

Virginia State University
MS-4 Permit: VAR040119
July 1, 2019 - June 30, 2020 Annual Report



Prepared for
Virginia State University
Capital Outlay & Facilities Management
PO Box 9414
Virginia State University, VA 23806

September 21, 2020

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- MCM 1: Connection Weekly Email and Rock Salt Blog Post
Stormwater Awareness Email and Fact Sheet
Stream Restoration Awareness Email
VSU Annual Standards and Specifications for ESC Notification

- MCM 2: Fall Service Event Documentation
Tree Campus USA Program Documentation
Classroom Guest Speakers Documentation
Spring Service Event Documentation

- MCM 3: Stormwater Outfall Inspections

- MCM 4: ESC Inspections
ESC Enforcements

- MCM 5: BMP Maintenance
BMP Inspection

- MCM 6: Staff Training Documentation

- SC: Special Conditions Progress Documentation



Acronyms

AS&S	Annual Standards & Specifications
BMP	Best Management Practice
DEQ	Virginia Department of Environmental Quality
E3	Exemplary Environmental Enterprise
ESC	Erosion and Sediment Control
IDDE	Illicit Discharge Detection and Elimination
MCM	Minimum Control Measure
MPC	Multi-Purpose Center
MS4	Municipal Separate Storm Sewer System
N	Nitrogen
NMP	Nutrient Management Plan
P	Phosphorus
PCB	Polychlorinated biphenyls
POC	Pollutant of Concern
SOP	Standard Operating Procedure
SWM	Stormwater Management
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
TSS	Total Suspended Solids
VPDES	Virginia Pollutant Discharge Elimination System
VSU	Virginia State University
WLA	Wasteload Allocation



Section 1 Background Information

Part 1.D.2: Permittee, system name, and permit number; reporting period; signed certification in accordance with Part III K; each annual reporting item; an evaluation of the MS4 program implementation.

- *Permittee and permit number:* Virginia State University, Permit # VAR040119
- *Reporting period:* Year two of the 2018-2023 cycle (July 1, 2019 – June 30, 2020).
- *Signed certification in accordance with 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.



Jonathan Taylor
Director for Capital Outlay

9.22.2020
Date

- *Each annual reporting item:* See the subsequent sections of this report.
- *Evaluation of the MS4 program implementation:* See Section 2.1 of this report.

For questions regarding this Annual Report or VSU's MS4 Program Plan, please contact:

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Section 2 Minimum Control Measures

Each Minimum Control Measure is described in the following sections.

2.1 MCM 1: Public Education and Outreach

Part I.E.g.1: List the high-priority stormwater issues addressed in the public education and outreach program.

See Table 1, below.

Part I.E.g.2: List of the strategies used to communicate each high-priority issue.

The strategies are listed in Table 1, below. See Appendix MCM 1 for documentation.

Table 1 - High Priority Stormwater Issues

High-Priority Stormwater Issue	Strategy to Communicate Issue	Implementation of Strategy
Land and Vegetation Management	Media materials	Connection Weekly (College of Agriculture Newsletter), Rock Salt blog post (Virginia Cooperative Extension) Email to contractors regarding VSU's Annual Standards and Specifications
General Stormwater Awareness	Permanent signage and media materials	Maintain educational sign at MPC stormwater management facility Stream restoration informational email.
Dumpster and Litter Management	Media materials	Stormwater fact sheet email

Part I.D.2.e: Provide a review of each MCM to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary.

The selected high-priority stormwater issues and the planned implementation strategies for MCM 1 are effective because they reach the intended audience and communicate the intended messages. Changes to VSU's MS4 Program Plan are not necessary at this time.

2.2 MCM 2: Public Involvement and Participation

Part I.E.2.f.1: A summary of any public input on the MS4 program received (including stormwater complaints) and how VSU responded.

VSU did not receive any public input on the MS4 program during the reporting period.

Part I.E.2.f.2: A webpage address to the permittee's MS4 program and stormwater website.



The website address is:

<http://www.vsu.edu/capital-outlay/programs-resources-procedures.php>

Part E.2.f.3: A description of the public involvement activities.

VSU identified and participated in the following four local events/activities to address public involvement with stormwater and environmental activities:

1. Fall Service Day Event
VSU held a Fall Service Day Event (Tree Campus USA Service Activity) on September 11, 2019. The service day included a service activity for students, faculty, and guests where proper maintenance of Filtreras was demonstrated. Participants also learned about water quality and the value of the trees on campus.
2. Spring Service Day Event
VSU had planned a Spring Environmental Service Event but it was canceled due to COVID-19 precautions. In lieu of this event, VSU organized a virtual event that included filming and publishing educational videos about the benefits of the stream restoration project under construction at that time, their Tree Campus USA certification, and their E3 designation.
 - a) Stream Restoration:
<https://www.youtube.com/watch?v=bRg5yVHKAKM&feature=youtu.be>
 - b) Tree Campus USA Certification:
<https://www.youtube.com/watch?v=fXF4BXjIKcI&feature=youtu.be>
 - c) Facilities E3 Designation:
<https://www.youtube.com/watch?v=CzPzq7lpDtE&feature=youtu.be>
3. Tree Campus USA Advisory Committee
The Tree Campus USA Advisory Committee held several meetings throughout the reporting period to discuss planning of Environmental Service Days and to work to maintain the Tree Campus USA designation, as well as other related topics.
4. Classroom Guest Presentations
Timmons Group gave one presentation regarding the University's MS4 program and stormwater management on March 11th. A second presentation was scheduled on March 15th but was cancelled due to COVID-19 precautions.

Part I.E.2.f.4: A report on the metric as defined for each activity and an evaluation as to whether the activity is beneficial to improving water quality.



1. Fall Service Day Event:
Approximately 120 students, faculty, staff, and guests attended the service day. This event was beneficial to improving water quality by educating participants on the purpose of stormwater management facilities and on the benefits of trees.
2. Spring Service Day Event:
This event was held virtually. More than twenty individuals participated in planning, filming, and producing the three service event videos. These videos have since been shared on many different social media platforms and have been viewed more than 300 times on YouTube. This event was beneficial to improving water quality because viewers learned about the activities VSU does to improve water quality.
3. Tree Campus USA Advisory Committee
At least four meetings were held over the course of the reporting period. Each meeting was attended by about six to twelve people. These events are beneficial to improving water quality because it gives stakeholders the opportunity to meet together and help ensure that VSU continues to maintain its commitment to improving water quality and to plan for future activities that will improve water quality. Additionally, these meetings often included individuals from neighboring organizations with similar goals to improve water quality.
4. Classroom Guest Presentations
Approximately 25 of students were reached during the presentation. These activities were beneficial to improving water quality because they gave the participants an opportunity to learn about stormwater management and how individuals can directly improve water quality within their MS4.

Part E.2.f.5: *The name of other MS4 permittees with whom VSU collaborated with.*

VSU collaborated with the City of Petersburg to pursue construction Phase 2 of the Fleet's Branch Stream Restoration project on VSU's campus. Additionally, VSU also collaborated with several individuals as part of the Tree Campus USA meetings. See Appendix MCM 2 for documentation.

Part I.D.2.e: *Provide a review of each MCM to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary.*

The public involvement opportunities are considered effective due to the number of staff, faculty, and students that participate and due to each event's relevant messages on how individuals can improve water quality. However, due to the setbacks experienced following the COVID-19 crisis towards the end of this permit cycle (and



school year), VSU may opt to revise the MS4 Program Plan to select alternative virtual events that will meet the goals of this MCM until staff, faculty, and students return to campus.

2.3 MCM 3: Illicit Discharge Detection and Elimination

Part I.E.3.e.1: A confirmation statement that the MS4 outfall map and information table have been updated.

No updates were required to the MS4 outfall map or information table during this reporting year.

Part I.E.3.e.2: The total number of outfalls screened during the reporting period.

20 outfalls were screened during the reporting period. This represents 100% of VSU's total MS4 outfalls. See Appendix MCM3 for documentation.

Part I.E.3.e.3: A list of illicit discharges with information on: the source; the date the discharge was observed, reported, or both; whether the discharge was discovered during dry weather screening, reported by the public, or other method; how the investigation was resolved; a description of any follow-up activities; and the date the investigation was closed.

No illicit discharges were reported during the reporting period.

Part I.D.2.e: Provide a review of each MCM to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary.

This MCM is considered to effective and no changes to the MS4 Program Plan are necessary.

2.4 MCM 4: Construction Site Stormwater Runoff Control

Part I.E.4.d.1.a: A confirmation statement that land disturbing projects that occurred during the reporting period have been conducted in accordance with the current department approved standards and specifications for erosion and sediment control.

Two land disturbing projects occurred under the VSU's General Permit coverage for Discharges of Stormwater from Construction Activities within the reporting period. Each of these land disturbing projects were conducted in accordance with VSU's current department approved Annual Standards and Specifications for ESC.

Part I.E.4.d.1.b: If one or more of the land disturbing projects were not conducted with the department approved standards and specifications, an explanation as to why they did not.



All land disturbing projects were conducted with VSU's approved Annual Standards and Specifications for ESC.

Part I.E.4.d.2: Total number of construction site stormwater runoff control inspections conducted

Fifty-four inspections were conducted within this reporting period. See Appendix MCM 4 for documentation.

Part I.E.4.d.3: Total number and type of enforcement actions taken.

One notice to comply enforcement action was taken for damaged silt fence. See Appendix MCM 4.

Part I.D.2.e: Provide a review of each MCM to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary.

This MCM is considered to be effective as VSU's Annual Standards and Specifications are approved by DEQ. However, VSU may update the Annual Standards and Specifications as needed to improve their readability.

2.5 MCM 5: Post Construction Stormwater Management

Part I.E.5.i.2: Total number of inspections conducted on SWM facilities owned or operated by VSU.

Forty-eight inspections were conducted on SWM facilities owned or operated by VSU.

Part I.E.5.i.3: Description of the significant maintenance, repair, or retrofit activities performed on the SWM facilities.

Significant maintenance or repair performed on VSU's SWM facilities during the reporting year is presented in Table 2, on the following page.



Table 2 - SWM Facility Maintenance Summary

ID	Type	Inspection Date	Maintenance Summary
01	Filtterra (roof)	3/3/2020	Mulch was removed and replaced
02	Filtterra (roof)	3/3/2020	Mulch was removed and replaced
03	Filtterra (roof)	3/3/2020	Mulch was removed and replaced
04	Filtterra (roof)	3/3/2020	Mulch was removed and replaced
05	Filtterra (roof)	3/3/2020	Mulch was removed and replaced
06	Filtterra (roof)	3/5/2020	Mulch was removed and replaced
07	Filtterra (inlet)	3/3/2020	Mulch was removed and replaced. Tree was replaced
08	Filtterra (inlet)	3/3/2020	Mulch was removed and replaced
09	Filtterra (inlet)	3/3/2020	Mulch was removed and replaced
10	Filtterra (inlet)	3/3/2020	Mulch was removed and replaced
11	Filtterra (inlet)	3/3/2020	Mulch was removed and replaced
12	Filtterra (inlet)	3/3/2020	Mulch was removed and replaced
13	Filtterra (inlet)	3/3/2020	Mulch was removed and replaced
15	Underground Detention	3/6/2020	Trash was removed, one load of sediment was removed, and the low flow orifice was cleared.
16	Filtterra (roof)	3/5/2020	Mulch was removed and replaced
17	Filtterra (roof)	3/5/2020	Mulch was removed and replaced
18	Filtterra (roof)	3/5/2020	Mulch was removed and replaced
19	Filtterra (roof)	3/5/2020	Mulch was removed and replaced. Tree was replaced
20	Filtterra (roof)	3/5/2020	Mulch was removed and replaced
21	Filtterra (roof)	3/5/2020	Mulch was removed and replaced
27	Sand Filter	3/9/2020	Sediment was removed in pretreatment chambers
31	Sand Filter	3/13/2020	Sediment chamber has been fully cleaned out and about half the sediment was removed from the sand filter. Trash was removed.
35	Stormfilter	3/10/2020	Unit was power washed, and sediment was removed
36	Rain Tank	3/6/2020	Inlet tops covered with a screen to keep mulch and debris from washing into unit
41	Filtterra (inlet)	3/5/2020	Mulch was removed and replaced
42	Filtterra (inlet)	3/5/2020	Mulch was removed and replaced
43	Filtterra (inlet)	3/5/2020	Mulch was removed and replaced
44	Filtterra (inlet)	3/3/2020	Mulch was removed and replaced
46	Wet Pond	3/16/2020	Vegetation was cleared 10ft on either side of inlets and outlets. All eroded areas were repaired.

Part I.E.5.i.4: A confirmation statement that VSU submitted stormwater management facility information through the Virginia Construction Stormwater General Permit database for land disturbing activities required to obtain coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities or a statement that no such projects were completed.

VSU did not complete any projects requiring coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities. The Fleet’s Branch Stream Restoration project was in progress during this reporting year, but it was not completed.

Part I.E.5.i.5: A confirmation statement that VSU reported BMPs using the DEQ BMP Warehouse and the date on which the information was submitted.



No new BMPs were constructed during the reporting period. One BMP is under construction at the time of this report.

Part I.D.2.e: Provide a review of each MCM to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary.

This MCM is considered to effective as VSU is working with several partners to inspect and maintain SWM Facilities and ensure they continue to provide their intended water quality benefits as defined.

2.6 MCM 6: Pollution Prevention and Good Housekeeping

Part I.E.6.q.1: A summary of any operational procedures developed or modified.

No operational procedures were developed or modified during the reporting period.

Part I.E.6.q.2: A summary of any new SWPPPs developed.

No new SWPPPs were developed during the reporting period.

Part I.E.6.q.3: A summary of any SWPPPs modified after an unauthorized discharge or any high priority facilities that have been delisted.

No SWPPPs were modified after an unauthorized discharge and no high priority facilities have been delisted during the reporting period.

Part I.E.6.q.4: A summary of any new turf and landscape nutrient management plans developed that includes the location and total acreage of each land area and the date of each approved plan.

No new turf and landscape NMPs were developed during this reporting period.

Part I.E.6.q.5: A list of training events including the training date, the number of employees who attended the training, and the objective of the training.

Spill Prevention Training was conducted in April 2020 with five employees. This training was conducted remotely per COVID 19 precautions. The purpose of the training was to educate employees on how to prevent and clean up discharges from above ground storage tanks but the training also covered good housekeeping practices including how to properly dispose of waste. See Appendix MCM 6 for documentation.



Part I.D.2.e: Provide a review of each MCM to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary.

This MCM is considered to be effective as VSU has not had any significant spills or contamination events on campus. No changes to the MS4 Program Plan are necessary.

Section 3 Summary of Changes to Program Plan

Part I.C.4: Summarize revisions to the MS4 Program Plan.

There were no significant changes made to VSU's MS4 Program Plan during this reporting period. Some formatting changes were made for clarity and the following changes were also made:

- 1) The applicable permit requirements were added.
- 2) The responsible parties were more clearly defined and stated.
- 3) Measurable goals were more clearly defined and stated.
- 4) The SWM Facility inspection and maintenance procedures were updated to provide different schedules for Filterras with curb inlets than Filterras with roof drain inlets.

Section 4 Government Reliance for Permit Obligations

VSU does not rely on any other government entity to satisfy any permit obligations.

Section 5 TMDL Special Conditions Contained in Part II

Permit Requirement Part I.D.4: Provide a status report on the implementation of the Chesapeake Bay TMDL action plan or local TMDL action plans and any revisions.

5.1 Status Report

VSU is currently constructing a portion of the Fleet's Branch Stream Restoration BMP as described in the Chesapeake Bay TMDL Action Plan. This plan for this BMP was prepared and approved in 2019.

The Fleet's Branch Stream Restoration plan was split into two parts for bidding and construction sequencing purposes. The upstream area (Station 0+00 to Station 10+00) has been identified as the Base Bid Phase and is currently under construction. The downstream area (Stations 10+00 to Station 20+00) has been identified as the Bid Additive Phase and is intended to be constructed as a future partnership project with the City of Petersburg.

5.1.1 BMPs implemented during the reporting period

No BMPs were implemented during this reporting period. However, significant progress was made in the construction of the Base Bid Phase of the Fleet's Branch Stream Restoration project. See documentation in Appendix MC4 and Appendix SC.



5.1.2 BMPs expected to be implemented during the next reporting period

The Fleet's Branch Stream Restoration BMP is expected to be implemented during the next reporting period.

5.1.3 Progress toward meeting compliance targets

VSU will have achieved 100% of all compliance targets once construction on the Fleet's Branch Stream Restoration project is complete.

5.2 Local TMDL Action Plans

VSU does not have any local TMDL Action Plans. VSU discharges to the Appomattox River which does have a local TMDL for PCBs. However, VSU has not been assigned any TMDL WLAs for PCB.

Appendix MCM 1

From: VSU Agriculture & Extension <agrelations@vsucoa.ccsend.com> on behalf of VSU Agriculture & Extension <agriculturerelations@vsu.edu>
Sent: Monday, January 27, 2020 10:01 AM
To: Matthew Webb
Subject: Connection Weekly | January 27, 2020

January 27, 2020

[View as Webpage](#)

Virginia State University College of Agriculture

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WEEKLY

Checklist For Beginning Small Farmers



Thinking about starting a small farming operation? Virginia State University Small Farm Outreach Program agriculture management agent, [Vernon L. Heath](#), has developed an easy-to-use [checklist](#) to get you started. It provides essential information in a step-by-step guide to assist

want-to-be Virginia farmers through the initial, critical decision-making process. The Virginia Cooperative Extension document is a result of Heath's work with beginning small farmers for more than a decade. According to Heath, "It is our hope that if you take the necessary time to go through the checklist thoughtfully, you will surely be prepared to begin a successful farm business." [Read the checklist.](#)

Rock Salt Can Make Winter Rough On Plants And Trees



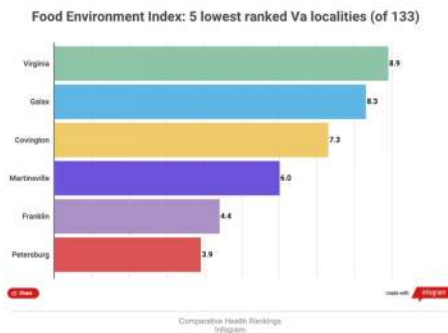
There's no question that road salt saves human lives on snowy and icy roads, but the hidden damage it does to plants, soil and trees can be deadly. "Deicing solutions make travel easier for drivers and pedestrians, but they can wreck havoc on vegetation and soil," says [Joel Koci](#), associate Extension specialist in urban

forestry at the Virginia Cooperative Extension at Virginia State University.

To reduce the adverse effects of deicing solutions, some preventative measures can be taken, Koci says. [Read more.](#)

Petersburg Groups Fight Food Insecurity In The City

By Sean Jones, excerpted from *The Progress-Index*, Dec. 10, 2019



Petersburg was awarded a five-year \$2.5 million grant in 2019 to investigate the city's health problems and find solutions. [\[The Petersburg Healthy Options Partnership \(HOPs\)\]](#)...made up of researchers from Virginia Tech, Virginia State University and the Virginia Cooperative Extension, is the group executing that grant.

"Although Petersburg is surrounded by cities with healthy food options, Walmart and Food Lion are the only major chain grocery stores available to its residents," said Dr. Morgan L. Maxwell, Project Manager for HOPs. "However, both (stores) are situated on the same street and are not easily accessible." [Read the article.](#) [Learn more about HOPs.](#)



[Click here to view our Calendar of Events of upcoming educational workshops and programs.](#)



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Rock Salt Can Make Winter Rough on Plants and Trees

ext.vsu.edu/blog/rock-salt-damages-trees

January 9,
2020



Road covered in rock salt during a snow storm.

Damage from Rock Salt Can Be Lasting

There's no question that road salt saves human lives on snowy and icy roads, but the hidden damage it does to plants, soil and trees can be deadly.

Within the U.S. it is estimated that 22 million tons of deicing solution is applied annually to impervious surfaces – roadways, walkways and parking areas.

“Deicing solutions make travel easier for drivers and pedestrians, but they can wreck havoc on vegetation and soil,” says [Joel Koci](#), associate Extension specialist in urban forestry at the Virginia Cooperative Extension at Virginia State University.

The most commonly used compound is sodium chloride (NaCl), which is normally applied after a weather event. It is the least costly, most available compound for treating impervious surfaces. Brine is another form of sodium chloride, which is applied before a weather event. Both of these methods help keep roadways and walkways safer. However, they have adverse effects on adjacent vegetation and soils, especially along waterways.

Sodium salt toxicity to plants is not new, Koci says. In earlier times, warring countries used sodium chloride to poison their opponents' crops. It was lethal then, but today it creates even more environmental concerns because more of the chemical is used, as urban populations increase. The more people, the more impervious surfaces that need to be treated during snow and ice storms.

The salt spray can cause aerial and root damage along with acute (immediate) and /or chronic damage. Acute damage will show itself, the same season, as burnt (browning) patches on plants and vegetation and dried out buds on deciduous trees, resulting in stunted growth and likely infestation from pathogens. The chronic effects are more difficult to see because they involve soil and roots, and, therefore, show their effects later in the season.

To reduce the adverse effects of deicing solutions some preventative measures can be taken, Koci says.

One way to reduce the application of deicing material is to remove the snow first down to the paved surface. By removing the snow first less deicing solution is needed. Then use a grit material, such as sand, to increase traction. The sand can reduce the flow of pollutants into the waterways and into plant root zones. At the end of the winter the sand can be reclaimed and reused.

Another preventive measure is to use non-sodium products, Koci says. These include calcium chloride and calcium magnesium acetate (CMA). These materials are more costly than sodium chloride, but when the reduced damage to plants is considered, they may be more economical. Other preventive measures include:

- Using salt-tolerant plants near impervious areas
- Increasing permeability of the soil to increase plant health and root depth
- Flushing soil with water to dilute the concentration of salts
- Erecting temporary barriers to reduce spray of salt into planting beds from traffic

These methods may seem cumbersome, but saving the installed plants is more economical and less labor intensive in the long run. In our "built environment," Koci notes, we need to understand how to maintain our plants so they can continue to supply the

many and varied benefits they are capable of.

Madeline Manning

From: Matthew Webb
Sent: Monday, February 17, 2020 1:57 PM
To: Madeline Manning
Subject: FW: Water Quality and VSU
Attachments: Stormwater Fact Sheet.pdf

From: Jane S. Harris <jsharris@vsu.edu>
Sent: Sunday, January 26, 2020 1:56 PM
To: All Seniors <All_Seniors@vsu.edu>; All Juniors <junior@students.vsu.edu>; All Sophomores <sophomore@students.vsu.edu>; All Freshmen <freshmen@students.vsu.edu>; AllGraduateStudents <AllGraduateStudents@vsu.edu>; Faculty <Faculty@vsu.edu>; Staff <Staff@vsu.edu>
Cc: Matthew Webb <Matthew.Webb@timmons.com>; Aislinn Creel <Aislinn.Creel@timmons.com>
Subject: Water Quality and VSU

Did you know that Virginia State University owns and operates a network of storm water inlets, pipes, ditches, and storm water management ponds that is known as a Municipal Separate Storm Sewer System (MS4)? It is designed to keep Virginia's waterways clean and free of pollutants. The attached fact sheet shows you how you can help minimize water pollution and keep VSU's water clean and beautiful.

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MINIMIZING STORMWATER POLLUTION

Stormwater is water from rain or melting snow that does not soak into the ground but runs off into waterways. It flows from rooftops, bare soil and paved areas and lawns. It picks up a variety of contaminants (pet waste, fertilizers, oil, grease) along the way. These enter our lakes, streams, wetland and rivers and can harm fish, wildlife, vegetation. It can also foul your drinking water.

PRACTICES TO REDUCE STORMWATER POLLUTION INCLUDE CONTAINING AND COVERING GARBAGE, WASTE MATERIALS, AND DEBRIS. EVEN THE SIMPLE PRACTICE OF KEEPING A TRASH CAN LID CLOSED CAN BE A VERY EFFECTIVE POLLUTION PREVENTION MEASURE. OTHER EASY WAYS TO PREVENT STORMWATER POLLUTION INCLUDE: WASHING YOUR CAR OVER LAWN OR GRAVEL; USING LAWN CHEMICALS SPARINGLY, AND CLEANING UP PET WASTE.



To report illegal dumping on the VSU campus, call (804) 524-5451.

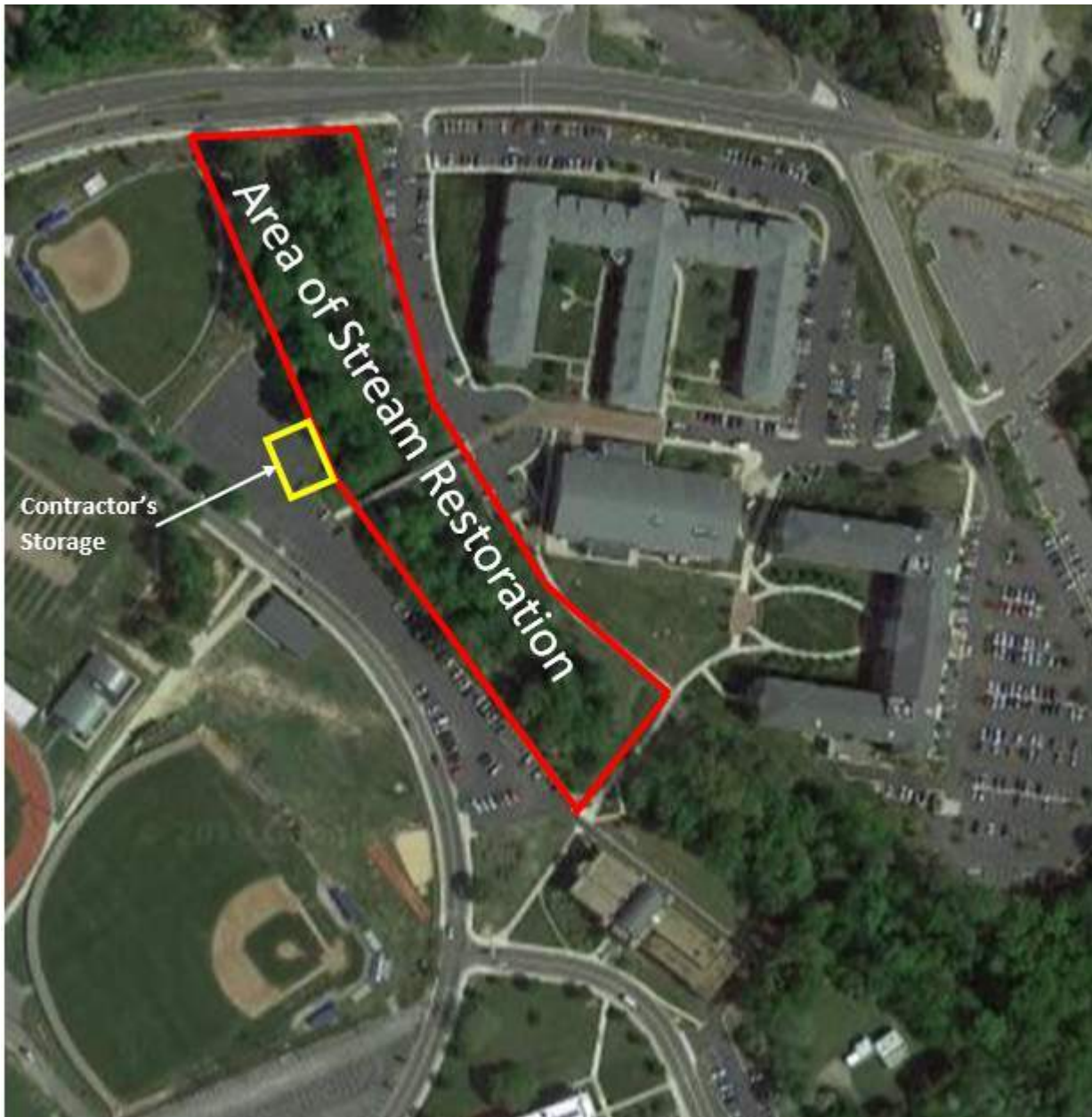
Madeline Manning

From: Matthew Webb
Sent: Monday, February 17, 2020 2:05 PM
To: Madeline Manning
Subject: FW: Stream Restoration of Fleets Branch

From: Jane S. Harris <jsharris@vsu.edu>
Sent: Friday, January 31, 2020 5:40 PM
To: All Freshmen <freshmen@students.vsu.edu>; All Juniors <junior@students.vsu.edu>; All Seniors <All_Seniors@vsu.edu>; All Sophomores <sophomore@students.vsu.edu>; AllGraduateStudents <AllGraduateStudents@vsu.edu>; Faculty <Faculty@vsu.edu>; Staff <Staff@vsu.edu>
Cc: Matthew Webb <Matthew.Webb@timmons.com>; Aislinn Creel <Aislinn.Creel@timmons.com>
Subject: Stream Restoration of Fleets Branch

On Monday, February 17, a project to restore Fleets Branch will begin. This project will effect approximately 2,000 linear feet of stream channel from East River Road to the Wilder Cooperative Extension building as shown on the map below. The work will reshape this eroded V-shaped channel bordering the Gateway Complex to its original form of meandering stream. During construction, a portion of Lot 28 will be used for contractor storage and inaccessible. Contingent upon weather conditions, this work is expected to conclude in October, 2020.

