427 Meadowbranch Avenue	149-1--7B-	Bioretention Basin	Winchester Public School Board	12 N. Washington Street, Winchester, VA 22601	17	4.42	TRUE	2.10	01/12/17	04/06/21	06/25/21



0235	Dixie Beverage	2705 South Pleasant Valley Road	311-1--12-	Bioretention Basin	Shenandoah Valley Distributing Company	2705 South Pleasant Valley Road, Winchester, VA 22601	16	0.45	TRUE			05/14/20	05/15/22
0236	Dixie Beverage	2705 South Pleasant Valley Road	311-1--12-	Bioretention Basin	Shenandoah Valley Distributing Company	2705 South Pleasant Valley Road, Winchester, VA 22601	16	0.99	TRUE			05/14/20	05/15/22
0237	Dixie Beverage	2705 South Pleasant Valley Road	311-1--12-	Bioretention Basin	Shenandoah Valley Distributing Company	2705 South Pleasant Valley Road, Winchester, VA 22601	16	0.63	TRUE			05/14/20	05/15/22
0239	Storage Solutions	403 Battaile Drive	351-2--2-	Filtrerra	Storage Solutions of Winchester, LLC	1520 Commerce Street, Winchester, VA 22601	16	0.36	TRUE	0.32		03/30/22	05/15/22
0240	Storage Solutions	403 Battaile Drive	351-2--2-	Filtrerra	Storage Solutions of Winchester, LLC	1520 Commerce Street, Winchester, VA 22601	16	0.37	TRUE	0.32		03/30/22	05/15/22
0241	Storage Solutions	403 Battaile Drive	351-2--2-	Filtrerra	Storage Solutions of Winchester, LLC	1520 Commerce Street, Winchester, VA 22601	16	0.26	TRUE	0.24		03/30/22	05/15/22
0242	Storage Solutions	403 Battaile Drive	351-2--2-	Filtrerra	Storage Solutions of Winchester, LLC	1520 Commerce Street, Winchester, VA 22601	16	0.27	TRUE	0.24		03/30/22	05/15/22
0243	Storage Solutions	403 Battaile Drive	351-2--2-	Detention Basin (Dry Pond)	Storage Solutions of Winchester, LLC	1520 Commerce Street, Winchester, VA 22601	16	2.34	TRUE	1.68		03/30/22	05/15/22
0246	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.16	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0247	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.25	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0248	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.07	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0249	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.12	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0250	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.23	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0251	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.30	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0252	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.18	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0253	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.33	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0254	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.29	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0255	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.20	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0256	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.16	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0257	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.47	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0258	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.55	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0259	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.36	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0260	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.47	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0261	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.20	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0262	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.17	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0263	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.26	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0264	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.20	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0265	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.43	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0266	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.34	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0267	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.18	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0268	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	1-1--3-	Filtrerra	City of Winchester	15 N. Cameron Street, Winchester, VA 22601	17	0.22	TRUE	0	07/01/17	N/A - City Owned	05/25/22
0269	Malloy Toyota	400 Weems Lane	250-3--38-	Detention Basin (Dry Pond)	Malloy Properties V, LLC	400 Weems Lane, Winchester, VA 22601	17	0.20	TRUE	0.20		03/22/21	05/25/22
0270	Museum of Shenandoah Valley	901 Amherst Street	171-01-21	Pervious Pavers (Concrete)	GLASS GLEN BURNIE FOUNDATION	901 Amherst St			FALSE				06/10/21
0271	Westminster Canterbury Shenandoah Valley	300 Westminster Canterbury Drive	131-1-1	Filtrerra	Westminster Canterbury - Shenandoah Valley	300 Westminster Canterbury Dr, Winchester VA 22603		0.60	TRUE	0.6		02/04/21	06/10/21

