University of Maryland, College Park National Pollutant Discharge Elimination System MS4 Phase II FY2023 Annual Report General Discharge Permit #13-SF-5501



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List of Acronyms

AWRP Anacostia Watershed Restoration Partnership

AWS Anacostia Watershed Society

BLM Facilities Management—Department of Building & Landscape Maintenance

BMP Best Management Practice

BWPFS Baltimore-Washington Partners for Forest Stewardship

CAD Computer-Aided Design

CBLP Chesapeake Bay Landscape Professionals

CBT Chesapeake Bay Trust

COG Metropolitan Washington Council of Governments

P&C Facilities Management—Department of Planning & Construction
DESSR Department of Environmental Safety, Sustainability & Risk
E&E Facility Management—Department of Engineering & Energy

E&SC Erosion & Sediment Control ESD Environmental Site Design FM Facilities Management

FP Facilities Management—Department of Facilities Planning

GIS Geographic Information Systems software

IBBR Institute for Bioscience and Biotechnology Research

HVAC Heating, Ventilation, and Air Conditioning IDDE Illicit Discharge Detection and Elimination

IPM Integrated Pest Management MCM Minimum Control Measure

MDE Maryland Department of the Environment

MEP Maximum Extent Practicable
MES Maryland Environmental Services

MS4 Municipal Separate Storm Sewer System

NNI Non-Native Invasive
NOI Notice of Intent

NPDES National Pollutant Discharge Elimination System

OM&U Facility Management – Operations, Maintenance and Utilities

OS Office of Sustainability

SOP Standard Operating Procedure

SPCC Plan Spill Prevention Control and Countermeasure Plan

SWPPP Stormwater Pollution Prevention Plan UMD University of Maryland, College Park

USG Universities at Shady Grove

I. NPDES MS4 PERMIT UMD AUTHORIZATION

The University of Maryland-College Park (UMD) owns and operates a municipal separate storm sewer system (MS4) and, therefore, must comply with the National Pollutant Discharge Elimination System (NPDES) General Permit for Discharges from State and Federal Small Municipal Separate Storm Sewer Systems. Maryland Department of the Environment (MDE) has regulatory authority to implement this program under their General Discharge Permit No. 13-SF-5501, which took effect on October 31, 2018 and expires on October 30, 2023.

The NPDES MS4 permit requires that permit holders implement Best Management Practices (BMPs) for the following Minimum Control Measures (MCMs):

- Personnel Education and Outreach
- Public Involvement and Participation
- Illicit Discharge Detection and Elimination
- Construction Site Stormwater Runoff Control
- Post Construction Management
- Pollution Prevention and Good Housekeeping

In addition, the permit requires restoration efforts for twenty percent of existing developed lands that have little or no stormwater management by 2025. These efforts may include:

- Developing planning strategies
- Identifying water quality improvement opportunities
- Securing appropriate funding
- Development of an implementation schedule for achieving the 20% restoration requirement
- Implementing water quality improvement projects

This is the fifth annual report for General Discharge Permit 13-SF-5501 and only activities related to the 20% restoration requirement are required to be reported. While the university continues to maintain the MCM programs, progress on each measure will be updated in the next annual report.

II. NOTICE OF INTENT

UMD submitted a Notice of Intent (NOI) in October 2018, which identified all UMD properties in College Park that were eligible for MS4 coverage. An amendment was submitted in October 2019 to include the Institute for Bioscience and Biotechnology Research (IBBR) facility located on the campus of The Universities at Shady Grove, Maryland.

III. UMD MS4 PERMIT ADMINISTRATION

A. Reporting Period

This fifth annual report reflects activities for the Impervious Restoration Program through from July 1, 2022 to June 30, 2023.

B. Contact Information

Agency Name: University of Maryland, College Park Contact Person and Title: Christopher Ho, Civil Engineer

Mailing Address: 7401 Baltimore Avenue, 4th Floor, College Park, MD 20740

Phone Number: (301) 405-9969

Email: hocyho@umd.edu

C. UMD NPDES MS4 Organizational Structure

UMD Facilities Management-Facilities Planning (FM-FP) managed and administered the NPDES MS4 permit during the reporting period. Several units/departments helped implement MS4 permit requirements; however, the following units/departments were instrumental in implementing the BMPs within the six MCMs:

- Department of Environmental Safety, Sustainability & Risk (DESSR) Environmental Affairs
- Facilities Management Department of Building & Landscape Management (FM-BLM)
- Facilities Management Department of Planning & Construction (FM-P&C)
- Facilities Management Department of Engineering & Energy (FM-E&E)
- DESSR Office of Sustainability (OS)

D. Staffing Resources

Compliance with the NPDES MS4 program requires significant funding, which is provided through both operational and capital budgets. The MS4 requirements are largely implemented by UMD staff that are either fully or partially dedicated to this effort. The following departments dedicate staff to this program as follows:

- DESSR: Four employees share MS4/stormwater responsibilities and spend the amount of time equivalent to 2.5 full-time staff members.
- FM-BLM: One full-time staff inspects and maintains stormwater facilities, and several other staff dedicate time to public outreach and volunteer events, forest/tree management, and landscape maintenance.
- FM-FP: One full-time staff dedicates at least 50 percent of the time to MS4 permit and stormwater regulations. In addition, several other staff members are partially dedicated to supporting stormwater inventory and geographic information system (GIS) efforts.
- FM-E&E: Two full-time staff members dedicate at least 20 percent of the time to engineering and water-related issues

IV. CHESAPEAKE BAY RESTORATION AND MEETING TOTAL MAXIMUM DAILY LOADS

The University of Maryland is committed to contributing towards the nutrient and sediment load reductions as specified by Maryland's Watershed Implementation Plan to address the Chesapeake Bay TMDL by 2025.

The Baseline Impervious Area Treatment and Restoration Requirements were updated with this report.

A. Baseline Impervious Area Treatment

This section presents the updated Baseline Impervious Area Assessment. All of the UMD properties to be regulated as identified in the NOI were imported into a GIS mapping database. Mapping features delineated included all impervious and pervious areas within the properties, locations of existing Best Management Practices (BMPs), and drainage areas to the BMPs. Previously unidentified BMPs were added and impervious areas were updated to reflect development projects completed during the reporting period

The previous annual report provided identification and inspection of all existing surface BMPs known at the time. Additional progress was made since the last year by identifying additional previously unknown BMPs constructed with legacy projects. Inspection of all green roofs and underground structures were also completed.

A summary of the baseline information is follows. Note all values are in acres.

Reporting Year 2019 2020 2021 2022 2023 Total impervious covered by 458.4 459.33 464.16 465.84 465.92 permit Total impervious treated by 15.5 26.36 38.30 40.37 56.25 **BMPs** Total impervious acres untreated 442.9 432.97 425.47 409.67 425.86 20% restoration requirement 88.58 86.59 85.17 85.09 81.93

Table 1: Baseline Summary

In the 2019 report, UMD identified and inspected 121 BMPs on the College Park Campus that were reported in the stormwater database. Of these facilities, 33 were identified as passing inspection; however, only 13 of these BMPs were assumed to be eligible for baseline or redevelopment credit as they did not have as-built plans or would be surveyed during the permit term.

In 2020, additional facilities were identified by cross checking legacy projects with the MDE permit database and searching UMD archives for records. BMPs constructed for leased projects on university owned properties were also added to the database. The IBBR BMPs were also incorporated in the UMD BMP database. Finally, inspection efforts and further research led to reclassification or separation of a few facilities. Overall, 44 facilities were added to the BMP database for a total of 165 BMPs in the 2020 report.

In 2021, the university reported a total number of 174 BMPs, of which 105 facilities were officially permitted with MDE for site development projects. Inspection records were completed for all of the permitted water quality treatment BMPs.

In 2022, the university reported a total number of 193 BMPs in the database inventory. However, 9 of the facilities associated with the Kim Engineering construction were removed and consolidated to UMCP22BMP0301 for the reconstruction of the plaza. 113 facilities are now officially permitted with MDE for site development projects. 12 as-built verification plans were submitted to the MDE Water & Science Administration, Sediment & Stormwater Plan Review Division for approval.

For 2023, a total of 196 BMPs are reported in the database inventory. UMD completed the dam breach analyses required for as-built verification of legacy embankment facilities. The analyses and as-builts are currently in review at MDE.

See Attachment A for the inspections completed by the university and MES.

See Attachment B for the full Baseline Impervious Area Assessment Report.

Based on 465.92 acres of existing impervious area and 56.25 ac of treatment, 20% of the remaining 409.67 acres of untreated impervious area requires 81.93 acres of restoration.

Table 2: Section I - Impervious Area Restoration Reporting

1.	a. Was the impervious area baseline assessment submitted in year 1? ▼Yes □ No		
	b. If No, describe the status of completing the required information an at which all information required by MDE will be submitted:	nd provide a date	
	c. Has the baseline been adjusted since the previous reporting year? ▼ Yes □ No		
2.	Complete the information below based on the most recent data:		
	Total impervious acres of area covered under this permit:	465.92	
	UMD 461.40 acres + IE	BBR 4.52 acres	
	Total impervious acres treated by stormwater water quality best mana (BMPs): UMD 53.91 acres + IBBR 2.34 acres	-	
	Total impervious acres treated by BMPs providing partial water quality (multiply acres treated by percent of water quality provided):	ty treatment	
	11.55 UMD 9.30 acres + IBBR 2.25 acres		
	Total impervious acres treated by nonstructural practices (i.e., rooftop non-rooftop disconnections, or vegetated swales):	disconnections,	
	0.15 UMD 0.12 acres + IBBR 0.03 acres		
	Total impervious acres untreated: 409.67		
	Twenty percent of this total area (this is the restoration requirement): 81.93		

Verify that all impervious area draining to BMPs with missing inspection records is not considered treated. Describe how this information was incorporated into the overall analysis:

All BMPs included in the treatment total have proper verification documentation and inspection records supporting that these facilities will provide water quality treatment in their current condition. Impervious area draining to BMPs without asbuilt plans or proper verification documentation were included in the untreated impervious acres total. Impervious area draining to BMPs reported as failing were also included in the untreated impervious acres total.

3.	Has an Impervious Area Restoration Work Plan been developed and submitted to MDE in accordance with Part V.B, Table 1 of the permit or other format? ▼ Yes □ No
	Has MDE approved the work plan? ✓ Yes □ No
	If the answer to either question is No describe the status of submitting (or

If the answer to either question is No, describe the status of submitting (or resubmitting) the work plan to MDE and provide a date at which all outstanding information will be available:

Describe progress made toward restoration planning, design, and construction efforts and describe adaptive management strategies necessary to meet restoration requirements by the end of the permit term:

In year 5, UMCP submitted 7 as-builts to MDE Plan Review to satisfy as-built requirements outlined in Technical Memo #16. These submissions included 6 ponds for which a dam breach analysis was also completed to meet the requirements for the heritage 378 pond as-built documentation. Credit for these facilities are currently contributing toward UMCP's baseline treatment and restoration goal (credit assigned appropriately as explained in the attached memo).

UMCP continued efforts to restore failing facilities across the campus. Following inspection to confirm facility has been restored to design, credit for provided treatment has been incorporated into UMCP's baseline assessment.

UMCP received grant funding for the construction of Phase II of the Campus Creek Restoration and retrofit of the Animal Science dry pond. Construction is expected to begin in 2023.

۷	with P	Restoration Schedule been completed and submitted to MDE in accordance art V.B, Table 2 of the permit?
	of proj	r 5, has a complete restoration schedule been submitted including a complete list ects and implementation dates for all BMPs needed to meet the twenty percent ation requirement?
	2025?	e projected implementation years for completion of all BMPs no later than
		be actions planned to provide a complete list of projects in order to achieve iance by the end of the permit term:
	goal. U expect update MDE.	P has provided a full list of completed projects that exceed their restoration UMCP continues to update this list annually as additional restoration projects and to be completed by 2025 are planned. Furthermore, UMCP will continue to the RAS with additional planned projects through 2030 as recommended by Current planned projects meet the recommended additional 10% restoration y 2030.
		be the progress of restoration efforts (attach examples and photos of proposed apleted projects when available):
	docum stream been s	ampus Creek Stream Restoration was completed in November 2019. Required tentation for the stream restoration was submitted to MDE in year 1. The a restoration provides a maximum credit of 105.8 acres. One acre of credit has hared with SHA, reducing the maximum credit to 104.8 acres. This exceeds Prestoration requirement of 81.93 acres.
	contin This in BMP i standa constr Anima	though UMCP has surpassed their restoration requirement, UMCP has ued efforts to identify additional restoration opportunities across campus. Includes analysis of failing BMPs to develop restoration concepts to restore the to design conditions or retrofit to update the facility to current MDE with the applicable. Additionally, in 2023 UMCP received funding for the fuction of Phase II of the Campus Creek Restoration and retrofit of the all Science dry pond. These projects combined will provide an estimated action credit of 54.15 acres.

Has the BMP database been submitted to MDE in Microsoft Excel format in accordance with Appendix B, Tables B.1.a, b, and c? ✓ Yes No
Is the database complete? ✓ Yes No
If either answer is No, describe efforts underway to complete all data fields, and a date that MDE will receive the required information:
UMCP is continuing efforts to update maintenance and inspection dates. UMCP has established a workflow utilizing Survey123 to document inspections and maintenance. UMCP will continue utilizing this workflow to update all inspection or maintenance dates.
Additionally, UMCP added new BMPs to the database following recently completed construction. As as-builts are completed and treatment is verified, the database will be updated to include all missing data for the new facilities.
Provide a summary of impervious area restoration activities planned for the next reporting cycle (attach additional information if necessary):
Perform repairs on existing facilities that are not functional. Continue utilizing Survey123 for inspection and maintenance. Procure contractor for constructing Animal Science retrofit and Campus Creek Phase II restoration. See attached restoration activity schedule.
Describe coordination efforts with other agencies regarding the implementation of impervious area restoration activities:
Currently in discussions with City of College Park for treatment of off-site City drainage that flows onto UMD campus. Also, in discussions with MTA for credit sharing of SWM facilities being proposed for Purple Line construction.
List the total cost of developing and implementing impervious area restoration
program during the permit term:
program during the permit term: Year 1: Consultant cost \$168,232
Program during the permit term: Year 1: Consultant cost \$168,232 Year 2: Consultant cost \$297,472
program during the permit term: Year 1: Consultant cost \$168,232

B. Impervious Area Restoration Work Plan

The restoration work plan required to be submitted with the MS4 progress report describes the plans and future activities proposed, as well as progress completed, over the course of the permit term towards meeting the restoration requirement.

Table 3: Restoration Work Plan

	 Import entire UMD campus properties into GIS mapping.
	 Delineate all property lines, impervious areas, pervious area surfaces, BMP locations and drainage areas for baseline assessment.
Year 1 (FY19)	 Inspect the entire UMD inventory of SWM BMP facilities and assess for compliance with the MS4 permit requirements. Research archives at UMD and MDE. Compile all available design plans, as-built plans, stormwater reports and maintenance records for each BMP.
	 Rate each facility based on the condition, availability of design plans, as-built plans, and maintenance records.
	 Establish a priority list of BMP repairs based on the lowest cost and greatest potential treatment areas.
	 Establish a BMP maintenance tracking program.
	 Program budgets for Year 2 surveys, designs, and repairs.
	 Complete MS4 BMP database.
	 Incorporate IBBR impervious and BMP inventory into UMD MS4 BMP database.
	 Update GIS impervious layer to incorporate completed construction projects.
	 Begin BMP verification survey for facilities without as-built documentation.
Year 2 (FY20)	 Begin developing a remediation plan or restoration concepts for failing BMPs.
	 Develop priority ranking for non-permitted facilities to determine if facility should be restored/retrofit and permitted.
	 Update baseline assessment and restoration goal.
	 Update restoration activity schedule for completed and proposed projects.
	 Develop program budgets for Year 3 surveys, designs, and repairs.

Inspect and evaluate treatment for additional BMPs added to the BMP database during the year 2 analysis. Continue BMP verification survey for facilities without as-built documentation. Complete inspection for high priority non-permitted facilities to identify repair requirements or retrofit opportunities. Develop priority ranking for permitted facilities to develop refined restoration schedule. Begin repairs for BMPs requiring remediation. Year 3 Begin implementing projects identified on the restoration activity (FY21) schedule. Update GIS impervious layer to incorporate completed construction Update baseline assessment and restoration goal. Update and submit Urban BMP database and documented maintenance and inspection status for all BMPs. Update restoration activity schedule on completed and proposed projects. Develop program budgets for Year 4 surveys, designs, and repairs. Complete BMP verification survey for facilities without as-built documentation. Begin restoration efforts for high priority non-permitted BMPs. Continue repair efforts for facilities requiring remediation. Continue implementing projects identified in the restoration activity schedule. Year 4 Update GIS impervious layer to incorporate completed construction (FY22) projects. Update baseline assessment and restoration goal. Update and submit Urban BMP database and documented maintenance and inspection status for all BMPs. Update restoration activity schedule on completed and proposed projects. Develop program budgets for Year 5 designs and repairs.

Continue repair efforts for facilities requiring remediation. Continue implementing projects identified in the restoration activity schedule. Update GIS impervious layer to incorporate completed construction projects. Update baseline assessment and restoration goal. Update and submit Urban BMP database and documented maintenance and inspection status for all BMPs. Develop program budgets for proposed restoration projects. Update restoration activity schedule for completed and proposed projects. Planning to be extended through 2030 for additional 10% restoration goal

C. Restoration Activity Schedule

The Restoration Activity Schedule shows the status of projects that will be implemented to meet the MS4 permit restoration requirements. This table shows the proposed list of projects and identifies if they are in planning, construction or completed. The table is updated every year to show the balance towards achieving the restoration requirement.

For the FY2023 report, the Restoration Activity schedule was updated to include completed and planned restoration projects through 2030.

The complete schedule is shown on Table 4 and an enlarged view can be found in **Attachment C**.