Stormwater runoff washes nutrients—often excessive amounts of them—into our streams and rivers eventually leading to the Chesapeake Bay. Too much of these nutrients (nitrogen and phosphorus in particular) do great harm to our waters' animals, plants, and underwater life. By restoring Fleet's Branch, VSU will help restore habitat, prevent erosion, capture sediment, and filter pollution. When completed, an estimated 774 pounds of nitrogen, 195 pounds of phosphorus and 67,329 pounds of sediment will be reduced each year while beautifying this naturalized area.



Jane Harris

Virginia State University

AVP for Capital Outlay and Facilities

Physical Plant Building

2916 Myster Macklin Street

Virginia State University, VA 23806

Matthew Webb

From: Jonathan A. Taylor <jataylor@vsu.edu>
Sent: Monday, June 29, 2020 1:40 PM
To: Juan Martir; William J. Pipp; Robert C. Grammer; Victor_Landry@comcastspectacor.com; 'Sydnor Tetterton'; 'Dan Hickok'; 'Bill Boyce'; Steve Hostetler; James Peace; jim@pace-pme.com; 'Mike Lindale'; 'JT Smith'; 'Keith Neubert'; tmills@tamconsultants.com; 'Eric White at TAM Consultants'
Cc: Jane S. Harris; Aislinn Creel; Matthew Webb; Gilbert Hanzlik; Dale Mason; Sean Minor; Richard F Booker; Ronald M. Howell; George W. Bowles; Eric A. Martin; Cameron Stiles; Marian B. Barney; Otis O. Whaley; Rianna Davis-Gaetano; David Weddle; Debra AC Sulla
Subject: VSU Annual Standards and Specifications for Erosion and Sediment Control & Stormwater Management

To all of our Facility and Term Contract holders,

VSU has developed and implemented our own Annual Standards and Specifications for Erosion and Sediment Control & Stormwater Management. They are located on the VSU website for your use and for distribution to your Consultants at the link below:

<http://www.vsu.edu/files/docs/capital-outlay/annual-standards-erosion-sed-control.pdf>

The May 4, 2017 Annual Standards and Specifications for Erosion Control and Stormwater Management standards were administratively continued into the current period. They are on the VSU website, so please confirm that you are using the correct version at the outset of your projects.

These standards shall apply to all land disturbance projects exceeding 2,500 square feet of disturbance unless otherwise exempt. Please familiarize yourself with these guidelines. If you have any questions or suggestions, please email me.

Thank you

Jonathan A Taylor
Virginia State University
Director of Capital Outlay
Physical Plant Building
2916 Myster Macklin Street
PO Box 9414, Suite 25
Virginia State University, VA 23806
804 504 7500 office
804 524 5383 fax
jataylor@vsu.edu

At VSU, we are proudly committed to:

- Providing a transformative experience for our students
- Strategically investing in our academic programs
- Embracing our position as a top Land Grant University
- Embracing our role as Virginia's Opportunity University
- Partnering together as a University to tell our story

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Appendix MCM 2

Matthew Webb

From: Aislinn Creel
Sent: Monday, September 23, 2019 11:24 AM
To: Matthew Webb
Cc: Jesse McWilliams
Subject: FW: Fall Service Event on 9/11/19
Attachments: Fall Service Event 2019 web article JSH.docx.pdf; 9.11 butts.jpg; 9.11 ESE.jpg; 9.11 ROTC.jpg; 9.11KB.jpg; Filterra SMW.jpg; ROTC Filterra.jpg

Follow Up Flag: Follow up
Flag Status: Flagged

From: Jane S. Harris <jsharris@vsu.edu>
Sent: Saturday, September 21, 2019 6:28 PM
To: Vashaun Wrice <vwrice@vsu.edu>; Aislinn Creel <Aislinn.Creel@timmons.com>; Jonathan A. Taylor <jataylor@vsu.edu>; Gilbert Hanzlik <ghanzlik@vsu.edu>; Victoria D. Sanders <vsanders@vsu.edu>; Fuller, Vance <VFuller@conteches.com>; Joel Koci <jkoci@vsu.edu>; Juan Martir <jmartir@vsu.edu>; Debra C. Albert <dalbert@vsu.edu>
Subject: Fall Service Event on 9/11/19

Everyone,

I just submitted the attached story and photos to the webmaster to be published on the Facilities and Capital Outlay site. This is to let you all know how very much we appreciated your commitment of time and talent to making our fall service event successful. We had over 120 volunteers!

I want to offer particular thanks to Lt. Colonel Wrice and the ROTC Color Guard. You were outstanding and brought something very special to the event! Your ROTC participants stuck with us all morning, even taking on a filerra cleaning on their own.

Please accept this huge thank you to you and your teammates.

Jane

Jane Harris
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The Capital Outlay and Facilities Department and Tree Campus, USA committee want to offer sincere thanks to the donors, volunteers and presenters that participated in our fall environmental service day on Wednesday, September 11, 2019. It was a full day of educational activities that included a 911 observance, introduction to VSU's newest project, our service activity, and learning. We heard about a wide variety of topics including smoking cessation, the harmful effects of cigarette butt litter, good water quality practice and tree care. Approximately 120 students, faculty, staff and guests joined us on a beautiful morning to learn and enjoy our beautiful, green campus.

Our morning began with a discussion by the Director of Capital Outlay, Jonathan Taylor, about the newest building currently in design, the Academic Commons. Planned on the site of Harris Hall and sweeping the Fountain of Knowledge, the Academic Commons will combine the Colleges of Education and Humanities & Social Sciences in a single facility, largest on campus.

Lieutenant Colonel Vashaun A. Wrice and the ROTC Color Guard led us in a moving 911 Observance. The Color Guard marched shoulder to shoulder from the Hunter McDaniel building to the lawn displaying the American and Virginia flags followed by a moment of silence at 9:37 AM, the time that the plane struck the Pentagon on 9/11/2001 that took 125 lives. Lieutenant Colonel Wrice described the causes and consequences of the attacks that occurred in Washington, DC, New York City and Pennsylvania killing 2,977 victims and 19 hijackers and injuring more than 6,000 others. He reminded us of the value of gratitude and how unity helped the nation heal from this devastating act of violence.

In 2015, the Arbor Day Foundation named Virginia State University a "Tree Campus USA University" for its dedication to campus forestry management and environmental stewardship, becoming the first HBCU and joining only ODU and Virginia Tech in this honor. In acknowledgement of this honor, the College of Agriculture's Joel Koci was on hand to discuss the value of trees that not only add beauty and comfort to our campus but also purify the air and improve environmental quality. He pointed out several trees on the lawn that have fallen victim to disease due to the Ash Borer, a non-indigenous insect that traveled to the US in the bilge of cargo ships. His talk was held under the shade of an enormous Pecan Tree that will be saved during the construction of the Academic Commons building.

Timmons Group's Aislinn Creel led a discussion around water quality programs at VSU. She described the components of storm water management at VSU and their importance in keeping waterways such as the Appomattox River clean. She explained the construction and function of the 25 small storm water bioretention filtration systems called Filterras located at the Quad and Gateway complexes. The filterras are designed to filter contaminants from runoff and improve water quality. Since the filterra structures are located near the four largest residence halls and their parking lots, cigarette butts are a particular problem in keeping them clean. Because the cigarette butts are small and easily transported by rain sheet flow to the filterras, they clog the filtering media rendering them ineffective in removing contaminants and contributes pollutant load into waterways.

This summer, Keep Virginia Beautiful (KVB) awarded VSU a 30 in Thirty Green Grant of \$1,000 for their Cigarette Litter Prevention Program. Grant funds were used to purchase large-capacity cigarette butt receptacles that were recently placed on campus with a sample available for viewing. The Executive Director of KVB, Mike Baum, was on hand to speak about the important work done by his organization and the positive effects of VSU's programs in keeping campus and Virginia beautiful. Student Health's Victoria Saunders complimented Mike's message by announcing VSU's smoking cessation program, Kick Butt.

Armed with gloves and trash bags, our volunteers collected trash and cigarette litter while making our way to the Gateway Complex where the Timmons Group demonstrated the proper maintenance of filterras. Although the filterras were cleaned by the facilities staff earlier in the summer, trash and debris were present that needed to be removed. Over a dozen bags of trash and 8 pounds of cigarette butts were collected by our volunteers.

Finally, guests and volunteers were invited to lunch at the Gateway Residence Hall that was generously donated by Vance Fuller of Contech Solutions, the manufacturer of our filterras.

A SPECIAL THANKS TO THE FOLLOWING FOR MAKING OUR EVENT SPECIAL:

Vqnce Fuller for your generous donation of lunch!

Aislinn Creel and Jesse McWilliams of the Timmons Group for their donation of expertise, guidance, professional services and general supervision of all!

Lieutenant Colonel Vashaun A. Wrice, the ROTC Color Guard, and the Persian Rifles for showing us the importance of unity and what can be accomplished when we work together. Thank you for your service to VSU and our country!

Mike Baum for Keeping Virginia Beautiful in general and Keeping VSU Beautiful in particular!

Victoria Saunders for keeping students healthy and launching her “Kick Butt” smoking cessation program at the service event.

Joel Koci for sharing your steadfast love of trees!

Debbie Albert for manning our registration desk and keeping us on point!

GCA Educational Services for keeping campus clean and supporting our events reliably and professionally!

Robert Hawkes and the Event Set-Up Team for tents, tables and heavy lifting!







Virtual Spring Service Event, 2020 Stream Restoration

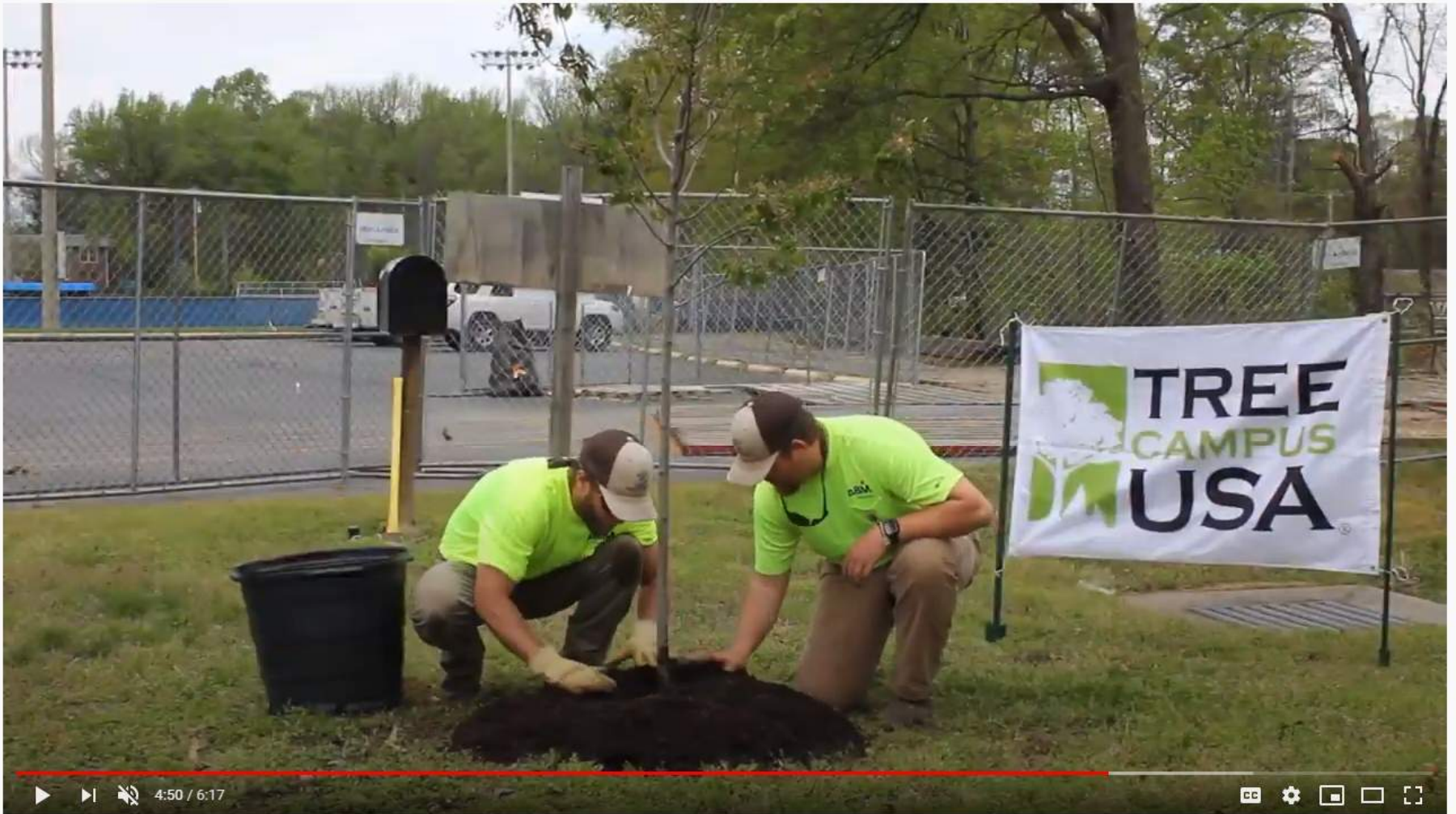
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202 views • Apr 28, 2020

7 likes, 0 dislikes, SHARE, SAVE, ...

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Tree Campus USA 2020 Recertification

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39 views • Apr 27, 2020

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E3 Designation
Unlisted

62 views · Apr 27, 2020

2 likes 0 comments SHARE SAVE ...

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Meeting Minutes:

- ***Campus Tree Maintenance*** – Joel requested maintenance for a dead pine near the guard gate at the main entrance; also remove Pin Oaks with dead wood by Owens Hall by the generator and walkway – Joel will mark them with red X.

- ***Urban Forestry Update*** –
 - May 6, Dept of Forestry did an injection on Ash Trees to address Emerald Ash Bore;
 - Joel would like to use tree survival techniques to save the Big Pecan near Hunter Mac – using proper fencing and signage- Neal will talk to Greg re: construction limits;
 - National Tree Benefits Calculator.com peer reviewed by US Forest Service;
 - Randolph Cemetery – Ailanthus (Tree of Heavens) and perhaps Hackberry will be chipped up; Joel will prune the Holly and Ash tree for access. Neal encouraged us to emphasize/address removal of invasive species as part of the Tree initiative – perhaps we add to the Tree Care Plan in its five-year review;
 - Urban Forestry – Trees for Virginia for tree maintenance money – Joel will inform Jane of grant application process; Jane will write the grant application;
 - Healthy Trees and Healthy Cities (Nature Conservancy/Health South) – app to use citizen scientists. Looking for sites to have studies done with underserved areas. Joel will see if we can get a study going in this area. Jane suggested reaching out to Glenn Chappell to see if his Intro to Environmental Science students could partake; and
 - Joel will update the Tree Care Plan and include the removal of invasives and woody species.

- ***Spring Event Recap***
 - The Spring Event was held on April 23 at the Appomattox River Overlook; here is a link to the write-up: <http://www.vsu.edu/about/administrative-offices/finance/capital-outlay-and-facilities/arbor-day/index.php>
 - Attendance feedback – students/community/officials, etc. – low student turn-out due to scheduling and proximity to end of year. Note, Arbor Day does not need to be celebrated ON Arbor Day, perhaps we can schedule earlier in the year in the future.
 - Other than student attendance, the event was well received

- ***Revisit the Tree Campus USA and Stormwater Committee's Objectives***
 - Tree Campus USA Standards: <https://www.arborday.org/programs/treecampususa/>
 - Alpha Kappa Alpha – tree campus USA sponsor – someone should reach out to them.
 - Aislinn reach out to Alpha Kappa Alpha, Jade the Jumper (Jade Jordan), and Heather Barrar's student to ensure we have student participation on the Committee
 - MS4 Requirements (Permit and Program Plan) – Aislinn reviewed the relevant sections of the updated Program Plan with the Committee.



- **Fall Event Planning (Service Event)**

- Event Activities - 30 in Thirty Green Grant!
<https://keepvirginiabeautiful.org/2019/06/08/virginia-state-university-tackles-cig-litter-with-green-grant/> Remove cigarette litter, trash and contaminants from campus storm drainage structures, called Filterras, which are designed to filter contaminants from runoff, and improve water quality flowing into streams and rivers. The students will see the amount of cigarette butts that have accumulated, and will remove, count and weigh the contents, demonstrating the cumulative severity of the problem. Grant funds will be used to purchase eight large-capacity cigarette butt receptacles to place near residence halls on campus. The importance of the receptacles and their locations will be communicated later. The effort aims to prevent the Filterras from clogging and allow their efficiency to continue to improve the water quality.
 - Filterra Maintenance presentation and activity – remove and weigh butt removal
 - Reveal cigarette butt receptacles (install one? Or more?)
 - Move 9/11 tree – Jane will contact ROTC to see about potential location; Neal will come up with 3 potential locations, Will suggests the field near Hunter Mac, it is a Southern Magnolia.
 - Aislinn reach out to Contech to see if they will partner with us for lunch again this year.
- Event Date
 - Fall Event – week of September 9 or September 16.
 - School starts August 19; Opening convocation on September 16; Mid-terms September 30
 - Labor Day is Sept 2
 - Classes end Wed, April 29; Reading Day is April 30. Exams begin May 1. Graduation May 16

- **VSU Sustainability Trail – Or other ideas for partnership with Dominion**

- Potential future service activity - combine aspects of a fitness trail with VSU Campus sustainability initiatives; plan route with stops at areas that the University wants to emphasize to highlight Tree Campus status, MS4, etc., tree master plan, and other existing resources/plans to promote overall health and sustainability.
- Looking for feedback on how many stops to plan and input on where the stops shall be;
- Potentially use existing connectivity and corridors on Campus, and consider adding new “segments,” shorter trail sections to add more connectivity, where desired.
 - Jane would like to implement a section right away
 - Use Tree Trail as part of the plan
 - VITA trail at Byrd Park as inspiration – stay close to Fleets Branch, recreational areas. Stay away from historic and academic areas. Look at Pedestrian walkway along University that Steve H. provided.

- **Next Meeting: August 21 or 22 at 1PM**

VSU Tree Campus USA & Stormwater Committee Meeting Agenda
August 20, 2019



Meeting Agenda:

- *Introductions of new committee members*
- *Review Minutes and provide status updates*
- *Set agenda, discuss specifics of Fall Service Activity*
- *VSU Sustainability Trail update*
- *Next Meeting*



Meeting Minutes

- **Attendees:** Jane Harris, Jonathan Taylor, Gil Hanzlik, Jerome Bettis, Heather Barrar, Molly Winegar, Neal Beasley, Matt Webb, Madeline Manning
- **VIRTUAL Spring Service Event Planning**
 - Date: **April 14, 2020** (rain date: April 15)
 - Limit attendees for each segment to 10 or less
 - **TENTATIVE** Agenda

Time	Activity	Responsible
9:30 – 9:45	Stream Restoration – Planning, Design, and Crediting Location – at fallen tree	TG
10:00 – 10:15	Stream Restoration – Construction Location – on bridge overlooking stream	Finish Line
10:30 – 10:45	Arbor Day Observance/Tree Benefit Presentation/Planting Location – at new Tree Planting	Joel or Neal
11:00 – 11:15	Tree Campus USA Recertification Presentation Location – at new Tree Planting	Joel and Dean McKinnie, hopefully
11:30 – 11:45	DEQ E3 Designation Ceremony Location – at new Tree Planting	Jane/DEQ

- Videographer/Editor – Ramona Taylor
- Film will be posted on website and social media – target is approximately 5 minutes long
 - Stream Restoration – Planning, Design and Crediting (TG – Aislinn Creel)
 - Why would we do this project? Point out downed tree and talk about bank instability and the risk to property and pollution downstream
 - What can we expect during construction?
 - What is the finished project going to look like?
 - What are the benefits of stream restoration to the Campus and beyond?
 - Stream Restoration – Construction (Finish Line – Kristen Pruitt)
 - How did you end up owning a construction company?
 - Talk about the planning and execution of a stream restoration construction job
 - What is the difference between working construction in a stream vs. on a construction site? What are some of your unique challenges? What do you do when it rains?
 - What are some other challenges? (for example, staff allergic to poison ivy, etc)



VSU Tree Campus USA & Stormwater Committee Meeting Minutes

March 26, 2020

- Arbor Day Observance/Tree Benefit Presentation/Tree Planting
 - Video some of the work of planting a tree (plan to voice over with explanation of why to plant a tree)
 - Talk about planting a tree/why
 - Native
 - Riparian benefits
 - “working tree”
 - Mention Arbor Day Observance
- Tree Campus USA Recertification Presentation
 - What is a Tree Campus USA?
 - Facts about VSU’s certification
 - Presentation of Recertification Plaque
- DEQ E3 Designation Ceremony (will be filmed rain or shine – inside if it is raining)
 - DEQ presentation of award to Jane or her boss
 - Jane to make a few statements about the University’s commitment to environmental stewardship
- **Action Items**
 - Confirm speakers/attendees and videographer
 - Order tree, prep hole, and secure materials (soil and mulch) and equipment
 - Aislinn follow up on additional video footage to provide (drone and/or time lapse)
 - Send tree planting plan and location to Mike Hickam as soon as possible
- **Next Meeting**
 - April 9 at 1pm (invite to follow)

*These notes are the recollection of Madeline Manning/Aislinn Creel recorded at the time of the meeting. Please send any errors/omissions or updates to aislinn.creel@timmons.com.



Meeting Minutes

- **Attendees:** Jane Harris, Jonathan Taylor, Gil Hanzlik, Chris Grammar, Kim Conley, Aislinn Creel, Neal Beasley, Matt Webb, Madeline Manning

- **VIRTUAL Spring Service Event Planning UPDATE**
 - Date: **April 14, 2020** (rain date: April 15)
 - Limit attendees for each segment to 10 or less
 - Videographer/Editor – Ramona Taylor (assisted by Rianna Davis-Gaetano)
 - **Completed items:**
 - Arbor Day Observance/Tree Benefit Presentation/Tree Planting video segment
 - Stream Restoration – Planning, Design and Crediting video segment
 - Stream Restoration – Construction video segment

- **MS4 Program Plan UPDATE**
 - Inspections have been completed by Exact and Timmons Group
 - Outfall 14 needs to be stabilized
 - Cost will vary depending on optimal solution
 - Apply for NFWF Small Watershed Grant (**due April 28th**)

- **Action Items**
 - Spring Service Event
 - Film Tree Campus recertification ceremony
 - Film DEQ E3 designation ceremony for VSU
 - Aislinn to send additional stream restoration material (images/videos of completed Timmons Group projects with location of each stream)
 - Aislinn to film Dr. Chappell's MS4 class presentation with Zoom
 - Jane to send out completed video
 - Outfall 14
 - Timmons Group to investigate potential cost
 - Reach out for letters of support

- **Next Meeting**
 - TBD

*These notes are the recollection of Madeline Manning/Aislinn Creel recorded at the time of the meeting. Please send any errors/omissions or updates to aislinn.creel@timmons.com.

Matthew Webb

From: Jane S. Harris <jsharris@vsu.edu>
Sent: Sunday, January 26, 2020 2:10 PM
To: Dawit Haile; Dr. M. Ray McKinnie
Cc: Aislinn Creel; Matthew Webb
Subject: Storm water Presentation

Dr.Haile and Dr. McKinnie,

Timmons Group will be on campus the afternoons of 3/11 and 3/15 for a guest speaking presentation on Water Quality and Storm Water Management to Environmental Science students. I wanted to let you know in case you would like to include other classes or participants. If you have an interest in expanding the audience please let me know.

Thanks,
Jane

Jane Harris
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Assistant Vice President for Facilities and Capital Outlay
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jsharris@vsu.edu

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WHAT IS STORMWATER MANAGEMENT & WHY DOES IT MATTER?

Aislinn Creel, PE, LEED AP
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YSU
TIMMONS GROUP

1

What is Stormwater?

- Water that originates from rain or melted snow/ice

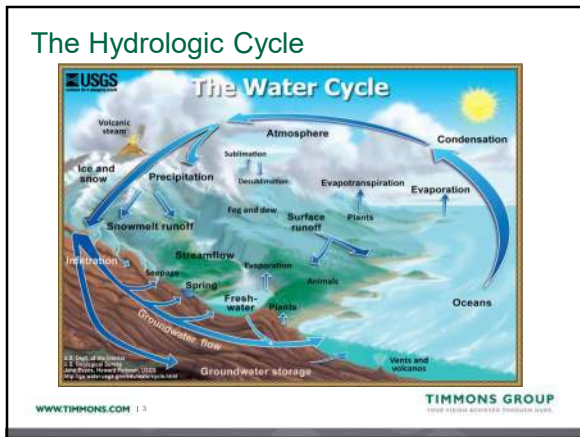
What is Stormwater Runoff?

- Water that runs off rooftops, parking lots, streets, yards, sidewalks, fields, etc. into storm drains and eventually outfalls to lakes, rivers, and streams.

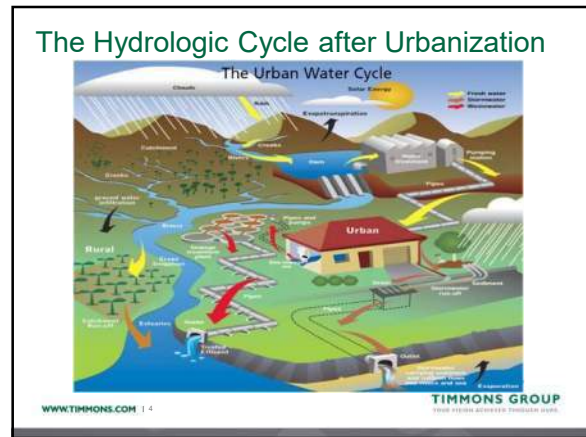
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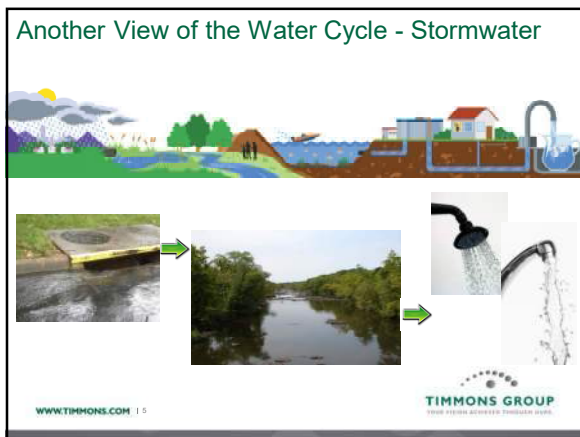
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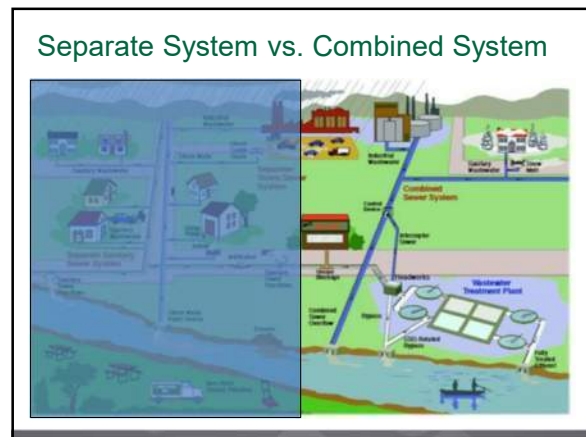
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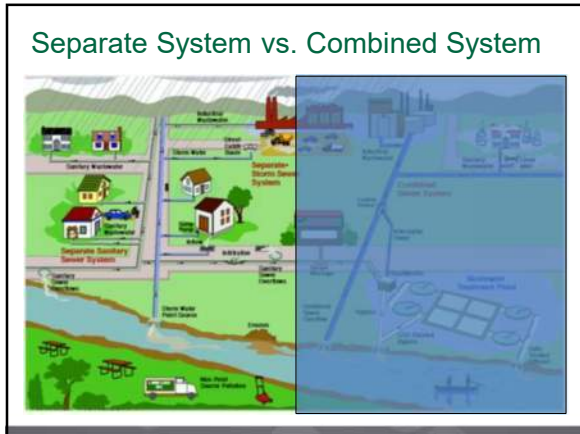
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7

Why is it important to treat stormwater?