0272	Denstock Meadow Branch LLC	420 Meadow Branch Ave	149-01-7C-C	Bioretension Filter	Denstock Meadow Branch	1430 Rolkin Ct.Suite 201 Charlottesville, VA 22911						None Thus Far	
0273	Denstock Meadow Branch LLC	420 Meadow Branch Ave	149-01-7C-C	Infiltration Area 1	Denstock Meadow Branch	1430 Rolkin Ct.Suite 201 Charlottesville, VA 22911						None Thus Far	
0274	Denstock Meadow Branch LLC	420 Meadow Branch Ave	149-01-7C-C	Infiltration Area 3	Denstock Meadow Branch	1430 Rolkin Ct.Suite 201 Charlottesville, VA 22911						None Thus Far	
275	Glaize Developments	231 Crossover Blvd		Austin Sand Filter					TRUE	45.32	04/18/22	None Thus Far	
0276	Glaize Developments	231 Crossover Blvd		Extended Detention Pond					TRUE	18.4	11/02/21	None Thus Far	

**Appendix 3. *City of Winchester MS4 Service Area***



**CITY OF WINCHESTER**  
 PUBLIC SERVICES DEPARTMENT  
 15 N CAMERON STREET  
 WINCHESTER, VA 22601  
 PHONE: 540-667-1815  
 FAX: 540-662-3331

**CITY OF WINCHESTER**  
**MS4 SERVICE AREA**  
 SCALE: 1" = 900'  
 DATE: 8/23/2021

**Appendix 4. Letter from DEQ Confirming City Yards  
Facility Coverage under the Virginia General Permit for  
Discharge of Stormwater from Industrial Activities**



*COMMONWEALTH of VIRGINIA*

*DEPARTMENT OF ENVIRONMENTAL QUALITY*  
VALLEY REGIONAL OFFICE

Matthew J. Strickler  
Secretary of Natural Resources

P.O. Box 3000, Harrisonburg, Virginia 22801  
(540) 574-7800 Fax (540) 574-7878  
Physical Address: 4411 Early Road, Harrisonburg, VA  
[www.deq.virginia.gov](http://www.deq.virginia.gov)

David K. Paylor  
Director  
  
Amy Thatcher Owens  
Regional Director

August 30, 2019

Perry Eisenach  
City of Winchester  
Sent by Email ([perry.eisenach@winchesterva.gov](mailto:perry.eisenach@winchesterva.gov))

RE: Coverage under the VPDES Industrial Stormwater General Permit  
City Yards  
Registration No. VAR050822

Mr. Eisenach:

We have reviewed the Registration Statement and have determined that stormwater discharges from the above facility are hereby covered under the referenced VPDES general permit. Your coverage under this permit is effective as of August 30, 2019. The enclosed copy of the general permit contains the applicable stormwater pollution prevention plan (SWPPP), sector specific requirements, monitoring requirements, and other conditions of coverage.

The general permit requires that you update your Stormwater Pollution Prevention Plan (SWPPP) within 90-days of your date of coverage under the permit to incorporate the SWPPP changes that the Department made for this permit reissuance.

For this reissuance, all permit discharge monitoring is semi-annual (i.e., once per six months) unless otherwise directed by the Department. Monitoring for your facility begins with the July 1, 2019 monitoring period.

A Discharge Monitoring Report (DMR) form is included in the reissuance package for reference purposes only. Monitoring results shall be reported in the department's electronic discharge monitoring report (e-DMR) system. All reports and forms submitted in compliance with this permit shall be submitted electronically by the permittee in accordance with 9VAC25-31-1020. Answers to frequently asked questions and the e-DMR registration process can be located at the following website:  
<https://www.deq.virginia.gov/Programs/Water/PermittingCompliance/ElectronicDMRsubmissions.aspx>

Monitoring results must be submitted by January 10<sup>th</sup> and July 10<sup>th</sup> each year via e-DMR. The first DMR is due January 10, 2020, for the monitoring period of July 1, 2019 through December 31, 2019.