Table 4: MS4 Restoration Activity Schedule

Type of Restoration Project	BMP Code	BMP ID	Cost (\$K)	Imperv Acres Treated	Imperv Acre Target and Balance	Project Status	Year Complete or Projected Implementation Year (by 2025)
					81.93		
IBBR Outfall Stabilization	OUT	USG19BMP00004	10	0.50	81.43	С	2006
University House Southern Micro-Bioretention	MMBR	UMCP19BMP0040	10	0.03	81.40	С	2011
Denton Courtyard Micro-Bioretention	MMBR	UMCP19BMP0122	15	0.10	81.30	С	2012
Shuttle Facility Green Roof	AGRE	UMCP19BMP0016	50	0.11	81.19	С	2012
Shuttle Facility Green Roof	AGRE	UMCP19BMP0017	50	0.11	81.08	С	2012
Shuttle Facility Dry Swale	ODSW	UMCP19BMP0026	30	1.71	79.37	С	2012
Heavy Equipment Building Micro-Bioretention	MMBR	UMCP19BMP0055	15	0.10	79.27	С	2012
Denton Dining Micro-Bioretention	MMBR	UMCP19BMP0059	30	0.24	79.03	С	2012
Denton Quad Micro-Bioretention 3	MMBR	UMCP19BMP0070	15	0.07	78.96	С	2012
Physical Science Complex Green Roof	AGRE	UMCP19BMP0078	100	0.21	78.75	С	2013
Computer and Space Sciences Green Roof	AGRE	UMCP19BMP0049	35	0.08	78.67	С	2013
Prince Frederick Hall Micro-Bioretention Cell 1	MMBR	UMCP19BMP0124	30	0.14	78.53	С	2014
mpervious Surface Removal to Pervious 4100 Metzerott Rd	IMPP	UMCP20BMP0288	37	0.17	78.36	С	2016
West Side of Edward St. John Green Roof	AGRE	UMCP19BMP0157	50	0.06	78.30	С	2017
West Side of Edward St. John Green Roof	AGRE	UMCP19BMP0158	50	0.06	78.24	С	2017
mpervious Surface Removal to Pervious 4109 Metzerott Rd	IMPP	UMCP20BMP0289	7	0.03	78.22	С	2017
Clark Hall Bioretention 1	MMBR	UMCP19BMP0231	60	0.33	77.89	С	2017
Clark Hall Micro-Bioretention 2	MMBR	UMCP19BMP0232	50	0.29	77.60	С	2017
M Square SGW 1	MSGW	UMCP20BMP0258	90	1.86	75.74	С	2018
M Square SGW 2	MSGW	UMCP20BMP0259	40	0.72	75.02	С	2018
M Square MBR1	MMBR	UMCP20BMP0260	30	0.35	74.67	С	2018
A.V. Williams Micro-Bioretention	MMBR	UMCP19BMP0152	25	0.27	74.40	С	2018
A.V. Williams Micro-Bioretention	MMBR	UMCP19BMP0153	15	0.14	74.26	С	2018
A.V. Williams Micro-Bioretention	MMBR	UMCP19BMP0154	35	0.31	73.95	С	2018
Brendan Iribe Micro-Bioretention 1	MMBR	UMCP19BMP0241	30	0.27	73.68	С	2019
Brendan Iribe Micro-Bioretention 2	MMBR	UMCP19BMP0242	40	0.32	73.36	С	2019
Brendan Iribe 4	APRP	UMCP19BMP0244	20	0.15	73.21	С	2019
Brendan Iribe 5	AGRI	UMCP19BMP0245	20	0.14	73.07	С	2019
Campus Creek Stream Restoration Phase 1	STRE	UMCP19BMP0249	1800	104.80	-31.74	С	2019
Regenerative Step Pool Conveyance	SPSC	UMCP19BMP0250	20	0.58	-32.32	С	2019
Regenerative Step Pool Conveyance	SPSC	UMCP20BMP0290	20	0.31	-32.63	С	2019
Stormwater Bar	OUT	UMCP20BMP0291	10	0.13	-32.76	С	2019
Wooded Hillock Impervious Removal 3	IMPP	UMCP21BMP0296	5	0.02	-32.78	С	2020
Wooded Hillock Impervious Removal 2	IMPP	UMCP21BMP0297	37	0.02	-32.79	С	2020
Wooded Hillock Impervious Removal 1	IMPP	UMCP21BMP0298	11	0.05	-32.84	С	2020
Knight Hall	MRWH	UMCP19BMP0082	50	0.39	-33.23	С	2020
Cole Field House Impervious Removal	IMPP	UMCP21BMP0300	500	2.30	-35.53	С	2021
4103 Metzerott Rd Impervious Removal	IMPP	UMCP21BMP0299	15	0.07	-35.60	С	2021
Presidents house Disconnect 1	NDNR	UMCP19BMP0239	10	0.01	-35.61	С	2021
Prince Frederick Hall Bioretention Cell 2	MMBR	UMCP19BMP0125	45.2	0.33	-35.94	С	2022
Brendan Iribe 3	MSWB	UMCP19BMP0243	25	0.19	-36.13	С	2023
School of Public Policy Bioretention 1	MMBR	UMCP22BMP0321	50	0.16	-36.29	С	2023
School of Public Policy Bioretention 2	MMBR	UMCP22BMP0322	55	0.29	-36.58	С	2023
School of Public Policy Non-Rooftop Disconnect 1	NDNR	UMCP22BMP0324	5	0.04	-36.62	С	2023
Cole Field House Green Roof 1	AGRE	UMCP21BMP0292	50	0.32	-36.94	С	2023
Cole Field House Green Roof 2	AGRE	UMCP21BMP0293	20	0.07	-37.01	С	2023
Cole Field House Green Roof 3	AGRE	UMCP21BMP0294	50	0.37	-37.38	С	2023
Cole Field House Green Roof 4	AGRE	UMCP21BMP0295	100	0.86	-38.24	С	2023
Idea Factory Micro-Bioretention 4	MMBR	UMCP22BMP0301	50	0.08	-38.32	С	2023
Idea Factory Micro-Bioretention 2	MMBR	UMCP22BMP0302	50	0.06	-38.38	С	2023
Idea Factory Micro-Bioretention 1	MMBR	UMCP22BMP0303	50	0.07	-38.45	С	2023
Idea Factory Micro-Bioretention 3	MMBR	UMCP22BMP0304	50	0.04	-38.49	С	2023
Animal Science pond	PWET	UMCP19BMP0021	800	8.95	-47.44	P	2025
Campus Creek Stream Restoration Phase 2	STRE		2100	45.20	-92.64	Р	2025

D. BMP Database Tracking

The data tables specified in the MS4 permit have been completed for all identified BMPs within the permit area. A GIS system was established with these data tables so that the corresponding information can be recorded, updated, and tracked to be associated with an electronically mapped BMP feature.

UMD also implemented a field inspection app which allows real time updates to the database as inspections are conducted. The database also stores the previous inspection records, as well as maintains a historical account.

See **Attachment D** for the Urban Best Management Practice Database. An electronic version of this information will also be transmitted to MDE.

The application has been further developed to incorporate additional fields as the field inspection tool is used by more contractors and field personnel.

Additional information such as cost data, priority updates and maintenance tracking will be added in future versions to establish a more adaptive management approach for maintaining the BMPs. It will provide better data for managing, planning, budgeting and tracking of the UMD BMP inventory.

V. CONCLUSION

The FY2023 General Discharge Permit #13-SF-5501 annual report provides updates on the progress the University of Maryland, College Park has achieved with the Chesapeake Bay Restoration requirements.

Overall, the university continues to maintain programs related to education, involvement, IDDE, runoff control, stormwater management and pollution prevention related to the MS4 permit.

Although the university has met the Chesapeake Bay Restoration requirements for this permit term, the university continues to progress with documentation, restoration and maintenance of existing stormwater facilities on campus to further improve its stormwater program and to be prepared for the next permit term. The design of Phase 2 of the Campus Creek restoration and the retrofit of Animal Science Pond, funded in part by the Chesapeake Bay Trust Watershed Assistance Grant Program, will provide an additional estimated combined restoration credit of 53 acres. With the grant award from the DNR Cheaspeake & Atlantic Coastal Bays Trust Fund, construction of these projects are expected to start in 2024.

ATTACHMENT A BMP INSPECTION REPORTS



UMCP19BMP0005 / Peace and Friendship Garden

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 26, 2023	Inspector Initials:	MMC
	10:02 AM		
BMP ID:	UMCP19BMP0005	Inspection Firm:	UMD
BMP Type:	Sand Filter	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Rutting at spillway is a
Maintenance Level	Minor Maintenance (Use of Hand Equipment for Repairs)	Comment:	result of a vehicle moving through the area

Site Conditions

- BMP Access Good
- Debris & Sediment Fair
- Vegetation Fair
- BMP Contamination Fair
- **General Site Conditions Comments:** Good vegetation, along with weed growth in pretreatment and sand filter

Inflow and Forebay

- Inflow Condition Good
- Forebay Fair

Treatment Area

- Conveyance Stability Good
- Ponding Good/Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure N/A
- Principal Spillway Fair

Outfall and Downstream Condition

- Spillway Outfall Good
- Downstream Condition Poor

BMP Status - Pass

Maintenance Level - Minor Maintenance (Use of Hand Equipment for Repairs)



Maintenance & Remediation Recommendations

Regrade and smooth rutting and reseed

Additional Photos





UMCP19BMP0011 / CSPAC Shallow Marsh Wetland

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 27, 2023 12:11 PM	Inspector Initials:	MMC
BMP ID:	UMCP19BMP0011	Inspection Firm:	UMD
BMP Type:	Shallow Marsh	Underground BMP?	No
BMP Status	Pass	Overall Inspection	
Maintenance Level	Routine Maintenance (Only needs Routine Maintenance)	Comment:	

Site Conditions

- BMP Access Fair
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- **General Site Conditions Comments:** Southern inlets and channel are overgrown. Access around facility is overgrown. Riser not immediately Visakhapatnam

Inflow and Forebay

- Inflow Condition Good
- Forebay Good

Treatment Area

- Conveyance Stability Good
- Ponding Good/Water Depth -

Embankment

- Embankment Cover Good
- Upstream Embankment Good
- Downstream Embankment Good

Outlet/Control Structure

- Low Flow Orifice Good
- Outlet / Control Structure Good
- Principal Spillway N/A

Outfall and Downstream Condition

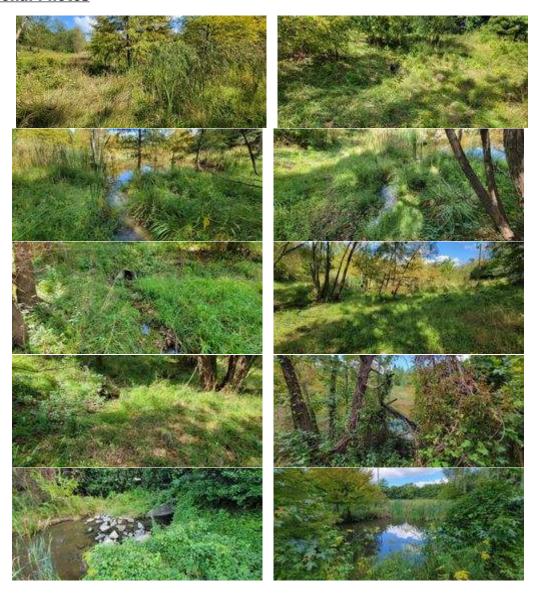
- Spillway Outfall N/A
- Downstream Condition Good

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)

Maintenance & Remediation Recommendations

Additional Photos





UMCP19BMP0014 / Woods Hall

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 21, 2023	Inspector Initials:	MMC
	2:53 PM		
BMP ID:	UMCP19BMP0014	Inspection Firm:	UMD
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Good plant coverage
Maintenance Level	No Maintenance Needed	Comment:	on slope. No weed
			pressure

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- **General Site Conditions Comments:** Good access to facility. Appropriate vegetation, no weed pressure. Overflow is clear

Date of Inspection: September 21, 2023 2:53

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability N/A
- · Ponding /Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- · Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - No Maintenance Needed



Maintenance & Remediation Recommendations

None

Additional Photos





Date of Inspection: September 21, 2023 2:53



UMCP19BMP0022 / Lot 11b

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 21, 2023	Inspector Initials:	MMC
	12:22 PM		
BMP ID:	UMCP19BMP0022	Inspection Firm:	UMD
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Fail	Overall Inspection	
Maintenance Level	Rebuild / Redesign (Use of engineering design to redesign or completely rebuild the facility)	Comment:	

Site Conditions

- BMP Access Fair
- Debris & Sediment Good
- Vegetation Fair
- **BMP Contamination** Good
- **General Site Conditions Comments:** Access is a bit overgrown. BMP is completely overgrown and taken over by invasive, with some native volunteer plants present

Date of Inspection: September 21, 2023 12:22

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability N/A
- Ponding /Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- · Low Flow Orifice -
- Outlet / Control Structure -
- Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition Poor

BMP Status - Fail



<u>Maintenance Level</u> - Rebuild / Redesign (Use of engineering design to redesign or completely rebuild the facility)

Maintenance & Remediation Recommendations

Additional Photos



Date of Inspection: September 21, 2023 12:22



UMCP19BMP0024 / Terrapin Trail Garage retention pond

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 18, 2023 8:08 AM	Inspector Initials:	MMC
BMP ID:	UMCP19BMP0024	Inspection Firm:	UMD
BMP Type:	Retention Pond (Wet	Underground BMP?	No
-	Pond)		
BMP Status	Pass	Overall Inspection	
Maintenance Level	Minor Maintenance (Use of Hand Equipment for	Comment:	
	Repairs)		

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments: Site is in good condition

Inflow and Forebay

- Inflow Condition Good
- Forebay Not Rated

Treatment Area

- Conveyance Stability Good
- Ponding Fair/Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice Not Rated
- Outlet / Control Structure Fair
- Principal Spillway Good

Outfall and Downstream Condition

- Spillway Outfall Good
- Downstream Condition Good

BMP Status - Pass

Maintenance Level - Minor Maintenance (Use of Hand Equipment for Repairs)

Maintenance & Remediation Recommendations



Additional Photos







UMCP19BMP0027 / Lot PP2 Bioretention

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 21, 2023 12:09 PM	Inspector Initials:	MMC
BMP ID:	UMCP19BMP0027	Inspection Firm:	UMD
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	
Maintenance Level	Minor Maintenance (Use of Hand Equipment for Repairs)	Comment:	

Site Conditions

- BMP Access Good
- Debris & Sediment Fair
- Vegetation Fair
- **BMP Contamination** Fair
- **General Site Conditions Comments:** Some debris at inlet. Full vegetation, but naturalized with native and non native volunteer plants

Inflow and Forebay

- Inflow Condition Fair
- Forebay N/A

Treatment Area

- Conveyance Stability N/A
- · Ponding /Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- · Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - Minor Maintenance (Use of Hand Equipment for Repairs)

Date of Inspection: September 21, 2023 12:09



Maintenance & Remediation Recommendations

Additional Photos





Date of Inspection: September 21, 2023 12:09



UMCP19BMP0036 / Lot Three (Guilford Park Bioretention)

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	June 6, 2023 7:10 AM	Inspector Initials:	MMC
BMP ID:	UMCP19BMP0036	Inspection Firm:	UMD
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	
Maintenance Level	No Maintenance Needed	Comment:	

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- Ponding /Water Depth -

Embankment

- Embankment Cover Good
- Upstream Embankment Good
- Downstream Embankment Good

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition Good

BMP Status - Pass

Maintenance Level - No Maintenance Needed

Maintenance & Remediation Recommendations



Additional Photos







UMCP19BMP0039 / Chem-Nuc BLDG

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 21, 2023	Inspector Initials:	MMC
	11:32 AM		
BMP ID:	UMCP19BMP0039	Inspection Firm:	UMD
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	
Maintenance Level	Minor Maintenance (Use of Hand Equipment for Repairs)	Comment:	

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Fair
- **BMP Contamination** Fair
- **General Site Conditions Comments:** There is vegetative coverage, but mostly invasive and undesirable weeds. Some curb cuts are partly blocked by weeds and debris. One Boulder has moved and needs to be repositioned.

Inflow and Forebay

- Inflow Condition Fair
- Forebay N/A

Treatment Area

- Conveyance Stability N/A
- Ponding /Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- · Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - Minor Maintenance (Use of Hand Equipment for Repairs)

Date of Inspection: September 21, 2023 11:32



Maintenance & Remediation Recommendations

Additional Photos



Date of Inspection: September 21, 2023 11:32



UMCP19BMP0059 / Denton Dining

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 27, 2023 12:00 PM	Inspector Initials:	MMC
BMP ID:	UMCP19BMP0059	Inspection Firm:	UMD
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Needs additional plant
Maintenance Level	Minor Maintenance (Use of Hand Equipment for Repairs)	Comment:	material for full vegetative coverage

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Fair
- BMP Contamination Good
- **General Site Conditions Comments:** Replanting required in each of the three cells. Many bare spots.