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Why is it important to treat stormwater?

- Protects our waterways from erosion and flooding
- Ensures the water bodies are safe for recreation and aquatic life
- Ensures safe drinking water for us

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9

Stormwater Pollutants

Fertilizers

Oils & Greases

Bacteria

Deicers

Sediment

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Stormwater Pollutants

Trash

11

How are Stormwater Pollutants Regulated?

- The Law: Clean Water Act (1972)
- Regulations: The National Pollutant Discharge Elimination System (NPDES)
 - Administration
 - Permits
 - Enforcement
- State Water Control Board
 - State Water Control Law
 - Virginia Administrative Code
- VA DEQ

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How are Stormwater Pollutants Regulated?

- Municipal Separate Storm Sewer System (MS4) Operators under an MS4 General Permit.
 - Storm sewer pipes and sanitary sewer pipes are not combined.
 - An MS4 Operator can be:
 - Cities or counties
 - Colleges or Universities
 - Correctional facilities
 - Hospitals
 - Military Bases



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MS4s must comply with 6 Minimum Control Measures (MCM) and Special Conditions

1. Public Outreach and Education
2. Public Involvement/Participation
3. Illicit Discharge Detection and Elimination
4. Construction Site Stormwater Runoff
5. Post-Construction Stormwater Management
6. Pollution Prevention/Good Housekeeping



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14

MCM 1: Public Outreach and Education

- Requires the operator to develop and implement a program that promotes awareness of pollution prevention techniques and engagement with local watershed quality.
- VSU Application:
 - Administration sends out stormwater awareness emails to students and staff.



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15

MCM 2: Public Involvement/Participation

- Requires the operator to provide opportunities for the public to play an active role in both the development and implementation of the program.
- VSU Application:
 - Tree Campus USA
 - Service Events
 - Stormwater Presentations to Classes



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Spring Service Event – APRIL 14

"Fleets Branch Stream Restoration and Buffer Planting"

- 9 am – 12 pm
- Near Moore Hall Pedestrian Bridge
- Draft Agenda:
 - Presentations
 - Plantings
 - Lunch



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17

MCM 3: Illicit Discharge Detection & Elimination

- Requires the operator to identify all storm sewer infrastructure, outfalls, and receiving streams to ensure no illicit discharges enter the system directly or indirectly.
- Once an illicit discharge is identified and/or detected, the source must be eliminated!



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18

MCM 4: Construction Site Stormwater Runoff Control

- Requires the operator to implement measures that prohibit sediment and pollutants from leaving construction activities and from entering the storm sewer system.
- Examples:
 - Construction entrance
 - Silt fence
 - Matting/Mulching
 - Storm drain inlet protection



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19

MCM 5: Post-Construction Stormwater Management

- Requires the operator to implement and enforce a program to reduce post-construction runoff to their storm sewer system.
- Includes a combination of structural and non-structural BMPs
 - Detention ponds
 - Retention ponds
 - Bioretention
 - Permeable pavement
 - Proprietary BMPs




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20

Did you know?

There is a Retention Basin BMP located behind the Jesse B. Bolling Building



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TIMMONS GROUP
FROM DESIGN TO CONSTRUCTION TO MAINTENANCE

21

Fall Service Event (October 2018)

Trojan Stormwater Management Pond




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22

Campus Stormwater Management Facilities

BMP Database - 2018				
ID	Name	Location	Category	Notes
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MCM 6: Pollution Prevention & Good Housekeeping

- Requires the operator to examine and alter their procedures to help minimize or prevent pollutant discharge from daily maintenance operations, equipment maintenance, and handling of herbicides, pesticides, and fertilizers.
- Common pollution prevention & good housekeeping practices:
 - Maintaining storm inlets
 - Covering maintenance equipment
 - Keeping lids on trash cans



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Special Conditions - TMDLs

- Total Maximum Daily Load “pollution diet”
- Chesapeake Bay TMDL
 - TP, TN, TSS
- Local TMDLs
 - Bacteria
 - PCBs
 - Sediment

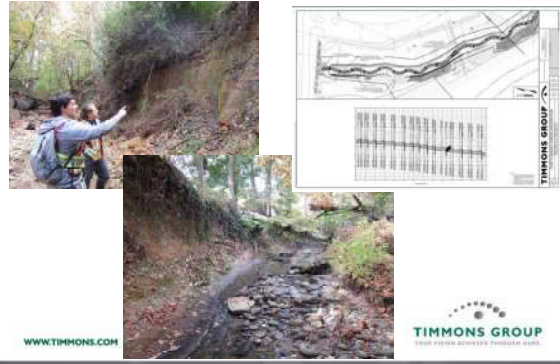


Source: Chesapeake Bay TMDL, Fact Sheet, US EPA and the Chesapeake Bay Program



25

Fleets Branch Stream Restoration



26

What Can You Do About Protecting Our Waters?

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27

What Can You Do About Protecting Our Waters?



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What Can You Do About Protecting Our Waters?



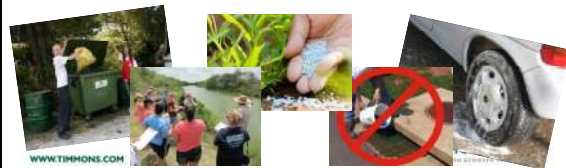
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What Can You Do About Protecting Our Waters?

- Don't dump anything into the storm drains
- Limit fertilizer use
- Wash your cars at a permitted Car Wash
- Pick up after your pet
- Educate others on the importance of water quality



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Appendix MCM 3

VSU

Illicit Discharge Detection Summary

Inspections Conducted on April 3rd, 2020

Outfall ID	Potential Illicit Discharge Detected?
1	No
2	No
3	No
4	No
5	No
6	No
8	No
9	No
10	No
11	No
12	No
14	No
16	No
17	No
18	No
20	No
21	No
22	No
24	No
27	No



Stormwater Outfall Inspection

Outfall ID: 01	Date: 04/03/2020	Time: 10:00	Inspector: MSW
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.62	End Date: 03/31/2020	End Time: 23:59
------------------	----------------------	-----------------

Weather history can be found at: <https://www.wunderground.com/weather/us/va/virginia-state-university>

FLOW

Present?	Yes	If yes:	Approx. discharge rate:	Substantial
			Approx. depth of flow (in):	0.5

POTENTIAL POLLUTANT INDICATORS


Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality		NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."



 Signature

04/03/2020

 Date



Stormwater Outfall Inspection

Outfall ID: 01	Date: 04/03/2020	Time: 10:00	Inspector: MSW
----------------	------------------	-------------	----------------

VICINITY MAP



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-77.41971, 37.24294

PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 02	Date: 04/03/2020	Time: 10:06	Inspector: MSW
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.62	End Date: 03/31/2020	End Time: 23:59
------------------	----------------------	-----------------

Weather history can be found at: <https://www.wunderground.com/weather/us/va/virginia-state-university>

FLOW

Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS


Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."



Signature

04/03/2020

Date



Stormwater Outfall Inspection

Outfall ID: 02	Date: 04/03/2020	Time: 10:06	Inspector: MSW
----------------	------------------	-------------	----------------

VICINITY MAP



Esri, Maxar, Earthstar Geographics, CNES/Airbus DS, USDA FSA, USGS, AeroGRID, IGN, IGP, and the ... Powered by Esri
-77.41945, 37.24249

PHOTOGRAPHS



If an illicit discharge is suspected, immediately contact Capital Outlay & Facilities and complete the *Illicit Discharge Investigation Form*.
(Version 2019)



Stormwater Outfall Inspection

Outfall ID: 03	Date: 04/03/2020	Time: 10:17	Inspector: MSW
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.62	End Date: 03/31/2020	End Time: 23:59
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	Yes	If yes:	Approx. discharge rate:	Moderate
			Approx. depth of flow (in):	6.5

POTENTIAL POLLUTANT INDICATORS

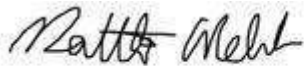
Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	Yes	Colors, Excessive Algae, Floatables	2
Pipe Benthic Growth	Yes	Green	2

Notes:
 Outfall is backwatered.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."



Signature

04/03/2020

Date



Stormwater Outfall Inspection

Outfall ID: 03	Date: 04/03/2020	Time: 10:17	Inspector: MSW
----------------	------------------	-------------	----------------

VICINITY MAP



Esri, Maxar, Earthstar Geographics, CNES/Airbus DS, USDA FSA, USGS, AeroGRID, IGN, IGP, and the ... Powered by Esri
-77.41883, 37.24178

PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 04	Date: 04/03/2020	Time: 10:44	Inspector: MSW
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.62	End Date: 03/31/2020	End Time: 23:59
------------------	----------------------	-----------------

Weather history can be found at: <https://www.wunderground.com/weather/us/va/virginia-state-university>

FLOW

Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS


Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."



Signature

04/03/2020

Date



Stormwater Outfall Inspection

Outfall ID: 04	Date: 04/03/2020	Time: 10:44	Inspector: MSW
----------------	------------------	-------------	----------------

VICINITY MAP



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-77.41841, 37.24146

PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 05	Date: 04/03/2020	Time: 10:50	Inspector: MSW
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.62	End Date: 03/31/2020	End Time: 23:59
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	Yes	If yes:	Approx. discharge rate:	Moderate
			Approx. depth of flow (in):	4

POTENTIAL POLLUTANT INDICATORS


Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	Yes	Other: Pollen	2
Deposits/Stains	No	NA	NA
Poor Pool Quality	Yes	Excessive Algae, Floatables, Other: Trash	2
Pipe Benthic Growth	Yes	Brown	1

Notes:
 Outfall is difficult to access. Debris at invert is causing water to back up and trash to accumulate.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."



 Signature

04/03/2020

 Date



Stormwater Outfall Inspection

Outfall ID: 05	Date: 04/03/2020	Time: 10:50	Inspector: MSW
----------------	------------------	-------------	----------------

VICINITY MAP



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-77.41811, 37.24176

PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 06	Date: 04/03/2020	Time: 11:02	Inspector: MSW
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.62	End Date: 03/31/2020	End Time: 23:59
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS

Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

04/03/2020

Date



Stormwater Outfall Inspection

Outfall ID: 06	Date: 04/03/2020	Time: 11:02	Inspector: MSW
----------------	------------------	-------------	----------------

VICINITY MAP



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-77.41808, 37.24131

PHOTOGRAPHS



If an illicit discharge is suspected, immediately contact Capital Outlay & Facilities and complete the *Illicit Discharge Investigation Form*.
(Version 2019)



Stormwater Outfall Inspection

Outfall ID: 08	Date: 04/03/2020	Time: 11:09	Inspector: MSW
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.62	End Date: 03/31/2020	End Time: 23:59
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS


Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	Yes	Green	1

Notes:
 Outfall is difficult to access.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."



Signature

04/03/2020

Date



Stormwater Outfall Inspection

Outfall ID: 08	Date: 04/03/2020	Time: 11:09	Inspector: MSW
----------------	------------------	-------------	----------------

VICINITY MAP



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-77.4174, 37.24108

PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 09	Date: 04/03/2020	Time: 11:40	Inspector: MSW
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.62	End Date: 03/31/2020	End Time: 23:59
------------------	----------------------	-----------------

Weather history can be found at: <https://www.wunderground.com/weather/us/va/virginia-state-university>

FLOW

Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS

Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	Yes	Other: Trash	3
Pipe Benthic Growth	Yes	Green	2

Notes:
 Heavy amount of trash.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

04/03/2020

Date



Stormwater Outfall Inspection

Outfall ID: 09	Date: 04/03/2020	Time: 11:40	Inspector: MSW
----------------	------------------	-------------	----------------

VICINITY MAP



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-77.41663, 37.24093

PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 10	Date: 04/03/2020	Time: 13:29	Inspector: MSW
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.62	End Date: 03/31/2020	End Time: 23:59
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS

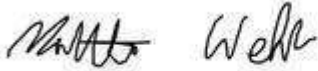
Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."



 Signature

04/03/2020

 Date



Stormwater Outfall Inspection

Outfall ID: 10	Date: 04/03/2020	Time: 13:29	Inspector: MSW
----------------	------------------	-------------	----------------

VICINITY MAP



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-77.41603, 37.24018

PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 11	Date: 04/03/2020	Time: 12:45	Inspector: MSW
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.62	End Date: 03/31/2020	End Time: 23:59
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	Yes	If yes:	Approx. discharge rate:	Trickle
			Approx. depth of flow (in):	3

POTENTIAL POLLUTANT INDICATORS

Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	Yes	Other: Orange algae	2
Deposits/Stains	No	NA	NA
Poor Pool Quality	Yes	ExcessiveAlgae	3
Pipe Benthic Growth	Yes	Orange	2

Notes:
 Outfall is difficult to access and in backwater.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

04/03/2020

Date



Stormwater Outfall Inspection

Outfall ID: 11	Date: 04/03/2020	Time: 12:45	Inspector: MSW
----------------	------------------	-------------	----------------

VICINITY MAP



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-77.41511, 37.23946

PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 12	Date: 04/03/2020	Time: 13:51	Inspector: MSW
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.62	End Date: 03/31/2020	End Time: 23:59
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS


Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."



Signature

04/03/2020

Date



Stormwater Outfall Inspection

Outfall ID: 12	Date: 04/03/2020	Time: 13:51	Inspector: MSW
----------------	------------------	-------------	----------------

VICINITY MAP



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-77.41384, 37.23749

PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 14	Date: 04/03/2020	Time: 14:31	Inspector: MSW
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.62	End Date: 03/31/2020	End Time: 23:59
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS

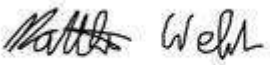
Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:
 Last pipe section has fallen off.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."



Signature

04/03/2020

Date



Stormwater Outfall Inspection

Outfall ID: 14	Date: 04/03/2020	Time: 14:31	Inspector: MSW
----------------	------------------	-------------	----------------

VICINITY MAP



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-77.41646, 37.23517

PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 16	Date: 04/03/2020	Time: 14:42	Inspector: MSW
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.62	End Date: 03/31/2020	End Time: 23:59
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	Yes	If yes:	Approx. discharge rate:	Moderate
			Approx. depth of flow (in):	0.5

POTENTIAL POLLUTANT INDICATORS


Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:
 Downstream channel seems more incised than usual.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."



Signature

04/03/2020

Date



Stormwater Outfall Inspection

Outfall ID: 16	Date: 04/03/2020	Time: 14:42	Inspector: MSW
----------------	------------------	-------------	----------------

VICINITY MAP



Esri, Maxar, Earthstar Geographics, CNES/Airbus DS, USDA FSA, USGS, AeroGRID, IGN, IGP, and the ... Powered by Esri
-77.41655, 37.23445

PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 17	Date: 04/03/2020	Time: 14:48	Inspector: MSW
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.62	End Date: 03/31/2020	End Time: 23:59
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS


Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."



 Signature

04/03/2020

 Date



Stormwater Outfall Inspection

Outfall ID: 17	Date: 04/03/2020	Time: 14:48	Inspector: MSW
----------------	------------------	-------------	----------------

VICINITY MAP



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-77.41643, 37.23409

PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 18	Date: 04/03/2020	Time: 15:10	Inspector: MSW
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.62	End Date: 03/31/2020	End Time: 23:59
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	Yes	If yes:	Approx. discharge rate:	Moderate
			Approx. depth of flow (in):	0.1

POTENTIAL POLLUTANT INDICATORS

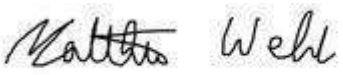
Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	Yes	ExcessiveAlgae	2
Pipe Benthic Growth	Yes	Orange	2

Notes:
 Discharge depth estimated, could not access.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."



Signature

04/03/2020

Date



Stormwater Outfall Inspection

Outfall ID: 18	Date: 04/03/2020	Time: 15:10	Inspector: MSW
----------------	------------------	-------------	----------------

VICINITY MAP



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-77.41584, 37.23342

PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 20	Date: 04/03/2020	Time: 15:20	Inspector: MSW
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.62	End Date: 03/31/2020	End Time: 23:59
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS

Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

04/03/2020

Date



Stormwater Outfall Inspection

Outfall ID: 20	Date: 04/03/2020	Time: 15:20	Inspector: MSW
----------------	------------------	-------------	----------------

VICINITY MAP



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-77.41738, 37.23276

PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 21	Date: 04/03/2020	Time: 15:28	Inspector: MSW
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.62	End Date: 03/31/2020	End Time: 23:59
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS


Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:
 Could not adequately inspect. Could not open manhole.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."



Signature

04/03/2020

Date



Stormwater Outfall Inspection

Outfall ID: 21	Date: 04/03/2020	Time: 15:28	Inspector: MSW
----------------	------------------	-------------	----------------

VICINITY MAP



Esri, Maxar, Earthstar Geographics, CNES/Airbus DS, USDA FSA, USGS, AeroGRID, IGN, IGP, and the ... Powered by Esri
-77.41797, 37.23317

PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 22	Date: 04/03/2020	Time: 15:32	Inspector: MSW
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.62	End Date: 03/31/2020	End Time: 23:59
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	Yes	If yes:	Approx. discharge rate:	Moderate
			Approx. depth of flow (in):	0.5

POTENTIAL POLLUTANT INDICATORS


Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	Yes	Green	1

Notes:

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."



Signature

04/03/2020

Date



Stormwater Outfall Inspection

Outfall ID: 22	Date: 04/03/2020	Time: 15:32	Inspector: MSW
----------------	------------------	-------------	----------------

VICINITY MAP



Esri, Maxar, Earthstar Geographics, CNES/Airbus DS, USDA FSA, USGS, AeroGRID, IGN, IGP, and the ... Powered by Esri
-77.41851, 37.23306

PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 24	Date: 04/03/2020	Time: 10:58	Inspector: MSW
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.62	End Date: 03/31/2020	End Time: 23:59
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS


Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."



 Signature

04/03/2020

 Date



Stormwater Outfall Inspection

Outfall ID: 24	Date: 04/03/2020	Time: 10:58	Inspector: MSW
----------------	------------------	-------------	----------------

VICINITY MAP



Esri, Maxar, Earthstar Geographics, CNES/Airbus DS, USDA FSA, USGS, AeroGRID, IGN, IGP, and the ... Powered by Esri
-77.41796, 37.24157

PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 27	Date: 04/03/2020	Time: 15:23	Inspector: MSW
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.62	End Date: 03/31/2020	End Time: 23:59
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	Yes	If yes:	Approx. discharge rate:	Trickle
			Approx. depth of flow (in):	0.1

POTENTIAL POLLUTANT INDICATORS


Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	Yes	Other: Black	1

Notes:

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."



Signature

04/03/2020

Date



Stormwater Outfall Inspection

Outfall ID: 27	Date: 04/03/2020	Time: 15:23	Inspector: MSW
----------------	------------------	-------------	----------------

VICINITY MAP



Esri, Maxar, Earthstar Geographics, CNES/Airbus DS, USDA FSA, USGS, AeroGRID, IGN, IGP, and the ... Powered by Esri
-77.41722, 37.23281

PHOTOGRAPHS



Appendix MCM 4

STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU - Trunk Sewer PH 3A
MONITORING FOR THE WEEK BEGINNING: 7/15/19

RAINFALL:

Date of Rain	Amount (inches)	Initials
7/11/19	0.53	STV

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



 (Signature of Delegated Authority)

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH3A Trunk Sewer	7/18/19 12:30p	Y	Safety fence installed. Install SF at stockpile

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A									

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.
Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.
Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.
Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU - Trunk Sewer PH 3A
 MONITORING FOR THE WEEK BEGINNING: 7/22/19

RAINFALL:

Date of Rain	Amount (inches)	Initials
7/23/19	0.42	STJ

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



(Signature of Delegated Authority)

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A Trunk Sewer	7/25/19 11:45a	Y	SF installed at soil stockpile All controls installed.

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A						NONE	N		

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.

Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.

Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.

Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: USU - Trunk Sewer PH 3A
 MONITORING FOR THE WEEK BEGINNING: 7/29/19

RAINFALL:

Date of Rain	Amount (inches)	Initials
7/23/19	0.42	STV

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



(Signature of Delegated Authority)

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
Trunk Sewer PH 3A	7/31/19 12P	Y	All controls installed & functioning

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A						none	N		

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.

Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.

Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.

Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer PH3A
 MONITORING FOR THE WEEK BEGINNING: 8/5/19

RAINFALL:

Date of Rain	Amount (inches)	Initials
8/6/19	0.25	SV

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



(Signature of Delegated Authority)

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH3A sewer	8/6/19 12p	Y	SF installed at Stockpile Safety fence installed around laydown yard

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A						NONE	N		

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.

Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.

Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.

Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

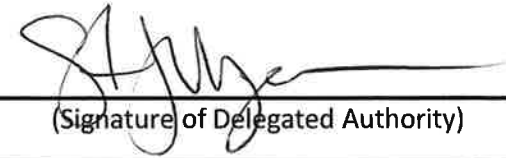
STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSC Trunk Sewer PH 3/A
 MONITORING FOR THE WEEK BEGINNING: 8/19/19

RAINFALL:

Date of Rain	Amount (inches)	Initials
8/16/19	0.25	SV
8/17/19	0.20	SV
8/21/19	0.12	SV

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



(Signature of Delegated Authority)

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3/A Sewer	8/23/19 1:30p	Y	Stock pile & controls removed; stabilization added to area.

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A						none	N		

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.

Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.

Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.

Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.


STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSCU PH3A Trunk Sewer
 MONITORING FOR THE WEEK BEGINNING: 8/26/19

RAINFALL:

Date of Rain	Amount (inches)	Initials
8/23/19	0.55	SV
8/24/19	0.00	SV

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



(Signature of Delegated Authority)

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH3A Sewer	8/28/19 9:30a	Y	Stabilization applied to all disturbed areas

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A						None	N		

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.

Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.

Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.

Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSA Trunk Sewer PH 3A
 MONITORING FOR THE WEEK BEGINNING: 9/2/19

RAINFALL:

Date of Rain	Amount (Inches)	Initials
NONE		SV

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



(Signature of Delegated Authority)

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH3A Sewer	9/5/19 10:30a	Y	All controls functioning properly

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A						NONE	N		

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.

Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.

Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.

Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

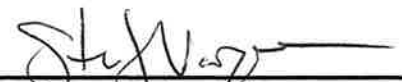
STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer PH3A
 MONITORING FOR THE WEEK BEGINNING: 9/9/19

RAINFALL:

Date of Rain	Amount (inches)	Initials
9/6/19	0.38	SV

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



(Signature of Delegated Authority)

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH3A Sewer	9/12/19 1p	Y	All controls functioning properly

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
NA						NONE	N		

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.

Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.

Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.

Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: USU trunk Sewer PH3A
MONITORING FOR THE WEEK BEGINNING: 9/16/19

RAINFALL:

Date of Rain	Amount (inches)	Initials
NONE		SV

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



 (Signature of Delegated Authority)

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH3A Sewer	9/19/19 2:45p	Y	All controls functioning properly

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
NA						NONE	N		

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.

Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.

Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.

Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: USU Trunk Sewer PH3A
 MONITORING FOR THE WEEK BEGINNING: 9/23/19

RAINFALL:

Date of Rain	Amount (inches)	Initials
NONE		SV

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



(Signature of Delegated Authority)

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH3A Sewer	9/25/19 1:45 p	N Y	All controls functioning correctly

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A						NONE	N		

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.

Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.

Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.

Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Tank Sewer PH3A
 MONITORING FOR THE WEEK BEGINNING: 09/30/19

RAINFALL:

Date of Rain	Amount (inches)	Initials
NONE		SV

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



(Signature of Delegated Authority)

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH3A Sewer	10/9/19 3:30pm	Y	All controls functioning

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
NA									

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.

Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.

Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.

Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSC Trunk Sewer P# 3A
 MONITORING FOR THE WEEK BEGINNING: 10/7/19

RAINFALL:

Date of Rain	Amount (inches)	Initials
10/8/19	0.38	SV

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



(Signature of Delegated Authority)

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
Trunk Sewer	10/11/19 11:30am	Y	All controls functioning

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A									

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.

Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.

Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.

Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSCU Think Sewer PH 3A
 MONITORING FOR THE WEEK BEGINNING: 10/21/19

RAINFALL:

Date of Rain	Amount (inches)	Initials
10/19/19	0.34	SV
10/17/19	1.26	SV
10/20/19	0.52	SV
10/21/19	1.07	SV

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



(Signature of Delegated Authority)

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
Think Sewer	10/23/19 9am	Y	All controls functioning

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A									

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.

Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.

Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.

Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer PH 3A
 MONITORING FOR THE WEEK BEGINNING: 10/28/19

RAINFALL:

Date of Rain	Amount (inches)	Initials
10/27/19	0.05	SV
10/28/19	0.16	SV

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

(Signature of Delegated Authority)

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
Trunk Sewer	10/30/19 11am	Y	Sf marks needed in solid lay down area

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A									

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.

Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.

Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.

Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.


STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 11/4/19

RAINFALL:

Date of Rain	Amount (inches)	Initials
11/1/19	0.65	SV

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



(Signature of Delegated Authority)

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
DH 3A	11/5/19 11am	Y	Silt fence maintenance needed at soil laydown area.

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted at least once every 4 business days OR at least once every 5 business days and no later than 48 hours following a measurable storm event.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A									

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.

Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.

Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.

Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

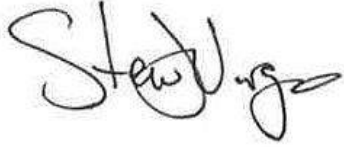
STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 11/11/2019

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:


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EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	11/11/19 2:00 pm	Y	Pereodic SF maintenance and Street Sweeping needed

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
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Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension

MONITORING FOR THE WEEK BEGINNING: 11/11/2019

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

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EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	11/15/19 2:00 pm	Y	Pereodic SF maintenance and Street Sweeping needed

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
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Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

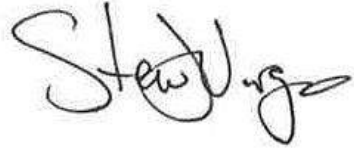
STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 11/18/2019

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



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EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	11/21/19 2:00 pm	Y	Pereodic SF maintenance and Street Sweeping needed

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
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Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

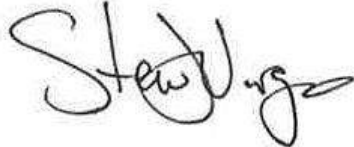
STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 11/25/2019

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	11/27/19 2:00 pm	Y	Pereodic SF maintenance and Street Sweeping needed

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
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Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.
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Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

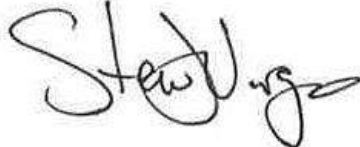
STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 12/9/2019

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	12/9/19 2:00 pm	Y	Pereodic SF maintenance and Street Sweeping needed

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
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Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.


STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 12/9/2019

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	12/13/19 2:00 pm	Y	Pereodic SF maintenance and Street Sweeping needed

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

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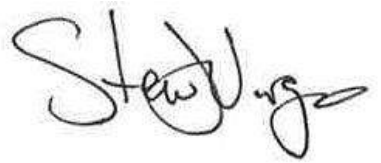
STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 12/16/2019

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	12/19/19 2:00 pm	Y	Pereodic SF maintenance and Street Sweeping needed

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

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STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 12/23/2019

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:


 _____ (S) _____

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	12/26/19 2:00 pm	Y	Pereodic SF maintenance and Street Sweeping needed

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
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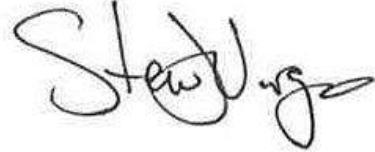
STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 12/30/2019

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	12/31/19 2:00 pm	Y	Periodic SF maintenance and Street Sweeping needed

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

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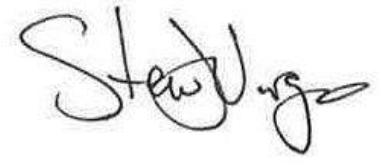
STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 01/06/2020

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	01/06/2020 2:00 pm	Y	Pereodic SF maintenance and Street Sweeping needed

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
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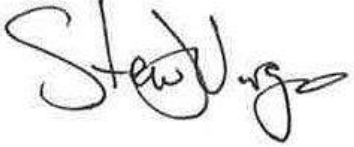
STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 01/06/2020

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



_____, _____

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	01/10/2020 2:00 pm	Y	Pereodic SF maintenance and Street Sweeping needed

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

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Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.
Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

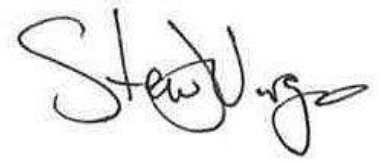
STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 01/13/2020

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	01/16/2020 2:00 pm	Y	Pereodic SF maintenance and Street Sweeping needed

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A									

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.
Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.
Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.
Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 01/20/2020

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	01/23/2020 2:00 pm	Y	Pereodic SF maintenance and Street Sweeping needed

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A									

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.
Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.
Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.
Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

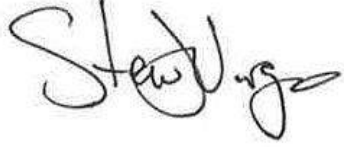
STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 01/27/2020

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:


 _____ (i) _____

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	01/29/2020 2:00 pm	Y	Periodic SF maintenance and Street Sweeping needed
			Sidewalk and curb paving in progress

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A									

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.
Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.
Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.
Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.


STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 02/10/2020

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	02/13/2020 12:00 pm	Y	Periodic SF maintenance and Street Sweeping needed
			Sidewalk and curb paving in progress

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A									

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.
Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.
Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.
Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

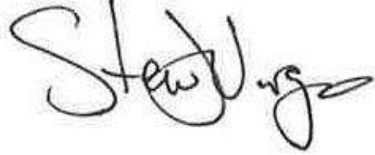
STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 02/24/2020

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	02/24/2020 1:00 pm	Y	Periodic SF maintenance and Street Sweeping needed
			Sidewalk and curb paving in progress
			Stockpile Area silt fence maintenance is needed.

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A									

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.
Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.
Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.
Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

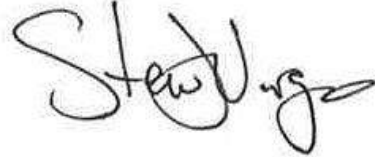
STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 03/02/2020

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	03/06/2020 12:00 pm	Y	Periodic SF maintenance and Street Sweeping needed
			Sidewalk and curb paving in progress
			Stockpile Area silt fence maintenance is complete.

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A									

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.
Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.
Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.
Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

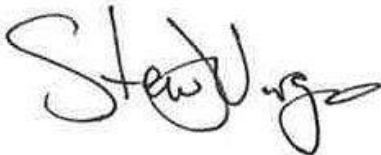
STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 03/09/2020

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	03/11/2020 1:30 pm	Y	Periodic SF maintenance and Street Sweeping needed
			Sidewalk and curb paving in progress

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A									

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.
Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.
Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.
Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

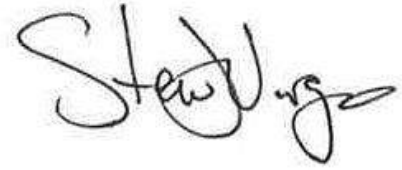
STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 03/30/2020

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	03/30/2020 1:30 pm	Y	Periodic SF maintenance and Street Sweeping needed
			Road paving in progress.
			Stockpile grading fill underway. Check SF regularly for sediment buildup.

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediments outside of disturbed limits (may need to attach additional information)
N/A									

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.
Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.
Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.
Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 04/13/2020

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	04/14/2020 1:30 pm	Y	Periodic SF maintenance and Street Sweeping needed
			Road paving in progress.
			Stockpile grading fill underway. Check SF regularly for sediment buildup.

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediments outside of disturbed limits (may need to attach additional information)
N/A									

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.
Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.
Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.
Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

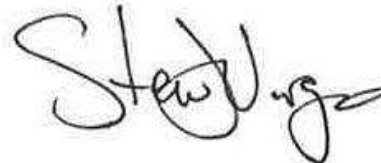
STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 04/27/2020

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:



EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	04/27/2020 1:30 pm	Y	Periodic SF maintenance and Street Sweeping needed
			Road paving in progress.
			Stockpile grading fill underway. Check SF regularly for sediment buildup.
			Gutter Buddy Maintenance needed.

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A									

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.
Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.
Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.
Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 05/04/2020

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

 (Signature of Delegated Authority)

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	05/04/2020 1:30 pm	Y	Periodic Street Sweeping needed
			Road excavation in progress.
			SF repair is needed above drop inlet along eastern edge of stockpile.

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A									

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.
Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.
Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.
Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 05/18/2020

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

 (Signature of Delegated Authority)

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3B	05/18/2020 1:30 pm	Y	Periodic Street Sweeping needed
			Road excavation repair in progress.
			SF repair complete above drop inlet along eastern edge of stockpile.

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A									

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.
Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.
Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.
Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 05/25/2020

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

 (Signature of Delegated Authority)

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3B	05/27/2020 12:30 pm	Y	Stabilization applied to all areas.
			Road excavation repair complete; paved.
			SF repair complete above drop inlet along eastern edge of stockpile.
			Stockpile slope grading.

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A									

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.
Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.
Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.
Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 06/01/2020

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

(Signature of Delegated Authority)

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3B	06/02/2020 10:30 am	Y	Stabilization applied to all areas.
			Road excavation repair complete; paved.
			SF repair complete above drop inlet along eastern edge of stockpile.
			Stockpile slope grading.

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A									

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.
Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.
Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.
Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.

STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 06/08/2020

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

(Signature of Delegated Authority)

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3B	06/12/2020 1:30 pm	Y	Stabilization applied to all areas.
			Road excavation repair complete; paved.
			Stockpile slope stabilization establishing.

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A									

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.
Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.
Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.
Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Art W. Robinson, IV
RLD Name: Gregory Flagg RLD No. RLD 01128
Project Location: Fleets Branch Stream Project No: 212-17980-003
Inspector Name: Steve Vargo Inspection Date: 2020-02-25 Time: 12:30 p
Most Recent Measurable Storm Event: Date: 2020-02-25 Amount: 0.23"

Previous violation(s) been corrected: N/A

STAGE OF CONSTRUCTION

- Pre-Construction Conference
- Clearing & Grubbing
- Rough Grading
- Building Construction
- Finish Grading
- Final Stabilization
- Construction of SW Facilities
- Maintenance of SW Facilities
- Other

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
				Controls installed and functioning; No CAs at this time.

- Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
- Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: N/A (DD/MM/YY) Re-inspection Date: N/A (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Inspector: Steve Vargo ESIN0747 2020-02-26
Signature Date

Acknowledgement of on-site report receipt: _____
 Print Name Signature Date

This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Art W. Robinson, IV
RLD Name: Gregory Flagg RLD No. RLD 01128
Project Location: Fleets Branch Stream Project No: 212-17980-003
Inspector Name: Steve Vargo Inspection Date: 2020-03-06 Time: 9:15 a
Most Recent Measurable Storm Event: Date: 2020-02-26 Amount: 0.19"

Previous violation(s) been corrected: N/A

STAGE OF CONSTRUCTION

- Pre-Construction Conference
- Clearing & Grubbing
- Rough Grading
- Building Construction
- Finish Grading
- Final Stabilization
- Construction of SW Facilities
- Maintenance of SW Facilities
- Other

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
				Controls installed and functioning; No CAs at this time.

- Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
- Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: N/A Re-inspection Date: N/A
(DD/MM/YY) (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Inspector: Steve Vargo ESIN0747 Date: 2020-03-06
Signature te Number

Acknowledgement of on-site report receipt: _____
Print Name Signature Date

This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Art W. Robinson, IV
 RLD Name: Gregory Flagg RLD No. RLD 01128
 Project Location: Fleets Branch Stream Project No: 212-17980-003
 Inspector Name: Steve Vargo Inspection Date: 2020-03-11 Time: 1:00 p
 Most Recent Measurable Storm Event: Date: 2020-02-26 Amount: 0.19"

Previous violation(s) been corrected: N/A

STAGE OF CONSTRUCTION

Pre-Construction Conference Building Construction Construction of SW Facilities
 Clearing & Grubbing Finish Grading Maintenance of SW Facilities
 Rough Grading Final Stabilization Other In-stream structures

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
				Controls installed and functioning; No CAs at this time.
				Ensure filter bags are placed away from erodible slopes.

- Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
- Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: N/A Re-inspection Date: N/A
 (DD/MM/YY) (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Inspector: Steve Vargo ESIN0747 2020-03-12
 Signatu te Number Date

Acknowledgement of on-site report receipt: _____
 Print Name Signature Date

This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Art W. Robinson, IV
RLD Name: Gregory Flagg RLD No. RLD 01128
Project Location: Fleets Branch Stream Project No: 212-17980-003
Inspector Name: Steve Vargo Inspection Date: 2020-03-24 Time: 1pm
Most Recent Measurable Storm Event: Date: 2020-03-23 Amount: 0.74"

Previous violation(s) been corrected: N/A

STAGE OF CONSTRUCTION

- Pre-Construction Conference
- Clearing & Grubbing
- Rough Grading
- Building Construction
- Finish Grading
- Final Stabilization
- Construction of SW Facilities
- Maintenance of SW Facilities
- Other Stream Structures

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
				All controls installed and functioning.
				No corrective actions at this time.

- Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
- Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: N/A Re-inspection Date: N/A
(DD/MM/YY) (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Inspector: Steve Vargo ESIN 0747 2020-03-28
Signature Date

Acknowledgement of on-site report receipt: _____
Print Name Signature Date

This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Art W. Robinson, IV
RLD Name: Gregory Flagg RLD No. RLD 01128
Project Location: Fleets Branch Stream Project No: 212-17980-003
Inspector Name: Steve Vargo Inspection Date: 2020-03-30 Time: 1pm
Most Recent Measurable Storm Event: Date: 2020-03-23 Amount: 0.74"

Previous violation(s) been corrected: N/A

STAGE OF CONSTRUCTION

- Pre-Construction Conference
- Clearing & Grubbing
- Rough Grading
- Building Construction
- Finish Grading
- Final Stabilization
- Construction of SW Facilities
- Maintenance of SW Facilities
- Other Stream Structures

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
				All controls installed and functioning.
				No corrective actions at this time.

- Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
- Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: N/A Re-inspection Date: N/A
(DD/MM/YY) (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Inspector: Steve Vargo ESIN 0747 Date: 2020-03-30
Signature Date

Acknowledgement of on-site report receipt: _____
 Print Name Signature Date

This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Art W. Robinson, IV
RLD Name: Gregory Flagg RLD No. RLD 01128
Project Location: Fleets Branch Stream Project No: 212-17980-003
Inspector Name: Steve Vargo Inspection Date: 2020-04-09 Time: 1pm
Most Recent Measurable Storm Event: Date: 2020-04-08 Amount: 0.25"

Previous violation(s) been corrected: N/A

STAGE OF CONSTRUCTION

- Pre-Construction Conference
- Clearing & Grubbing
- Rough Grading
- Building Construction
- Finish Grading
- Final Stabilization
- Construction of SW Facilities
- Maintenance of SW Facilities
- Other Stream Structures

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
				All controls installed and functioning.
				No corrective actions at this time.

- Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
- Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: N/A Re-inspection Date: N/A
(DD/MM/YY) (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Inspector: Steve Vargo ESIN 0747 Date: 2020-04-09
Signature Date

Acknowledgement of on-site report receipt: _____
Print Name Signature Date

This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:

STORMWATER INSPECTIONS FOR VSMP GENERAL PERMIT LAND DISTURBING ACTIVITIES

PROJECT: VSU Trunk Sewer Extension
 MONITORING FOR THE WEEK BEGINNING: 04/13/2020

RAINFALL: *Not applicable as inspections are conducted every 4 days.*

Date of Rain	Amount (inches)	Initials

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

(Signature of Delegated Authority)

EROSION AND SEDIMENT CONTROL FACILITIES INSPECTED: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Facility Identification	Date and Time of Inspection	Operating Properly (Y/N)	Description of inspection observations
PH 3A	04/14/2020 1:30 pm	Y	Periodic SF maintenance and Street Sweeping needed
			Road paving in progress.
			Stockpile grading fill underway. Check SF regularly for sediment buildup.

OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS: (Inspections shall be conducted according to Part IIF2 of the Permit. However, if the discharges of stormwater from construction activities are to surface waters identified as impaired, inspections shall be conducted according to Part IB4d.)

Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list and describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of disturbed limits (may need to attach additional information)
N/A									

Clarity: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.
Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.
Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.
Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N.



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Art W. Robinson, IV
 RLD Name: Gregory Flagg RLD No. RLD 01128
 Project Location: Fleets Branch Stream Project No: 212-17980-003
 Inspector Name: Steve Vargo Inspection Date: 04-16-20 Time: 1:30 pm
 Most Recent Measurable Storm Event: Date: 04-14-20 Amount: 0.63"

Previous violation(s) been corrected: No Previous Violations

STAGE OF CONSTRUCTION

- | | | |
|--|--|---|
| Pre-Construction Conference <input type="checkbox"/> | Building Construction <input type="checkbox"/> | Construction of SW Facilities <input type="checkbox"/> |
| Clearing & Grubbing <input type="checkbox"/> | Finish Grading <input type="checkbox"/> | Maintenance of SW Facilities <input type="checkbox"/> |
| Rough Grading <input checked="" type="checkbox"/> | Final Stabilization <input type="checkbox"/> | Other <u>Stream Restoration</u> <input checked="" type="checkbox"/> |

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
				No Corrective Actions at this time

1. Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
2. Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: N/A (DD/MM/YY) Re-inspection Date: N/A (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the abc

Inspector: Steve Vargo ESIN0747 04/21/20
 Signature and Date

Acknowledgement of on-site report receipt: _____
 Print Name Signature Date

This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Art W. Robinson, IV
 RLD Name: Gregory Flagg RLD No. RLD 01128
 Project Location: Fleets Branch Stream Project No: 212-17980-003
 Inspector Name: Steve Vargo Inspection Date: 2020-05-04 Time: 1:40 pm
 Most Recent Measurable Storm Event: Date: 2020-05-01 Amount: 1.74"

Previous violation(s) been corrected: N/A - No previous violations

STAGE OF CONSTRUCTION

- | | | |
|--|--|--|
| Pre-Construction Conference <input type="checkbox"/> | Building Construction <input type="checkbox"/> | Construction of SW Facilities <input type="checkbox"/> |
| Clearing & Grubbing <input type="checkbox"/> | Finish Grading <input type="checkbox"/> | Maintenance of SW Facilities <input type="checkbox"/> |
| Rough Grading <input type="checkbox"/> | Final Stabilization <input type="checkbox"/> | Other In-stream work <input checked="" type="checkbox"/> |

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
				No corrective actions needed at this time. All controls installed and functioning.

1. Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
2. Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: N/A Re-inspection Date: N/A
(DD/MM/YY) (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Inspector: Steve Vargo ESIN0747 2020-05-05
Signature and number Date

Acknowledgement of on-site report receipt: _____
Print Name Signature Date

This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Art W. Robinson, IV
RLD Name: Gregory Flagg RLD No. RLD 01128
Project Location: Fleets Branch Stream Project No: 212-17980-003
Inspector Name: Steve Vargo Inspection Date: 2020-05-18 Time: 1pm
Most Recent Measurable Storm Event: Date: 2020-05-09 Amount: 0.12"

Previous violation(s) been corrected: N/A

STAGE OF CONSTRUCTION

- Pre-Construction Conference
- Clearing & Grubbing
- Rough Grading
- Building Construction
- Finish Grading
- Final Stabilization
- Construction of SW Facilities
- Maintenance of SW Facilities
- Other Stream Grading

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
				No violations at this time

- Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
- Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: N/A (DD/MM/YY) Re-inspection Date: N/A (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Inspector: Steve Vargo Sign: [Signature] Date: 2020-05-18

Acknowledgement of c _____ Signature _____ Date _____

This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Art W. Robinson, IV
RLD Name: Gregory Flagg RLD No. RLD 01128
Project Location: Fleets Branch Stream Project No: 212-17980-003
Inspector Name: Steve Vargo Inspection Date: 2020-05-18 Time: 2pm
Most Recent Measurable Storm Event: Date: 2020-05-22 Amount: 0.33"

Previous violation(s) been corrected: N/A

STAGE OF CONSTRUCTION

- Pre-Construction Conference
- Clearing & Grubbing
- Rough Grading
- Building Construction
- Finish Grading
- Final Stabilization
- Construction of SW Facilities
- Maintenance of SW Facilities
- Other Stream Grading

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
				No violations at this time

- Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
- Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: N/A (DD/MM/YY) Re-inspection Date: N/A (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance c

Inspector: Steve Vargo Date: 2020-05-27

Acknowledgement of: _____
 Print Name _____ Signature _____ Date _____

This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Art W. Robinson, IV
RLD Name: Gregory Flagg RLD No. RLD 01128
Project Location: Fleets Branch Stream Project No: 212-17980-003
Inspector Name: Steve Vargo Inspection Date: 2020-05-18 Time: 1:30pm
Most Recent Measurable Storm Event: Date: 2020-06-06 Amount: 0.53"

Previous violation(s) been corrected: N/A

STAGE OF CONSTRUCTION

- Pre-Construction Conference
- Clearing & Grubbing
- Rough Grading
- Building Construction
- Finish Grading
- Final Stabilization
- Construction of SW Facilities
- Maintenance of SW Facilities
- Other Stream Grading

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
				No violations at this time

- Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
- Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: N/A (DD/MM/YY) Re-inspection Date: N/A (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Inspector: Steve Vargo Date: 2020-06-12

Acknowledgement of: _____
 Print Name: _____ Signature: _____ Date: _____

This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:

Matthew Webb

From: Jonathan A. Taylor <jataylor@vsu.edu>
Sent: Monday, June 29, 2020 2:19 PM
To: Meredith Dickerson
Cc: Steve Vargo; Steve Hostetler; Matthew Webb; Josh MacDonald; Caleb Yost; Gilbert Hanzlik; Jane S. Harris
Subject: VSU 212-17980-001 stockpile
Attachments: VAR109268_InspReport_6-15-2020.pdf

Good Afternoon

Please correct the deficiency for the second avenue silt fence noted in the report and as we discussed.

Thanks

Jonathan A Taylor
Virginia State University
Director of Capital Outlay
Physical Plant Building
2916 Myster Macklin Street
PO Box 9414, Suite 25
Virginia State University, VA 23806
804 504 7500 office
804 524 5383 fax
jataylor@vsu.edu

At VSU, we are proudly committed to:

- Providing a transformative experience for our students
- Strategically investing in our academic programs
- Embracing our position as a top Land Grant University
- Embracing our role as Virginia's Opportunity University
- Partnering together as a University to tell our story

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Appendix MCM 5



STORMWATER MANAGEMENT

P.O. Box 1301
Midlothian VA 23113
(804) 302-5151,
Info@exactstorm.com
03/02/2020

CUSTOMER	SERVICE LOCATION
Timmons Group Aislinn Creel 1001 Boulders Parkway, Suite 300 Richmond VA 23225 (804) 200-6544	VSU Virginia State University 1 Hayden Dr. Petersburg VA

JOB DETAILS	<p>Corrective Maintenance</p> <p>A. Underground BMP's</p> <p>1. Clean out/sediment removal:</p> <p>Unit # 15: Underground Detention Unit # 25: Underground CMP Detention Unit # 27: Combined Sandfilter and Storage Chamber Unit # 31: Delaware Sand Filter Unit # 35: Contech Stormfilter</p> <p>2. Raise Inlets</p> <p>Unit # 36: Underground Storage Vault/Rain Tank</p> <p>B. Surface BMP's:</p> <p>Remove trash in basin & address erosion Unit # 46: Basin Type III (Trojan Pond)</p> <p>C. Filterra</p> <p>Tree Replacement: Remove and replace trees. Media may be needed to replace what is lost in tree removal. Media is listed at unit cost. Any media used in tree replacement will be added to other units to replace loss during sediment removal or contaminate issues.</p> <p>Unit # 7: Filterra (parking lot unit) Unit # 19: Filterra (roof drain unit)</p>
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COMPLETION NOTES	
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PICTURES



Unit 6 after



Unit 7 tree removal



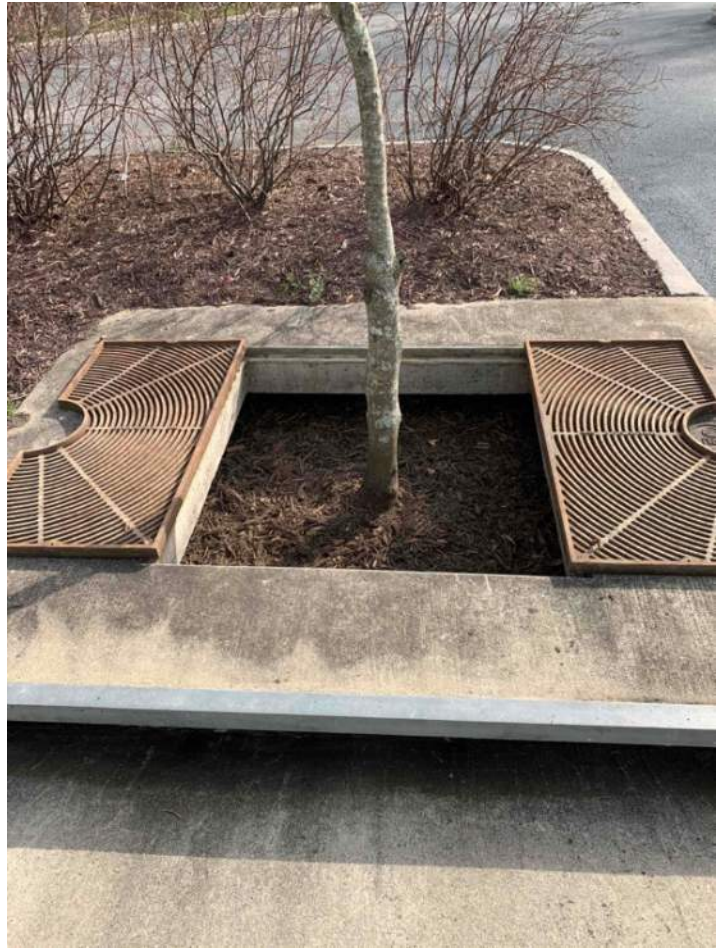
Unit 7 media replacement



Unit 7 after



Unit 8 after



Unit 9 after



Unit 10 after



Unit 11 after



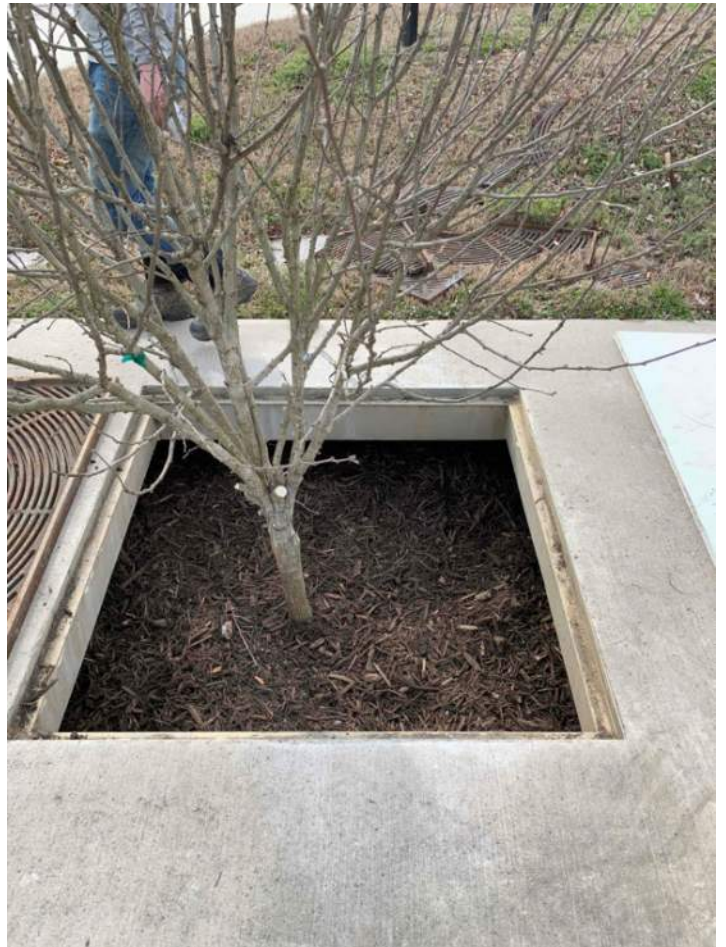
Unit 12 after



Unit 13 after



Unit 41 after



Unit 42 after - one side of grate is missing and has a board as a temporary replacement



Unit 43 after



Unit 44 after



STORMWATER MANAGEMENT

P.O. Box 1301
Midlothian VA 23113
(804) 302-5151,
Info@exactstorm.com
03/05/2020

CUSTOMER	SERVICE LOCATION
Timmons Group Aislinn Creel 1001 Boulders Parkway, Suite 300 Richmond VA 23225 (804) 200-6544	VSU Virginia State University 1 Hayden Dr. Petersburg VA

JOB DETAILS	<p>Corrective Maintenance</p> <p>A. Underground BMP's</p> <p>1. Clean out/sediment removal:</p> <p>Unit # 15: Underground Detention Unit # 25: Underground CMP Detention Unit # 27: Combined Sandfilter and Storage Chamber Unit # 31: Delaware Sand Filter Unit # 35: Contech Stormfilter</p> <p>2. Raise Inlets</p> <p>Unit # 36: Underground Storage Vault/Rain Tank</p> <p>B. Surface BMP's:</p> <p>Remove trash in basin & address erosion Unit # 46: Basin Type III (Trojan Pond)</p> <p>C. Filterra</p> <p>Tree Replacement: Remove and replace trees. Media may be needed to replace what is lost in tree removal. Media is listed at unit cost. Any media used in tree replacement will be added to other units to replace loss during sediment removal or contaminate issues.</p> <p>Unit # 7: Filterra (parking lot unit) Unit # 19: Filterra (roof drain unit)</p>
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COMPLETION NOTES	
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PICTURES



Unit 1 after



Unit 2 after



Unit 3 after



Unit 4 after



Unit 5 after



Unit 16 after



Unit 17 after



Unit 18 after.



Unit 19 removing tree.



Unit 19 tree replaced and unit maintenance complete. Added media to replace lost during tree replacement.



Unit 20 after



Unit 21 after.



Unit 44 after



CMP 15 before



CMP 15 after. Removed 800 gal



CMP 15 low flow is clear.



CMP 15 after.



Filled erosion area with topsoil



Seed and straw installed



Opening up unit 31.



Before. Chamber 1 of unit 31.



Before. Unit 31 chamber 2.



Unit 31 chamber 3. No debris to remove.



Making entry into unit 31



Vacing unit 31.