## **Appendix 5. Publicly Owned Stormwater Management Facility Maintenance Logs**

## Inspected Spring 2022

BMP ID	Location	Type of BMP	Maintenance Required?	Notes
223	Spring Street	Filtterra	MINOR	deris
224	Spring Street	Filtterra	MINOR	deris
225	Spring Street	Filtterra	MINOR	deris
246	Meadow Branch Avenue	Filtterra	NO	
247	Meadow Branch Avenue	Filtterra	NO	
248	Meadow Branch Avenue	Filtterra	NO	
249	Meadow Branch Avenue	Filtterra	NO	
250	Meadow Branch Avenue	Filtterra	NO	
251	Meadow Branch Avenue	Filtterra	NO	
252	Meadow Branch Avenue	Filtterra	NO	
253	Meadow Branch Avenue	Filtterra	NO	
254	Meadow Branch Avenue	Filtterra	NO	
255	Meadow Branch Avenue	Filtterra	NO	
256	Meadow Branch Avenue	Filtterra	NO	
257	Meadow Branch Avenue	Filtterra	NO	
258	Meadow Branch Avenue	Filtterra	NO	
259	Meadow Branch Avenue	Filtterra	NO	
260	Meadow Branch Avenue	Filtterra	NO	
261	Meadow Branch Avenue	Filtterra	NO	
262	Meadow Branch Avenue	Filtterra	NO	
263	Meadow Branch Avenue	Filtterra	NO	
264	Meadow Branch Avenue	Filtterra	NO	
265	Meadow Branch Avenue	Filtterra	NO	
266	Meadow Branch Avenue	Filtterra	NO	
267	Meadow Branch Avenue	Filtterra	NO	
268	Meadow Branch Avenue	Filtterra	NO	
16	Mosby ROW	Underground Detention	NO	
40	100 West Tevis Street (Frederick Douglas School)	Detention Basin	MINOR	
25	1826 Tilghman Lane (Cottages at Willow Lawn)	Detention Basin	MINOR	
67	230 Hope Drive	Detention Basin	NO	
100	2024 Harvest Drive (Park Place)	Detention Basin	No	
110	330 Amherst Street (Selma Medical)	Detention Basin	MINOR	Grate may need to be adjusted or replaced.
143	2505 Goldenfield Lane	Detention Basin	MINOR	Trash, debris, yard clippings, and tree branches.



144	2653 Windwood Drive	Detention Basin	MINOR	Trash, debris, yard clippings, and tree branches.
146	841 Whittier Ponding Basin	Detention Basin	MINOR	Trash, debris, yard clippings, and tree branches.
93	1511 Stone House Court	Constructed Wetlands	MINOR	Trash, debris, yard clippings, and tree branches.

Blue	In Compliance	
Yellow	In Compliance, but requires minor maintenance	
Red	Not In Compliance, requires maintenance	

**Appendix 6. Good Housekeeping and *Pollution Prevention Standard Operating***

**Phase II MS4 General Permit  
Permit No. VAR040053**

**Pollution Prevention / Good Housekeeping  
For Municipal Operations**

**Standard Operating Procedures**



2018-2023

Prepared By:  
Timmons Group  
20110 Ashbrook Place, Suite 100  
Ashburn, Virginia 20147



**Appendix 7. *SWPPP for Parks Maintenance Building at Jim Barnett Park Procedures (SOP)***

**Stormwater Pollution Prevention Plan**  
**for:**  
**Winchester Parks and Recreation**  
**Maintenance Building**

1001 E. Cork St.  
Winchester, VA 22601  
(540) 667-1815 ext. 1451

**SWPPP Contact(s):**

City of Winchester Parks and Recreation Department  
15 N. Cameron Street  
Winchester, VA 22601  
(540) 667-1815 ext. 1451

Kelly Henshaw, City Engineer  
(540) 667-1815 ext. 1481

Yen Doan, Stormwater Engineer  
(540) 667-1815 ext. 1441

**SWPPP Preparation Date:**

December 31, 2021

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**SECTION 1. FACILITY DESCRIPTION AND CONTACT INFORMATION**

**1.1. Facility Information**

**Facility Information**

Name of Facility: Winchester Parks and Recreation Maintenance Building

Street: 1001 E. Cork Street

City: Winchester State: VA ZIP Code: 22601

County or Similar Subdivision: City of Winchester

Permit Tracking Number: \_\_\_\_\_ (if covered under a previous permit)