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability N/A
- · Ponding /Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- · Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - Minor Maintenance (Use of Hand Equipment for Repairs)

Date of Inspection: September 27, 2023 12:00



Maintenance & Remediation Recommendations

Replant per plan

Additional Photos





UMCP19BMP0065 / Greenmeade North Grass Channel B

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 16, 2022 10:17 AM	Inspector Initials:	MMC
BMP ID:	UMCP19BMP0065	Inspection Firm:	UMD
BMP Type:	Grass Swale	Underground BMP?	No
BMP Status	Pass	Overall Inspection	
Maintenance Level	No Maintenance Needed	Comment:	

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Good
- Forebay Good

Treatment Area

- Conveyance Stability Good
- Ponding /Water Depth -

Embankment

- Embankment Cover Good
- Upstream Embankment Good
- Downstream Embankment Good

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- · Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition Good

BMP Status - Pass

Maintenance Level - No Maintenance Needed

Maintenance & Remediation Recommendations





UMCP19BMP0088 / Chem-Nuc BLDG

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 21, 2023	Inspector Initials:	MMC
	11:40 AM		
BMP ID:	UMCP19BMP0088	Inspection Firm:	UMD
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Sparse desirable plant
Maintenance Level	Routine Maintenance (Only needs Routine Maintenance)	Comment:	material. Replanting opportunity

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Fair
- BMP Contamination Good
- **General Site Conditions Comments:** Better condition than adjacent BMP, but there's a need for new planting in big facilities

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability N/A
- · Ponding /Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- · Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)

Date of Inspection: September 21, 2023 11:40



Maintenance & Remediation Recommendations

Additional Photos





Date of Inspection: September 21, 2023 11:40



UMCP19BMP0011 / CSPAC Shallow Marsh Wetland

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 27, 2023 12:11 PM	Inspector Initials:	MMC
BMP ID:	UMCP19BMP0011	Inspection Firm:	UMD
BMP Type:	Shallow Marsh	Underground BMP?	No
BMP Status	Pass	Overall Inspection	
Maintenance Level	Routine Maintenance (Only needs Routine Maintenance)	Comment:	

Site Conditions

- BMP Access Fair
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- **General Site Conditions Comments:** Southern inlets and channel are overgrown. Access around facility is overgrown. Riser not immediately Visakhapatnam

Inflow and Forebay

- Inflow Condition Good
- Forebay Good

Treatment Area

- Conveyance Stability Good
- Ponding Good/Water Depth -

Embankment

- Embankment Cover Good
- Upstream Embankment Good
- Downstream Embankment Good

Outlet/Control Structure

- Low Flow Orifice Good
- Outlet / Control Structure Good
- Principal Spillway N/A

Outfall and Downstream Condition

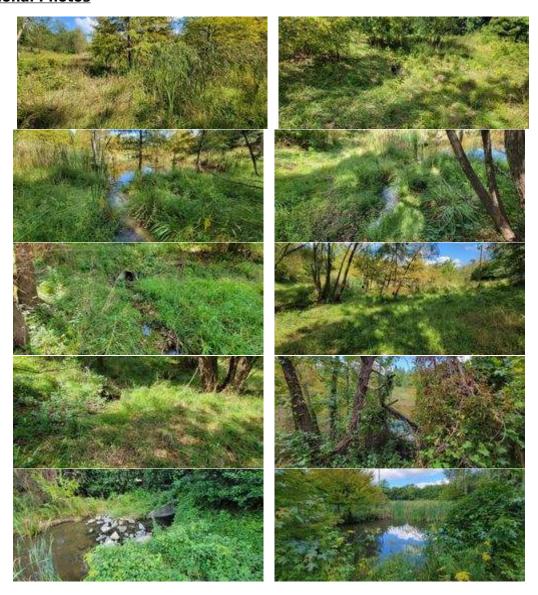
- Spillway Outfall N/A
- Downstream Condition Good

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)

Maintenance & Remediation Recommendations

Additional Photos





Date of Inspection: June 6, 2023 1:13 PM

UMCP19BMP0013 / Courtyards retention pond

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	June 6, 2023 1:13 PM	Inspector Initials:	PP, PW
BMP ID:	UMCP19BMP0013	Inspection Firm:	MES
BMP Type:	Retention Pond (Wet Pond)	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Overall bmp in good
Maintenance Level	Minor Maintenance (Use of Hand Equipment for Repairs)	Comment:	condition, needs minor maintenance at inflows and vegetation control around control structure and at inflows.

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Fair
- **BMP Contamination** Good
- General Site Conditions Comments: Some overgrowth of vegetation as well unplanned vegetation.

Inflow and Forebay

- Inflow Condition Poor
- Inflow Comments NW inlet has woody vegetation growth in front of end wall as well as invasive vegetation in riprap, and water standing at inflow has a sheen. SW inflow has minor vegetation growth, and moderate sedimentation.
 - o Other Repair Items Remove vegetation and sedimentation at inflows and refill riprap where needed.
- Forebay Fair
 - Other Repair Items Invasive vegetation growth in NW forebay. Sedimentation in SW forebay. Displaced riprap from inflows into forebays leading to minor conveyance instability in forebays.

Treatment Area

- Conveyance Stability Fair
- Ponding Good/Water Depth 0

Embankment

- Embankment Cover Good
- Upstream Embankment Good
- Downstream Embankment Good
- Emergency Spillway Good
- **Embankment Cover** Minor bare spots on upstream embankment next to building due to construction as well as bare spots on embankment closer to outfall due to shade.
- Other Repair Items Reseed bare spots

Outlet/Control Structure

• Low Flow Orifice - Good



Date of Inspection: June 6, 2023 1:13 PM

- Outlet / Control Structure Fair
- **Control Structure Comment -** Woody vegetation growth around the control structure.
- Principal Spillway N/A

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition Fair
- **Downstream Condition Comment -** Woody vegetation growth in riprap to outflow.

BMP Status - Pass

Maintenance Level - Minor Maintenance (Use of Hand Equipment for Repairs)

Maintenance & Remediation Recommendations

Remove sedimentation at inflows and vegetation. Identify source of contamination at NW inflow. Remove woody vegetation at control structure and at inflows.

Additional Photos

Overall Photos





Date of Inspection: June 6, 2023 1:13 PM







NW Inflow Condition









SW Inflow Condition









Overall NW Forebay









Contamination at NW Inflow





Embankment



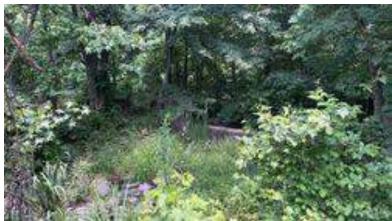






Control Structure







SW Forebay conveyance instability



Woody vegetation growth in gabion basket of SW forebay





UMCP19BMP0014 / Woods Hall

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 21, 2023	Inspector Initials:	MMC
	2:53 PM		
BMP ID:	UMCP19BMP0014	Inspection Firm:	UMD
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Good plant coverage
Maintenance Level	No Maintenance Needed	Comment:	on slope. No weed
			pressure

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- **General Site Conditions Comments:** Good access to facility. Appropriate vegetation, no weed pressure. Overflow is clear

Date of Inspection: September 21, 2023 2:53

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability N/A
- · Ponding /Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- · Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - No Maintenance Needed



Maintenance & Remediation Recommendations

None

Additional Photos





Date of Inspection: September 21, 2023 2:53



UMCP19BMP0022 / Lot 11b

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 21, 2023	Inspector Initials:	MMC
	12:22 PM		
BMP ID:	UMCP19BMP0022	Inspection Firm:	UMD
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Fail	Overall Inspection	
Maintenance Level	Rebuild / Redesign (Use of engineering design to redesign or completely rebuild the facility)	Comment:	

Site Conditions

- BMP Access Fair
- Debris & Sediment Good
- Vegetation Fair
- **BMP Contamination** Good
- **General Site Conditions Comments:** Access is a bit overgrown. BMP is completely overgrown and taken over by invasive, with some native volunteer plants present

Date of Inspection: September 21, 2023 12:22

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability N/A
- Ponding /Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- · Low Flow Orifice -
- Outlet / Control Structure -
- Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition Poor

BMP Status - Fail



<u>Maintenance Level</u> - Rebuild / Redesign (Use of engineering design to redesign or completely rebuild the facility)

Maintenance & Remediation Recommendations

Additional Photos



Date of Inspection: September 21, 2023 12:22

Date of Inspection: May 31, 2023 1:15 PM



UMCP19BMP0023 / Neutral Buoyancy Conveyance

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 31, 2023 1:15 PM	Inspector Initials:	BFB/TPR
BMP ID:	UMCP19BMP0023	Inspection Firm:	MES
BMP Type:	Wet Swale (ESD)	Underground BMP?	No
BMP Status	Pass	Overall Inspection	BMP in fair condition.
Maintenance Level	Minor Maintenance (Use of Hand Equipment for Repairs)	Comment:	Excessive sediment near outfall. Erosion around outlet culvert, potential damage.

Site Conditions

- BMP Access Fair
- Debris & Sediment Poor
- Vegetation Fair
- BMP Contamination Good
- General Site Conditions Comments: Excessive sediment near outfall

Inflow and Forebay

- Inflow Condition Good
- Forebay Not Rated

Treatment Area

- Conveyance Stability Good
- Ponding Fair/Water Depth 1

Embankment

- Embankment Cover Fair
- Upstream Embankment Not Rated
- Downstream Embankment Poor

Outlet/Control Structure

- Low Flow Orifice Not Rated
- Outlet / Control Structure Fair
- Principal Spillway Not Rated

Outfall and Downstream Condition

- Spillway Outfall Not Rated
- **Downstream Condition** Not Rated

BMP Status - Pass

Maintenance Level - Minor Maintenance (Use of Hand Equipment for Repairs)



<u>Maintenance & Remediation Recommendations</u> – Trim vegetation. Remove excess sediment from outfall. Repair erosion around outlet culvert and repair damage concrete as needed.

Additional Photos

Overall Site Condition







Date of Inspection: May 31, 2023 1:15 PM



Outflow Condition







Outfall Condition.



Erosion around culvert. Potential damage





Excessive Sedimentation Near Outfall







UMCP19BMP0024 / Terrapin Trail Garage retention pond

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 18, 2023 8:08 AM	Inspector Initials:	MMC
BMP ID:	UMCP19BMP0024	Inspection Firm:	UMD
BMP Type:	Retention Pond (Wet	Underground BMP?	No
	Pond)		
BMP Status	Pass	Overall Inspection	
Maintenance Level	Minor Maintenance (Use of Hand Equipment for	Comment:	
	Repairs)		

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments: Site is in good condition

Inflow and Forebay

- Inflow Condition Good
- Forebay Not Rated

Treatment Area

- Conveyance Stability Good
- Ponding Fair/Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice Not Rated
- Outlet / Control Structure Fair
- Principal Spillway Good

Outfall and Downstream Condition

- Spillway Outfall Good
- Downstream Condition Good

BMP Status - Pass

Maintenance Level - Minor Maintenance (Use of Hand Equipment for Repairs)

Maintenance & Remediation Recommendations



Additional Photos







UMCP19BMP0027 / Lot PP2 Bioretention

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 21, 2023 12:09 PM	Inspector Initials:	MMC
BMP ID:	UMCP19BMP0027	Inspection Firm:	UMD
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	
Maintenance Level	Minor Maintenance (Use of Hand Equipment for Repairs)	Comment:	

Site Conditions

- BMP Access Good
- Debris & Sediment Fair
- Vegetation Fair
- **BMP Contamination** Fair
- **General Site Conditions Comments:** Some debris at inlet. Full vegetation, but naturalized with native and non native volunteer plants

Inflow and Forebay

- Inflow Condition Fair
- Forebay N/A

Treatment Area

- Conveyance Stability N/A
- · Ponding /Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- · Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - Minor Maintenance (Use of Hand Equipment for Repairs)

Date of Inspection: September 21, 2023 12:09



Maintenance & Remediation Recommendations

Additional Photos





Date of Inspection: September 21, 2023 12:09



UMCP19BMP0036 / Lot Three (Guilford Park Bioretention)

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	June 6, 2023 7:10 AM	Inspector Initials:	MMC
BMP ID:	UMCP19BMP0036	Inspection Firm:	UMD
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	
Maintenance Level	No Maintenance Needed	Comment:	

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- Ponding /Water Depth -

Embankment

- Embankment Cover Good
- Upstream Embankment Good
- Downstream Embankment Good

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition Good

BMP Status - Pass

Maintenance Level - No Maintenance Needed

Maintenance & Remediation Recommendations



Additional Photos







UMCP19BMP0039 / Chem-Nuc BLDG

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 21, 2023	Inspector Initials:	MMC
	11:32 AM		
BMP ID:	UMCP19BMP0039	Inspection Firm:	UMD
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	
Maintenance Level	Minor Maintenance (Use of Hand Equipment for Repairs)	Comment:	

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Fair
- **BMP Contamination** Fair
- **General Site Conditions Comments:** There is vegetative coverage, but mostly invasive and undesirable weeds. Some curb cuts are partly blocked by weeds and debris. One Boulder has moved and needs to be repositioned.

Inflow and Forebay

- Inflow Condition Fair
- Forebay N/A

Treatment Area

- Conveyance Stability N/A
- Ponding /Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- · Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - Minor Maintenance (Use of Hand Equipment for Repairs)

Date of Inspection: September 21, 2023 11:32



Maintenance & Remediation Recommendations

Additional Photos



Date of Inspection: September 21, 2023 11:32



UMCP19BMP0059 / Denton Dining

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 27, 2023 12:00 PM	Inspector Initials:	MMC
BMP ID:	UMCP19BMP0059	Inspection Firm:	UMD
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Needs additional plant
Maintenance Level	Minor Maintenance (Use of Hand Equipment for Repairs)	Comment:	material for full vegetative coverage

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Fair
- BMP Contamination Good
- **General Site Conditions Comments:** Replanting required in each of the three cells. Many bare spots.

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability N/A
- · Ponding /Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- · Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - Minor Maintenance (Use of Hand Equipment for Repairs)

Date of Inspection: September 27, 2023 12:00



Maintenance & Remediation Recommendations

Replant per plan

Additional Photos





UMCP19BMP0065 / Greenmeade North Grass Channel B

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 16, 2022 10:17 AM	Inspector Initials:	MMC
BMP ID:	UMCP19BMP0065	Inspection Firm:	UMD
BMP Type:	Grass Swale	Underground BMP?	No
BMP Status	Pass	Overall Inspection	
Maintenance Level	No Maintenance Needed	Comment:	

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Good
- Forebay Good

Treatment Area

- Conveyance Stability Good
- Ponding /Water Depth -

Embankment

- Embankment Cover Good
- Upstream Embankment Good
- Downstream Embankment Good

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- · Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition Good

BMP Status - Pass

Maintenance Level - No Maintenance Needed

Maintenance & Remediation Recommendations



Date of Inspection: June 6, 2023, 12:48 PM

UMCP19BMP0068 / Courtyards Northeast Parking

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	June 6, 2023, 12:48 PM	Inspector Initials:	PP, PW
BMP ID:	UMCP19BMP0068	Inspection Firm:	MES
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Fail	Overall Inspection	Structure failing, poor
Maintenance Level	Rebuild / Redesign (Use of engineering design to redesign or completely rebuild the facility)	Comment:	conveyance medium and stability, heavy sedimentation

Site Conditions

- BMP Access Good
- Debris & Sediment Fair
- Vegetation Good
- BMP Contamination Fair
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Poor
- Forebay N/A

Treatment Area

- Conveyance Stability Poor
- Ponding /Water Depth N/A

Embankment

- Embankment Cover N/A
- Upstream Embankment N/A
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure N/A
- Principal Spillway N/A

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition N/A



BMP Status — Fail

<u>Maintenance Level</u> - Rebuild / Redesign (Use of engineering design to redesign or completely rebuild the facility)

Maintenance & Remediation Recommendations

Redesign

Additional Photos

Overall Photos:





Bare patches of medium and sedimentation:











Structure failure:





UMCP19BMP0069 / Courtyards Northeast Parking

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	June 6, 2023 12:47 PM	Inspector Initials:	PP, PW
BMP ID:	UMCP19BMP0069	Inspection Firm:	MES
ВМР Туре:	Bioretention	Underground BMP?	No
BMP Status	Fail	Overall Inspection	Storage capacity greatly
Maintenance Level	Major Maintenance (Use of Heavy Machinery for Repairs)	Comment:	reduced by sediment accumulation. Bare areas in basin.

Site Conditions

- BMP Access Good
- Debris & Sediment Poor
- Vegetation Fair
- BMP Contamination Good
- General Site Conditions Comments: BMP's capacity is reduced by buildup of sediment, bare areas with no mulch.

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability Fair
- Ponding /Water Depth N/A

Embankment

- Embankment Cover N/A
- Upstream Embankment N/A
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure N/A
- Principal Spillway N/A

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition N/A

BMP Status - Fail

<u>Maintenance Level</u> - Major Maintenance (Use of Heavy Machinery for Repairs)



Maintenance & Remediation Recommendations

Remove sediment accumulation, re-mulch, and re-plant where needed.

Additional Photos

Overall photo showing sediment buildup and lack of mulch.



Overall photo showing sediment accumulation.





Overall photo showing sediment accumulation and bare areas.