STORMWATER MANAGEMENT

P.O. Box 1301
Midlothian VA 23113
(804) 302-5151,
Info@exactstorm.com
03/10/2020

CUSTOMER	SERVICE LOCATION
Timmons Group Aislinn Creel 1001 Boulders Parkway, Suite 300 Richmond VA 23225 (804) 200-6544	VSU Virginia State University 1 Hayden Dr. Petersburg VA

JOB DETAILS	<p>Corrective Maintenance</p> <p>A. Underground BMP's</p> <p>1. Clean out/sediment removal:</p> <p>Unit # 15: Underground Detention Unit # 25: Underground CMP Detention Unit # 27: Combined Sandfilter and Storage Chamber Unit # 31: Delaware Sand Filter Unit # 35: Contech Stormfilter</p> <p>2. Raise Inlets</p> <p>Unit # 36: Underground Storage Vault/Rain Tank</p> <p>B. Surface BMP's:</p> <p>Remove trash in basin & address erosion Unit # 46: Basin Type III (Trojan Pond)</p> <p>C. Filterra</p> <p>Tree Replacement: Remove and replace trees. Media may be needed to replace what is lost in tree removal. Media is listed at unit cost. Any media used in tree replacement will be added to other units to replace loss during sediment removal or contaminate issues.</p> <p>Unit # 7: Filterra (parking lot unit) Unit # 19: Filterra (roof drain unit)</p>
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COMPLETION NOTES	
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PICTURES



25 before.



25 after.



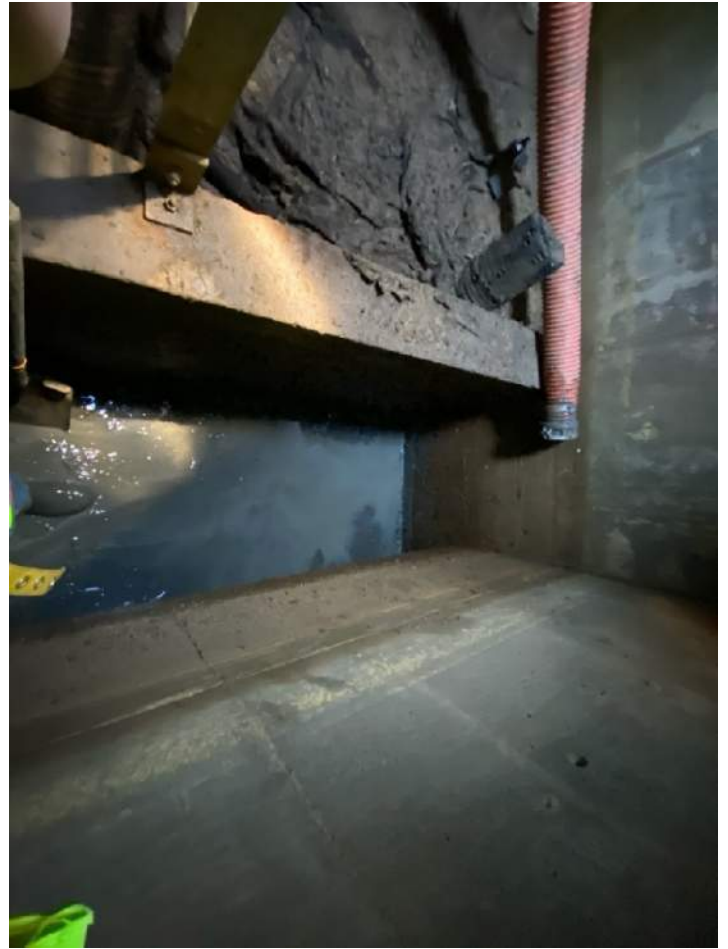
25 before.



25 after.



27 after.



27 after



Set up for 35



STORMWATER MANAGEMENT

P.O. Box 1301
Midlothian VA 23113
(804) 302-5151,
Info@exactstorm.com
03/10/2020

CUSTOMER	SERVICE LOCATION
Timmons Group Aislinn Creel 1001 Boulders Parkway, Suite 300 Richmond VA 23225 (804) 200-6544	VSU Virginia State University 1 Hayden Dr. Petersburg VA

JOB DETAILS	<p>Corrective Maintenance</p> <p>A. Underground BMP's</p> <p>1. Clean out/sediment removal:</p> <p>Unit # 15: Underground Detention Unit # 25: Underground CMP Detention Unit # 27: Combined Sandfilter and Storage Chamber Unit # 31: Delaware Sand Filter Unit # 35: Contech Stormfilter</p> <p>2. Raise Inlets</p> <p>Unit # 36: Underground Storage Vault/Rain Tank</p> <p>B. Surface BMP's:</p> <p>Remove trash in basin & address erosion Unit # 46: Basin Type III (Trojan Pond)</p> <p>C. Filterra</p> <p>Tree Replacement: Remove and replace trees. Media may be needed to replace what is lost in tree removal. Media is listed at unit cost. Any media used in tree replacement will be added to other units to replace loss during sediment removal or contaminate issues.</p> <p>Unit # 7: Filterra (parking lot unit) Unit # 19: Filterra (roof drain unit)</p>
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COMPLETION NOTES	
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PICTURES



Set up for 35



35 after pressure wash and vac.



Unit 36. Screen installed. #1



Unit 36. Screen installed #2

Basin Inspections

Submitted by: Anonymous user

Inspector Name

Todd.Shank@VDOT.Virginia.gov

Inspection Type

Annual Inspection

Inspection Date

Jan 2, 2020

NEXTINSPDATE

Jan 1, 2021

REL_GLOBALID

{37907D3A-0553-46B5-9014-E0905A49CD15}

Accessibility

General Access

BMP is sufficiently accessible

Yes

Gates and Locks

Gate is acceptably operable

Yes

Fences

Fence in acceptable condition

No

Vegetation removal and/or minor adjustments necessary

Yes

Fence in disrepair or portions of fence missing

Yes

Signs

BMP ID and/or Instructional signs stipulated on plans are present and in good condition; posts are vertical and stable

Yes

Manhole Covers at Initial Access

Manhole covers and inlet grates are in good repair and securely in place

N/A

Inflow Area/ Inlet Channel(s)

Erosion, Sediment, Trash and Debris

The BMP surface inflow area is free of erosion, sediment, trash, or debris

Yes

Inflow Area Surface Condition

Turf or other herbaceous vegetative coverage in the inflow area is greater than 75%

Yes

Landscaping plant material (trees, shrubs, ground covers) survival is greater than 75% of design

Yes

Impoundment – Treatment Area

Trash and Debris

BMP impoundment (water storage/treatment), bottom area and shoreline free of trash or debris

Yes

Sediment Accumulation

The non-pool area of the BMP bottom, Dry Detention Basin pilot channel, excavated side slopes and shoreline are free of sediment accumulation

Yes

Vegetation

The non-pool area of the BMP bottom area and on the basin's excavated side slopes and shoreline has greater than 75% coverage of turf or other herbaceous vegetation

Yes

The BMP bottom, excavated side slopes and shoreline are free of undesirable or invasive vegetation

Yes

The non-pool area of the BMP bottom area, excavated side slopes and shoreline are free of overgrown vegetation

Yes

Structural Damage

The Dry Detention Basin pilot channel is free of damage

Yes

Control Structure (Principal Spillway/Riser Pipe)

Vegetation

The area within 25 feet of the Control Structure is free of woody or excessive vegetation

Yes

Control Structure Access

Control Structure manhole ladder/steps, cover and/or access door appear to be present, secure, and operational without damage

Yes

Sediment and Debris

The Control Structure appears to be free of sediment or debris (inside and outside)

Yes

Structural Issues

The metal features of the Control Structure are free of rust/corrosion

Yes

Concrete on the Control Structure is free of spalling

Yes

Control Structure joints appear to be water-tight

Yes

The Control Structure appears to have no structural deficiencies or concerns

Yes

Low-Flow Orifice

Low-Flow Orifice is free of obstructions

Yes

Low-flow orifice trash guard is securely in place, undamaged and functional

No

Original trash rack not attached but present on site, or no trash rack observed where there appears to be a need

Yes

Dam Embankment and Emergency Spillway

Vegetation

Embankment and spillway appear to be acceptably mowed and free of overgrown, woody or other undesirable vegetation

No

Embankment Integrity

The BMP is free of animal burrows

Yes

The embankment face and spillway are free of erosion

Yes

The embankment face and spillway are free of surface depressions or sinkholes

Yes

The embankment area and spillway are free of cracking, bulging, or sloughing

Yes

The embankment area and spillway are free of soft, saturated, or boggy areas

Yes

Discharge points from Dam Seepage Controls (dewatering features within the embankment) appear to be either dry or discharging clear water

N/A

Emergency Spillway Conditions

The emergency spillway or overflow weir surface is free of structural deficiencies or concerns

N/A

Outlet Structure and Discharge Channel

Erosion, Sediment, Debris and Trash

The outlet area is free of sediment, debris or trash

Yes

The outlet area is free of woody or overgrown vegetation within 25 feet of the structure

Yes

Discharge structures (end walls, headwalls, end sections, etc.) are free of issues that could impact or inhibit flow or stability

Yes

The area around the outlet is free of scour or erosion

Yes

Outlet energy dissipator and erosion control protection (e.g., riprap) is free of scour, erosion or displacement

N/A

Receiving Channel or Storm Sewer

The outlet receiving channel or outlet storm sewer pipe is free of detrimental impacts (erosion, blockages, signs of flooding, etc.)

Yes

Basin Notes

Action items

1. Accessibilty/Fences

a.Repair fence and posts in two locations on perimeter fencing.

b.Remove trees and woody vegetation on fenceline.

2.Dam embankment

Remove 3 piles of tree stakes staged along fenceline

3.Control Structure- Install missing trash rack at low flow orifice.

Attachments:



DEESVG_PIC2-20200102-142658.jpg



Filterra BMPs

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh		Type: Inlet / <u>Roof</u>		Size: <u>4x6</u>	
BMP ID #: Unit 1		Date/Time: <u>March 3, 2020</u>			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	N	<u>NA</u>		
Stones in Need of Replacement?	Y	<u>N</u>	NA		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):	16"	<u>23"</u>			
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced:		<u>3/2/2020</u>			
Plantings					
Note: Column #1 is the plant to the left when facing the throat of the inlet and column #2 is the plant to the right when facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>8'</u>		Health of plant(s)	<u>Alive</u> / Dead	Alive / Dead
Stem Diameter/Caliper (in.):	<u>2"</u>		Damage to plant(s)?	Y / <u>N</u>	Y / N
Width at Widest Point (ft.):	<u>12'</u>		Plant(s) replaced?	Y / <u>N</u>	Y / N



BMP ID #: <u>Unit 1</u>	Date/Time:
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Notes:

This facility appeared to be functioning properly during the time of inspection. Maintenance was just performed. Continue performing routine maintenance.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."



 Signature of Inspector

3/3/2020

 Date

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector

 Date

Next inspection date: _____



Filterra BMPs

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh		Type: Inlet / <u>Roof</u>		Size: <u>4x6</u>	
BMP ID #: Unit 2		Date/Time: <u>March 3, 2020</u>			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	N	<u>NA</u>		
Stones in Need of Replacement?	Y	<u>N</u>	NA		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):		<u>23"</u>			
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced: <u>3/2/2020</u>					
Plantings					
Note: Column #1 is the plant to the left when facing the throat of the inlet and column #2 is the plant to the right when facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>8'</u>		Health of plant(s)	<u>Alive</u> / Dead	Alive / Dead
Stem Diameter/Caliper (in.):	<u>2"</u>		Damage to plant(s)?	Y / <u>N</u>	Y / N
Width at Widest Point (ft.):	<u>9'</u>		Plant(s) replaced?	Y / <u>N</u>	Y / N



BMP ID #: Unit 2	Date/Time:
------------------	------------

Notes:

No issues pertaining to this facility during the time of inspections. It is important to continue performing maintenance on this facility as needed.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."



 Signature of Inspector Date 3/3/2020

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector Date

Next inspection date: _____



Filterra BMPs

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh		Type: Inlet / <u>Roof</u>		Size: <u>4x6</u>	
BMP ID #: Unit 3		Date/Time: <u>March 3, 2020</u>			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	N	<u>NA</u>		
Stones in Need of Replacement?	Y	<u>N</u>	NA		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):		<u>23"</u>			
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced:		<u>3/3/2020</u>			
Plantings					
Note: Column #1 is the plant to the left when facing the throat of the inlet and column #2 is the plant to the right when facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>8'</u>		Health of plant(s)	<u>Alive</u> / Dead	Alive / Dead
Stem Diameter/Caliper (in.):	<u>3"</u>		Damage to plant(s)?	Y / <u>N</u>	Y / N
Width at Widest Point (ft.):	<u>10.5'</u>		Plant(s) replaced?	Y / <u>N</u>	Y / N



BMP ID #: Unit 3	Date/Time:
------------------	------------


Notes:

This Filterra unit is in compliance. No issues were noted during the time of inspection. It is important to continue performing routine maintenance as needed.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."


 Signature of Inspector

3/3/2020
 Date

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector

 Date

Next inspection date: _____



BMP ID #: Unit 4	Date/Time:
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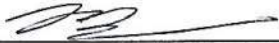
Notes:

No issues with this facility during the time of inspection.
 It appears to be functioning as designed.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."



 Signature of Inspector

 Date

3/3/2020

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector

 Date

Next inspection date: _____



Filterra BMPs

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh		Type: Inlet / <u>Roof</u>		Size: <u>4x6</u>	
BMP ID #: Unit 5		Date/Time: <u>March 3, 2020</u>			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	N	<u>NA</u>		
Stones in Need of Replacement?	Y	<u>N</u>	NA		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):		<u>23"</u>			
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced:		<u>3/2/2020</u>			
Plantings					
Note: Column #1 is the plant to the left when facing the throat of the inlet and column #2 is the plant to the right when facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>9'</u>		Health of plant(s)	<u>Alive</u> / Dead	Alive / Dead
Stem Diameter/Caliper (in.):	<u>2.5"</u>		Damage to plant(s)?	Y / <u>N</u>	Y / N
Width at Widest Point (ft.):	<u>11.5'</u>		Plant(s) replaced?	Y / <u>N</u>	Y / N



BMP ID #: Unit 5	Date/Time:
------------------	------------


Notes:

Facility is functioning as designed. No issues with this facility during the time of inspection. Continue performing routine maintenance.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."



 Signature of Inspector

 3/3/2020
 Date

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector

 Date

Next inspection date: _____



Filterra BMPs

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh		Type: Inlet / <u>Roof</u>		Size: <u>4x6</u>	
BMP ID #: Unit 6		Date/Time: <u>3/5/2020</u>			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	N	<u>NA</u>		
Stones in Need of Replacement?	Y	<u>N</u>	NA		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):		<u>23"</u>			
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced: <u>3/2/2020</u>					
Plantings					
Note: Column #1 is the plant to the left when facing the throat of the inlet and column #2 is the plant to the right when facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>9.5'</u>		Health of plant(s)	<u>Alive</u> / Dead	Alive / Dead
Stem Diameter/Caliper (in.):	<u>2.25"</u>		Damage to plant(s)?	Y / <u>N</u>	Y / N
Width at Widest Point (ft.):	<u>10'</u>		Plant(s) replaced?	Y / <u>N</u>	Y / N



BMP ID #: Unit 6	Date/Time:
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Notes:

No issues with this roof filterra during time of inspection. It appears to be functioning as designed. Continue performing routine maintenance.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."



 Signature of Inspector

 Date

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector

 Date

Next inspection date: _____



BMP ID #: Unit 7	Date/Time:
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Notes:

This filterra unit is functioning properly. The tree has just been replaced due to the fact that the old tree had died. Continue performing routine maintenance on this facility to ensure its overall functionality and longevity.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."



 Signature of Inspector

3/3/2020

 Date

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector

 Date

Next inspection date: _____



Filterra BMPs

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh		Type: <u>Inlet</u> / Roof		Size: <u>6 x 8</u>	
BMP ID #: Unit 8		Date/Time: <u>March 3, 2020</u>			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	N	<u>NA</u>		
Stones in Need of Replacement?	Y	<u>N</u>	NA		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):	<u>16"</u>				
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced: <u>Mulch replaced on 3/2/2020</u>					
Plantings					
Note: Column #1 is the plant to the left when facing the throat of the inlet and column #2 is the plant to the right when facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>10'</u>		Health of plant(s)	<u>Alive</u> / Dead	Alive / Dead
Stem Diameter/Caliper (in.):	<u>3"</u>		Damage to plant(s)?	Y / <u>N</u>	Y / N
Width at Widest Point (ft.):	<u>12'</u>		Plant(s) replaced?	Y / <u>N</u>	Y / N



BMP ID #: Unit 8	Date/Time:
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Notes:

This facility is in good functioning order. No issues noted for this Filterna during the time of the inspection. Continue performing routine maintenance on this facility as needed.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."



 Signature of Inspector

 Date

3/3/2020

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector

 Date

Next inspection date: _____



Filterra BMPs

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh		Type: <u>Inlet</u> / Roof		Size: <u>6x8</u>	
BMP ID #: Unit 9		Date/Time: <u>March 3, 2020</u>			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	N	<u>NA</u>		
Stones in Need of Replacement?	Y	<u>N</u>	NA		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):	<u>16"</u>				
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced:		<u>3/2/2020</u>			
Plantings					
Note: Column #1 is the plant to the left when facing the throat of the inlet and column #2 is the plant to the right when facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>9'</u>		Health of plant(s)	<u>Alive</u> / Dead	Alive / Dead
Stem Diameter/Caliper (in.):	<u>4"</u>		Damage to plant(s)?	Y / <u>N</u>	Y / N
Width at Widest Point (ft.):	<u>8'</u>		Plant(s) replaced?	Y / <u>N</u>	Y / N



BMP ID #: Unit 9	Date/Time:
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Notes:

No issues with this facility during the time of inspection. It appears this Filterra unit is functioning as it was designed. It is important to perform routine maintenance on this facility. This will help ensure its overall functionality and longevity.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."



 Signature of Inspector

 Date

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector

 Date

Next inspection date: _____



Filterra BMPs
Inspection & Maintenance Checklist

Inspector Name: Reid Walsh		Type: <u>Inlet</u> / Roof		Size: 7x13	
BMP ID #: Unit 10		Date/Time: March 3, 2020			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	N	<u>NA</u>		
Stones in Need of Replacement?	Y	<u>N</u>	NA		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):	16"				
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced: 3/2/2020					
Plantings					
Note: Column #1 is the plant to the left when facing the throat of the inlet and column #2 is the plant to the right when facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	11'	5'	Health of plant(s)	<u>Alive</u> / Dead	<u>Alive</u> / Dead
Stem Diameter/Caliper (in.):	3"	1"	Damage to plant(s)?	Y / <u>N</u>	Y / <u>N</u>
Width at Widest Point (ft.):	10'	4'	Plant(s) replaced?	Y / <u>N</u>	Y / <u>N</u>



BMP ID #: Unit 11	Date/Time:
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Notes:

This facility appeared to be functioning properly during the time of the inspection. Please continue performing routine maintenance on an as needed basis.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."



 Signature of Inspector

 Date

3/3/2020

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector

 Date

Next inspection date: _____



Filterra BMPs

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh		Type: <u>Inlet</u> / Roof		Size:	
BMP ID #: Unit 12		Date/Time: <u>March 3, 2020</u>			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	N	<u>NA</u>		
Stones in Need of Replacement?	Y	<u>N</u>	NA		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):	<u>16¹¹</u>				
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced: <u>3/2/2020</u>					
Plantings					
Note: Column #1 is the plant to the left when facing the throat of the inlet and column #2 is the plant to the right when facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>7.5¹</u>		Health of plant(s)	<u>Alive</u> / Dead	Dead
Stem Diameter/Caliper (in.):	<u>3¹¹</u>		Damage to plant(s)?	Y / <u>N</u>	Y / N
Width at Widest Point (ft.):	<u>5.5¹</u>		Plant(s) replaced?	Y / <u>N</u>	Y / N



BMP ID #: Unit 12

Date/Time:

Notes:

This filterra is funtioning as designed. We did not notice any deficiencies during the time of inspection. Continue performing routine maintenance on regular basis to help ensure this systems overall functionality

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."



Signature of Inspector

3/3/2020

Date

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

Signature of Inspector

Date

Next inspection date: _____



Filterra BMPs
Inspection & Maintenance Checklist

Inspector Name: Reid Walsh		Type: <u>Inlet</u> / Roof		Size: <u>4x6</u>	
BMP ID #: Unit 13		Date/Time: <u>March 3, 2020</u>			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	N	<u>NA</u>		
Stones in Need of Replacement?	Y	<u>N</u>	NA		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):	<u>16"</u>				
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced: <u>3/2/2020</u>					
Plantings					
Note: Column #1 is the plant to the left when facing the throat of the inlet and column #2 is the plant to the right when facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>11'</u>		Health of plant(s)	<u>Alive</u> / Dead	Alive / Dead
Stem Diameter/Caliper (in.):	<u>6"</u>		Damage to plant(s)?	Y / <u>N</u>	Y / N
Width at Widest Point (ft.):	<u>11'</u>		Plant(s) replaced?	Y / <u>N</u>	Y / N



BMP ID #: Unit 13

Date/Time:

Notes:

The facility is functioning per its design. We did not notice any issues with this Filterna unit at all. Maintenance was just performed and the facility looks brand new.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."



Signature of Inspector

3/3/2020

Date

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

Signature of Inspector

Date

Next inspection date: _____



**Underground Detention Systems
 (Water Quantity)**

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh		Type of BMP: <i>Underground Detention</i>	
BMP ID #: Unit 15		Date/Time: <i>3/6/2020</i>	
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
I. Internal Storage Area			
A. Sediment present?	<i>Y</i>	<i>N</i>	<i>< 1-2" in all three manholes</i>
B. Trash/debris present?	<i>N</i>	<i>N</i>	
C. Separation of joints, cracks, breaks, or deterioration of structure?	<i>N</i>	<i>N</i>	
D. Algal growth present?	<i>N</i>	<i>N</i>	
E. Evidence of seepage, leakage, or rust?	<i>N</i>	<i>N</i>	
F. Evidence of pollutants?	<i>N</i>	<i>N</i>	
Inlet & Outlet Piping			
A. Inspection manhole functioning properly?	<i>Y</i>	<i>N</i>	
B. Clogging of inflow pipes?	<i>N</i>	<i>N</i>	
C. Clogging of outflow pipes?	<i>N</i>	<i>N</i>	



BMP ID #: Unit 15			Date/Time:
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
D. Obstruction?	N	N	
E. Adequate riprap (if applicable)?	N/A	N/A	
F. Undercutting at the outlet?	N/A	N/A	
G. Outlet channel scour?	N/A	N/A	

Notes:

This underground detention appeared to be functioning as designed during this inspection. Continue routine maintenance as needed.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."

Signature of Inspector

Date



3/6/2020

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

Signature of Inspector

Date

Next inspection date: _____



Filterra BMPs

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh		Type: Inlet / <u>Roof</u>		Size: 4x6	
BMP ID #: Unit 16		Date/Time: 3/5/2020			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	<u>N</u>	NA		
Stones in Need of Replacement?	Y	N	<u>NA</u>		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):		23"			
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced: 3/2/2020					
Plantings					
Note: Column #1 is the plant to the left when facing the throat of the inlet and column #2 is the plant to the right when facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	14'		Health of plant(s)	<u>Alive</u> / Dead	Alive / Dead
Stem Diameter/Caliper (in.):	2.5"		Damage to plant(s)?	Y / <u>N</u>	Y / N
Width at Widest Point (ft.):	47'		Plant(s) replaced?	Y / <u>N</u>	Y / N



BMP ID #: Unit 16	Date/Time:
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Notes:

This facility appeared to be functioning in good order. There were no signs of deficiencies regarding this system. Continue performing routine maintenance as needed.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."



 Signature of Inspector

 Date

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector

 Date

Next inspection date: _____



Filterra BMPs

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh		Type: Inlet / <u>Roof</u>		Size: 4x6	
BMP ID #: Unit 17		Date/Time: 3/5/2020			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	N	<u>NA</u>		
Stones in Need of Replacement?	Y	<u>N</u>	<u>NA</u>		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):		23"			
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced:		3/2/2020			
Plantings					
Note: Column #1 is the plant to the left when facing the throat of the inlet and column #2 is the plant to the right when facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	13'		Health of plant(s)	<u>Alive</u> / Dead	Alive / Dead
Stem Diameter/Caliper (in.):	2.5"		Damage to plant(s)?	Y / <u>N</u>	Y / N
Width at Widest Point (ft.):	15.5'		Plant(s) replaced?	Y / <u>N</u>	Y / N



BMP ID #: Unit 17	Date/Time:
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Notes:

This Filterra unit appeared to be functioning as designed during the time of this inspection. Continue performing routine maintenance on an as needed basis.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."



 Signature of Inspector

 Date

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector

 Date

Next inspection date: _____



**Filterra BMPs
 Inspection & Maintenance Checklist**

Inspector Name: Reid Walsh		Type: Inlet / <u>Roof</u>		Size: <u>4x6</u>	
BMP ID #: Unit 18		Date/Time: <u>3/5/2020</u>			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	<u>N</u>	NA		
Stones in Need of Replacement?	Y	N	<u>NA</u>		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):		<u>23"</u>			
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced:		<u>3/2/2020</u>			
Plantings					
Note: Column #1 is the plant to the left when facing the throat of the inlet and column #2 is the plant to the right when facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>17'</u>		Health of plant(s)	<u>Alive</u> / Dead	Alive / Dead
Stem Diameter/Caliper (in.):	<u>4"</u>		Damage to plant(s)?	Y / <u>N</u>	Y / N
Width at Widest Point (ft.):	<u>7'</u>		Plant(s) replaced?	Y / <u>N</u>	Y / N



Filterra BMPs

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh		Type: Inlet / <u>Roof</u>		Size: <u>4x6</u>	
BMP ID #: Unit 19		Date/Time: <u>3/5/2020</u>			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	<u>N</u>	NA		
Stones in Need of Replacement?	Y	N	<u>NA</u>		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):		<u>23"</u>			
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced: <u>3/2/2020</u>					
Plantings					
Note: Column #1 is the plant to the left when facing the throat of the inlet and column #2 is the plant to the right when facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>6.8'</u>		Health of plant(s)	<u>Alive</u> / Dead	Alive / Dead
Stem Diameter/Caliper (in.):	<u>1"</u>		Damage to plant(s)?	Y / <u>N</u>	Y / N
Width at Widest Point (ft.):	<u>2'</u>		Plant(s) replaced?	<u>Y</u> / N	Y / N



BMP ID #: Unit 19	Date/Time:
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Notes:

This Filterra seemed to be functioning properly during the time of inspection. No issues at this time.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."



 Signature of Inspector

 Date

3/5/2020

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector

 Date

Next inspection date: _____



Filterra BMPs

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh		Type: Inlet / <u>Roof</u>	Size: <u>4x6</u>
BMP ID #: Unit 20		Date/Time: <u>3/5/2020</u>	
Component	(Circle Y/N)	Comments	
Initial Observations			
Standing Water?	Y <u>N</u>		
Damage to Box Structure?	Y <u>N</u>		
Damage to Grate?	Y <u>N</u>		
Is Bypass Clear?	<u>Y</u> N		
Waste			
Silt/Clay?	Y <u>N</u>		
Cups/Bags/Trash?	Y <u>N</u>		
Leaves?	Y <u>N</u>		
Other?	Y <u>N</u>		
Erosion Control			
Netting in Need of Replacement?	Y <u>N</u>	NA	
Stones in Need of Replacement?	Y N	<u>NA</u>	
Mulch			
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments
Measured (in.):		<u>23"</u>	
Allowed range (in.):	16" - 18"	23" - 25"	
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.			
Amount of Mulch to be Added or Replaced:			
Type of Mulch to be Added or Replaced:			
Date Mulch Added or Replaced:	<u>3/2/2020</u>		
Plantings			
Note: Column #1 is the plant to the left when facing the throat of the inlet and column #2 is the plant to the right when facing the throat of the inlet.			
Plant Information	#1	#2	
Height Above Grate (ft.):	<u>16'</u>		Health of plant(s) <u>Alive</u> / Dead Alive / Dead
Stem Diameter/Caliper (in.):	<u>3"</u>		Damage to plant(s)? Y / <u>N</u> Y / N
Width at Widest Point (ft.):	<u>7.8'</u>		Plant(s) replaced? Y / <u>N</u> Y / N



BMP ID #: Unit 20	Date/Time:
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Notes:

This facility is functioning as designed. Continue performing routine maintenance on this facility.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."