Latitude/Longitude (Use **one** of three possible formats, and specify method)

Latitude:

Longitude:

1. 39.1369 ° N (decimal)

1. -78.1540 ° W (decimal)

Method for determining latitude/longitude (check one):

USGS topographic map (specify scale: \_\_\_\_\_)

EPA Web site

GPS

Other (please specify): City of Winchester Pictometry

Is this facility considered a Federal Facility?  Yes  No

Estimated area of industrial activity at site exposed to stormwater: 0.72 (acres)

**Discharge Information**

Does this facility discharge stormwater into an MS4?  Yes  No

If yes, name of MS4 operator: City of Winchester

Name(s) of water(s) that receive stormwater from your facility Abrams Creek

Are any of your discharges directly into any segment of an "impaired" water?  Yes  No

If Yes, identify name of the impaired water (and segment, if applicable): \_\_\_\_\_

Identify the pollutant(s) causing the impairment: \_\_\_\_\_

For pollutants identified, which do you have reason to believe will be present in your discharge? \_\_\_\_\_

For pollutants identified, which have a completed TMDL? \_\_\_\_\_

Primary SIC Code or 2-letter Activity Code: \_\_\_\_\_

Identify your applicable sector and subsector: \_\_\_\_\_

## **1.2. Contact Information/Responsible Parties**

### **Facility Operator (s):**

Name: [City of Winchester Public Works Department](#)

Address: [1001 E. Cork St.](#)

City, State, Zip Code: [Winchester, VA 22601](#)

Telephone Number: [\(540\) 662-4946](#)

### **Facility Owner (s):**

Name: [City of Winchester](#)

Address: [15 N. Cameron Street](#)

City, State, Zip Code: [Winchester, VA 22601](#)

Telephone Number: [\(540\) 667-1815](#)

### **SWPPP Contact:**

Name: [Robert Garrett, Grounds Maintenance Supervisor](#)

Telephone Number: [\(540\) 336-6723](#)

Email Address: [Robert.Garrett@winchesterva.gov](mailto:Robert.Garrett@winchesterva.gov)

Name: [Kelly Henshaw, City Engineer](#)

Telephone number: [\(540\) 667-1815 ext. 1481](#)

Email address: [Kelly.Henshaw@winchesterva.gov](mailto:Kelly.Henshaw@winchesterva.gov)

Name: [Bill Cain, Stormwater Engineer](#)

Telephone number: [\(540\) 533-3382](#)

Email address: [Bill.Cain@winchesterva.gov](mailto:Bill.Cain@winchesterva.gov)



### **1.3. Stormwater Pollution Prevention Team**

<b>Staff Names</b>	<b>Individual Responsibilities</b>
Robert Garrett	Grounds Maintenance Supervisor – Responsible for day-to-day operations of Park Maintenance Building and continuous monitoring to ensure compliance with SWPPP. Also responsible for participating in inspections and water quality monitoring.
Kelly Henshaw	City Engineer – Responsible for overseeing City's storm water management program enforcing local regulations and ensuring compliance with state and federal regulations. City Engineer will also participate in quarterly and annual inspections as well as visual and benchmark monitoring.
Yen Doan	Stormwater Engineer – Responsible for updating SWPPP for new term of Industrial Storm Water General Permit. Also responsible for assisting City Engineer in ensuring City compliance with state and federal storm water regulations. Engineer will participate in quarterly and annual inspections as well as visual and benchmark monitoring.

### **1.4. Site Description**

The parks maintenance building area is located at the southwestern corner of Jim Barnett Park and borders Interstate 81 to the east. It is used for the storage and maintenance of a variety of grounds keeping equipment and vehicles. It also serves as a storage area for various chemicals, paints, fuels, and other potential pollutants used for park maintenance. In general, materials are stored indoors, and machinery is stored outdoors with no cover. Maintenance also generally occurs indoors.