Date of Inspection: May 31, 2023 1:43 PM

UMCP19BMP0080 / Lot FF2

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 31, 2023 1:43 PM	Inspector Initials:	BFB/TPR
BMP ID:	UMCP19BMP0080	Inspection Firm:	MES
BMP Type:	Permeable Pavements	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Overall BMP in good
Maintenance Level	Routine Maintenance (Only	Comment:	condition
	needs Routine Maintenance)		

Site Conditions

- BMP Access Good
- Debris & Sediment Fair
- Vegetation Not Rated
- BMP Contamination Good
- General Site Conditions Comments: Needs cleaning and debris removal

Inflow and Forebay

- Inflow Condition Not Rated
- Forebay Not Rated

Treatment Area

- Conveyance Stability Not Rated
- Ponding /Water Depth N/A

Embankment

- Embankment Cover N/A
- Upstream Embankment N/A
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure N/A
- Principal Spillway N/A

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition Not Rated

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)

Maintenance & Remediation Recommendations

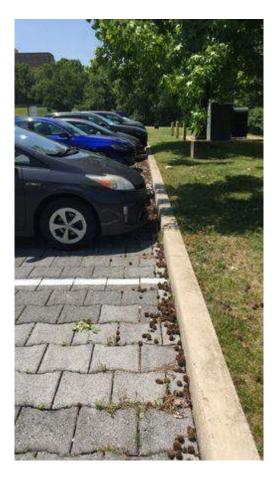
Continue routine maintenance



Additional Photos

Overall Condition

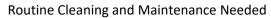


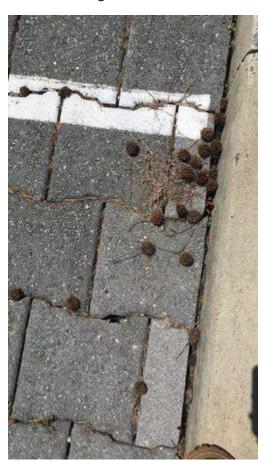












Date of Inspection: May 31, 2023 12:51 PM

UMCP19BMP0081 / Denton Hall

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 31, 2023 12:51 PM	Inspector Initials:	BFB/TPR
BMP ID:	UMCP19BMP0081	Inspection Firm:	MES
BMP Type:	Rainwater Harvesting	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Cleaning and soil removal
Maintenance Level	Routine Maintenance (Only	Comment:	
	needs Routine Maintenance)		

Site Conditions

- BMP Access Good
- Debris & Sediment Not Rated
- Vegetation Not Rated
- BMP Contamination Not Rated
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Good
- Forebay Not Rated

Treatment Area

- Conveyance Stability Not Rated
- Ponding /Water Depth N/A

Embankment

- Embankment Cover N/A
- Upstream Embankment N/A
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure N/A
- Principal Spillway N/A

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition Not Rated

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)

Maintenance & Remediation Recommendations

Cleaning and soil removal



SERVICE

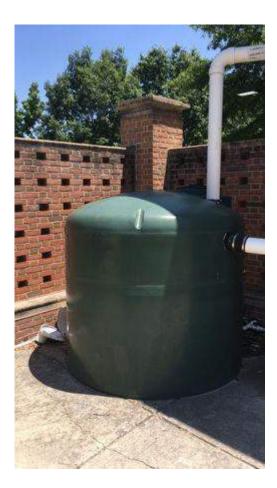
Additional Photos

Wes Moore GOVERNOR

Aruna Miller LT. GOVERNOR

Charles Glass, Ph.D., P.E. EXECUTIVE DIRECTOR

Overall Condition







Date of Inspection: May 31, 2023 12:51 PM



Downspout Condition



Date of Inspection: May 31, 2023 12:47 PM

UMCP19BMP0083 / Denton Hall

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 31, 2023 12:47 PM	Inspector Initials:	BFB/TPR
BMP ID:	UMCP19BMP0083	Inspection Firm:	MES
BMP Type:	Rainwater Harvesting	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Minor cracking on
Maintenance Level	Minor Maintenance (Use of	Comment:	downspout connection
	Hand Equipment for Repairs)		

Site Conditions

- BMP Access Good
- Debris & Sediment Not Rated
- Vegetation Not Rated
- BMP Contamination Not Rated
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Fair
- Forebay Not Rated

Treatment Area

- Conveyance Stability Not Rated
- Ponding /Water Depth N/A

Embankment

- Embankment Cover N/A
- Upstream Embankment N/A
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure N/A
- Principal Spillway N/A

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition Not Rated

BMP Status - Pass

Maintenance Level - Minor Maintenance (Use of Hand Equipment for Repairs)

Maintenance & Remediation Recommendations

Repair cracked PVC connection



Additional Photos

Wes Moore GOVERNOR Aruna Miller LT. GOVERNOR Charles Glass, Ph.D., P.E. EXECUTIVE DIRECTOR

Date of Inspection: May 31, 2023 12:47 PM

Overall Condition









Downspout Condition







UMCP19BMP0088 / Chem-Nuc BLDG

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 21, 2023	Inspector Initials:	MMC
	11:40 AM		
BMP ID:	UMCP19BMP0088	Inspection Firm:	UMD
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Sparse desirable plant
Maintenance Level	Routine Maintenance (Only needs Routine Maintenance)	Comment:	material. Replanting opportunity

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Fair
- BMP Contamination Good
- **General Site Conditions Comments:** Better condition than adjacent BMP, but there's a need for new planting in big facilities

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability N/A
- · Ponding /Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- · Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)

Date of Inspection: September 21, 2023 11:40



Maintenance & Remediation Recommendations

Additional Photos





Date of Inspection: September 21, 2023 11:40

Date of Inspection: May 31, 2023 1:58 PM



UMCP19BMP0091 / Regents Drive Bioretention

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 31, 2023 1:58 PM	Inspector Initials:	BFB/TPR
BMP ID:	UMCP19BMP0091	Inspection Firm:	MES
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Fail	Overall Inspection	Sediment accumulation at
Maintenance Level	Major Maintenance (Use of Heavy Machinery for Repairs)	Comment:	inflow and within facility. Significantly overgrown vegetation reducing storage capacity.

Site Conditions

- BMP Access Fair
- Debris & Sediment Fair
- Vegetation Poor
- BMP Contamination Good
- General Site Conditions Comments: Completely overgrown and high sediment build up

Inflow and Forebay

- Inflow Condition Not Rated
- Forebay Not Rated

Treatment Area

- Conveyance Stability Not Rated
- Ponding Not Rated/Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice Not Rated
- Outlet / Control Structure Not Rated
- Principal Spillway Not Rated

Outfall and Downstream Condition

- Spillway Outfall Not Rated
- Downstream Condition Good

BMP Status - Fail

Maintenance Level - Major Maintenance (Use of Heavy Machinary for Repairs)



Aruna Miller LT. GOVERNOR
Charles Glass, Ph.D., P.E. EXECUTIVE DIRECTOR

Wes Moore GOVERNOR

<u>Maintenance & Remediation Recommendations</u> – Clear sediment and debris. Remove unplanned and invasive vegetation.

Additional Photos

Overall:







Date of Inspection: May 31, 2023 1:58 PM

Curb cut Inflow



Date of Inspection: June 6, 2023 11:32 AM

UMCP19BMP0092 / Lot 9 Bioretention

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	June 6, 2023 11:32 AM	Inspector Initials:	PP, PW
BMP ID:	UMCP19BMP0092	Inspection Firm:	MES
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Fail	Overall Inspection	Major maintenance,
Maintenance Level	Major Maintenance (Use of Heavy Machinery for Repairs)	Comment:	sediment accumulation at inflows, poor conveyance stability causing bare patches, inlets are structurally compromised.

Site Conditions

- BMP Access Good
- Debris & Sediment Fair
- Vegetation Fair
- BMP Contamination Good
- **General Site Conditions Comments:** Bmp not in good condition. Several inlets are collapsing, sedimentation and debris in conveyance basin.

Inflow and Forebay

- Inflow Condition Poor
- Inflow Comments Inflows are collapsing.
- Forebay N/A

Treatment Area

- Conveyance Stability Poor
- Ponding Good/Water Depth 0

Embankment

- Embankment Cover N/A
- Upstream Embankment N/A
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure N/A
- Principal Spillway N/A

Outfall and Downstream Condition

• Spillway Outfall - N/A



- Downstream Condition N/A
- **Downstream Condition Comment -** Bare spots in basin, debris and sedimentation.

BMP Status - Fail

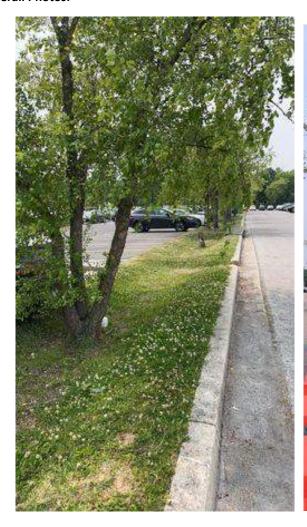
<u>Maintenance Level</u> - Major Maintenance (Use of Heavy Machinery for Repairs)

Maintenance & Remediation Recommendations

Replace inlets, regrade all basins, remove sediment from all inflows.

Additional Photos

Overall Photos:









Storm Drain 1 and 3







Storm Drain 2:







Inlet structures with sediment accumulation:



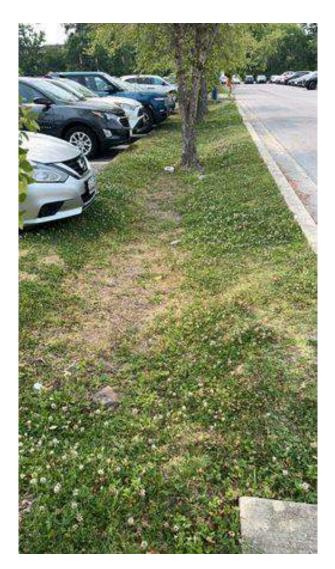








Bare spots in conveyance basin









Broken Cleanout:



Date of Inspection: May 31, 2023 1:50 PM

UMCP19BMP0093 / Regents Drive Bioretention

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 31, 2023 1:50 PM	Inspector Initials:	BFB/TPR
BMP ID:	UMCP19BMP0093	Inspection Firm:	MES
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Fail	Overall Inspection	Significant overgrown
Maintenance Level	Major Maintenance (Use of	Comment:	vegetation.
	Heavy Machinery for Repairs)		

Site Conditions

- BMP Access Fair
- Debris & Sediment Poor
- Vegetation Poor
- BMP Contamination N/A
- General Site Conditions Comments: Completely overgrown, cannot identify features, major vegetation and removal required.

Inflow and Forebay

- Inflow Condition Poor
- Forebay N/A

Treatment Area

- Conveyance Stability Not Rated
- Ponding Not Rated/Water Depth Not Rated

Embankment

- Embankment Cover Not Rated
- Upstream Embankment Not Rated
- Downstream Embankment Not Rated

Outlet/Control Structure

- Low Flow Orifice Not Rated
- Outlet / Control Structure Good
- Principal Spillway N/A

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition Not Rated

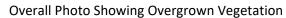
BMP Status - Fail

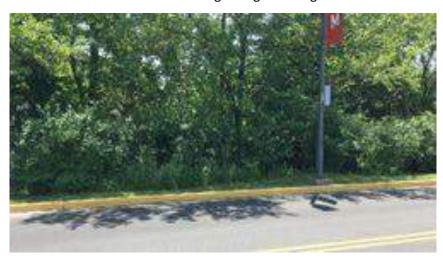
<u>Maintenance Level</u> - Major Maintenance (Use of Heavy Machinery for Repairs)

Maintenance & Remediation Recommendations

Repair curb. Trim overgrown vegetation.

Additional Photos





Inflow Condition





Date of Inspection: May 31, 2023 1:50 PM



Outlet Structure





Inflow Condition Showing Damaged Curb



Wes Moore GOVERNOR
Aruna Miller LT. GOVERNOR

Date of Inspection: June 6, 2023, 11:55 AM

Charles Glass, Ph.D., P.E. EXECUTIVE DIRECTOR

UMCP19BMP0094 / Paint Branch Drive Bioretention

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	June 6, 2023, 11:55 AM	Inspector Initials:	PP, PW
BMP ID:	UMCP19BMP0094	Inspection Firm:	MES
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Fail	Overall Inspection	BMP needs major
Maintenance Level	Major Maintenance (Use of Heavy Machinery for Repairs)	Comment:	maintenance. Overgrown vegetation, sediment accumulation at inflow and underdrain. Tree growth on embankment.

Site Conditions

- BMP Access Good
- Debris & Sediment Poor
- Vegetation Poor
- BMP Contamination Good
- General Site Conditions Comments: Overgrown vegetation, reduced storage capacity, sediment at inflow, and
 underdrain pipe filled with two inches of sediment.

Inflow and Forebay

- Inflow Condition Poor
- Forebay N/A

Treatment Area

- Conveyance Stability Fair
- Ponding Good/Water Depth 0

Embankment

- Embankment Cover Poor
- Upstream Embankment Poor
- Downstream Embankment Poor

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure Not Rated
- Principal Spillway N/A

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition Poor

BMP Status - Fail



Date of Inspection: June 6, 2023, 11:55 AM

<u>Maintenance Level</u> - Major Maintenance (Use of Heavy Machinery for Repairs)

Maintenance & Remediation Recommendations

Remove unplanned and overgrown vegetation in basin and on embankment. Remove sediment from inflow and in underdrain. Remove unplanned woody vegetation from embankment.

Additional Photos

Overall Photos:







Date of Inspection: June 6, 2023, 11:55 AM

Inflow:





Outfall:



Wes Moore GOVERNOR Aruna Miller LT. GOVERNOR Charles Glass, Ph.D., P.E. EXECUTIVE DIRECTOR

Date of Inspection: June 6, 2023, 11:55 AM



Vegetation at Outfall:



Overhead View of Outfall:



Date of Inspection: June 6, 2023, 11:55 AM



Date of Inspection: June 6, 2023, 11:55 AM

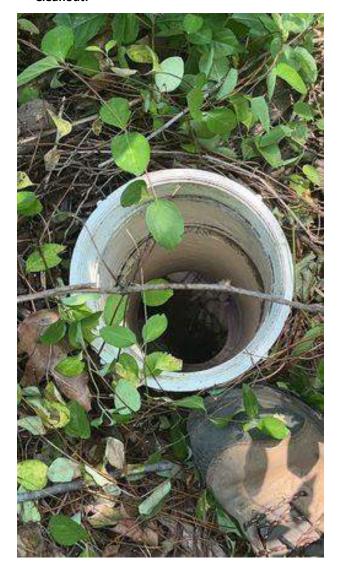
Vegetation in Treatment Area:







Cleanout:



Wes Moore GOVERNOR

Aruna Miller LT. GOVERNOR

Charles Glass, Ph.D., P.E. EXECUTIVE DIRECTOR

Downstream condition:



Date of Inspection: June 6, 2023, 11:55 AM



UMCP19BMP0106 / Shuttle Bus

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 30, 2022 9:09 AM	Inspector Initials:	MMC
BMP ID:	UMCP19BMP0106	Inspection Firm:	UMD
BMP Type:	Retention Pond (Wet Pond)	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Repair work brings
Maintenance Level	No Maintenance Needed	Comment:	facility up to standards post fuel spill earlier this year

Site Conditions

- BMP Access Good
- Debris & Sediment -
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments: Post maintenance repairs site free of debris and obstruction

Date of Inspection: September 30, 2022 9:09

Inflow and Forebay

- Inflow Condition Good
- Forebay Good

Treatment Area

- Conveyance Stability Good
- Ponding Good/Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice Not Rated
- Outlet / Control Structure Good
- Principal Spillway Good

Outfall and Downstream Condition

- Spillway Outfall Good
- Downstream Condition Good

BMP Status - Pass



Maintenance Level - No Maintenance Needed

Maintenance & Remediation Recommendations

None

Additional Photos



Date of Inspection: September 30, 2022 9:09



UMCP19BMP0122 / Denton Courtyard Bioretention

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 27, 2023 12:05 PM	Inspector Initials:	MMC
BMP ID:	UMCP19BMP0122	Inspection Firm:	UMD
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	One missing 6"
Maintenance Level	Minor Maintenance (Use of Hand Equipment for Repairs)	Comment:	cleanout cap, and a sinkhole about 2' in diameter has formed

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Fair
- BMP Contamination Good
- **General Site Conditions Comments:** Plants that are present are healthy and vigorous, but bare spots require replanting in shine areas

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability N/A
- Ponding /Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition Good

BMP Status - Pass

Maintenance Level - Minor Maintenance (Use of Hand Equipment for Repairs)



Maintenance & Remediation Recommendations

Replace cleanout cap, and fill in sinkhole. Replant bare areas

Additional Photos





UMCP19BMP0125 / Prince Frederick Hall Bioretention Cell 2

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	November 22, 2022 9:35 AM	Inspector Initials:	MMC
BMP ID:	UMCP19BMP0125	Inspection Firm:	UMD
BMP Type:	Micro-Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	
Maintenance Level	No Maintenance Needed	Comment:	

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Fair
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- Ponding /Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - No Maintenance Needed

Maintenance & Remediation Recommendations



Additional Photos



Date of Inspection: June 6, 2023 11:19 AM

UMCP19BMP0130 / By fountain in front of Kirwan Hall

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	June 6, 2023 11:19 AM	Inspector Initials:	PP, PW
BMP ID:	UMCP19BMP0130	Inspection Firm:	MES
BMP Type:	Permeable Pavements	Underground BMP?	No
BMP Status	Fail	Overall Inspection	No longer permeable. Brick
Maintenance Level	Rebuild / Redesign (Use of engineering design to redesign or completely rebuild the facility)	Comment:	appears to have been grouted. No longer infiltrating.

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation N/A
- BMP Contamination N/A
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability N/A
- Ponding /Water Depth N/A

Embankment

- Embankment Cover N/A
- Upstream Embankment N/A
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure N/A
- Principal Spillway N/A

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition N/A

BMP Status - Fail

Maintenance Level - Rebuild / Redesign (Use of engineering design to redesign or completely rebuild the facility)



Maintenance & Remediation Recommendations

Conduct in-depth infiltration test.

Additional Photos

Overall Site Condition







Photo Showing Permeable Pavers Have Been Grouted





Date of Inspection: May 31, 2023, 1:33 PM

UMCP19BMP0143 / Central Animal Resources Facility

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 31, 2023, 1:33 PM	Inspector Initials:	BFB/TPR
BMP ID:	UMCP19BMP0143	Inspection Firm:	MES
BMP Type:	Permeable Pavements	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Overall BMP in good
Maintenance Level	Routine Maintenance (Only needs Routine Maintenance)	Comment:	condition. Minor sediment accumulation.

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Not Rated
- BMP Contamination Poor
- General Site Conditions Comments: Permanent standing objects building up debris and impeding water flow.

Inflow and Forebay

- Inflow Condition Poor
- Forebay Not Rated

Treatment Area

- Conveyance Stability Not Rated
- Ponding /Water Depth -

Embankment

- Embankment Cover N/A
- Upstream Embankment N/A
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure N/A
- Principal Spillway N/A

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition Not Rated

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)

Maintenance & Remediation Recommendations

Continue routine maintenance



Additional Photos

Objects blocking pavement:











Buildup of debris:





Date of Inspection: June 6, 2023, 1:33 PM

UMCP19BMP0172 / Courtyards South Parking

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	June 6, 2023, 1:33 PM	Inspector Initials:	PP
BMP ID:	UMCP19BMP0172	Inspection Firm:	MES
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Overall BMP in good
Maintenance Level	Routine Maintenance (Only needs Routine Maintenance)	Comment:	condition. Minor erosion at inflow and bare areas on banks. Unplanned vegetation growth.

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Fair
- BMP Contamination Good
- **General Site Conditions Comments:** Site in moderate condition, needs some minor maintenance. Erosion in the inflow, bare patches on banks and invasive vegetation growing in basin.