 Signature of Inspector

 Date

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector

 Date

Next inspection date: _____



Filterra BMPs

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh		Type: Inlet / <u>Roof</u>		Size: <u>6x6</u>	
BMP ID #: Unit 21		Date/Time: <u>3/5/2020</u>			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	N	<u>NA</u>		
Stones in Need of Replacement?	Y	N	<u>NA</u>		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):		<u>23¹¹</u>			
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced: <u>3/2/2020</u>					
Plantings					
Note: Column #1 is the plant to the left when facing the throat of the inlet and column #2 is the plant to the right when facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>8'</u>		Health of plant(s)	<u>Alive</u> / Dead	Alive / Dead
Stem Diameter/Caliper (in.):	<u>2"</u>		Damage to plant(s)?	Y / <u>N</u>	Y / N
Width at Widest Point (ft.):	<u>4'</u>		Plant(s) replaced?	Y / <u>N</u>	Y / N



StormFilter BMP
Inspection & Maintenance Checklist

Inspector Name: Reid Walsh				Type of BMP: Stormfilter		
BMP ID #: Unit 22				Date/Time: March 2, 2020		
				Maintenance required?		
Component:	Yes	No	Conditions When Maintenance is Needed	Yes	No	Comments:
I. Below Ground Vault						
Sediment accumulation top of cartridge		✓	Sediment depth exceeds 0.25 inches		✓	
Sediment accumulation in vault		✓	Sediment depth exceeds 4 inches in the first chamber		✓	
Submerged cartridges	✓		More than 4" of static water in the cartridge bay 24 hours after last rainfall event		✓	water flowing into system during inspection
Trash/debris accumulation		✓	Trash and debris accumulated on compost filter bed		✓	
Sediment in drain pipes or cleanouts		✓	Drain pipes and/or clean outs are full of sediment and/or debris		✓	
Damaged pipes		✓	Any part of any pipe crushed or damaged due to corrosion and/or settlement		✓	
Access cover damaged/not working		✓	Cover cannot be opened; one person cannot open the cover using normal lifting pressure; corrosion/deformation of cover		✓	
Vault structure includes cracks in wall or bottom; damage to the frame and/or top slab		✓	Cracks wider than 1/2 inch or evidence of soil particles entering the structure through cracks; determination that the vault is not structurally sound		✓	
			Cracks wider than 1/2 inch at the joint of any inlet/outlet pipe or evidence of soil particles entering through the cracks		✓	
Baffles		✓	Baffles corroding, cracking, warping, and/or showing signs of failure		✓	
Access ladder damaged		✓	Ladder is corroded or deteriorated, not functioning properly, not securely secured to the structure wall and/or missing rungs; cracks; misalignment		✓	



BMP ID #: Unit 22				Date/Time:		
				Maintenance required?		
Component:	Yes	No	Conditions When Maintenance is Needed	Yes	No	Comments:
II. Below Ground Cartridge Type						
Filter Media		✓	Drawdown of water through the media takes longer than one hour and/or overflow occurs frequently			
Short Circuiting		✓	Flows do not properly enter filter cartridges		✓	

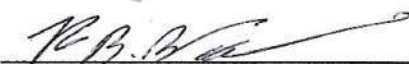
Notes:

No significant accumulation of sediment, trash or debris. Continue performing routine maintenance as needed.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."



 Signature of Inspector

3/2/2020

 Date

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector

 Date

Next inspection date: _____



StormFilter BMP
Inspection & Maintenance Checklist

Inspector Name: Reid Walsh				Type of BMP: <i>Stormfilter</i>		
BMP ID #: Unit 23				Date/Time: <i>March 2, 2020</i>		
				Maintenance required?		
Component:	Yes	No	Conditions When Maintenance is Needed	Yes	No	Comments:
I. Below Ground Vault						
Sediment accumulation top of cartridge		✓	Sediment depth exceeds 0.25 inches		✓	
Sediment accumulation in vault	✓		Sediment depth exceeds 4 inches in the first chamber		✓	<i>very minimal sediment and debris < 0.25"</i>
Submerged cartridges		✓	More than 4" of static water in the cartridge bay 24 hours after last rainfall event		✓	
Trash/debris accumulation			Trash and debris accumulated on compost filter bed	✓		<i>some leaves and debris on top of stormfilter</i>
Sediment in drain pipes or cleanouts		✓	Drain pipes and/or clean outs are full of sediment and/or debris		✓	
Damaged pipes		✓	Any part of any pipe crushed or damaged due to corrosion and/or settlement		✓	
Access cover damaged/not working		✓	Cover cannot be opened; one person cannot open the cover using normal lifting pressure; corrosion/deformation of cover		✓	
Vault structure includes cracks in wall or bottom; damage to the frame and/or top slab		✓	Cracks wider than 1/8 inch or evidence of soil particles entering the structure through cracks; determination that the vault is not structurally sound		✓	
			Cracks wider than 1/8 inch at the joint of any inlet/outlet pipe or evidence of soil particles entering through the cracks		✓	
Baffles		✓	Baffles corroding, cracking, warping, and/or showing signs of failure		✓	
Access ladder damaged		✓	Ladder is corroded or deteriorated, not functioning properly, not securely secured to the structure wall and/or missing rungs; cracks; misalignment		✓	



BMP ID #: Unit 23				Date/Time:		
				Maintenance required?		
Component:	Yes	No	Conditions When Maintenance is Needed	Yes	No	Comments:
II. Below Ground Cartridge Type						
Filter Media		✓	Drawdown of water through the media takes longer than one hour and/or overflow occurs frequently		✓	
Short Circuiting		✓	Flows do not properly enter filter cartridges		✓	

Notes:
 Minor leaves and trash in facility. Functionality does not appear to be compromised. Continue performing routine maintenance

Certification:
 If no maintenance is required, certify the following:
 "I certify that the inspection is complete and that no action is necessary at this time."
 _____ 3/2/2020
 Signature of Inspector Date

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:
 "I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector Date

Next inspection date: _____



**Underground Detention Systems
 (Water Quantity)**

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh			Type of BMP: <i>Underground Detention</i>
BMP ID #: Unit 24			Date/Time: <i>3/6/2020</i>
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
I. Internal Storage Area			
A. Sediment present?	<i>Y</i>	<i>N</i>	<i>minimal sediment</i>
B. Trash/debris present?	<i>N</i>	<i>N</i>	
C. Separation of joints, cracks, breaks, or deterioration of structure?	<i>N</i>	<i>N</i>	
D. Algal growth present?	<i>N</i>	<i>N</i>	
E. Evidence of seepage, leakage, or rust?	<i>N</i>	<i>N</i>	
F. Evidence of pollutants?	<i>N</i>	<i>N</i>	
Inlet & Outlet Piping			
A. Inspection manhole functioning properly?	<i>Y</i>	<i>N</i>	
B. Clogging of inflow pipes?	<i>N</i>	<i>N</i>	
C. Clogging of outflow pipes?	<i>N</i>	<i>N</i>	



BMP ID #: Unit 24			Date/Time:
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
D. Obstruction?	N	N	
E. Adequate riprap (if applicable)?	N/A	N/A	
F. Undercutting at the outlet?	N	N	
G. Outlet channel scour?	N	N	

Notes:
 This facility appeared to be functioning as designed.
 Continue routine maintenance as needed.

Certification:
 If no maintenance is required, certify the following:
 "I certify that the inspection is complete and that no action is necessary at this time."
 Signature of Inspector: [Signature] Date: 3/6/2020

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:
 "I certify that all recommended maintenance is complete and no additional action is necessary at this time."
 Signature of Inspector: _____ Date: _____

Next inspection date: _____



**Underground Detention Systems
 (Water Quantity)**

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh			Type of BMP: <i>Underground Detention</i>
BMP ID #: Unit 25			Date/Time: <i>3/6/2020</i>
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
I. Internal Storage Area			
A. Sediment present?	<i>Y</i>	<i>N</i>	<i><1-2" of sediment</i>
B. Trash/debris present?	<i>Y</i>	<i>N</i>	<i>one or two bottles found</i>
C. Separation of joints, cracks, breaks, or deterioration of structure?	<i>N</i>	<i>N</i>	
D. Algal growth present?	<i>N</i>	<i>N</i>	
E. Evidence of seepage, leakage, or rust?	<i>N</i>	<i>N</i>	
F. Evidence of pollutants?	<i>N</i>	<i>N</i>	
Inlet & Outlet Piping			
A. Inspection manhole functioning properly?	<i>Y</i>	<i>N</i>	
B. Clogging of inflow pipes?	<i>N</i>	<i>N</i>	
C. Clogging of outflow pipes?	<i>N</i>	<i>N</i>	



BMP ID #: Unit 25			Date/Time:
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
D. Obstruction?	N	N	
E. Adequate riprap (if applicable)?	N/A	N/A	
F. Undercutting at the outlet?	N	N	
G. Outlet channel scour?			

Notes:
 No issues noted at this time. Continue performing routine maintenance as needed.

Certification:
 If no maintenance is required, certify the following:
 "I certify that the inspection is complete and that no action is necessary at this time."
 Signature of Inspector: MBB Date: 3/6/2020

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:
 "I certify that all recommended maintenance is complete and no additional action is necessary at this time."
 Signature of Inspector: _____ Date: _____

Next inspection date: _____



**Underground Detention Systems
 (Water Quantity)**

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh			Type of BMP: <i>Underground Detention</i>
BMP ID #: Unit 26			Date/Time: <i>3/6/2020</i>
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
I. Internal Storage Area			
A. Sediment present?	<i>N</i>	<i>N</i>	
B. Trash/debris present?	<i>N</i>	<i>N</i>	
C. Separation of joints, cracks, breaks, or deterioration of structure?	<i>N</i>	<i>N</i>	
D. Algal growth present?	<i>N</i>	<i>N</i>	
E. Evidence of seepage, leakage, or rust?	<i>N</i>	<i>N</i>	
F. Evidence of pollutants?	<i>N</i>	<i>N</i>	
Inlet & Outlet Piping			
A. Inspection manhole functioning properly?	<i>Y</i>	<i>N</i>	
B. Clogging of inflow pipes?	<i>N</i>	<i>N</i>	
C. Clogging of outflow pipes?	<i>N</i>	<i>N</i>	



BMP ID #: Unit 26			Date/Time:
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
D. Obstruction?	N	N	
E. Adequate riprap (If applicable)?	N/A	N/A	
F. Undercutting at the outlet?	N	N	
G. Outlet channel scour?	N	N	

Notes:

This facility was functioning as designed during time of inspection. Continue routine maintenance

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."

Signature of Inspector: *RBN* Date: 3/6/2020

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

Signature of Inspector: _____ Date: _____

Next inspection date: _____



**Underground Detention Systems
 (Water Quantity)**

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh			Type of BMP: Sand Filter
BMP ID #: Unit 27			Date/Time: 3/9/2020
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
I. Internal Storage Area			
A. Sediment present?	N	N	
B. Trash/debris present?	N	N	
C. Separation of joints, cracks, breaks, or deterioration of structure?	N	N	
D. Algal growth present?	N	N	
E. Evidence of seepage, leakage, or rust?	N	N	
F. Evidence of pollutants?	N	N	
Inlet & Outlet Piping			
A. Inspection manhole functioning properly?	Y	N	
B. Clogging of inflow pipes?	N	N	
C. Clogging of outflow pipes?	N	N	



BMP ID #: Unit 27			Date/Time:
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
D. Obstruction?	N	N	
E. Adequate riprap (If applicable)?	N/A	N/A	
F. Undercutting at the outlet?	N	N	
G. Outlet channel scour?	N	N	

Notes:

The only issue we saw with this sand filter is that the fabric on top of sand has been pulled away and is no longer an effective practice. This filter fabric should be reattached to help ensure that sediment doesn't contaminate this system.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."

Signature of Inspector

Date

[Signature]

3/10/2020

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

Signature of Inspector

Date

Next inspection date: _____



Detention, Retention, & Impoundment BMPs

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh			Type of BMP: dry detention pond	
BMP ID #: Unit 29			Date/Time: 3/6/2020	
Component	Yes	No	N/A	Comments
I. Embankment				
A. Top				
1. Visual settlement	✓			Bank is beginning to erode due to it's steepness
2. Misalignment		✓		
3. Cracking		✓		
B. Upstream Slope				
1. Erosion	✓			Some erosion and rodent holes, bank erosion is being held together by established vegetation, therefore it is difficult to get a picture of it
2. Adequate groundcover				
3. Trees, shrubs, or other vegetation				
4. Cracks, settlements, or bulges				
5. Rodent holes	✓			
C. Downstream Slope				
1. Erosion		✓		
2. Adequate groundcover		✓		
3. Trees, shrubs, or other vegetation		✓		
4. Cracks, settlements, or bulges		✓		
5. Rodent holes		✓		
E. Drainage/seepage control				
1. Internal drains flowing		✓		
2. Seepage at toe		✓		
II. Emergency Spillway				
1. Eroding or backcutting		✓		
2. Obstruction		✓		
3. Leaking		✓		
4. Operational	✓			



BMP ID #: Unit 29			Date/Time:	
Component	Yes	No	N/A	Comments
III. Principal Spillway Barrel				
1. Seepage into pipe		✓		
2. Debris present		✓		
3. Displaced or offset joints		✓		
IV. Outlet Protection/Stilling Basin				
1. Obstruction		✓		
2. Adequate riprap			✓	
3. Undercutting at the outlet		✓		
4. Outlet channel scour		✓		
V. Internal Basin Area				
A. Low Flow Channel*				
1. Erosion		✓		
2. Adequate vegetation	✓			
3. Obstruction		✓		
B. Basin Bottom & Side Slopes				
1. Erosion	✓			erosion occurring on side slopes
2. Adequate stabilization	✓			
3. Sediment accumulation		✓		
4. Floating debris		✓		
5. High water marks		✓		
6. Shoreline protection	✓			
C. Inflow Channels/Pipes				
1. Erosion		✓		minor sediment and trash inside rip rap
2. Adequate stabilization	✓			
3. Undercutting		✓		
4. Obstruction		✓		
D. Sediment Forebay				
1. Sediment accumulation			✓	
2. Stable overflow into basin			✓	
E. Upland Landscaping				
F. Aquatic Landscaping			✓	
*Only applies to Extended Detention Facilities				



BMP ID #: Unit 29		Date/Time:		
Component	Yes	No	N/A	Comments

Notes:

Minor erosion occurring throughout, along the side slopes. Rodent holes should be filled and stabilized. Sediment and trash need to be removed from rip rap at inlet pipe. All the other trash around facility and inside basin bottom should be removed.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."

Signature of Inspector

Date

RBB

3/6/2020

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

Signature of Inspector

Date

Next inspection date: _____



Detention, Retention, & Impoundment BMPs

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh			Type of BMP: Wet Pond	
BMP ID #: Unit 30			Date/Time: 3/6/2020	
Component	Yes	No	N/A	Comments
I. Embankment				
A. Top				
1. Visual settlement	✓			
2. Misalignment		✓		
3. Cracking		✓		
B. Upstream Slope				
1. Erosion	✓			Erosion is severe near double inlet pipe and along one of the inlet ditches.
2. Adequate groundcover	✓			
3. Trees, shrubs, or other vegetation		✓		
4. Cracks, settlements, or bulges	✓			
5. Rodent holes		✓		
C. Downstream Slope				
1. Erosion			✓	
2. Adequate groundcover			✓	
3. Trees, shrubs, or other vegetation			✓	
4. Cracks, settlements, or bulges			✓	
5. Rodent holes			✓	
E. Drainage/seepage control				
1. Internal drains flowing		✓		
2. Seepage at toe		✓		
II. Emergency Spillway				
1. Eroding or backcutting	✓			The spillway has accumulation of sediment and weeds growing from rip rap.
2. Obstruction	✓			
3. Leaking		✓		
4. Operational	✓			



BMP ID #: Unit 30			Date/Time:	
Component	Yes	No	N/A	Comments
III. Principal Spillway Barrel				
1. Seepage into pipe			✓	
2. Debris present			✓	
3. Displaced or offset joints			✓	
IV. Outlet Protection/Stilling Basin				
1. Obstruction		✓		
2. Adequate riprap			✓	
3. Undercutting at the outlet		✓		
4. Outlet channel scour		✓		
V. Internal Basin Area				
A. Low Flow Channel*				
1. Erosion		✓		
2. Adequate vegetation	✓			
3. Obstruction		✓		
B. Basin Bottom & Side Slopes				
1. Erosion	✓			Erosion occurring along side slopes and around the edge of water area. Algae is present in the permanent pool.
2. Adequate stabilization	✓			
3. Sediment accumulation	✓			
4. Floating debris	✓			
5. High water marks		✓		
6. Shoreline protection		✓		
C. Inflow Channels/Pipes				
1. Erosion	✓			Inlet channel has severe erosion that should be addressed. It is undercutting the banks of inlet channel.
2. Adequate stabilization		✓		
3. Undercutting	✓			
4. Obstruction	✓			
D. Sediment Forebay				
1. Sediment accumulation	✓			Sediment deposits in forebay to provide a stable overflow into basin.
2. Stable overflow into basin		✓		
E. Upland Landscaping				
F. Aquatic Landscaping				
	✓			

*Only applies to Extended Detention Facilities



BMP ID #: <u>Unit 30</u>			Date/Time:	
Component	Yes	No	N/A	Comments

Notes:

This pond is functioning in degraded condition. This is mainly attributed to the excessive erosion, trash and sediment accumulation.

Repairs

- o repair/fix eroded inlet channel and rework rip rap then install fabric under rock to prevent it from continuing to settle
- o fix sinkholes and erosion near double inlet pipe structure
- o remove sediment from spillway rip rap and install fabric under rock
- o provide a more stable overflow from forebay into basin, and remove any sediment deposits from forebay
- o remove all trash from in and around this system

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."

Signature of Inspector

Date

[Signature]

3/10/2020

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

Signature of Inspector

Date

Next inspection date: _____



Intermittent Sand Filter

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh			Type of BMP: Sand Filter (Deleware)	
BMP ID #: Unit 31			Date/Time: 3/13/2020	
Component	Yes	No	N/A	Comments
I. Debris Cleanout				
A. Contributing areas clean of debris	✓			
B. Filtration Facility clean of debris	✓			
C. Inlets and outlets clear of debris	✓			
II. Vegetation in Contributing Drainage Area				
A. Stabilized	✓			
B. Active evidence of erosion		✓		
C. Area mowed and clippings removed	✓			
III. Oil & Grease				
A. Evidence of filter surface clogging		✓		
B. Activities in drainage area to minimize oil & grease entry		✓		
IV. Water retention where required				
A. Water holding chambers at normal pool	✓			
B. Evidence of leakage		✓		
V. Sediment Deposition				
A. Filtration chambers clean of sediment		✓		
B. Water chambers not more than ½ full of sediment		✓		
VI. Structural Components				
A. Evidence of structural deterioration		✓		
B. Grates are in good condition	✓			
C. Evidence of spalling or cracking of structural parts		✓		



Sorbitive Filter BMP

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh				Type of BMP:		
BMP ID #: Unit 32				Date/Time: March, 2 2020		
				Maintenance required?		
Component:	Yes	No	Conditions When Maintenance is Needed	Yes	No	Comments:
The access manhole or access doors are functioning properly and are structurally sound	✓				✓	
Sediment and oil are present (provide depths)	✓				✓	minimal sediment in basin bottom < 1-2"
Floatable pollutant accumulation is present in the Pre-treatment Bay		✓			✓	
The Cartridge Bay is visually inspected for sediment depth (provide depth)*(If sediment depth is greater than 6 inches, maintenance is required		✓			✓	sediment depth < 1-2"
Proper draindown is occurring in the Cartridge Bay *(If at least 40 hours of dry weather have elapsed, since the most recent runoff event and the Bay contains more than 3 inches of water above the sediment layer, the Sorbtive BRICKs required cleaning or replacement	✓	NO			✓	
The internal components show no signs of damage		✓			✓	



Sorbitive Filter BMP

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh				Type of BMP:		
BMP ID #: Unit 33				Date/Time: March 2, 2020		
				Maintenance required?		
Component:	Yes	No	Conditions When Maintenance is Needed	Yes	No	Comments:
The access manhole or access doors are functioning properly and are structurally sound	✓				✓	
Sediment and oil are present (provide depths)	✓				✓	
Floatable pollutant accumulation is present in the Pre-treatment Bay		✓			✓	
The Cartridge Bay is visually inspected for sediment depth (provide depth)*(If sediment depth is greater than 6 inches, maintenance is required)		✓			✓	< 1-2" of sediment accumulation
Proper draindown is occurring in the Cartridge Bay *(If at least 40 hours of dry weather have elapsed, since the most recent runoff event and the Bay contains more than 3 inches of water above the sediment layer, the Sorbative BRICKs required cleaning or replacement)	✓					
The internal components show no signs of damage		✓			✓	



BMP ID #: Unit 33

Date/Time: March 2, 2020

Notes:

No issues at the time of inspection. Minimal sediment in facility basin and on top of cartridges. Continue performing routine maintenance as needed on this facility.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."

[Signature]

Signature of Inspector

3/2/2020

Date

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

Signature of Inspector

Date

Next inspection date: _____



Sorbitive Filter BMP

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh				Type of BMP:		
BMP ID #: Unit 34				Date/Time: March, 2 2020		
				Maintenance required?		
Component:	Yes	No	Conditions When Maintenance is Needed	Yes	No	Comments:
The access manhole or access doors are functioning properly and are structurally sound	✓				✓	
Sediment and oil are present (provide depths)	✓				✓	Minimal sediment. No evidence of oil or other pollutants
Floatable pollutant accumulation is present in the Pre-treatment Bay		✓			✓	
The Cartridge Bay is visually inspected for sediment depth (provide depth)*(If sediment depth is greater than 6 inches, maintenance is required		✓			✓	<1-2" of sediment accumulation
Proper draindown is occurring in the Cartridge Bay *(If at least 40 hours of dry weather have elapsed, since the most recent runoff event and the Bay contains more than 3 inches of water above the sediment layer, the Sorbtive BRICKs required cleaning or replacement		✓			✓	
The internal components show no signs of damage		✓			✓	




BMP ID #: Unit 34	Date/Time:
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Notes:

Minimal sediment accumulation during time of the inspection. Very few leaves or debris present inside this system. Continue performing routine maintenance as needed on this facility.

Certification:
 If no maintenance is required, certify the following:
 "I certify that the inspection is complete and that no action is necessary at this time."



 Signature of Inspector

 Date

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:
 "I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector

 Date

Next inspection date: _____



StormFilter BMP
Inspection & Maintenance Checklist

Inspector Name: Reid Walsh				Type of BMP: <i>StormFilter</i>		
BMP ID #: Unit 35				Date/Time: <i>3/10/2020</i>		
				Maintenance required?		
Component:	Yes	No	Conditions When Maintenance is Needed	Yes	No	Comments:
I. Below Ground Vault						
Sediment accumulation top of cartridge		✓	Sediment depth exceeds 0.25 inches		✓	
Sediment accumulation in vault	✓		Sediment depth exceeds 4 inches in the first chamber		✓	<i>trace amounts of sediment</i>
Submerged cartridges		✓	More than 4" of static water in the cartridge bay 24 hours after last rainfall event		✓	
Trash/debris accumulation		✓	Trash and debris accumulated on compost filter bed		✓	
Sediment in drain pipes or cleanouts		✓	Drain pipes and/or clean outs are full of sediment and/or debris		✓	
Damaged pipes		✓	Any part of any pipe crushed or damaged due to corrosion and/or settlement		✓	
Access cover damaged/not working		✓	Cover cannot be opened; one person cannot open the cover using normal lifting pressure; corrosion/deformation of cover		✓	
Vault structure includes cracks in wall or bottom; damage to the frame and/or top slab		✓	Cracks wider than 1/8 inch or evidence of soil particles entering the structure through cracks; determination that the vault is not structurally sound		✓	
			Cracks wider than 1/8 inch at the joint of any inlet/outlet pipe or evidence of soil particles entering through the cracks		✓	
Baffles		✓	Baffles corroding, cracking, warping, and/or showing signs of failure		✓	
Access ladder damaged		✓	Ladder is corroded or deteriorated, not functioning properly, not securely secured to the structure wall and/or missing rungs; cracks; misalignment		✓	



BMP ID #: Unit 35				Date/Time:		
				Maintenance required?		
Component:	Yes	No	Conditions When Maintenance is Needed	Yes	No	Comments:
II. Below Ground Cartridge Type						
Filter Media		✓	Drawdown of water through the media takes longer than one hour and/or overflow occurs frequently		✓	
Short Circuiting		✓	Flows do not properly enter filter cartridges		✓	

Notes:

No issues with this facility at this time. Continue routine maintenance

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."



 Signature of Inspector

 Date

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector

 Date

Next inspection date: _____



**Underground Detention Systems
 (Water Quantity)
 Inspection & Maintenance Checklist**

Inspector Name: Reid Walsh			Type of BMP: Rain Tank
BMP ID #: Unit 36			Date/Time: 3/6/2020
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
I. Internal Storage Area			
A. Sediment present?	N	N	
B. Trash/debris present?	N	N	
C. Separation of joints, cracks, breaks, or deterioration of structure?	N	N	
D. Algal growth present?	N	N	
E. Evidence of seepage, leakage, or rust?	N	N	
F. Evidence of pollutants?	N	N	
Inlet & Outlet Piping			
A. Inspection manhole functioning properly?	N Y	N	
B. Clogging of inflow pipes?	Y	Y	The mulch floats down over inlet grate. Chicken wire application would prevent this.
C. Clogging of outflow pipes?	N	N	



**Underground Detention Systems
 (Water Quantity)**

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh			Type of BMP: Rain Tank
BMP ID #: Unit 37			Date/Time: 3/6/2020
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
I. Internal Storage Area			
A. Sediment present?	N	N	
B. Trash/debris present?	Y	N	minimal leaves and debris present
C. Separation of joints, cracks, breaks, or deterioration of structure?	N	N	
D. Algal growth present?	N	N	
E. Evidence of seepage, leakage, or rust?	N	N	
F. Evidence of pollutants?	N	N	
Inlet & Outlet Piping			
A. Inspection manhole functioning properly?	Y	N	
B. Clogging of inflow pipes?	N	N	
C. Clogging of outflow pipes?	N	N	



BMP ID #: Unit 37			Date/Time:
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
D. Obstruction?	N	N	
E. Adequate riprap (If applicable)?	N/A	N/A	
F. Undercutting at the outlet?	N	N	
G. Outlet channel scour?	N	N	

Notes:
 No issues at the time of inspection.
 Continue routine maintenance as needed.

Certification:
 If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."
 Signature of Inspector: RBNA Date: 3/6/2020

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."
 Signature of Inspector: _____ Date: _____

Next inspection date: _____



**Underground Detention Systems
 (Water Quantity)**

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh			Type of BMP: Rain Tank
BMP ID #: Unit 38			Date/Time: 3/6/20 10
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
I. Internal Storage Area			
A. Sediment present?	Y	N Y	Some sediment and gravel visible on top layer from maintenance port
B. Trash/debris present?	N	N	
C. Separation of joints, cracks, breaks, or deterioration of structure?	N	N	
D. Algal growth present?	N	N	
E. Evidence of seepage, leakage, or rust?	N	N	
F. Evidence of pollutants?	N	N	
Inlet & Outlet Piping			
A. Inspection manhole functioning properly?	Y	N	
B. Clogging of inflow pipes?	N	N	
C. Clogging of outflow pipes?	N	N	



BMP ID #: Unit 38			Date/Time:
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
D. Obstruction?	N	N	
E. Adequate riprap (if applicable)?	N/A	N/A	
F. Undercutting at the outlet?	N	N	
G. Outlet channel scour?	N	N	

Notes:

Gravel and sediment must be removed from the top layer of maintenance port. This should not be there.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."