### **1.5. Activities at the Facility**

- **Vehicle Storage Area.** Vehicles are stored in the gravel lot outside the chain link fence on the north side of the property. Vehicles are primarily maintained within the covered bays.
- **Material Storage.** Material is mostly stored in the bay area on the west side of the Parks Maintenance Building. Heavy equipment is stored along the east side of the building.
- **Fueling Station.** The fueling station for city vehicles is located on the Park Maintenance Building site. The fueling area sits atop a concrete pad on the east side of the building site.
- **Maintenance.** General maintenance is performed on vehicles and equipment primarily stored on site near the bays to the west side of the property.
- **Salt/De-icing Chemicals Storage.** Salt and other de-icing chemicals are stored in bags under cover.

### **1.6. General Location Map**

A general location map for this facility is included in Attachment A.

### **1.7. Site Map**

A site map for this facility is included in Attachment B.

**SECTION 2. POTENTIAL POLLUTANT SOURCES**

**2.1. Industrial Activity and Associated Pollutants**

Industrial Activity	Associated Pollutants
Vehicle Storage Area	Motor oil, anti-freeze, hydraulic fluid, hydrocarbons
Material Storage	Fertilizer, salt, deicer, herbicide, pesticide, paint
Fueling Facility	Hydrocarbons
Maintenance	Hydrocarbons, motor oil, anti-freeze, hydraulic fluid
Salt/De-Icing Chemical Storage	Sodium Chloride

**2.2. Spills and Leaks**

**Areas of Site Where Potential Spills/Leaks Could Occur**

Location	Outfalls
Vehicle Storage Area	Outfall #1
Material Storage	Outfall #1
Fueling Facility	Outfall #1
Maintenance	Outfall #2
Salt/De-Icing Chemical Storage	Outfall #1

**Description of Past Spills/Leaks**

Date	Description	Outfalls
	None	

### **2.3. Non-Stormwater Discharges Documentation**

- **Date of evaluation:**  
*10/01/2021*
- Description of the evaluation criteria used:  
*A walking site visit was conducted during business hours to look for any authorized and unauthorized non-stormwater discharges.*
- List of the outfalls or onsite drainage points that were directly observed during the evaluation:  
*No non-stormwater discharges were observed.*
- Different types of non-stormwater discharge(s) and source locations:  
*None.*
- Action(s) taken, such as a list of control measures used to eliminate unauthorized discharge(s), if any were identified. (For example, a floor drain was sealed, a sink drain was re-routed to sanitary, or an NPDES permit application was submitted for an unauthorized cooling water discharge):  
*None.*

- **Date of evaluation:**  
*8/24/2021*
- Description of the evaluation criteria used:  
*A technical inspection was performed by Megan O’Gorek of the Virginia DEQ.*
- List of the outfalls or onsite drainage points that were directly observed during the evaluation:  
*Evidence of past drainage was noted on the slope behind the fire hydrant.*
- Different types of non-stormwater discharge(s) and source locations:  
*Oil container was actively leaking fluid onto the gravel lot.*
- Action(s) taken, such as a list of control measures used to eliminate unauthorized discharge(s), if any were identified. (For example, a floor drain was sealed, a sink drain was re-routed to sanitary, or an NPDES permit application was submitted for an unauthorized cooling water discharge):  
*Removed oil container and contaminated gravel for proper disposal.*

### **2.4. Salt Storage**

- *Salt and other de-icing chemicals are stored in bags under cover.*

### **2.5. Sampling Data Summary**

No stormwater sampling is required for the site.