Inflow and Forebay

- Inflow Condition Poor
- Inflow Comments Erosion at inflow and gullies forming from inflow from road on the side of streetlamp.
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- Ponding Not Rated/Water Depth 0
- Treatment Area Comments Invasive plant growth in basin is the only vegetation present other than grass.

Embankment

- Embankment Cover Fair
- Embankment Cover Comments Bare spots on side next to building.
- Upstream Embankment Fair
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure Good
- Principal Spillway Good

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition N/A



BMP Status - Pass

<u>Maintenance Level</u> - Routine Maintenance (Only needs Routine Maintenance)

Maintenance & Remediation Recommendations

Fill primary inflow/introduce riprap at inflow to remediate erosion. Remove invasive vegetation and reseed or fill baren spots next to building.

Additional Photos

Overall Photos:







Control Structure:





Principle spillway:







Bare patches c







Moderate Erosion at NE inflow:



Mild erosion on S bank





Bare area in SW basin



Gully forming around food of bridge from sheet flow from sidewalk





UMCP19BMP0231 / Clark Hall Bioretention 1

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 21, 2023 11:48 AM	Inspector Initials:	MMC
BMP ID:	UMCP19BMP0231	Inspection Firm:	UMD
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	
Maintenance Level	Minor Maintenance (Use of Hand Equipment for Repairs)	Comment:	

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Fair
- BMP Contamination Good
- **General Site Conditions Comments:** Vegetation present, but lower growing plant layer is missing and being replaced by grass and weeds

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- · Ponding /Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- · Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition Fair

BMP Status - Pass

Maintenance Level - Minor Maintenance (Use of Hand Equipment for Repairs)



Maintenance & Remediation Recommendations

Replant following the plant schedule as needed

Additional Photos







UMCP19BMP0232 / Clark Hall Bioretention 2

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 21, 2023 11:57 AM	Inspector Initials:	MMC
BMP ID:	UMCP19BMP0232	Inspection Firm:	UMD
BMP Type:	Micro-Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	
Maintenance Level	Minor Maintenance (Use of Hand Equipment for Repairs)	Comment:	

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Fair
- **BMP Contamination** Good
- **General Site Conditions Comments:** Perennial shrubs present, but lower growing plants are absent and being replaced with weed. Holes present which appear to be from burrowing animals

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability N/A
- Ponding /Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- · Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition Fair

BMP Status - Pass

Maintenance Level - Minor Maintenance (Use of Hand Equipment for Repairs)

Maintenance & Remediation Recommendations

Additional Photos



Date of Inspection: June 2, 2023, 11:31 AM

UMCP19BMP0235 / Upper Golf Course

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	June 2, 2023, 11:31 AM	Inspector Initials:	SAL, PP
BMP ID:	UMCP19BMP0235	Inspection Firm:	MES
BMP Type:	Retention Pond (Wet Pond)	Underground BMP?	No
BMP Status	Fail	Overall Inspection	Facility control structure
Maintenance Level	Rebuild/Redesign (Use of engineering design to redesign or completely rebuild the facility)	Comment:	has collapsed, major sediment accumulation and cattail growth within facility, erosion and damaged structures at inflows, tree growth and erosion at embankment, erosion and debris in outfall stream.

Site Conditions

- BMP Access Good
- Debris & Sediment Poor
- Vegetation Poor
- **BMP Contamination** Good
- **General Site Conditions Comments:** Cattail growth throughout facility, significant sediment accumulation within facility

Inflow and Forebay

- Inflow Condition Poor
- Forebay N/A

Treatment Area

- Conveyance Stability Fair
- Ponding Good/Water Depth 0

Embankment

- Embankment Cover Poor
- Upstream Embankment Fair
- Downstream Embankment Fair

Outlet/Control Structure

- Low Flow Orifice Poor
- Outlet / Control Structure Poor
- Principal Spillway Poor

Outfall and Downstream Condition



- Spillway Outfall Poor
- **Downstream Condition** Poor

BMP Status - Fail

Maintenance Level - Rebuild / Redesign (Use of engineering design to redesign or completely rebuild the facility)

Maintenance & Remediation Recommendations

Dredge facility, rebuild control structure, repair downstream condition, repair inflows.

Additional Photos

Overall Photos:







Overall photos:





Overall Photos:















Enbankment:



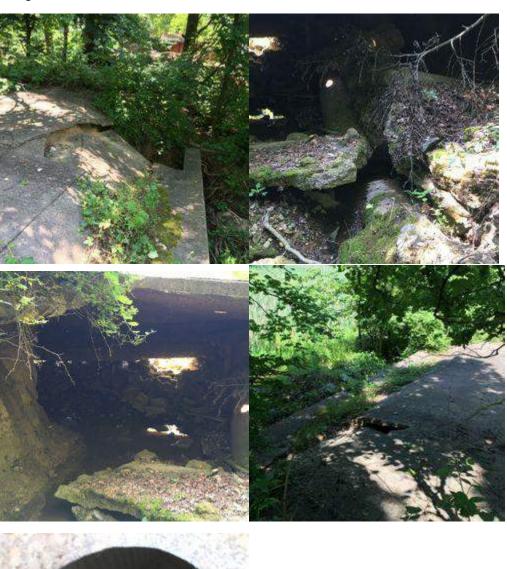


Upstream Embankment:





Failing Control Structure:







Downstream Condition:



West Inflow:





UMCP19BMP0236 / Courtyards Sheet flow to Conservation 1

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	June 6, 2023, 1:02 PM	Inspector Initials:	PP, PW
BMP ID:	UMCP19BMP0236	Inspection Firm:	MES
BMP Type:	Sheet flow to Conservation	Underground BMP?	No
	Areas		
BMP Status	Pass	Overall Inspection	BMP in good condition.
Maintenance Level	Routine Maintenance (Only needs Routine Maintenance)	Comment:	Storage container blocking some inflow.

Site Conditions

- BMP Access Good
- **Debris & Sediment** Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- Ponding /Water Depth N/A

Embankment

- Embankment Cover N/A
- Upstream Embankment N/A
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure N/A
- Principal Spillway N/A

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition Good

BMP Status — Pass

<u>Maintenance Level</u> - Routine Maintenance (Only needs Routine Maintenance)

Date of Inspection: June 6, 2023, 1:02 PM



Maintenance & Remediation Recommendations

Move storage container.

Photos showing the storage container blocking the inflow





UMCP19BMP0237 / Courtyards Sheet flow to Conservation 2

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	June 6, 2023, 1:15 PM	Inspector Initials:	PP, PW
BMP ID:	UMCP19BMP0237	Inspection Firm:	MES
BMP Type:	Sheet flow to Conservation	Underground BMP?	No
	Areas		
BMP Status	Pass	Overall Inspection	Minor erosion in middle,
Maintenance Level	Minor Maintenance (Use of	Comment:	downstream portion
	Hand Equipment for Repairs)		

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Fair
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition N/A
- Forebay N/A

Treatment Area

- Conveyance Stability Fair
- Ponding /Water Depth N/A

Embankment

- Embankment Cover N/A
- Upstream Embankment N/A
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure N/A
- Principal Spillway N/A

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition Good

BMP Status - Pass

Maintenance Level - Minor Maintenance (Use of Hand Equipment for Repairs)



Maintenance & Remediation Recommendations

Regrade/reseed/address minor erosion.

Overall Photos









UMCP19BMP0243 / Brendan Iribe 3

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 16, 2022	Inspector Initials:	MMC
	10:29 AM		
BMP ID:	UMCP19BMP0243	Inspection Firm:	UMD
BMP Type:	Bio-Swale	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Facility now working
Maintenance Level	No Maintenance Needed	Comment:	as designed post- maintenance

Date of Inspection: September 16, 2022 10:29

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Good
- Forebay Not Rated

Treatment Area

- Conveyance Stability Good
- Ponding Good/Water Depth 0

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice Not Rated
- Outlet / Control Structure Good
- Principal Spillway Not Rated

Outfall and Downstream Condition

- Spillway Outfall Not Rated
- Downstream Condition -

BMP Status - Pass

Maintenance Level - No Maintenance Needed

Maintenance & Remediation Recommendations



Monitor new planting and add as needed

Additional Photos

Date of Inspection: September 16, 2022 10:29



UMCP20BMP0257 / UMCP Student Housing Building B

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 16, 2022 10:48 AM	Inspector Initials:	MMC
BMP ID:	UMCP20BMP0257	Inspection Firm:	UMD
BMP Type:	Underground Filter	Underground BMP?	Yes
BMP Status	Pass	Overall Inspection	Parging performed
Maintenance Level	Routine Maintenance (Only needs Routine Maintenance)	Comment:	during 2019 repair of facility. Pipe no longer allows flows to bypass chambers

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments: good

Inflow and Forebay

- Inflow Condition Good
- Forebay Good

Treatment Area

- Conveyance Stability Good
- Ponding /Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- Principal Spillway -

Outfall and Downstream Condition

- · Spillway Outfall -
- Downstream Condition Good

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)



Maintenance & Remediation Recommendations

Additional Photos



UMCP20BMP0264 / New Training Facility for MFRI

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 22, 2023 11:03 AM	Inspector Initials:	MMC
BMP ID:	UMCP20BMP0264	Inspection Firm:	UMD
BMP Type:	Bioretention	Underground BMP?	No
BMP Status	Fail	Overall Inspection	
Maintenance Level	No Maintenance Needed	Comment:	

Site Conditions

- BMP Access Fair
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- **General Site Conditions Comments:** Wetland restrictions don't allow for complete clearing, but flow path of water is unobstructed

Inflow and Forebay

- Inflow Condition Good
- Forebay Good

Treatment Area

- Conveyance Stability Good
- · Ponding /Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- · Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition Good

BMP Status - Pass

Maintenance Level - No Maintenance Needed

Maintenance & Remediation Recommendations



Additional Photos







UMCP21BMP0292 / Cole Field House Green Roof 1

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 26, 2023 3:24 PM	Inspector Initials:	MMC
BMP ID:	UMCP21BMP0292	Inspection Firm:	UMD
BMP Type:	Green Roof - Extensive	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Good plant coverage
Maintenance Level	Routine Maintenance (Only needs Routine Maintenance)	Comment:	with only minor weed presence

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- **General Site Conditions Comments:** Good overall turf coverage, with a few small areas of clover here and there along edges

Inflow and Forebay

- Inflow Condition N/A
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- · Ponding /Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)



Maintenance & Remediation Recommendations

Additional Photos





UMCP21BMP0293 / Cole Field House Green Roof 2

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 26, 2023 3:22 PM	Inspector Initials:	MMC
BMP ID:	UMCP21BMP0293	Inspection Firm:	UMD
BMP Type:	Green Roof - Extensive	Underground BMP?	No
BMP Status	Pass	Overall Inspection	
Maintenance Level	No Maintenance Needed	Comment:	

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- **General Site Conditions Comments:** Vegetation is filling in well. Healthy plant coverage with low weed pressure

Inflow and Forebay

- Inflow Condition N/A
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- · Ponding /Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- · Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - No Maintenance Needed

Maintenance & Remediation Recommendations



Additional Photos





UMCP21BMP0294 / Cole Field House Green Roof 3

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 26, 2023 3:17 PM	Inspector Initials:	MMC
BMP ID:	UMCP21BMP0294	Inspection Firm:	UMD
BMP Type:	Green Roof - Extensive	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Heavy weed pressure
Maintenance Level	Minor Maintenance (Use of Hand Equipment for Repairs)	Comment:	

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Fair
- BMP Contamination Good
- **General Site Conditions Comments:** Plant material is filling in, but large unplanted areas are filling in with unwanted grasses and weeds

Inflow and Forebay

- Inflow Condition N/A
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- · Ponding /Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- · Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - Minor Maintenance (Use of Hand Equipment for Repairs)



Maintenance & Remediation Recommendations

Continue pulling by hand all undesirable plant material

Additional Photos





UMCP21BMP0295 / Cole Field House Green Roof 4

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	September 26, 2023 11:02 AM	Inspector Initials:	MMC
BMP ID:	UMCP21BMP0295	Inspection Firm:	UMD
BMP Type:	Green Roof - Extensive	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Heavy weed pressure
Maintenance Level	Routine Maintenance (Only needs Routine Maintenance)	Comment:	from grasses

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Fair
- BMP Contamination Good
- General Site Conditions Comments: Weedy grasses are filling in bare spaces due to oversized plant spacing

Inflow and Forebay

- Inflow Condition N/A
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- · Ponding /Water Depth -

Embankment

- Embankment Cover -
- Upstream Embankment -
- Downstream Embankment -

Outlet/Control Structure

- Low Flow Orifice -
- Outlet / Control Structure -
- Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)



Maintenance & Remediation Recommendations

Continue weeding on each maintenance visit

Additional Photos



UMCP22BMP0301 / Idea Factory Micro-Bioretention 4

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	June 6, 2023 10:22 AM	Inspector Initials:	PP, PW
BMP ID:	UMCP22BMP0301	Inspection Firm:	MES
BMP Type:	Micro-Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	BMP in good condition.
Maintenance Level	Routine Maintenance (Only	Comment:	
	needs Routine Maintenance)		

Site Conditions

- BMP Access Good
- **Debris & Sediment** Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- Ponding Good/Water Depth 0

Embankment

- Embankment Cover Good
- Upstream Embankment Good
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice Good
- Outlet / Control Structure Good
- Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)



Maintenance & Remediation Recommendations

Continue with routine maintenance.

Additional Photos

Overall Photos:







Principle Spillway:



Control Structure:











Observation well:



UMCP22BMP0302 / Idea Factory Micro-Bioretention 2

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	June 6, 2023 10:42 AM	Inspector Initials:	PP,PW
BMP ID:	UMCP22BMP0302	Inspection Firm:	MES
BMP Type:	Micro-Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	BMP in good condition
Maintenance Level	Routine Maintenance (Only needs Routine Maintenance)	Comment:	overall. Some filter media present in riprap at rooftop drain inflow.

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Fair
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- Ponding /Water Depth 0

Embankment

- Embankment Cover N/A
- Upstream Embankment Good
- Downstream Embankment Good

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure Good
- Principal Spillway N/A

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)

UMCP22BMP0302 / Idea Factory Micro-Bioretention 2



Maintenance & Remediation Recommendations

Investigate filter media at inflow, regrade if necessary.

Additional Photos

Overall Photos:





Wes Moore GOVERNOR
Aruna Miller LT. GOVERNOR
Charles Glass, Ph.D., P.E. EXECUTIVE DIRECTOR



Observation Well:

Wes Moore GOVERNOR

Aruna Miller LT. GOVERNOR

Charles Glass, Ph.D., P.E. EXECUTIVE DIRECTOR



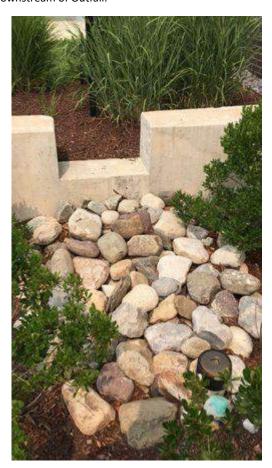
Inflow:







Downstream of Outfall:





Upstream of Outfall:



Wes Moore GOVERNOR

Aruna Miller LT. GOVERNOR

Charles Glass, Ph.D., P.E. EXECUTIVE DIRECTOR

UMCP22BMP0303 / Idea Factory Micro-Bioretention 1

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	June 6, 2023 10:54 AM	Inspector Initials:	PP, MES
BMP ID:	UMCP22BMP0303	Inspection Firm:	MES
BMP Type:	Micro-Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Moderate sedimentation
Maintenance Level	Major Maintenance (Use of Heavy Machinery for Repairs)	Comment:	occurring around inflow, could be filter media or roof media. Moderate conveyance instability from inflow halfway through bmp.

Site Conditions

- BMP Access Good
- Debris & Sediment Fair
- Vegetation Good
- BMP Contamination Fair
- General Site Conditions Comments: Heavy sedimentation around Inflow.

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability Fair
- Ponding Good/Water Depth 0

Embankment

- Embankment Cover N/A
- Upstream Embankment Good
- Downstream Embankment Good

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure Good
- Principal Spillway N/A

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition N/A

BMP Status - Pass

<u>Maintenance Level</u> - Major Maintenance (Use of Heavy Machinery for Repairs)

Maintenance & Remediation Recommendations

Monitor for additional erosion. Identify source of contamination.

Additional Photos

Overall Photos:









Inflow:



Sedimentation at inflow:





Sedimentation around inflow:





Observation well:



UMCP22BMP0304 / Idea Factory Micro-Bioretention 3

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	June 6, 2023 10:34 AM	Inspector Initials:	PP, PW
BMP ID:	UMCP22BMP0304	Inspection Firm:	MES
BMP Type:	Micro-Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Bmp in good condition
Maintenance Level	Routine Maintenance (Only needs Routine Maintenance)	Comment:	overall, minor bare patch next to inflow.

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- **Vegetation** Good
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- Ponding Good/Water Depth 0

Embankment

- Embankment Cover N/A
- Upstream Embankment Good
- Downstream Embankment Good

Outlet/Control Structure

- Low Flow Orifice Good
- Outlet / Control Structure Good
- Principal Spillway Good

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)

UMCP22BMP0304 / Idea Factory Micro-Bioretention 3



Maintenance & Remediation Recommendations

Routine maintenance, re-mulch minor bare spot next to inflow.

Additional Photos

Overall Photos:







Principle Spillway:





Observation well:





Inflow:

Bare patch next to inflow:





Inflow Overall:



UMCP22BMP0306 / Johnson-Whittle Hall Micro-Bioretention 7A

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 31, 2023 10:28 AM	Inspector Initials:	BFB/TPR
BMP ID:	UMCP22BMP0306	Inspection Firm:	MES
BMP Type:	Micro-Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Fair condition, inflow pipe
Maintenance Level	Major Maintenance (Use of Heavy Machinery for Repairs)	Comment:	damage and standing water not draining.