Signature of Inspector

Date

RPB

3/6/2020

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

Signature of Inspector

Date

Next inspection date: _____



**Underground Detention Systems
 (Water Quantity)**

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh			Type of BMP: Rain Tank
BMP ID #: Unit 39			Date/Time: 3/6/2020
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
I. Internal Storage Area			
A. Sediment present?	Y	N Y	sediment and gravel should be removed from maintenance port
B. Trash/debris present?	N	N	
C. Separation of joints, cracks, breaks, or deterioration of structure?	N	N	
D. Algal growth present?	N	N	
E. Evidence of seepage, leakage, or rust?	N	N	
F. Evidence of pollutants?	N	N	
Inlet & Outlet Piping			
A. Inspection manhole functioning properly?	Y	N	
B. Clogging of inflow pipes?	N	N	
C. Clogging of outflow pipes?	N	N	



BMP ID #: Unit 39			Date/Time:
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
D. Obstruction?	N	N	
E. Adequate riprap (If applicable)?	N/A	N/A	
F. Undercutting at the outlet?	N	N	
G. Outlet channel scour?	N	N	

Notes:

Remove gravel and sediment from Rain tank maintenance port.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."

Signature of Inspector

Date

RBJ

3/6/2020

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

Signature of Inspector

Date

Next inspection date: _____



**Underground Detention Systems
 (Water Quantity)**

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh			Type of BMP: <i>Underground detention</i>
BMP ID #: Unit 40			Date/Time: <i>3/6/2020</i>
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
I. Internal Storage Area			
A. Sediment present?	<i>Y</i>		<i><1-2" of accumulation in all storage areas</i>
B. Trash/debris present?	<i>Y</i>		<i>Several floatables present, and some minor leaves and debris</i>
C. Separation of joints, cracks, breaks, or deterioration of structure?	<i>N</i>		
D. Algal growth present?	<i>N</i>		
E. Evidence of seepage, leakage, or rust?	<i>N</i>		
F. Evidence of pollutants?	<i>N</i>		
Inlet & Outlet Piping			
A. Inspection manhole functioning properly?	<i>Y</i>		
B. Clogging of inflow pipes?	<i>N</i>		
C. Clogging of outflow pipes?	<i>N</i>		



BMP ID #: Unit 40			Date/Time:
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
D. Obstruction?	N		
E. Adequate riprap (If applicable)?	N		
F. Undercutting at the outlet?	N		
G. Outlet channel scour?	N		

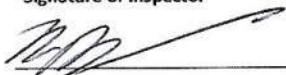
Notes:

Clean out all of the accumulated trash and debris from the internal storage area. After that is completed there will be no issues with this system.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."

Signature of Inspector


Date
 3/6/2020

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

Signature of Inspector

Date

Next inspection date: _____



Filterra BMPs

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh		Type: <u>Inlet</u> / Roof		Size: <u>6x12</u>	
BMP ID #: Unit 41		Date/Time: <u>3/5/2020</u>			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	N	<u>NA</u>		
Stones in Need of Replacement?	Y	<u>N</u>	NA		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):	<u>26"</u>				
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced: <u>3/2/2020</u>					
Plantings					
Note: Column #1 is the plant to the left when facing the throat of the inlet and column #2 is the plant to the right when facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>6'</u>	<u>6.5'</u>	Health of plant(s)	<u>Alive</u> / Dead	<u>Alive</u> / Dead
Stem Diameter/Caliper (in.):	<u>3"</u>	<u>3.5"</u>	Damage to plant(s)?	Y / <u>N</u>	Y / <u>N</u>
Width at Widest Point (ft.):	<u>5.5'</u>	<u>6'</u>	Plant(s) replaced?	Y / <u>N</u>	Y / <u>N</u>



Filterra BMPs

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh		Type: <u>Inlet</u> / Roof		Size: <u>6x10</u>	
BMP ID #: Unit 42		Date/Time: <u>3/5/2020</u>			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	<u>Y</u>	N	<u>half of the grate is missing and should be replaced.</u>		
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	N	<u>NA</u>		
Stones in Need of Replacement?	Y	<u>N</u>	NA		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):	<u>16"</u>				
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced: <u>3/2/2020</u>					
Plantings					
Note: Column #1 is the plant to the left when facing the throat of the inlet and column #2 is the plant to the right when facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>7'</u>		Health of plant(s)	<u>Alive</u> / Dead	Alive / Dead
Stem Diameter/Caliper (in.):	<u>4"</u>		Damage to plant(s)?	Y / <u>N</u>	Y / N
Width at Widest Point (ft.):	<u>5'</u>		Plant(s) replaced?	Y / <u>N</u>	Y / N



BMP ID #: Unit 42	Date/Time:
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Notes:

This facility appears to be functioning properly. Half of the Filterra grate is missing from this unit. It should be replaced to avoid people from tripping or falling into the Filterra.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."



 Signature of Inspector

 Date

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector

 Date

Next inspection date: _____



Filterra BMPs

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh		Type: <u>Inlet</u> / Roof		Size:	
BMP ID #: Unit 43		Date/Time:			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	N	<u>NA</u>		
Stones in Need of Replacement?	Y	<u>N</u>	NA		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):	16"				
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced: 3/2/2020					
Plantings					
Note: Column #1 is the plant to the left when facing the throat of the inlet and column #2 is the plant to the right when facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	6'		Health of plant(s)	<u>Alive</u> / Dead	Alive / Dead
Stem Diameter/Caliper (in.):	5"		Damage to plant(s)?	Y / <u>N</u>	Y / N
Width at Widest Point (ft.):	5'		Plant(s) replaced?	Y / <u>N</u>	Y / N



BMP ID #: Unit 43	Date/Time:
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Notes:

No issues with this filterre at this time. It appears to be functioning in proper order. Maintenance was just performed. Continue performing routine maintenance as needed.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."



 Signature of Inspector

 Date

 3/3/2020

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector

 Date

Next inspection date: _____



Filterra BMPs

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh		Type: <u>inlet</u> / Roof		Size: <u>4x8</u>	
BMP ID #: Unit 44		Date/Time: <u>March 3, 2020</u>			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	N	<u>NA</u>		
Stones in Need of Replacement?	Y	<u>N</u>	NA		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):	<u>16"</u>				
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced: <u>3/2/2020</u>					
Plantings					
Note: Column #1 is the plant to the left when facing the throat of the inlet and column #2 is the plant to the right when facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>5'</u>		Health of plant(s)	<u>Alive</u> / Dead	Alive / Dead
Stem Diameter/Caliper (in.):	<u>2.5"</u>		Damage to plant(s)?	Y / <u>N</u>	Y / N
Width at Widest Point (ft.):	<u>5'</u>		Plant(s) replaced?	Y / <u>N</u>	Y / N



BMP ID #: Unit 44	Date/Time:
-------------------	------------

Notes:

This facility appeared to be functioning as designed during the time of this inspection. Continued maintenance on a routine schedule is recommended to keep this system in compliance.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."



Signature of Inspector

3/3/2020

Date

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

Signature of Inspector

Date

Next inspection date: _____



Detention, Retention, & Impoundment BMPs

Inspection & Maintenance Checklist

Inspector Name: <i>Reid Walsh</i>			Type of BMP: <i>Wet Pond</i>	
BMP ID #: <i>#46</i>			Date/Time:	
Component	Yes	No	N/A	Comments
I. Embankment				
<i>erosion was just repaired and issues addressed</i>				
A. Top				
1. Visual settlement		✓		
2. Misalignment		✓		
3. Cracking		✓		
B. Upstream Slope				
1. Erosion		✓		
2. Adequate groundcover		✓		
3. Trees, shrubs, or other vegetation		✓		
4. Cracks, settlements, or bulges		✓		
5. Rodent holes		✓		
C. Downstream Slope				
<i>erosion repairs just took place</i>				
1. Erosion		✓		
2. Adequate groundcover		✓		
3. Trees, shrubs, or other vegetation		✓		
4. Cracks, settlements, or bulges		✓		
5. Rodent holes		✓		
E. Drainage/seepage control				
1. Internal drains flowing		✓		
2. Seepage at toe		✓		
II. Emergency Spillway				
1. Eroding or backcutting		✓		
2. Obstruction		✓		
3. Leaking		✓		
4. Operational		✓		



BMP ID #:			Date/Time:	
Component	Yes	No	N/A	Comments
III. Principal Spillway Barrel				
1. Seepage into pipe		✓		
2. Debris present		✓		
3. Displaced or offset joints		✓		
IV. Outlet Protection/Stilling Basin				
1. Obstruction		✓		
2. Adequate riprap	✓			
3. Undercutting at the outlet		✓		
4. Outlet channel scour		✓		
V. Internal Basin Area				
A. Low Flow Channel*				
1. Erosion		✓		
2. Adequate vegetation	✓			
3. Obstruction		✓		
B. Basin Bottom & Side Slopes				
1. Erosion		✓		erosion just repaired, banks appear stable and no current erosion is occurring.
2. Adequate stabilization	✓			
3. Sediment accumulation		✓		
4. Floating debris	✓			
5. High water marks		✓		
6. Shoreline protection	✓			
C. Inflow Channels/Pipes				
1. Erosion		✓		
2. Adequate stabilization		✓		
3. Undercutting		✓		
4. Obstruction		✓		
D. Sediment Forebay				
1. Sediment accumulation		✓		
2. Stable overflow into basin	✓			
E. Upland Landscaping				
		✓		
F. Aquatic Landscaping				
	✓			

*Only applies to Extended Detention Facilities



BMP ID #:			Date/Time:	
Component	Yes	No	N/A	Comments

Notes:
 The vegetation was cleared 10 ft on either side of inlets and outlets. All eroded areas were repaired. This facility appears to be functioning properly during time of inspection. Continue routine maintenance as needed.

Certification:
 If no maintenance is required, certify the following:
 "I certify that the inspection is complete and that no action is necessary at this time."
 Signature of Inspector: RBW Date: 3/16/2020

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:
 "I certify that all recommended maintenance is complete and no additional action is necessary at this time."
 Signature of Inspector: _____ Date: _____

Next inspection date: _____



StormFilter BMP
Inspection & Maintenance Checklist

Inspector Name: Reid Walsh				Type of BMP: <i>Stormfilter</i>		
BMP ID #: Unit 47				Date/Time: <i>3/9/2020</i>		
				Maintenance required?		
Component:	Yes	No	Conditions When Maintenance is Needed	Yes	No	Comments:
I. Below Ground Vault						
Sediment accumulation top of cartridge		✓	Sediment depth exceeds 0.25 inches		✓	
Sediment accumulation in vault	✓		Sediment depth exceeds 4 inches in the first chamber		✓	<i>< 2-3" sediment depth</i>
Submerged cartridges		✓	More than 4" of static water in the cartridge bay 24 hours after last rainfall event		✓	<i>very minimal trash and debris accumulation</i>
Trash/debris accumulation	✓		Trash and debris accumulated on compost filter bed	✓	✓	<i>couple pieces of trash, no necessary maintenance</i>
Sediment in drain pipes or cleanouts		✓	Drain pipes and/or clean outs are full of sediment and/or debris		✓	
Damaged pipes		✓	Any part of any pipe crushed or damaged due to corrosion and/or settlement		✓	
Access cover damaged/not working		✓	Cover cannot be opened; one person cannot open the cover using normal lifting pressure; corrosion/deformation of cover		✓	
Vault structure includes cracks in wall or bottom; damage to the frame and/or top slab		✓	Cracks wider than 1/2 inch or evidence of soil particles entering the structure through cracks; determination that the vault is not structurally sound		✓	
			Cracks wider than 1/2 inch at the joint of any inlet/outlet pipe or evidence of soil particles entering through the cracks		✓	
Baffles		✓	Baffles corroding, cracking, warping, and/or showing signs of failure		✓	
Access ladder damaged		✓	Ladder is corroded or deteriorated, not functioning properly, not securely secured to the structure wall and/or missing rungs; cracks; misalignment		✓	



StormFilter BMP
Inspection & Maintenance Checklist

Inspector Name: Reid Walsh				Type of BMP: Stormfilter		
BMP ID #: Unit 48				Date/Time: 3/9/2020		
				Maintenance required?		
Component:	Yes	No	Conditions When Maintenance is Needed	Yes	No	Comments:
I. Below Ground Vault						
Sediment accumulation top of cartridge	✓		Sediment depth exceeds 0.25 inches		✓	It did not appear to be < 0.25"
Sediment accumulation in vault	✓		Sediment depth exceeds 4 inches in the first chamber		✓	< 1-2" in first chamber, could still use a cleanout soon
Submerged cartridges	✓		More than 4" of static water in the cartridge bay 24 hours after last rainfall event	✓		cartridge chamber had standing water in it.
Trash/debris accumulation	✓		Trash and debris accumulated on compost filter bed		✓	remove all trash and debris next time maintenance is performed.
Sediment in drain pipes or cleanouts		✓	Drain pipes and/or clean outs are full of sediment and/or debris		✓	
Damaged pipes		✓	Any part of any pipe crushed or damaged due to corrosion and/or settlement		✓	
Access cover damaged/not working		✓	Cover cannot be opened; one person cannot open the cover using normal lifting pressure; corrosion/deformation of cover		✓	
Vault structure includes cracks in wall or bottom; damage to the frame and/or top slab		✓	Cracks wider than 1/2 inch or evidence of soil particles entering the structure through cracks; determination that the vault is not structurally sound		✓	
			Cracks wider than 1/2 inch at the joint of any inlet/outlet pipe or evidence of soil particles entering through the cracks		✓	
Baffles		✓	Baffles corroding, cracking, warping, and/or showing signs of failure		✓	
Access ladder damaged		✓	Ladder is corroded or deteriorated, not functioning properly, not securely secured to the structure wall and/or missing rungs; cracks; misalignment		✓	



StormFilter BMP
Inspection & Maintenance Checklist

Inspector Name: Reid Walsh				Type of BMP: Storm Filter		
BMP ID #: Unit 49				Date/Time: 3/9/2020		
				Maintenance required?		
Component:	Yes	No	Conditions When Maintenance is Needed	Yes	No	Comments:
I. Below Ground Vault						
Sediment accumulation top of cartridge	✓		Sediment depth exceeds 0.25 inches		✓	minor buildup on top of cartridge
Sediment accumulation in vault	✓		Sediment depth exceeds 4 inches in the first chamber		✓	2-3" of sediment in first chamber.
Submerged cartridges		✓	More than 4" of static water in the cartridge bay 24 hours after last rainfall event		✓	
Trash/debris accumulation	✓		Trash and debris accumulated on compost filter bed	✓		excessive trash and debris must be removed
Sediment in drain pipes or cleanouts		✓	Drain pipes and/or clean outs are full of sediment and/or debris		✓	
Damaged pipes		✓	Any part of any pipe crushed or damaged due to corrosion and/or settlement		✓	
Access cover damaged/not working		✓	Cover cannot be opened; one person cannot open the cover using normal lifting pressure; corrosion/deformation of cover		✓	
Vault structure includes cracks in wall or bottom; damage to the frame and/or top slab		✓	Cracks wider than 1/2 inch or evidence of soil particles entering the structure through cracks; determination that the vault is not structurally sound		✓	
			Cracks wider than 1/2 inch at the joint of any inlet/outlet pipe or evidence of soil particles entering through the cracks		✓	
Baffles		✓	Baffles corroding, cracking, warping, and/or showing signs of failure		✓	
Access ladder damaged		✓	Ladder is corroded or deteriorated, not functioning properly, not securely secured to the structure wall and/or missing rungs; cracks; misalignment		✓	



BMP ID #: Unit 49				Date/Time:		
				Maintenance required?		
Component:	Yes	No	Conditions When Maintenance is Needed	Yes	No	Comments:
II. Below Ground Cartridge Type						
Filter Media		✓	Drawdown of water through the media takes longer than one hour and/or overflow occurs frequently		✓	It doesnt appear that filter media has been affected.
Short Circuiting		✓	Flows do no properly enter filter cartridges		✓	

Notes:

This stormfilter has some sediment buildup (should be removed when maintenance takes place for trash and debris removal. All trash and debris should be removed as well as the buildup of sediment.

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."



 Signature of Inspector

3/10/2020

 Date

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector

 Date

Next inspection date: _____



**Underground Detention Systems
 (Water Quantity)**

Inspection & Maintenance Checklist

Inspector Name: Reid Walsh			Type of BMP: <i>Underground Detention</i>
BMP ID #: Unit 50			Date/Time: <i>3/6/2020</i>
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
I. Internal Storage Area			
A. Sediment present?	<i>Y</i>	<i>N</i>	<i>< 1-2" in the bottom of vault</i>
B. Trash/debris present?	<i>N</i>	<i>N</i>	
C. Separation of joints, cracks, breaks, or deterioration of structure?	<i>N</i>	<i>N</i>	
D. Algal growth present?	<i>N</i>	<i>N</i>	
E. Evidence of seepage, leakage, or rust?	<i>N</i>	<i>N</i>	
F. Evidence of pollutants?	<i>N</i>	<i>N</i>	
Inlet & Outlet Piping			
A. Inspection manhole functioning properly?	<i>Y</i>	<i>N</i>	
B. Clogging of inflow pipes?	<i>N</i>	<i>N</i>	
C. Clogging of outflow pipes?	<i>N</i>	<i>N</i>	



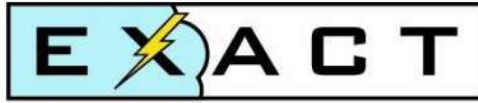
BMP ID #: Unit 50			Date/Time:
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
D. Obstruction?	N	N	
E. Adequate riprap (if applicable)?	N/A	N/A	
F. Undercutting at the outlet?	N	N	
G. Outlet channel scour?	N	N	

Notes:
 This facility appeared to be functioning properly during the time of inspection. Continue routine maintenance

Certification:
 If no maintenance is required, certify the following:
 "I certify that the inspection is complete and that no action is necessary at this time."
 Signature of Inspector: RBD Date: 3/6/2020

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:
 "I certify that all recommended maintenance is complete and no additional action is necessary at this time."
 Signature of Inspector: _____ Date: _____

Next inspection date: _____



STORMWATER MANAGEMENT

P.O. Box 1301
Midlothian VA 23113
(804) 302-5151,
Info@exactstorm.com
03/17/2020

CUSTOMER	SERVICE LOCATION
Timmons Group Aislinn Creel 1001 Boulders Parkway, Suite 300 Richmond VA 23225 (804) 200-6544	VSU Virginia State University 1 Hayden Dr. Petersburg VA

JOB DETAILS	Inspections of Inlet Filterras: Units 7, 8, 9, 10, 11, 12, 13, 41, 42, 43, 44
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COMPLETION NOTES	
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PICTURES



BMP 7



BMP 7



BMP 7



BMP 8



BMP 8



BMP 8



BMP 9



BMP 9



BMP 9



BMP 10



BMP 10



BMP 10



BMP 10



BMP 11



BMP 11



BMP 11



BMP 11



BMP 12



BMP 12



BMP 12



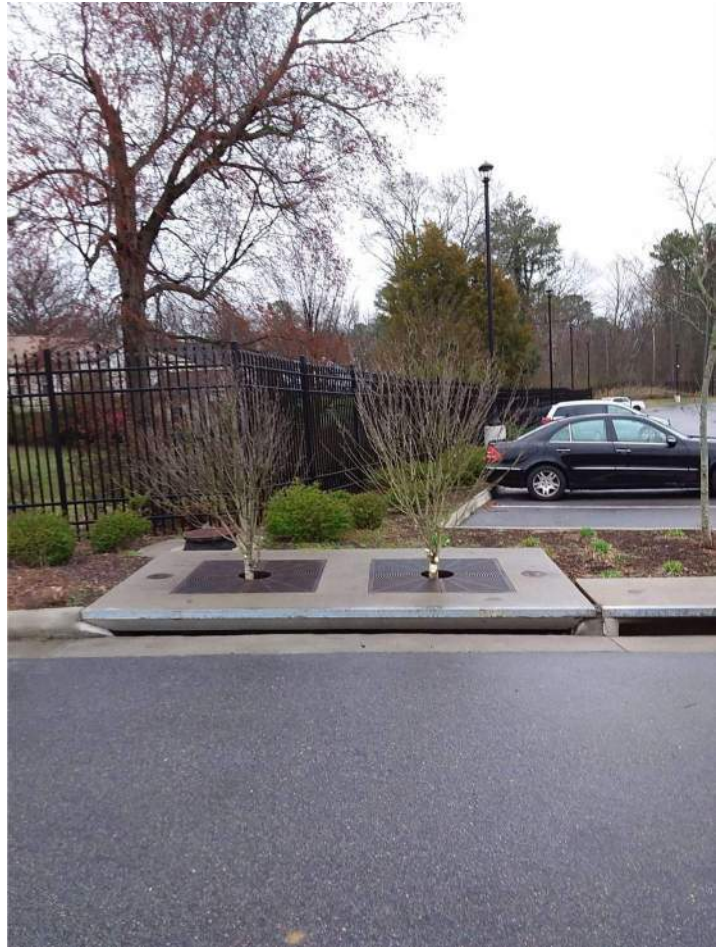
BMP 13



BMP 13



BMP 13



BMP 41



BMP 41



BMP 41



BMP 42



BMP 42



BMP 43



BMP 43



BMP 43



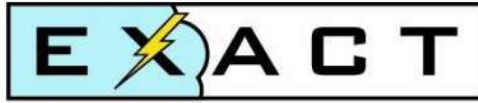
BMP 44



BMP 44



BMP 44



STORMWATER MANAGEMENT

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CUSTOMER	SERVICE LOCATION
Timmons Group Aislinn Creel 1001 Boulders Parkway, Suite 300 Richmond VA 23225 (804) 200-6544	VSU Virginia State University 1 Hayden Dr. Petersburg VA

JOB DETAILS	Inspections of Roof Filterras: Units 1, 2, 3, 4, 5, 6, 16, 17, 18, 19, 20, 21
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COMPLETION NOTES	
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PICTURES



BMP 1



BMP 1



BMP 2



BMP 2



BMP 3



BMP 3



BMP 4



BMP 4



BMP 5



BMP 5



BMP 6



BMP 6



BMP 16



BMP 16



BMP 17



BMP 17



BMP 18



BMP 18



BMP 19



BMP 19



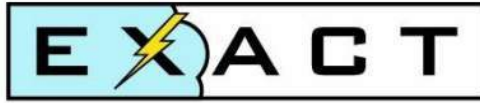
BMP 20



BMP 20



BMP 21



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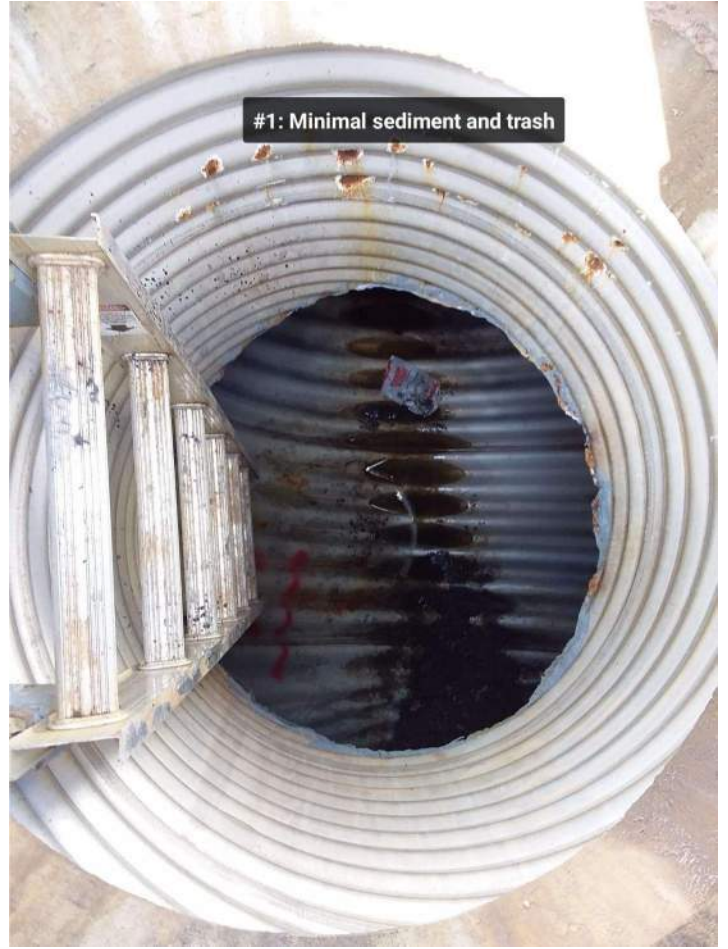
JOB DETAILS	Inspections of Underground Units: Units 15, 24, 25, 26, 27, 36, 37, 38, 39, 40, 50
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COMPLETION NOTES	
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PICTURES



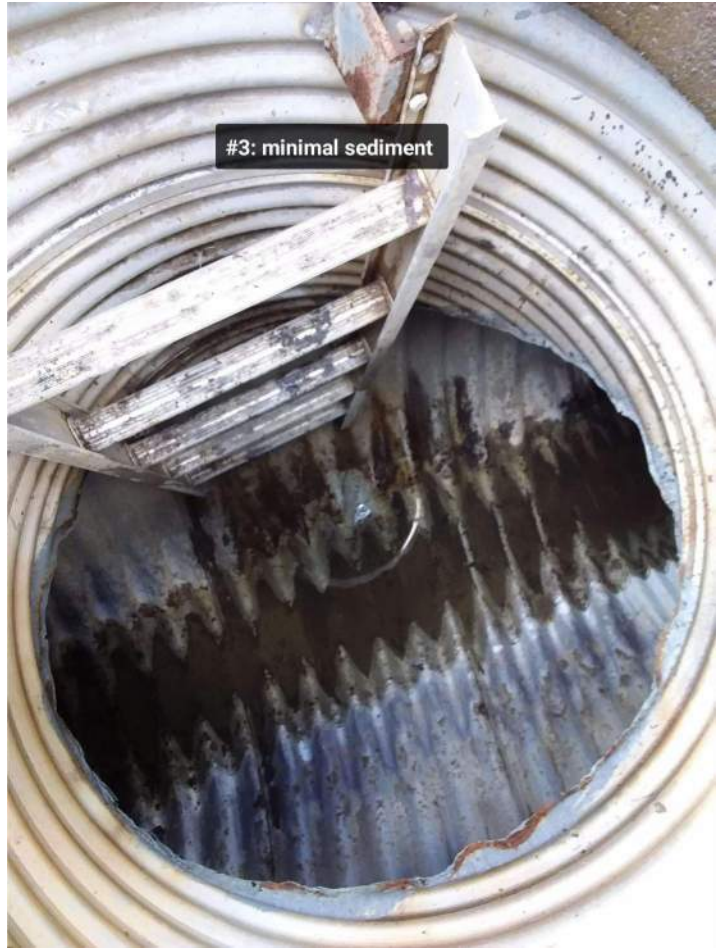
BMP 15



BMP 15



BMP 15



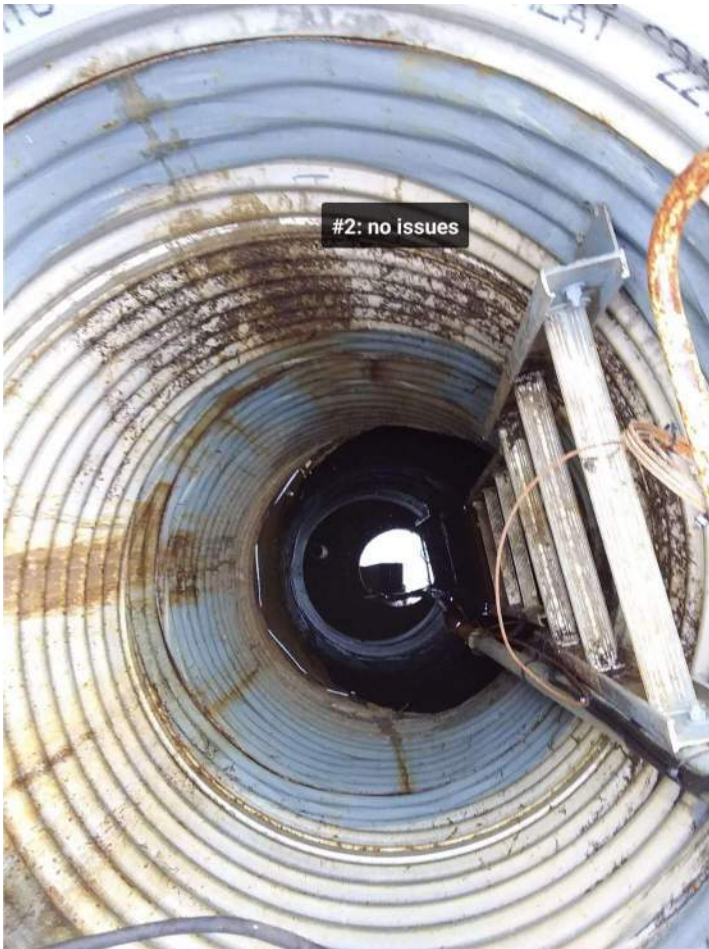
BMP 15



BMP 24



BMP 24



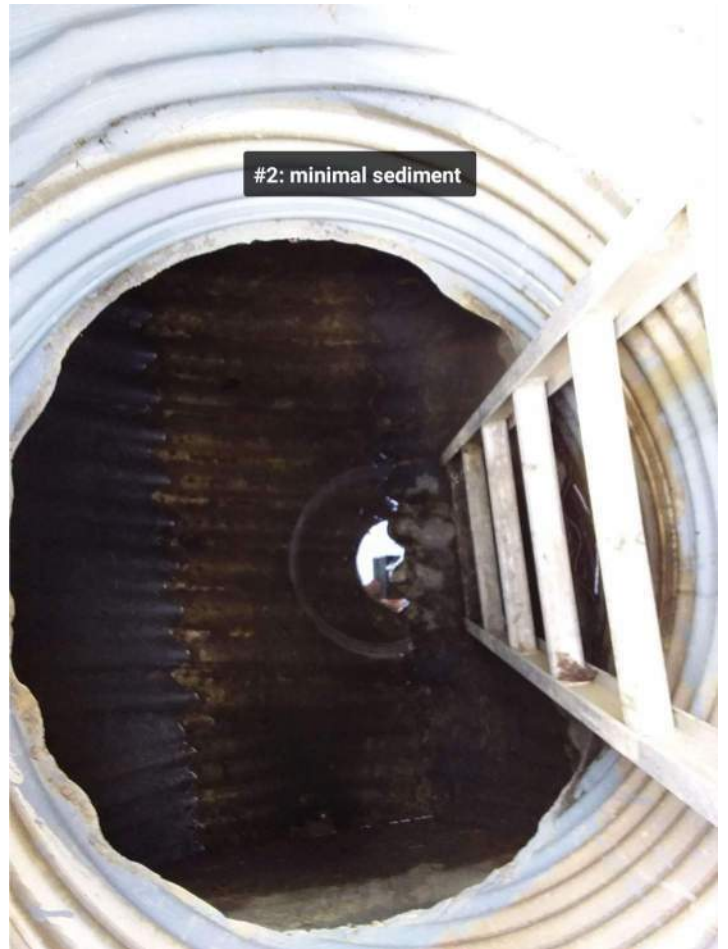
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BMP 25