### **SECTION 3. STORMWATER CONTROL MEASURES**

#### **3.1. Minimize Exposure**

- Vehicle Storage Area. Vehicles are stored in the gravel lot outside the chain link fence on the north side of the property. Vehicles are primarily maintained within the covered bays.
- Material Storage. Material is mostly stored in the bay area on the west side of the Parks Maintenance Building. Heavy equipment is stored along the east side of the building.
- Fueling Station. The fueling area sits atop a concrete pad under a permanent canopy structure on the east side of the building site.
- Maintenance and Storage. General vehicular maintenance is performed on vehicles and equipment primarily stored on site in the bays to the west side of the property. All vehicle maintenance takes place inside the garage buildings. Used motor oil is stored in a 275-gallon tank and used antifreeze is stored in a similar 200-gallon tank. Both tanks are above ground tanks surrounded by secondary containment areas. Both tanks are covered to minimize the amount of stormwater that might enter the containment areas.
- Salt Storage. Salt and other de-icing chemicals are stored in bags under cover.

#### **3.2. Good Housekeeping**

- Trash generated on-site is collected and in a lidded dumpster and collected weekly.
- Waste oil and antifreeze tanks are inspected for leaks and spills after each use.
- Used batteries are stored inside and collected as needed for recycling by the battery vendor.
- The general condition of the site shall be inspected monthly.

#### **3.3. Maintenance**

- Vehicles stored are to be given regular maintenance and inspected regularly for any fluid leaks.
- Floor drains in the garages are to be kept clear and always functioning to prevent fluids from leaving the buildings.

- Waste oil and antifreeze storage tanks are to be emptied monthly, or as needed, to prevent overflowing. Containment areas around the tanks is to be monitored and cleaned out if fluids are present.
- Storm drain structures on site are to be inspected regularly after rain events and kept clear of debris which could cause stormwater bypass.

### **3.4. Spill Prevention and Response**

#### **Prevention**

- Plainly label containers (e.g., “Used Oil,” “Spent Solvents,” “Fertilizers and Pesticides”) that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if spills or leaks occur.
- Implement procedures for material storage and handling, including the use of secondary containment and barriers between material storage and traffic areas, or a similarly effective means designed to prevent the discharge of pollutants from these areas.
- Develop training and train all staff on procedures to quickly stop, contain and clean up leaks, spills, and other releases. As appropriate, execute such procedures as soon as possible.
- Keep spill kits on-site, located near areas where spills may occur or where a rapid response can be made.
- Notify appropriate facility personnel listed in this document when a leak, spill or other release occurs.
- The used oil and antifreeze tanks are labeled with their contents, and each is surrounded by a secondary containment area.

#### **Response**

- Dry cleanup methods are used; absorbents such as “Stay-Dri” are applied to spills. After the spill has been absorbed, the absorbent is swept up and placed in a storage drum to be recycled.
- In the event a spill occurs and sewage, industrial waste, other wastes or any noxious or deleterious substance discharges into or upon state waters in violation of Part II F; or a discharge may reasonably be expected to enter state waters in violation of Part II F, notify the Virginia DEQ of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the department within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge
2. The cause of the discharge
3. The date on which the discharge occurred
4. The length of time that the discharge continued
5. The volume of the discharge
6. If the discharge is continuing, how long it is expected to continue
7. If the discharge is continuing, what the expected total volume of the discharge will be
8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this Permit

Discharges reportable to the department under the immediate reporting requirements of other regulations are exempted from this requirement.

Contacts:

DEQ Valley Regional Office  
Pollution Response Coordinator – Nonna Good  
(540) 574-7860 or (540) 574-7800

Virginia Department of Emergency Management  
1-800-468-8892

### **3.5. Erosion and Sediment Controls**

All areas of the site are stabilized, and no further land disturbance activities are anticipated. If any construction occurs on site, erosion and sediment controls will be reviewed as part of the site plan approval process and implemented in accordance with the Virginia Erosion and Sediment Control Handbook.

### **3.6. Management of Runoff**

The site generally drains from north to south. Stormwater runoff from upland areas is directed around the site via a combination of swales, pipes, and inlets located on the eastern and western portions of the site. These systems convey upland runoff around the site and release it into below the site into a natural area where the discharges follow the natural terrain. Stormwater runoff from the developed areas follow predevelopment contours, where sheet flow is promoted to, again, the unimproved areas south of the developed site.