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Fair
- Forebay N/A

Treatment Area

- Conveyance Stability Fair
- Ponding Fair/Water Depth -

Embankment

- Embankment Cover Good
- Upstream Embankment Good
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure Good
- Principal Spillway Good

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - Minor Maintenance (Use of Hand Equipment for Repairs)

Date of Inspection: May 31, 2023 10:28 AM





Aruna Miller LT. GOVERNOR

Charles Glass, Ph.D., P.E. EXECUTIVE DIRECTOR

<u>Maintenance & Remediation Recommendations</u>- Fix broken inflow pipe. Investigate and remediate ponding.

Additional Photos

Overall Photo:





Embankment:





Principle Spillway:





Broken Inflow:



Pooling water at inflow:



UMCP22BMP0307 / Johnson-Whittle Hall Micro-Bioretention 6A

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 31, 2023 10:49 AM	Inspector Initials:	BFB/TPR
BMP ID:	UMCP22BMP0307	Inspection Firm:	MES
BMP Type:	Micro-Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Filter fabric needs to be
Maintenance Level	Minor Maintenance (Use of Hand Equipment for Repairs)	Comment:	repaired at control structure. Standing water at inflow.

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments: Some trash, routine maintenance

Inflow and Forebay

- Inflow Condition Fair
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- Ponding Good/Water Depth -

Embankment

- Embankment Cover Good
- Upstream Embankment Good
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure Good
- Principal Spillway Good

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition N/A

BMP Status - Pass

UMCP22BMP0307 / Johnson-Whittle Hall Micro-Bioretention 6A

Date of Inspection: May 31, 2023 10:49 AM



Maintenance Level - Minor Maintenance (Use of Hand Equipment for Repairs)

<u>Maintenance & Remediation Recommendations</u>- Fix filter fabric at control structure, remediate ponding at inflow.

Additional Photos

Overall Photos:





Control Structure:



Inflow:



UMCP22BMP0308 / Johnson-Whittle Hall Micro-Bioretention 5A

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 31, 2023 10:44 AM	Inspector Initials:	TPR/BFB
BMP ID:	UMCP22BMP0308	Inspection Firm:	MES
BMP Type:	Micro-Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	BMP in good condition,
Maintenance Level	Routine Maintenance	Comment:	standing water at inflow

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Good
- Forebay Not Rated

Treatment Area

- Conveyance Stability Not Rated
- Ponding Good/Water Depth -

Embankment

- Embankment Cover Good
- Upstream Embankment Not Rated
- **Downstream Embankment** Not Rated

Outlet/Control Structure

- Low Flow Orifice Not Rated
- Outlet / Control Structure Good
- Principal Spillway -

Outfall and Downstream Condition

- Spillway Outfall -
- Downstream Condition Not Rated

BMP Status - Pass

Maintenance Level - Routine Maintenance

Maintenance & Remediation Recommendations

UMCP22BMP0308 / Johnson-Whittle Hall Micro-Bioretention 5A

Date of Inspection: May 31, 2023 10:44 AM



Additional Photos

Overall Photos:







Control Structure:





Treatment Area:







Inflow:





UMCP22BMP0309 / Johnson-Whittle Hall Micro-Bioretention 5

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 31, 2023 10:44 AM	Inspector Initials:	TPR/BFB
BMP ID:	UMCP22BMP0309	Inspection Firm:	MES
BMP Type:	Micro-Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Facility in good condition.
Maintenance Level	Routine Maintenance (Only	Comment:	
	needs Routine Maintenance)		

Site Conditions

- BMP Access Good
- Debris & Sediment Fair
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Fair
- Forebay N/A

Treatment Area

- Conveyance Stability Not Rated
- Ponding N/A/Water Depth -

Embankment

- Embankment Cover Good
- Upstream Embankment N/A
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure Good
- Principal Spillway Not Rated

Outfall and Downstream Condition

- Spillway Outfall Not Rated
- Downstream Condition Not Rated

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)

Maintenance & Remediation Recommendations - Continue with Routine Maintenance.

UMCP22BMP0309 / Johnson-Whittle Hall Micro-Bioretention 5

Date of Inspection: May 31, 2023 10:44 AM



Additional Photos







Inflow:







Principal Spillway:



Embankment:



UMCP22BMP0310 / Johnson-Whittle Hall Micro-Bioretention 6

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 31, 2023 10:52 AM	Inspector Initials:	TPR/BFB
BMP ID:	UMCP22BMP0310	Inspection Firm:	MES
BMP Type:	Micro-Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Minor standing water in
Maintenance Level	Major Maintenance (Use of	Comment:	treatment area
	Heavy Machinary for Repairs)		

Site Conditions

- BMP Access Good
- **Debris & Sediment** Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Fair
- Forebay N/A

Treatment Area

- Conveyance Stability Fair
- Ponding Fair/Water Depth 0.2

Embankment

- Embankment Cover Good
- Upstream Embankment Good
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure Good
- Principal Spillway Good

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - Major Maintenance (Use of Heavy Machinary for Repairs)

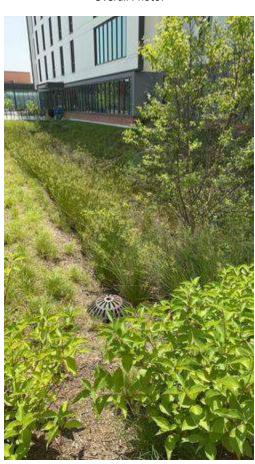
Date of Inspection: May 31, 2023 10:52 AM

Maintenance & Remediation Recommendations

Flush sub drain, replace mulch in wet areas

Additional Photos

Overall Photo:





Embankment:





Principle Spillway:



Treatment Area:





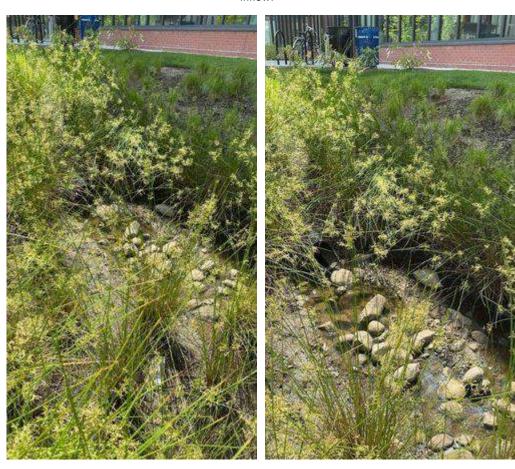


Treatment Area:





Inflow:



UMCP22BMP0311 / Johnson-Whittle Hall Micro-Bioretention 8

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 31, 2023 10:07 AM	Inspector Initials:	TPR/BFB
BMP ID:	UMCP22BMP0311	Inspection Firm:	MES
BMP Type:	Micro-Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Facility in good condition.
Maintenance Level	Routine Maintenance (Only needs Routine Maintenance)	Comment:	Minor sedimentation and trash in treatment area.

Site Conditions

- BMP Access Poor
- Debris & Sediment Fair
- Vegetation Good
- BMP Contamination Fair
- General Site Conditions Comments: Trash in treatment area

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- Ponding Good/Water Depth -

Embankment

- Embankment Cover Good
- Upstream Embankment Not Rated
- Downstream Embankment Not Rated

Outlet/Control Structure

- Low Flow Orifice Not Rated
- Outlet / Control Structure Good
- Principal Spillway Not Rated

Outfall and Downstream Condition

- Spillway Outfall Not Rated
- Downstream Condition Not Rated

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)

Date of Inspection: May 31, 2023 10:07 AM



<u>Maintenance & Remediation Recommendations</u> - Continue with Routine Maintenance.

Additional Photos

Overall Photos:







Principle Spillway:



Treatment Area:





Sediment in Treatment Area:







Inflow:



UMCP22BMP0312 / Johnson-Whittle Hall Micro-Bioretention 8A

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 31, 2023 9:49 AM	Inspector Initials:	TPR/BFB
BMP ID:	UMCP22BMP0312	Inspection Firm:	MES
BMP Type:	Micro-Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Good overall condition
Maintenance Level	Minor Maintenance (Use of Hand Equipment for Repairs)	Comment:	except for minor standing water at inflows

Site Conditions

- BMP Access Fair
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments: Some trash

Inflow and Forebay

- Inflow Condition Fair
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- Ponding Good/Water Depth -

Embankment

- Embankment Cover Good
- Upstream Embankment Good
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure Good
- Principal Spillway Good

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - Minor Maintenance (Use of Hand Equipment for Repairs)



Maintenance & Remediation Recommendations - Flush sub drain

Additional Photos

Overall Photo:









Principle Spillway:





Inflow:



UMCP22BMP0313 / Pyon-Chen Hall Micro-Bioretention 9

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 31, 2023 12:20 PM	Inspector Initials:	BFB/TPR
BMP ID:	UMCP22BMP0313	Inspection Firm:	MES
BMP Type:	Micro-Bioretention	Underground BMP?	Yes
BMP Status	Pass	Overall Inspection	Bmp in good condition
Maintenance Level	Routine Maintenance (Only	Comment:	overall.
	needs Routine Maintenance)		

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Fair
- BMP Contamination Good
- General Site Conditions Comments: Vegetation is sparse

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- Ponding Good/Water Depth -

Embankment

- Embankment Cover Fair
- Upstream Embankment Good
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure Good
- Principal Spillway Good

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)

<u>Maintenance & Remediation Recommendations</u> – Continue with routine maintenance.

UMCP22BMP0313 / Pyon-Chen Hall Micro-Bioretention 9
Date of Inspection: May 31, 2023 12:20 PM



Additional Photos

Overall Photos:





Principal Spillway:





Inflow:





UMCP22BMP0314 / Pyon-Chen Hall Micro-Bioretention 3A

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 31, 2023 11:24 AM	Inspector Initials:	BFB/TPR
BMP ID:	UMCP22BMP0314	Inspection Firm:	MES
BMP Type:	Micro-Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Overgrown vegetation
Maintenance Level	Routine Maintenance (Only needs Routine Maintenance)	Comment:	

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments: Excessive vegation needs trimming

Inflow and Forebay

- Inflow Condition Good
- Forebay Not Rated

Treatment Area

- Conveyance Stability Good
- Ponding Good/Water Depth -

Embankment

- Embankment Cover Good
- Upstream Embankment Not Rated
- Downstream Embankment Not Rated

Outlet/Control Structure

- Low Flow Orifice Not Rated
- Outlet / Control Structure Good
- Principal Spillway Good

Outfall and Downstream Condition

- Spillway Outfall Not Rated
- Downstream Condition Not Rated

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)

Maintenance & Remediation Recommendations

Trim overgrown vegetation



Additional Photos

Overall Photos







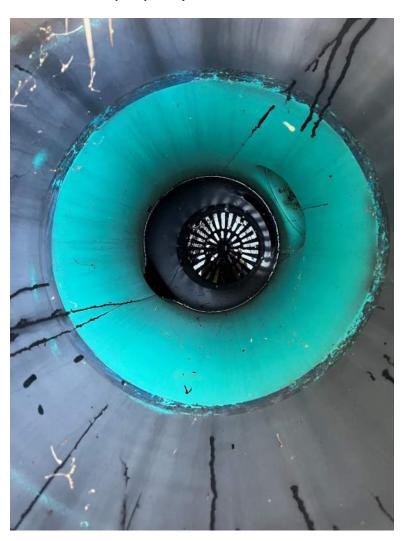


Embankment





Principal Spillway



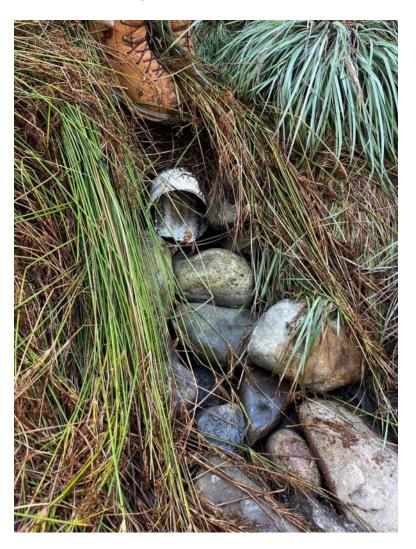


Control Structure





Inflow





Inflow Condition



Date of Inspection: May 31, 2023 11:14 AM



UMCP22BMP0315 / Pyon-Chen Hall Micro-Bioretention 3

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 31, 2023 11:14 AM	Inspector Initials:	TPR/BFB
BMP ID:	UMCP22BMP0315	Inspection Firm:	MES
BMP Type:	Micro-Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Overgrown vegetation
Maintenance Level	Routine Maintenance (Only	Comment:	
	needs Routine Maintenance)		

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Good
- Forebay Not Rated

Treatment Area

- Conveyance Stability Good
- Ponding Good/Water Depth -

Embankment

- Embankment Cover Good
- Upstream Embankment Not Rated
- Downstream Embankment Not Rated

Outlet/Control Structure

- Low Flow Orifice Not Rated
- Outlet / Control Structure Good
- Principal Spillway Good

Outfall and Downstream Condition

- Spillway Outfall Not Rated
- Downstream Condition Not Rated

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)

Maintenance & Remediation Recommendations

Trim overgrown vegetation



Additional Photos

Overall Photos



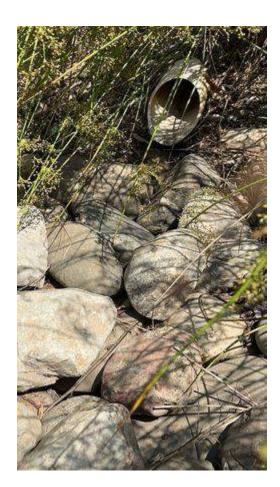






Inflow







Overgrown Vegetation





Clean out





Principal Spillway





Control Structure



UMCP22BMP0316 / Pyon-Chen Hall Micro-Bioretention 4

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 31, 2023 12:15 PM	Inspector Initials:	BFB/TPR
BMP ID:	UMCP22BMP0316	Inspection Firm:	MES
BMP Type:	Micro-Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Bmp in good condition.
Maintenance Level	Routine Maintenance (Only	Comment:	
	needs Routine Maintenance)		

Site Conditions

- BMP Access Good
- **Debris & Sediment** Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- Ponding Good/Water Depth -

Embankment

- Embankment Cover Good
- Upstream Embankment Good
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure Good
- Principal Spillway Good

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)

Maintenance & Remediation Recommendations: Continue with routine maintenance.

UMCP22BMP0316 / Pyon-Chen Hall Micro-Bioretention 4



Additional Photos

Overall Photo:







Inflow:





Principle Spillway:



Date of Inspection: May 31, 2023 11:12 AM



UMCP22BMP0317 / Pyon-Chen Hall Micro-Bioretention 2

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 31, 2023 11:12 AM	Inspector Initials:	BFB/TRP
BMP ID:	UMCP22BMP0317	Inspection Firm:	MES
BMP Type:	Micro-Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Overgrown vegetation
Maintenance Level	Routine Maintenance (Only needs Routine Maintenance)	Comment:	

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Good
- Forebay Not Rated

Treatment Area

- Conveyance Stability Good
- Ponding Good/Water Depth -

Embankment

- Embankment Cover Good
- Upstream Embankment Not Rated
- Downstream Embankment Not Rated

Outlet/Control Structure

- Low Flow Orifice Not Rated
- Outlet / Control Structure Good
- Principal Spillway Good

Outfall and Downstream Condition

- Spillway Outfall Not Rated
- Downstream Condition Not Rated

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)

Maintenance & Remediation Recommendations

Trim excessive vegetation



Additional Photos

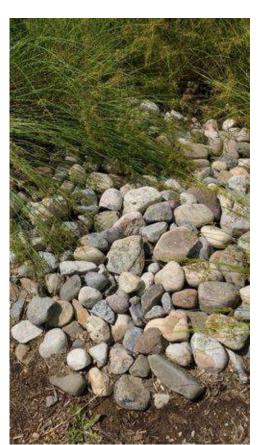
Overall Photos







Inflow







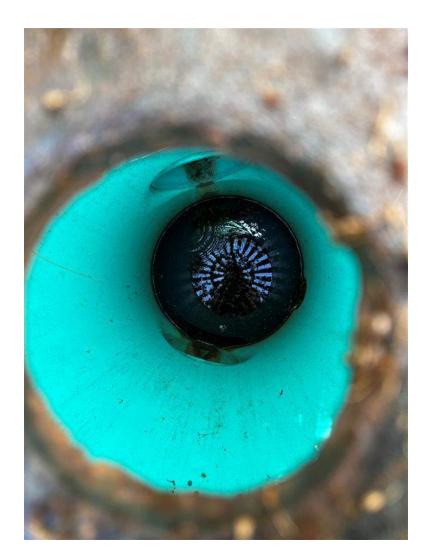


Vegetation





Principal Spillway





Control Structure



UMCP22BMP0318 / Pyon-Chen Hall Micro-Bioretention 1

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 31, 2023 11:00 AM	Inspector Initials:	BFB/TRP
BMP ID:	UMCP22BMP0318	Inspection Firm:	MES
BMP Type:	Micro-Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Bmp in good condition
Maintenance Level	Routine Maintenance (Only	Comment:	overall.
	needs Routine Maintenance)		

Site Conditions

- BMP Access Good
- **Debris & Sediment** Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- Ponding Good/Water Depth -

Embankment

- Embankment Cover Good
- Upstream Embankment Good
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure Good
- Principal Spillway Good

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)

Maintenance & Remediation Recommendations - Continue with routine maintenance.

UMCP22BMP0318 / Pyon-Chen Hall Micro-Bioretention 1



Additional Photos

Overall Photos:





Inflow:





Control Structure:



Principal Spillway:



UMCP22BMP0319 / Pyon-Chen Hall Non-Rooftop Disconnect 1

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 31, 2023 12:29 PM	Inspector Initials:	BFB/TPR
BMP ID:	UMCP22BMP0319	Inspection Firm:	MES
ВМР Туре:	Disconnection of Non-Rooftop Runoff	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Flow appears to have
Maintenance Level	Minor Maintenance (Use of Hand Equipment for Repairs)	Comment:	channelized at the low point, minor erosion concerns.