BMP 25



BMP 25



BMP 26



BMP 26



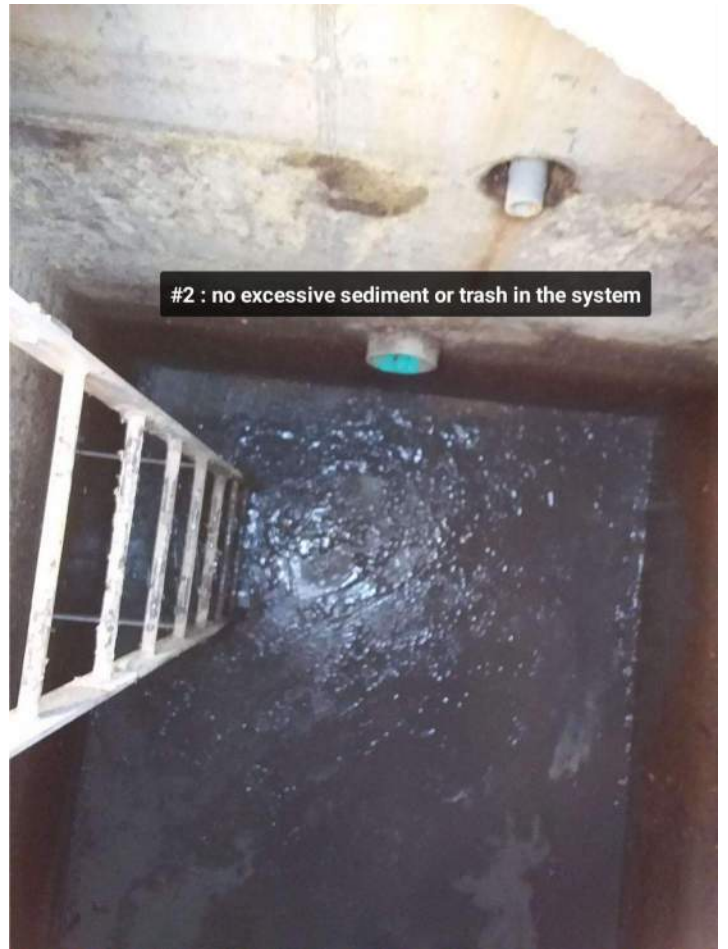
BMP 26



BMP 27



BMP 27



BMP 27



BMP 36



BMP 36



BMP 36



BMP 36



BMP 37



BMP 37



BMP 38



BMP 38



BMP 39



BMP 39



BMP 40



BMP 40



BMP 40



BMP 40



BMP 40



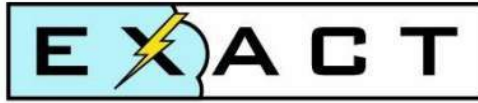
BMP 50



BMP 50



BMP 50



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03/17/2020

CUSTOMER	SERVICE LOCATION
Timmons Group Aislinn Creel 1001 Boulders Parkway, Suite 300 Richmond VA 23225 (804) 200-6544	VSU Virginia State University 1 Hayden Dr. Petersburg VA

JOB DETAILS	Inspections of Stormfilters: Units 22, 23, 35, 47, 48, 49
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COMPLETION NOTES	
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PICTURES



BMP 22



BMP 22



BMP 23



BMP 23



BMP 35



BMP 35



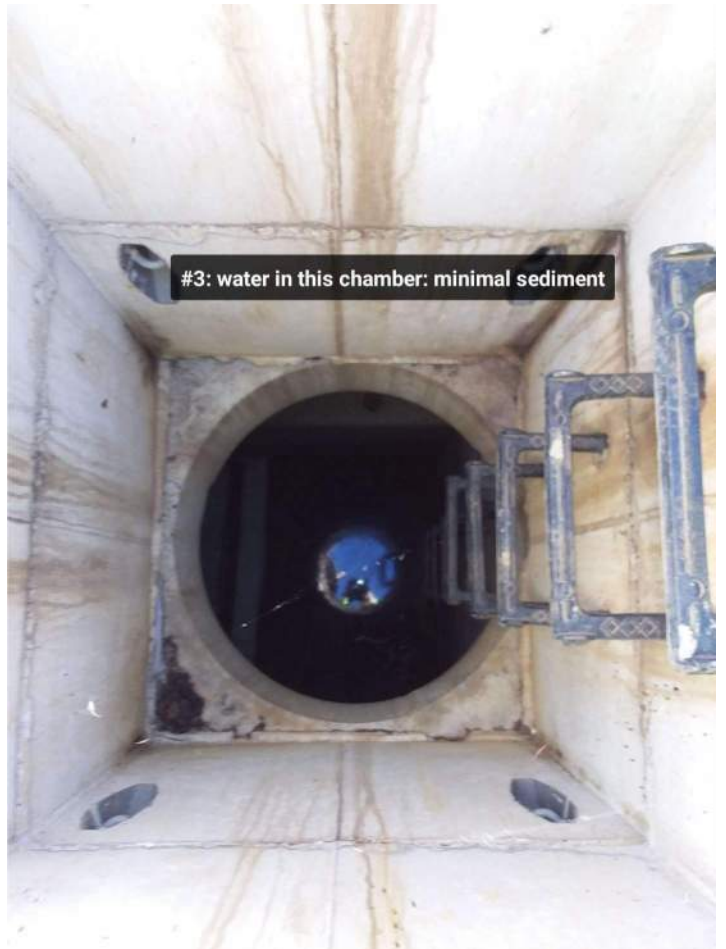
BMP 47



BMP 47



BMP 47



BMP 47



BMP 48



BMP 48



BMP 48



BMP 48



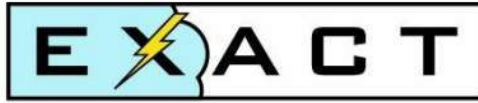
BMP 49



BMP 49



BMP 49



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03/17/2020

CUSTOMER	SERVICE LOCATION
Timmons Group Aislinn Creel 1001 Boulders Parkway, Suite 300 Richmond VA 23225 (804) 200-6544	VSU Virginia State University 1 Hayden Dr. Petersburg VA

JOB DETAILS	Inspections of Surface: Units 29, 30, 46
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COMPLETION NOTES	
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PICTURES



BMP 29



BMP 29



BMP 29



BMP 29



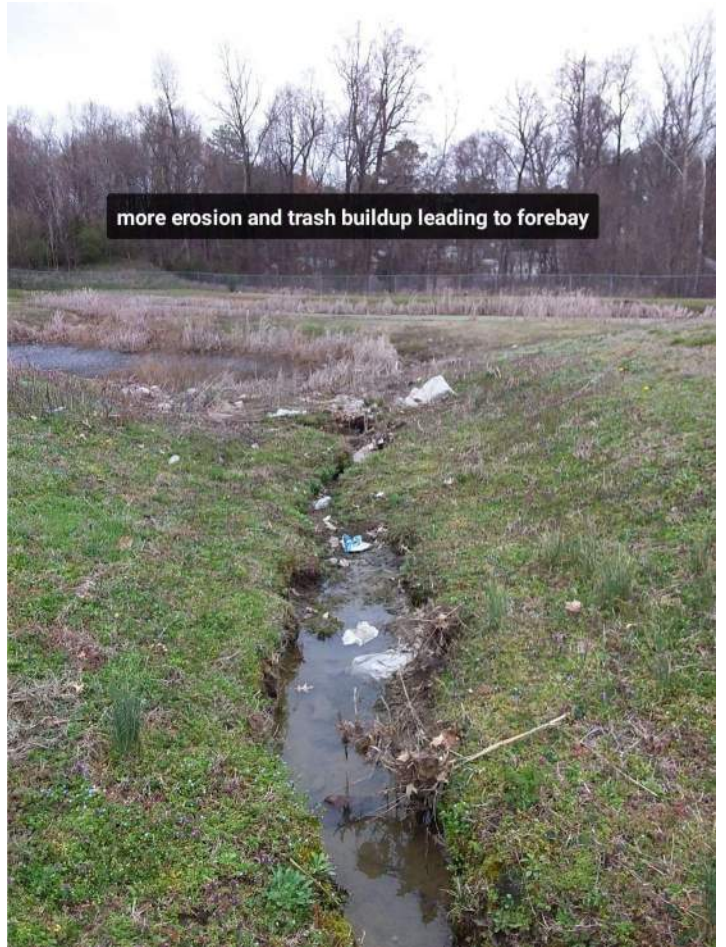
BMP 30



BMP 30



BMP 30



BMP 30



close up of erosion before rip rap channel inlet

BMP 30

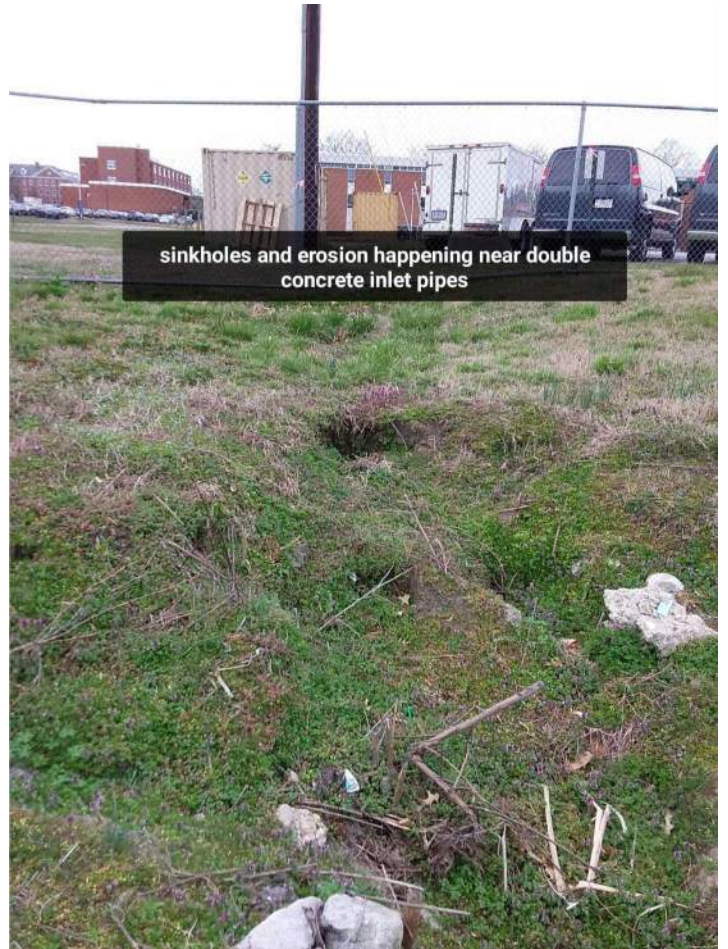


sediment, vegetation and trash in rip rap must be removed

BMP 30



BMP 30



BMP 30



BMP 30



BMP 30



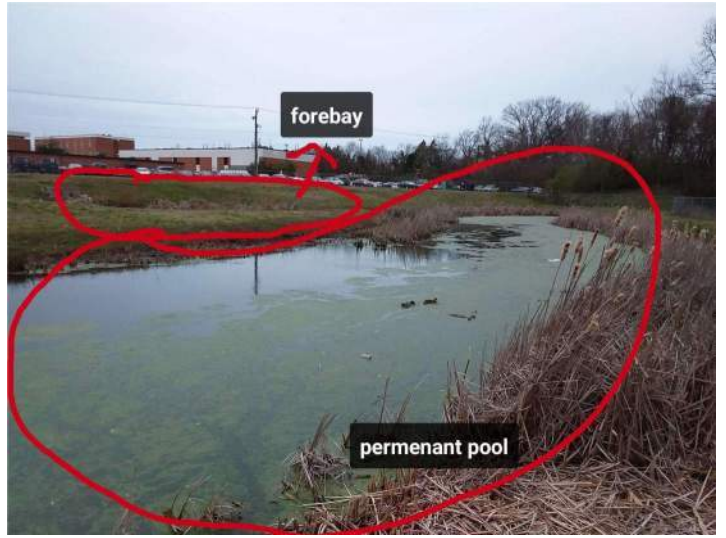
BMP 30



BMP 30



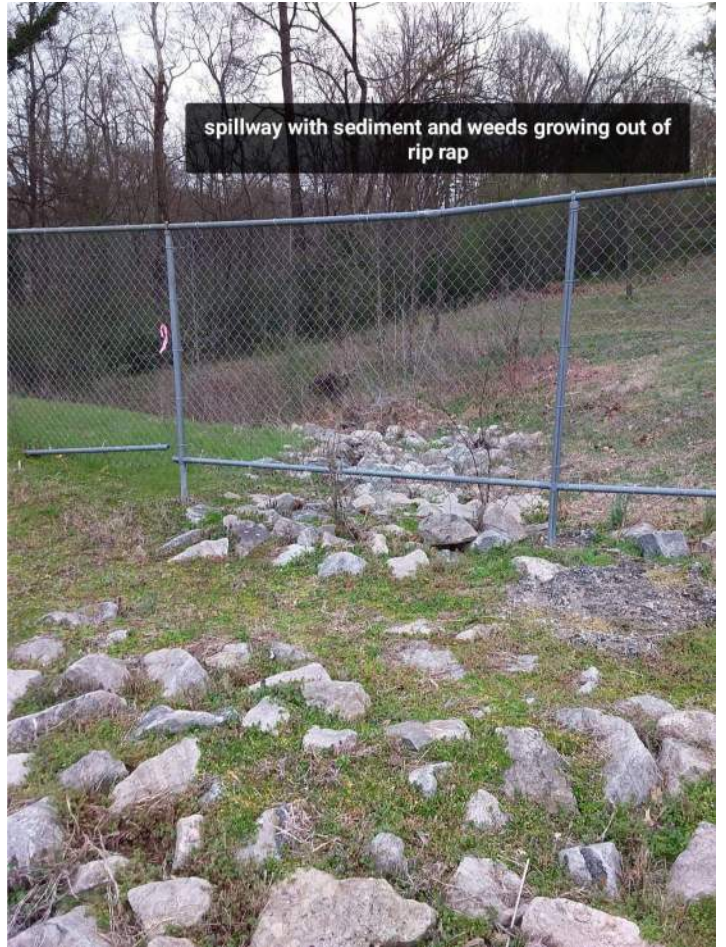
BMP 30



BMP 30



BMP 30



BMP 30



BMP 30: showing location of outfall structure near rip rap emergency spillway



BMP 30: outfall structure



BMP 30: view under manhole



BMP 46



BMP 46



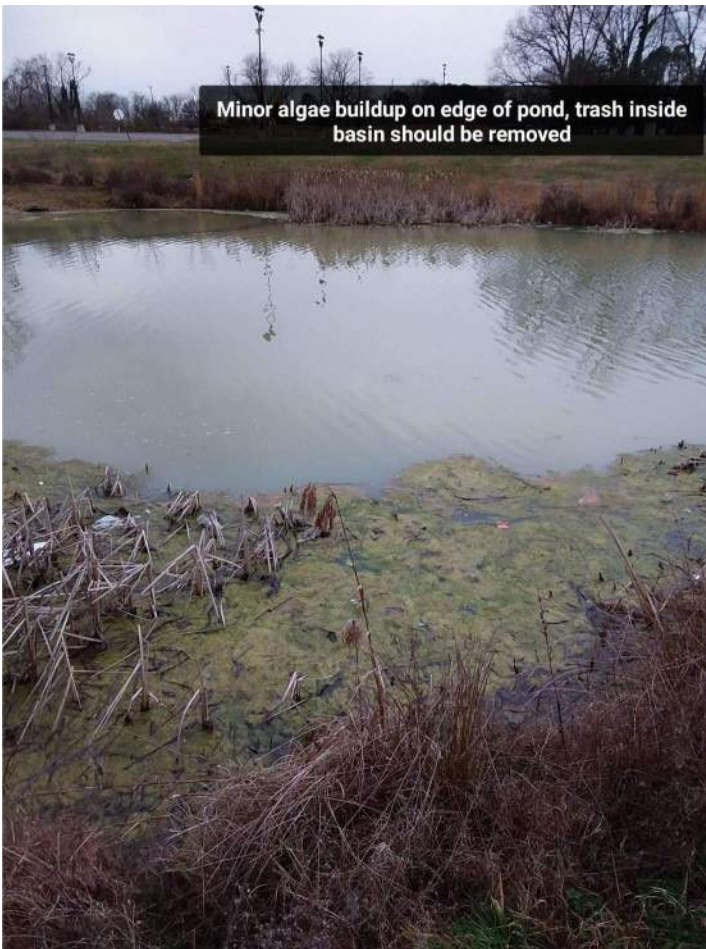
BMP 46



BMP 46



BMP 46



BMP 46



BMP 46: Erosion on the top of embankment repaired and then seed and straw matting was installed.



BMP 46: Bank erosion repaired with topsoil and seed and straw matting



BMP 46: Small spots of erosion on side slopes near outfall structure were repaired with topsoil and then seed and straw matting was installed.



BMP 46: Different angle of the same repaired section.



BMP 46: Side slope and top of embankment eroded area was repaired and stabilized properly.



BMP 46: outfall structure with trash rack



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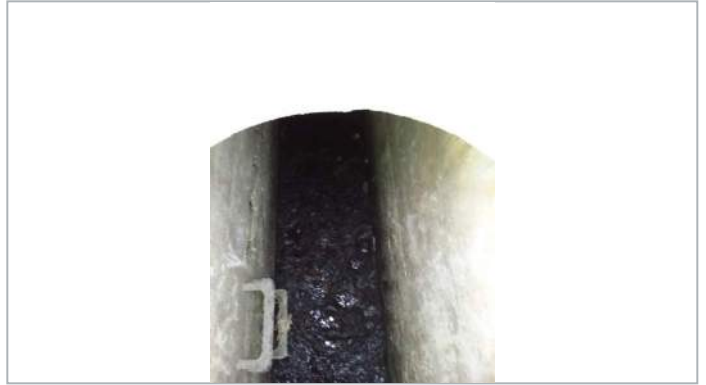
JOB DETAILS	
	Inspection of Unit 31 Delaware Sand Filter

COMPLETION NOTES	
	Sediment removed from the first 30% of the sand filter. Note the sediment appears to be deposited in large piles.

PICTURES



BMP 31: Sediment chamber facing south <1" of sediment in bottom



BMP 31: View of sediment chamber directly under manhole, almost all sediment was cleaned out of this system.



BMP 31 Beginning of Sand Filter, showing a thin layer of sediment on top of actual sand filter



BMP 31 Progressing through the sand filter



BMP 31 Sediment piles on top of sand filter (roughly 3-5" of sediment)



BMP 31 Continuing down the sand filter, showing more sediment piles.

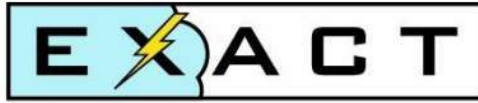


BMP 31 4" drain holes allow water to flow into the sand filter, but it appears disproportionate water dispersion is occurring. This could be the reason for having sediment clumps or piles

BMP 31



BMP 31 Almost all the way to the end of the underground sand filter, sediment accumulation throughout. Although the first section of sand filter was cleaned out. The further the sand filter goes the more accumulation there is.



STORMWATER MANAGEMENT

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CUSTOMER	SERVICE LOCATION
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JOB DETAILS	Inspections of Sorbtive Filters: Units 32, 33, 34
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COMPLETION NOTES	
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PICTURES



BMP 32



BMP 32



BMP 33



BMP 33



BMP 34



BMP 34

Appendix MCM 6

Matthew Webb

From: David Weddle <dweddle@vsu.edu>
Sent: Monday, September 21, 2020 9:58 AM
To: Matthew Webb
Subject: Re: Training docs
Attachments: SPCC Spill Training (1).pptx

The training is attached. It was sent out April 15th of 2020. It was done self-paced, remotely this year due to the stay at home order. The attendees were, Steven Price, Larry Crowder, Mark Adams, and Kenneth Roberts. Hopefully, it returns to normal next year!

David

Spill Prevention Training

VSU Facilities Department

1

Background

Comply with VADEQ Aboveground Storage Tank Regulations

Aggregate aboveground storage capacity above 25,000 gallons

Tanks under 660 gallons are excluded from the total storage amount

Five aboveground storage tanks with an aggregate capacity of 41,000 gallons

2

VSU AST Summary

Virginia State University Regulated ASTs

Table 1

Tank Type	Maximum Storage Capacity (gallons)	Contents	Location and Identification Number
Double-Walled Horizontal AST	10,000	# 2 oil	Heating Plant AST-1
Double-Walled Horizontal AST	10,000	# 2 oil	Heating Plant AST-2
Double-Walled Horizontal AST	10,000	# 2 oil	Heating Plant AST-3
Double-Walled Horizontal AST	10,000	# 2 oil	Heating Plant AST-4
Double-Walled Horizontal ConVault AST	1,000	# 2 Oil (Diesel Fuel)	Jones Dining Hall

3

Heating Plant ASTs



4

Heating Plant AST Bunker



5

Fuel Transfer and Inventory Control

- ASTs are equipped with high visibility liquid level gauges and audible overfill alarms
- Filling stations are located in a shed that is locked at all times; spill kits are located in the filling station and in the heating plant
- Fuel delivery checklist is used when filling tanks
- Heating plant staff member present at ALL times during fill up

6

Fuel Refill Station



7

Spill Kit



8

Fuel Oil Delivery Checklist

Fuel Oil Delivery Checklist

Product: _____ Delivery Date: _____

Quantity: _____ Storage Tank No.(s) _____

Vendor/Transporter Name: _____

Prior to starting the delivery process, verify the following:

1. Material being delivered agrees with the type of fuel needed for that tank and equipment (#2 oil for the heating plant and # 2 oil (Diesel fuel) for Emergency Generators). (must be <0.5% sulfur for 2 oil for the heating plant, must be <0.0015% by weight (<15ppmv) sulfur for the generators.
2. Check the level gage on the tank that is being filled to ensure that there is sufficient capacity in the tank to safely accept the quantity of fuel being delivered.
3. Check flexible hoses for integrity, deterioration or leaks.
4. Check the unloading area for integrity, deterioration or leaks.
5. Check for improper deployment and location of portable/temporary containment devices (i.e. booms to block nearby storm drains)

9

Tank Inspections

- Tanks are checked daily and official tank inspection reports are conducted weekly

WEEKLY TANK INSPECTION CHECKLIST

Check tanks weekly and fill out the Weekly Inspection Log

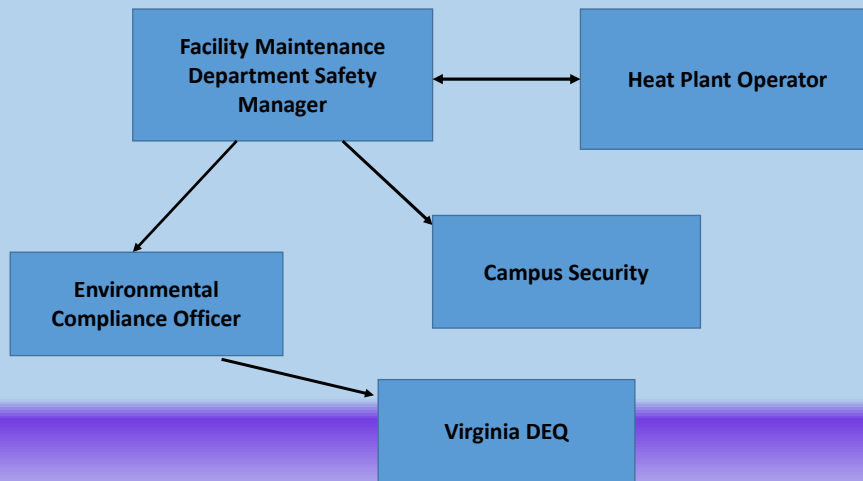
Registration of the Above Ground Fuel Storage Tanks with the DEQ requires that all ASTs be inspected weekly.

AST-1	# 2 oil	AST-5	# 2 diesel
AST-2	# 2 oil	Generator Tank	# 2 diesel
AST-3	# 2 oil		
AST-4	# 2 oil		

1. Check AST 1-4 and the fuel storage room containment:
 - Are drip marks apparent? Yes [] No []
 - Is there apparent discoloration? Yes [] No []
 - Is there any visible corrosion? Yes [] No []
 - Are there any visible cracks? Yes [] No []
 - Are there any puddles containing material? Yes [] No []
2. Check Containment for The Following:
 - Are there any visible cracks? Yes [] No []

10

Spill Procedures - Notifications



11

Regulatory Notifications

- Virginia DEQ notified if the spill exceeds 25 gallons
- Notify National Response Center if the spill exceeds 1,000 gallons
- In the case of larger spills, the Environmental Compliance Officer will contact a spill response vendor to assist with mitigation activities (Clean Harbors, Potomac Environmental, etc.)
- Remediation activities will be coordinated by Environmental Compliance Officer in concert with Virginia DEQ for larger spills

12

Good Housekeeping Practices

- Do not dispose of leaves, grass clippings, tree trimming, oil, fuel, sediment or any other pollutant into a storm drain or water body
- Identify storm drain inlets at or near facility to notify employees and contractors not to dispose any materials or wastes
- Wash down and hose down equipment/vehicles in approved areas
- Use oil/water separators to eliminate or minimize oil and grease pollution of stormwater runoff
- Install erosion and sediment controls where necessary

Appendix SC



May 5, 2020



June 4, 2020



July 9, 2020



July 30, 2020