### **3.7. Salt Storage Piles or Piles Containing Salt**

Salt and de-icing material is currently stored in the main building in individual bags. Any salt that is spilled while material is being handled is swept up into original bags.

### **3.8. Employee Training**

Designated Winchester City employees, including those who work at Parks Maintenance Building, are required to attend Stormwater Training every 2 years including:

- Day-to-day operation awareness which may cause environmental impact
- Compliance with all applicable Federal, State and Local environmental laws
- Training on safe handling, use and disposal of waste and materials in an environmentally sensitive manner
- Regular reassessment of operation site and procedures to reduce or eliminate adverse impacts
- Illicit discharge and detection elimination training to recognize, assess and control all hazards

### **3.9. Non-Stormwater Discharges**

See Section 2.3 of this document.

### **3.10. Waste, Garbage and Floatable Debris**

The site will be visually inspected on a continuous basis for any waste, garbage, or floatable debris. Covered trash containers are available throughout the site to deposit any waste that is generated.

### **3.11. Dust Generation and Vehicle Tracking of Industrial Materials**

The gravel areas of the site are currently stable with low levels of dust. If dust becomes a problem, the gravel areas shall be sprayed with water or other approved non-toxic dust control material.



#### **SECTION 4. SCHEDULES AND PROCEDURES FOR MONITORING**

For benchmark monitoring:

No benchmark monitoring is required for this site.

For quarterly visual monitoring:

Routine facility inspections should be conducted at least quarterly and at least one inspection per year while runoff is discharging from site.

#### **SECTION 5. INSPECTIONS**

For the routine facility inspections to be performed:

- The names of the person(s), or the positions of the person(s), responsible for inspection: Grounds Maintenance Manager, Grounds Supervisor, City Engineer, and Stormwater Engineer
- Schedule: Routine facility inspections shall be conducted at least quarterly. At least one routine facility inspection per year should occur while runoff is discharging from the site.
- Specific areas of the facility to be inspected, including schedules for specific outfalls: Inspections must include all areas where industrial materials or activities are exposed to stormwater as identified in Sections 2.1 and 2.2 of this document. The following areas shall be included in all inspections:
  - ✓ Vehicle Storage Area
  - ✓ Material and Equipment Storage Area
  - ✓ Fueling Station
  - ✓ Maintenance Area
  - ✓ Salt and De-Icing Chemical Storage
- Scope: Ensure compliance with SWPPP in each area noted above.
- Non-Compliance: Any instances of non-compliance shall be brought into compliance within fourteen (14) days of the inspection. If the infraction cannot be brought into compliance within that time, the reason must be documented in the SWPPP, and it must be brought into compliance as soon as possible.

For the comprehensive site inspections to be performed:

- The names of the person(s), or the positions of the person(s), responsible for inspection: Grounds Maintenance Manager, Grounds Supervisor, City Engineer, and Stormwater Engineer

- The schedules to be used for conducting inspections: Comprehensive site inspections shall be conducted at least once per year.
- Specific areas of the facility to be inspected, including schedules for specific outfalls: Inspections must include all areas where industrial materials or activities are exposed to stormwater as identified in Sections 2.1 and 2.2 of this document. The following areas shall be included in all inspections:
- The following items shall be inspected:
  - ✓ Vehicle Storage Area
  - ✓ Material and Equipment Storage Area
  - ✓ Fueling Station
  - ✓ Maintenance Area
  - ✓ Salt and De-Icing Chemical Storage

**SECTION 6. SWPPP 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.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

## **SECTION 7. SWPPP MODIFICATIONS**

### **Instructions (see 2008 MSGP Part 5.2):**

- This SWPPP is a “living” document and is required to be modified and updated, as necessary, in response to corrective actions.
  - If you need to modify the SWPPP in response to a corrective action required by Part I A.5. of the GPDIA, then the certification statement in section 6 of this SWPPP template must be re-signed in accordance with Part II K. of the GPDIA.
  - For any other SWPPP modification, you should keep a log with a description of the modification, the name of the person making it, and the date and signature of that person. See GPDIA Part III F.1.