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Fair
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability Fair
- Ponding /Water Depth -

Embankment

- Embankment Cover N/A
- Upstream Embankment N/A
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure N/A
- Principal Spillway N/A

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition N/A

BMP Status - Pass



Maintenance Level – Minor Maintenance (Use of Hand Equipment for Repairs)

<u>Maintenance & Remediation Recommendations</u> – Reseed areas of erosion/bare spots as needed

Additional Photos

Overall Photos:







Bare Spots/Erosion:





UMCP22BMP0320 / Johnson-Whittle Hall Micro-Bioretention 7

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	May 31, 2023 10:36 AM	Inspector Initials:	BFB/TPR
BMP ID:	UMCP22BMP0320	Inspection Firm:	MES
BMP Type:	Micro-Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Bmp in good condition.
Maintenance Level	Routine Maintenance (Only	Comment:	
	needs Routine Maintenance)		

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- Ponding Good/Water Depth -

Embankment

- Embankment Cover Good
- Upstream Embankment Good
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure Good
- Principal Spillway Good

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)

Maintenance & Remediation Recommendations – Continue with Routine Maintenance.

UMCP22BMP0320 / Johnson-Whittle Hall Micro-Bioretention 7





Charles Glass, Ph.D., P.E. EXECUTIVE DIRECTOR

Additional Photos

Overall Photo:



Maryland ENVIRONMENTAL SERVICE





Principal Spillway:



Inflow:



UMCP22BMP0321 / Thurgood Marshall School of Public Policy Micro-Bioretention 1

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	June 2, 2023 9:16 AM	Inspector Initials:	SAL,PP
BMP ID:	UMCP22BMP0321	Inspection Firm:	MES
BMP Type:	Micro-Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	BMP in good condition
Maintenance Level	Routine Maintenance (Only needs Routine Maintenance)	Comment:	

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- Ponding Good/Water Depth 0

Embankment

- Embankment Cover Good
- Upstream Embankment Good
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure Good
- Principal Spillway Good

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition Good

BMP Status - Pass

Maintenance Level - Routine Maintenance (Only needs Routine Maintenance)

Maintenance & Remediation Recommendations - Continue routine maintenance

UMCP22BMP0321 / Thurgood Marshall School of Public Policy Micro-Bioretention 1
Date of Inspection: June 2, 2023 9:16 AM



Additional Photos

Wes Moore GOVERNOR Aruna Miller LT. GOVERNOR Charles Glass, Ph.D., P.E. EXECUTIVE DIRECTOR

Overall Photos:





Control Structure:







Embankment:

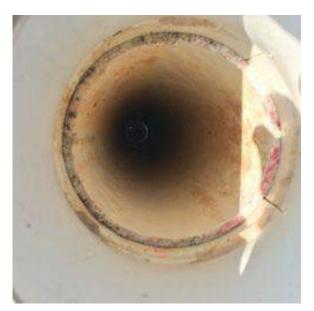




Principle Spillway:



Observation well:





Wes Moore GOVERNOR

Aruna Miller LT. GOVERNOR

Charles Glass, Ph.D., P.E. EXECUTIVE DIRECTOR

UMCP22BMP0322 / Thurgood Marshall School of Public Policy Micro-Bioretention 3

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	June 2, 2023 9:22 AM	Inspector Initials:	SAL,PP
BMP ID:	UMCP22BMP0322	Inspection Firm:	MES
BMP Type:	Micro-Bioretention	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Minor erosion at inflow,
Maintenance Level	Minor Maintenance (Use of Hand Equipment for Repairs)	Comment:	excessive storage capacity from elevated control structure (5" above design)

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination -
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Fair
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- Ponding Good/Water Depth 0

Embankment

- Embankment Cover Good
- Upstream Embankment Good
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure Good
- Principal Spillway Good

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition N/A

BMP Status - Pass

<u>Maintenance Level</u> - Minor Maintenance (Use of Hand Equipment for Repairs)

UMCP22BMP0307 / Johnson-Whittle Hall Micro-Bioretention 6A

Date of Inspection: May 31, 2023 10:49 AM



Maintenance & Remediation Recommendations

Regrade erosion at inflow, regrade or modify control structure to meet storage capacity as designed on plans.

Additional Photos

Overall Photos:





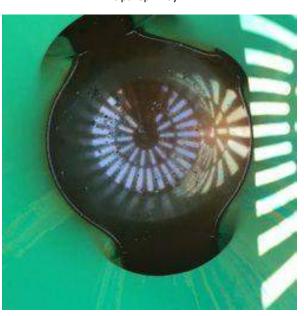
Control Structure:



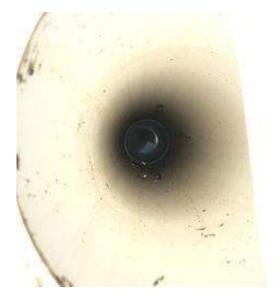




Principal Spillway:



Observation well:



Inflow:





UMCP22BMP0323 / Thurgood Marshall School of Public Policy Micro-Bioretention 2

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	June 2, 2023 1:11 PM	Inspector Initials:	SAL,PP
BMP ID:	UMCP22BMP0323	Inspection Firm:	MES
BMP Type:	Micro-Bioretention	Underground BMP?	No
BMP Status	Fail	Overall Inspection	Dry weather discharge from
Maintenance Level	Major Maintenance (Use of Heavy Machinary for Repairs)	Comment:	building resulting in ponding within BMP and growth of aquatic vegetation, plantings becoming displaced due to water level

Site Conditions

- BMP Access Good
- Debris & Sediment -
- Vegetation Poor
- BMP Contamination Good
- General Site Conditions Comments: Constant standing water has resulting in plants become displaced from soil

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- Ponding Poor/Water Depth 0.5

Embankment

- Embankment Cover Good
- Upstream Embankment Good
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure Good
- Principal Spillway Good

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition N/A



BMP Status - Fail

<u>Maintenance Level</u> - Major Maintenance (Use of Heavy Machinary for Repairs)

Maintenance & Remediation Recommendations

Replant and secure plantings within basin, remediate dry weather flow to ensure success of the facility

Additional Photos

Overall Photos:





Control Structure:



Principal Spillway:





Upstream Manhole:





Embankment:







Inflow:



Observation Well:







UMCP22BMP0324 / Thurgood Marshall School of Public Policy Non-Rooftop Disconnect 1

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	June 2, 2023 8:59 AM	Inspector Initials:	SAL,PP
BMP ID:	UMCP22BMP0324	Inspection Firm:	MES
ВМР Туре:	Disconnection of Non-Rooftop Runoff	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Minor erosion/bare spots
Maintenance Level	Minor Maintenance (Use of Hand Equipment for Repairs)	Comment:	at downstream

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Good
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- Ponding /Water Depth -

Embankment

- Embankment Cover N/A
- Upstream Embankment N/A
- Downstream Embankment N/A

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure N/A
- Principal Spillway N/A

Outfall and Downstream Condition

- Spillway Outfall N/A
- Downstream Condition N/A

BMP Status - Pass

Maintenance Level - Minor Maintenance (Use of Hand Equipment for Repairs)



<u>Maintenance & Remediation Recommendations</u> - Reseed areas of erosion/bare spots as needed

Additional Photos

Overall Photos:















Inflow:







Wes Moore GOVERNOR

Aruna Miller LT. GOVERNOR

Charles Glass, Ph.D., P.E. EXECUTIVE DIRECTOR

Sedimentation in Treatment area:





UMCP23BMP0325 / 11-SF-0139 / Heavy Equipment Dry Well

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	Feb 16, 2023	Inspector Initials	JBC, SAL
BMP ID	UMCP23BMP0325	Inspection Firm	MES
ВМР Туре:	Dry Wells	Underground BMP?	Yes
BMP Status:	Fail		Unable to access downstream cleanout due to trash storage, Ponding within facility
Maintenance Level:	Major Maintenance (Use of Heavy Machinery for Repairs)		

Overall Photo





Site Conditions

- BMP Access Fair
- Access Comment: Bulk Debris Blocking Part of Structure
- Debris & Sediment Fair
- Vegetation Good
- BMP Contamination Good
- General Site Conditions Comments: Debris blocking part of structure
- Inflow Condition Fair
- Forebay Good
- Conveyance Stability Good
- **Downstream Condition** Not Rated
- Downstream Condition Comments: Unable to access Downstream Condition

Ponding, Outlet/Control Structure, Outfall

- Ponding Poor / Water Depth 1
- Treatment Area Comments: Ponding within facility reducing overall storage
- Low Flow Orifice Not rated
- Outlet / Control Structure Not rated
- Control Structure Comments: Unable to access control structure
- Principal Spillway Not rated
- Spillway Outfall Not rated

BMP Status – Fail

Maintenance Level – Major Maintenance (Use of Heavy Machinery for Repairs)

Maintenance & Remediation Recommendations

Mitigate ponding, replace damaged cleanout, remove trash above downstream cleanout



Additional Photos





Pretreatment interior





Cleanout – Replace top



Pretreatment exterior

Wes Moore GOVERNOR

Aruna Miller LT. GOVERNOR

Charles Glass, Ph.D., P.E. EXECUTIVE DIRECTOR

USG19BMP00007 / IBBR Pond

Stormwater Management Facility BMP Inspection

Inspection Data

Date of Inspection:	June 16, 2023 9:52 AM	Inspector Initials:	SAL,SGC,JBD
BMP ID:	USG19BMP00007	Inspection Firm:	MES
BMP Type:	Retention Pond (Wet Pond)	Underground BMP?	No
BMP Status	Pass	Overall Inspection	Minor erosion at inflow
Maintenance Level	Minor Maintenance (Use of Hand Equipment for Repairs)	Comment:	from roof, minor erosion at embankment toe, minor erosion at control structure and downstream, control structure causing ponding issue

Site Conditions

- BMP Access Good
- Debris & Sediment Good
- **Vegetation** Good
- BMP Contamination Good
- General Site Conditions Comments:

Inflow and Forebay

- Inflow Condition Fair
- Forebay N/A

Treatment Area

- Conveyance Stability Good
- Ponding Fair/Water Depth 0.5

Embankment

- Embankment Cover Good
- Upstream Embankment Good
- **Downstream Embankment** Good

Outlet/Control Structure

- Low Flow Orifice N/A
- Outlet / Control Structure Fair
- Principal Spillway Good

Outfall and Downstream Condition

- Spillway Outfall Good
- Downstream Condition Fair

Wes Moore GOVERNOR

Aruna Miller LT. GOVERNOR

Charles Glass, Ph.D., P.E. EXECUTIVE DIRECTOR

BMP Status - Pass

<u>Maintenance Level</u> - Minor Maintenance (Use of Hand Equipment for Repairs)

Maintenance & Remediation Recommendations

Regrade control structure and downstream to reduce ponding, monitor erosion at inflow from roof, repair erosion around toe

Additional Photos



ATTACHMENT B BASELINE ASSESSMENT REPORT

Summary

MES reported UMCP is responsible for 465.92 acres of impervious under their MS4 permit, with 461.40 acres located at their main campus and 4.52 acres located at the Universities at Shady Grove (USG). Utilizing the findings provided by Whitney, Bailey, Cox & Magnani, LLP (WBCM) in Year 1, MES's findings over the course of the permit term thus far, and data provided by USG, MES has determined that UMCP has 62 facilities providing 56.25 acres of treatment toward their baseline. This brings UMCP's baseline to 409.67 acres and the 20% restoration goal to 81.93 acres. Additionally, MES determined UMCP has 40 facilities classified as post 2006 restoration or redevelopment providing 11.45 acres of restoration credit. UMCP also has twelve alternative practices, including a large stream restoration project, providing another 108.97 acres of restoration credit. UMCP's restoration credit totals to 120.42 acres, surpassing their 20% restoration requirement. MDE also recommends that UMCP plan to restore 10% of the current baseline area by 2030, which would be met by future projects already planned.

Methodology

BMP status, type, construction purpose, built date, and inches of runoff treated (Pe) were concurrently used to determine if a BMP is providing treatment and if that treatment should be applied to the baseline or restoration goal. Only facilities in passing condition received treatment credit. Dry facilities do not provide water quality treatment, only quantity control. Therefore, these facilities do not qualify for credit under MDE guidelines and the impervious area draining to these facilities is included in the untreated impervious area total. Additionally, UMCP only considered MDE permitted BMPs on their campus as being eligible for treatment credit. To qualify for treatment credit non-permitted facilities would require additional review, documentation and official approval from MDE's Plan Review Division.

When determining the credit for each eligible facility, if the BMP is classified as new development, the provided treatment was applied to the baseline. New development BMPs can be credited for treatment up to 1" and do not receive credit for additional treatment that may be provided. This same methodology was applied to redevelopment and restoration BMPs built prior to 2006. Redevelopment projects completed after the beginning of 2006 were included in UMCP's restoration credit if additional treatment was provided beyond any new development requirements, which is discussed later in this report. Additionally, restoration projects completed after the beginning of 2006 were included in UMCP's restoration goal.

Baseline Assessment

Utilizing the findings and methods described above, MES determined UMCP has 58 functioning facilities which should be counted in UMCP's baseline as treating 53.91 acres out of 461.40 acres of impervious. A summary of these 58 functioning BMPs is provided in Table 1.

Table 1. Summary of UMCP BMPs for Baseline Treatment

BMP ID	BMP Name	Purpose	Status	Impervious Area (ac.)	Pe	Baseline Credit (ac.)
UMCP19BMP0005	Peace and Friendship Garden Sand Filter	Redevelopment	Pass	10.33	1	8.33
UMCP19BMP0011	CSPAC retention pond	New Development	Pass	9.94	0.8	7.95
UMCP19BMP0012	Softball complex retention pond	Redevelopment	Pass	6.87	1	6.87
UMCP19BMP0018	BLS Heavy Equipment	New Development	Pass	0.05	1	0.05
UMCP19BMP0019	University House Parking Lot	New Development	Pass	0.29	1	0.29
UMCP19BMP0020	VetMed research pond	New Development	Pass	7.14	1	7.14
UMCP19BMP0024	Terrapin Trail Garage retention pond	New Development	Pass	3.85	1	3.85
UMCP19BMP0033	University House	New Development	Pass	0.14	1	0.14
UMCP19BMP0035	University House	New Development	Pass	0.2	1	0.20
UMCP19BMP0041	University House	New Development	Pass	0.09	1	0.09
UMCP19BMP0042	Wye Oak Building	New Development	Pass	0.27	1	0.27
UMCP19BMP0056	Comcast north retention pond	Redevelopment	Pass	5.96	1	5.96
UMCP19BMP0065	Greenmeade North Grass Channel B	New Development	Pass	0.22	1	0.22
UMCP19BMP0066	Greenmeade North Grass Channel A	New Development	Pass	2.43	1	2.43
UMCP19BMP0107	Taylor stadium bioretention	New Development	Pass	0.42	0.53	0.22
UMCP19BMP0108	Chesapeake Parking Lot East	New Development	Pass	0.56	0.47	0.26
UMCP19BMP0142	Kim Plaza	Redevelopment	Pass	0.1	1	0.10
UMCP19BMP0152	AV Williams (Lot GG)	Redevelopment	Pass	0.37	1.3	0.07
UMCP19BMP0153	AV Williams (Lot GG)	Redevelopment	Pass	0.22	0.8	0.04
UMCP19BMP0154	AV Williams (Lot GG)	Redevelopment	Pass	0.39	1	0.08
UMCP19BMP0155	West of Edward St. John	New Development	Pass	0.05	1	0.05
UMCP19BMP0159	East Side of Edwards St. John	New Development	Pass	0.03	1	0.03
UMCP19BMP0161	Oakland Hall Sand filter	New Development	Pass	0.21	1	0.21
UMCP19BMP0240	Presidents House Disconnect 2-1	New Development	Pass	0.02	1	0.02
UMCP20BMP0256	UMCP Student Housing Building A	Redevelopment	Pass	0.59	0.63	0.37
UMCP20BMP0257	UMCP Student Housing Building B	Redevelopment	Pass	0.72	0.51	0.37
UMCP20BMP0266	University of Maryland Health Center	Redevelopment	Pass	0.12	0.75	0.09
UMCP20BMP0267	College Park Academy Micro-Bioretention 1	New Development	Pass	0.14	1	0.14
UMCP20BMP0268	College Park Academy Micro-Bioretention 2	New Development	Pass	0.27	1	0.27
UMCP20BMP0269	College Park Academy Micro-Bioretention 3	New Development	Pass	0.35	1	0.35
UMCP20BMP0270	College Park Academy Micro-Bioretention 4	New Development	Pass	0.32	1	0.32
UMCP20BMP0271	College Park Academy Micro-Bioretention 5	New Development	Pass	0.42	1	0.42

UMCP20BMP0272	College Park Academy Submerged Gravel Wetland	New Development	Pass	1.97	1	1.97
UMCP20BMP0273	1 NOAA Green Roof 1	New Development	Pass	0.63	1	0.63
UMCP20BMP0275	NOAA Green Roof 2	New Development	Pass	0.03	1	0.33
	Presidents House	·				
UMCP20BMP0282	Disconnect 2-2	New Development	Pass	0.02	1	0.02
UMCP20BMP0285	Presidents House Disconnect 2-5	New Development	Pass	0.02	1	0.02
UMCP20BMP0286	Presidents House Disconnect 2-3	New Development	Pass	0.02	1	0.02
UMCP20BMP0287	Presidents House Disconnect 2-4	New Development	Pass	0.02	1	0.02
UMCP22BMP0301	Idea Factory Micro- Bioretention 4	Redevelopment	Pass	0.12	2.47	0.08
UMCP22BMP0302	Idea Factory Micro- Bioretention 2	Redevelopment	Pass	0.16	1.34	0.11
UMCP22BMP0303	Idea Factory Micro- Bioretention 1	Redevelopment	Pass	0.13	1.83	0.09
UMCP22BMP0304	Idea Factory Micro- Bioretention 3	Redevelopment	Pass	0.06	2.31	0.04
UMCP22BMP0306	Johnson-Whittle Hall Micro- Bioretention 7A	New Development	Pass	0.32	1	0.32
UMCP22BMP0307	Johnson-Whittle Hall Micro- Bioretention 6A	New Development	Pass	0.37	1	0.37
UMCP22BMP0308	Johnson-Whittle Hall Micro- Bioretention 5A	New Development	Pass	0.4	1	0.40
UMCP22BMP0309	Johnson-Whittle Hall Micro- Bioretention 5	New Development	Pass	0.19	1	0.19
UMCP22BMP0310	Johnson-Whittle Hall Micro- Bioretention 6	New Development	Pass	0.43	1	0.43
UMCP22BMP0311	Johnson-Whittle Hall Micro- Bioretention 8	New Development	Pass	0.2	1	0.20
UMCP22BMP0312	Johnson-Whittle Hall Micro- Bioretention 8A	New Development	Pass	0.08	1	0.08
UMCP22BMP0313	Pyon-Chen Hall Micro- Bioretention 9	New Development	Pass	0.13	1	0.13
UMCP22BMP0314	Pyon-Chen Hall Micro- Bioretention 3A	New Development	Pass	0.28	1	0.28
UMCP22BMP0315	Pyon-Chen Hall Micro- Bioretention 3	New Development	Pass	0.13	1	0.13
UMCP22BMP0316	Pyon-Chen Hall Micro- Bioretention 4	New Development	Pass	0.23	1	0.23
UMCP22BMP0317	Pyon-Chen Hall Micro- Bioretention 2	New Development	Pass	0.16	1	0.16
UMCP22BMP0318	Pyon-Chen Hall Micro- Bioretention 1	New Development	Pass	0.18	1	0.18
UMCP22BMP0319	Pyon-Chen Hall Non- Rooftop Disconnect 1	New Development	Pass	0.02	1	0.02
UMCP22BMP0320	Johnson-Whittle Hall Micro- Bioretention 7	New Development	Pass	0.26	1	0.26
					Total =	53.91

Additionally, UMCP is responsible for treatment of the Institute for Bioscience and Biotechnology Research (IBBR) campus located at the Universities at Shady Grove (USG) campus. IBBR accounts for 4.52 acres of UMCP's total impervious covered under their MS4 permit. Table 2 provides a summary of the status, impervious area and treatment credit for each BMP located at IBBR determined by MES under a separate scope of work and included in UMCP's baseline assessment. A breakdown of the combined baseline calculations is provided in Table 3. USG and UMCP share credits for Gudelsky Pond, with 2.18

acres of credit being applied to UMCP's baseline assessment. However, since USG is the owner of the pond, it is not included in UMCP's BMP database.