## **SWPPP APPENDICES**

*Appendix A – General Location Map*

*Appendix B – Site Map*

*Appendix C –Routine Facility Inspection Form*

***Appendix A***  
***General Location Map***



**CITY OF WINCHESTER**  
**VIRGINIA**  
 PUBLIC SERVICES DEPARTMENT  
 15 N. CAMDEN STREET  
 WINCHESTER, VA 23001  
 PHONE: 540-667-3815  
 FAX: 540-662-3351

**PARKS MAINTENANCE BUILDING  
 LOCATION MAP**

SCALE: DATE:  
 1"=500' 6/30/17

SHEET 1 OF 1

***Appendix B***

***Site Map***





***Appendix C***  
***Routine Facility Inspection Form***

## Routine Facility Inspection Form – should be updated for specific areas at PMB

Date of  
Inspection: \_\_\_\_\_

Time: \_\_\_\_\_

Inspectors: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Vehicle Storage Areas

Is area in full compliance with SWPPP?  Yes  
 No

If no, list instances of non-compliance: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Inspector Initials: \_\_\_\_\_

### Fueling Area

Is area in full compliance with SWPPP?  Yes  
 No

If no, list instances of non-compliance: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Inspector Initials: \_\_\_\_\_

### Salt Barn

Is area in full compliance with SWPPP?  Yes  
 No

If no, list instances of non-compliance: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Inspector Initials:

**Waste Oil / Antifreeze Tanks**

Is area in full compliance with SWPPP?  Yes  
 No

If no, list instances of non-compliance:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Inspector Initials:

**Mulch / Waste Storage Area**

Is area in full compliance with SWPPP?  Yes  
 No

If no, list instances of non-compliance:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Inspector Initials:



1001 Boulders Parkway P 804.200.6500  
Suite 300 F 804.560.1016  
Richmond, VA 23225 [www.timmons.com](http://www.timmons.com)

# Nutrient Management Plan

## Friendship Park

Prepared For:

Tommy Lambert  
City of Winchester  
Rouss City Hall, 15 N. Cameron Street  
Winchester, VA 22601  
540-667-1815

Prepared By:

Parker Osterloh, Timmons Group  
1001 Boulders Parkway, Suite 300  
Richmond, VA 23225  
804-200-6457  
Certification Code: #920  
Total Managed Area Acreage: 1.2

The purpose of this Nutrient Management Plan is to ensure minimum movement of Nitrogen and phosphorous from the specified area of application to surface and groundwaters where they can potentially have a detrimental effect on water quality as well as ensuring plants have optimum soil nutrient availability for maximum productivity and quality. By following this soil test based plan you are helping to protect waters of the Chesapeake Bay.

If you have any questions, please contact your plan writer, local Virginia Cooperative Extension Agent, or the Department of Conservation and Recreation Nutrient Management Program.

CIVIL ENGINEERING | ENVIRONMENTAL | SURVEYING | GIS | LANDSCAPE ARCHITECTURE | CONSTRUCTION SERVICES

## Appendix 8. Updated Nutrient Management Plan

Frederick-Winchester Service Authority

PO Box 43  
Winchester, VA 22604

# Invoice

Date	Invoice #
2/10/2021	2673

<b>Bill To</b>
City of Winchester Department of Public Utilities P.O. Box 75 Winchester, VA 22604

<b>Ship To</b>

P.O. Number	Terms	Rep	Ship	Via	F.O.B.	Project
	NET 30 DAYS		2/10/2021			
Quantity	Item Code	Description			Price Each	Amount
50	Nutrient Exchange-...	NITROGEN CREDITS PURCHASED			3.86	193.00
					<b>Total</b>	\$193.00

**Appendix 9. Nutrient Credit Purchase Invoice and Annual Water Quality Credit Transfer Form**