Table 2. Summary of IBBR BMPs for Baseline Treatment

BMP ID	BMP Name	Purpose	Status	Impervious Area (ac.)	Pe	Baseline Credit (ac.)
USG19BMP00003	Infiltration Trench 1 at IBBR	New Development	Pass	0.14	0.5	0.07
USG19BMP00005	Infiltration Trench 2 at IBBR	New Development	Pass	0.06	1	0.06
USG19BMP00026	Gudelsky Pond	New Development	Pass	4.52	0.5	2.18
USG19BMP00042	IBBR Non-Rooftop Disconnect	New Development	Pass	0.03	1	0.03
					Total =	2.34

With a baseline treatment credit of 53.91 acres for UMCP's main campus, and 2.34 acres of treatment credit for the IBBR campus, UMCP's total untreated impervious results to 409.67 acres. This brings UMCP's 20% restoration goal to 81.93 acres. A breakdown of the baseline calculations is provided in Table 3 below.

Table 3. UMCP Baseline Assessment

Area (ac)		Impervious (ac)		Treated Impervious (ac)				Untreated Impervious (ac)	20% Restoration Goal (ac)
UMCP	IBBR	UMCP	IBBR	UMCP	IBBR	Total	Total		
1293.12	12.18	461.40	4.52	53.91	2.34	409.67	81.93		

Restoration

Treatment provided by redevelopment and restoration BMPs built within or after 2006 are eligible to be claimed for restoration credit. Additionally, unlike new development BMPs, these facilities are eligible to be credited over 1" if additional storage is provided. However, for redevelopment projects an analysis of the existing conditions had to be completed to ensure the project was not subject to new development requirements. If the project was determined to include new development, treatment was credited to meeting this requirement prior to awarding restoration credit.

For the redevelopment projects included within this report, AV Williams was determined to have a net increase in impervious area. As-built plans indicated AV Williams had a net increase of 0.19 acres. Utilizing the ESD requirements and the ESD provided indicated in the as-built plans, MES determined this project provides 0.72 acres of restoration credit. This credit was split among the 3 facilities built for AV Williams, resulting in 0.19 acres of credit toward the baseline and 0.72 acres toward UMCP's restoration goal.

Impervious Treatment credit was also split between the baseline and restoration for the Idea Factory redevelopment project. This project area had 9 existing micro-bioretentions treating 0.32 acres of impervious area that were removed as part of construction. Four new bioretentions were constructed treating 0.47 acres of impervious. Several of these facilities provided over management, resulting in a total treatment credit of 0.57 acres. Since the project did not have a net increase in impervious area, there were no new development requirements. However, since there was existing treatment prior to the

redevelopment project, only 0.25 acres were eligible for restoration credit. The remaining 0.32 acres were included in the baseline treatment.

A total of 40 BMPS were identified as qualifying for restoration credit, which are summarized below in Table 4.

Table 4. Summary UMCP Redevelopment & Restoration BMPs

BMP ID	BMP Name	Purpose	Status	Impervious Area (ac.)	Pe	Restoration Credit (ac.)
UMCP19BMP0016	Shuttle Facility	Redevelopment	Pass	0.11	1	0.11
UMCP19BMP0017	Shuttle Facility	Redevelopment	Pass	0.11	1	0.11
UMCP19BMP0026	Shuttle Facility dry swale	Redevelopment	Pass	2.23	0.77	1.71
UMCP19BMP0040	University House	Restoration	Pass	0.03	1	0.03
UMCP19BMP0049	Computer and Space Sciences	Redevelopment	Pass	0.08	1.2	0.08
UMCP19BMP0055	Heavy Equipment Building bioretention	Redevelopment	Pass	0.09	1.15	0.10
UMCP19BMP0059	Denton dining bioretention	Redevelopment	Pass	0.18	2.28	0.24
UMCP19BMP0070	Denton bioretention	Redevelopment	Pass	0.09	0.76	0.07
UMCP19BMP0078	Physical Sciences	Redevelopment	Pass	0.2	1.2	0.21
UMCP19BMP0082	Knight Hall	Redevelopment	Pass	0.43	0.91	0.39
UMCP19BMP0122	Denton Courtyard bioretention	Redevelopment	Pass	0.1	1.03	0.10
UMCP19BMP0124	Prince Frederick Hall Bioretention Cell 1	Redevelopment	Pass	0.17	0.8	0.14
UMCP19BMP0125	Prince Frederick Hall Bioretention Cell 2	New Development	Pass	0.3	1.36	0.33
UMCP19BMP0152	AV Williams (Lot GG)	Redevelopment	Pass	0.37	1.3	0.27
UMCP19BMP0153	AV Williams (Lot GG)	Redevelopment	Pass	0.22	0.8	0.14
UMCP19BMP0154	AV Williams (Lot GG)	Redevelopment	Pass	0.39	1	0.31
UMCP19BMP0157	West Side of Edward St. John	Redevelopment	Pass	0.06	1	0.06
UMCP19BMP0158	West Side of Edward St. John	Redevelopment	Pass	0.06	1	0.06
UMCP19BMP0231	Clark Hall Bioretention 1	Redevelopment	Pass	0.27	1.96	0.33
UMCP19BMP0232	Clark Hall Bioretention 2	Redevelopment	Pass	0.21	2.6	0.29
UMCP19BMP0239	Presidents house Disconnect 1	Redevelopment	Pass	0.01	1	0.01
UMCP19BMP0241	Brendan Iribe 1	Redevelopment	Pass	0.19	2.6	0.27
UMCP19BMP0242	Brendan Iribe 2	Redevelopment	Pass	0.23	2.5	0.32
UMCP19BMP0243	Brendan Iribe 3	Redevelopment	Pass	0.19	1	0.19
UMCP19BMP0244	Brendan Iribe 4	Redevelopment	Pass	0.12	2	0.15
UMCP19BMP0245	Brendan Iribe 5	Redevelopment	Pass	0.12	1.7	0.14
UMCP20BMP0258	M Square SGW 1	Redevelopment	Pass	2.33	0.8	1.86
UMCP20BMP0259	M Square SGW 2	Redevelopment	Pass	0.88	0.82	0.72
UMCP20BMP0260	M Square MBR1	Redevelopment	Pass	0.48	0.73	0.35
UMCP21BMP0292	Cole Field House Green Roof 1	Redevelopment	Pass	0.32	1	0.32

UMCP21BMP0293	Cole Field House Green Roof 2	Redevelopment	Pass	0.07	1	0.07
UMCP21BMP0294	Cole Field House Green Roof 3	Redevelopment	Pass	0.37	1	0.37
UMCP21BMP0295	Cole Field House Green Roof 4	Redevelopment	Pass	0.86	1	0.86
UMCP22BMP0301	Idea Factory Micro- Bioretention 4	Redevelopment	Pass	0.12	2.47	0.08
UMCP22BMP0302	Idea Factory Micro- Bioretention 2	Redevelopment	Pass	0.16	1.34	0.06
UMCP22BMP0303	Idea Factory Micro- Bioretention 1	Redevelopment	Pass	0.13	1.83	0.07
UMCP22BMP0304	Idea Factory Micro- Bioretention 3	Redevelopment	Pass	0.06	2.31	0.04
UMCP22BMP0321	School of Public Policy Bioretention 1	Redevelopment	Pass	0.12	2.32	0.16
UMCP22BMP0322	School of Public Policy Bioretention 2	Redevelopment	Pass	0.21	2.6	0.29
UMCP22BMP0324	School of Public Policy Non- Rooftop Disconnect 1	Redevelopment	Pass	0.04	1	0.04
					Total =	11.45

In addition to the projects listed in Table 4, alternative practices also qualify for restoration credit. UMCP completed Phase 1 of the Campus Creek restoration in November 2019, which restored 3,039 linear feet of the stream. The project was determined by WBCM to provide 105.8 acres of restoration credit. However, as part of an agreement to allow UMCP to complete restoration in the right of way along MD Route 193, 1 acre of the restoration credit was given to SHA to apply toward their MS4 requirement. Additionally, as part of the Campus Creek restoration two regenerative step pool conveyances were installed along with a stormwater bar (outfall stabilization). These three practices were evaluated to provide an additional 1.02 acres of restoration credit. Furthermore, UMCP has completed a total of 7 impervious surface removal projects. For every acre of impervious surface converted to grass cover, UMCP received a 0.75-acre equivalent treatment credit. To ensure double credit is not claimed, the total impervious for these projects has been included in UMCP's baseline total. The total impervious area removed is 3.53 acres, resulting in a restoration credit of 2.65 acres. Lastly, on the IBBR campus an outfall stabilization was completed in 2006. The project was 50 feet long, and with an equivalent credit of 0.01 acres per linear foot, the project earned a credit of 0.5 acres. Table 5 below presents each alternative practice and their equivalent restoration credit.

Table 5. Summary UMCP Alternative Practices

Year	BMP ID	BMP Name	ВМР Туре	Impervious Credit (ac.)
2019	UMCP19BMP0249	Campus Creek Restoration	Stream Restoration	104.8
2006	USG19BMP00004	IBBR Outfall Stabilization	Outfall Stabilization	0.5
2016	UMCP20BMP0288	Impervious Surface Removal to Pervious 4100 Metzerott Rd	Impervious Surface Removal to Pervious	0.17
2017	UMCP20BMP0289	Impervious Surface Removal to Pervious 4109 Metzerott Rd	Impervious Surface Removal to Pervious	0.03
2019	UMCP19BMP0250	Campus Creek RSPSC 1	Regenerative Step Pool Conveyance	0.58
2019	UMCP20BMP0290	Campus Creek RSPSC 2	Regenerative Step Pool Conveyance	0.31
2019	UMCP20BMP0291	Campus Creek Stormwater Bar	Outfall Stabilization	0.13
2020	UMCP21BMP0296	Wooded Hillock Impervious Removal 3	Impervious Surface Removal to Pervious	0.02

2020	UMCP21BMP0297	Wooded Hillock Impervious Removal 2	Impervious Surface Removal to Pervious	0.017
2020	UMCP21BMP0298	Wooded Hillock Impervious Removal 1	Impervious Surface Removal to Pervious	0.05
2021	UMCP21BMP0299	4103 Metzerott Rd Impervious Removal	Impervious Surface Removal to Pervious	0.067
2021	UMCP21BMP0300	Cole Field House Impervious Surface Removal	Impervious Surface Removal to Pervious	2.30
			Total =	108.97

The restoration credit earned from the projects described within this report totals to 120.42 acres. This surpasses UMCP's restoration requirement of 81.93 acres as demonstrated in Table 6.

Table 6. UMCP Restoration Credit Computation

20% Restoration Goal (ac)	Restoration Credit (ac)	Remaining 20% Goal (ac)
81.93	120.42	-38.49

Following the Year 4 submission, MDE provided guidance to all MS4 Phase II Permit holders to extend their Restoration Activity Schedule through 2030 with an additional 10% restoration goal. For UMCP, this goal is equivalent to an additional 40.97 acres of restoration. With current implemented projects, UMCP would have a remaining goal of 2.48 acres with this additional restoration requirement. However, this remaining goal will be met by future projects that UMCP already has planned for their facilities.

Future Projects

Even though UMCP has surpassed their 20% restoration requirement, the University continues to plan future restoration projects in preparation of future permit requirements. In 2020, UMCP applied for the Chesapeake Bay Trust (CBT) Watershed Assistance Grant Program and was awarded funding for the design to retrofit the Animal Science Pond and restore the remaining section of Campus Creek. The design phase for both projects began in 2021. Animal Science is a dry pond that is no longer functioning and will be converted into a water quality facility. The stream restoration project will restore 2,318 linear feet of Campus Creek. These projects are estimated to provide restoration credits of 8.95 acres and 45.2 acres, respectively, bringing UMCP's total restoration credit to 174.57 acres. UMCP received grant funding for the construction of these projects, which is anticipated to begin in 2023. Upon project completion, the awarded credit may increase or decrease. Once these projects are complete, UMCP will have met the 2030 recommended 40.97 acre restoration goal.

Additionally, UMCP continues completing maintenance to restore failing BMPs across the campus. As these facilities are repaired, baseline or restoration credit will be awarded as appropriate, further contributing to UMCP's stormwater treatment requirements.

Conclusion

UCMP is responsible for a total of 465.92 acres of impervious under their MS4 permit. MES determined UMCP is treating 53.91 acres of their main campus's impervious area, and 2.34 acres of the IBBR campus's impervious area. This treatment resulted in a 20% restoration goal of 81.93 acres. Through a combination of redevelopment projects and alternative practices, UMCP has earned 120.42 acres of restoration credit, surpassing their 20% restoration requirement. Although UMCP has exceeded their restoration goal, UMCP continues to plan future restoration projects to ensure they continue to meet future requirements such as the 2030 10% restoration goal under the NPDES MS4 permit.

ATTACHMENT C RESTORATION ACTIVITY SCHEDULE

Phase II MS4 Restoration Activity Schedule

Total Acreage (1305); Impervious Acre Baseline (465.92); 20% Restoration Target (81.93 acres)

Total Acreage (1305); Impervious Acre Baseline (465.92); 20% Restoration Target (81.93 acres)											
Type of Restoration Project	BMP Code	BMP ID	Cost (\$K)	Imperv Acres Treated	Imperv Acre Target and Balance	Project Status	Year Complete or Projected Implementation Year (by 2025)		coordinates g/Easting)		
					81.93						
IBBR Outfall Stabilization	OUT	USG19BMP00004	10	0.50	81.43	С	2006	158456.27	382786.21		
University House Southern Micro-Bioretention	MMBR	UMCP19BMP0040	10	0.03	81.40	С	2011	146679.14	404093.23		
Denton Courtyard Micro-Bioretention	MMBR	UMCP19BMP0122	15	0.10	81.30	C	2012	147179.85	404313.09		
Shuttle Facility Green Roof	AGRE	UMCP19BMP0016	50	0.11	81.19	С	2012	147510.65	405436.50		
Shuttle Facility Green Roof	AGRE	UMCP19BMP0017	50	0.11	81.08	С	2012	147512.86	405458.48		
Shuttle Facility Dry Swale	ODSW	UMCP19BMP0026	30	1.71	79.37	С	2012	147485.93	405590.45		
Heavy Equipment Building Micro-Bioretention	MMBR	UMCP19BMP0055	15	0.10	79.27	С	2012	147573.67	404943.77		
Denton Dining Micro-Bioretention	MMBR	UMCP19BMP0059	30	0.24	79.03	С	2012	147173.55	404348.39		
Denton Quad Micro-Bioretention 3	MMBR	UMCP19BMP0070	15	0.07	78.96	С	2012	147151.76	404275.04		
Physical Science Complex Green Roof	AGRE	UMCP19BMP0078	100	0.21	78.75	С	2013	147002.04	405068.40		
Computer and Space Sciences Green Roof	AGRE	UMCP19BMP0049	35	0.08	78.67	С	2013	147031.24	405023.82		
Prince Frederick Hall Micro-Bioretention Cell 1	MMBR	UMCP19BMP0124	30	0.14	78.53	С	2014	146101.64	404687.09		
Impervious Surface Removal to Pervious 4100 Metzerott Rd	IMPP	UMCP20BMP0288	37	0.17	78.36	С	2016	148038.42	405387.54		
West Side of Edward St. John Green Roof	AGRE	UMCP19BMP0157	50	0.06	78.30	С	2017	146559.97	405023.75		
West Side of Edward St. John Green Roof	AGRE	UMCP19BMP0158	50	0.06	78.24	С	2017	146560.89	405040.90		
Impervious Surface Removal to Pervious 4109 Metzerott Rd	IMPP	UMCP20BMP0289	7	0.03	78.22	С	2017	147899.26	405369.20		
Clark Hall Bioretention 1	MMBR	UMCP19BMP0231	60	0.33	77.89	С	2017	147129.96	405375.41		
Clark Hall Micro-Bioretention 2	MMBR	UMCP19BMP0232	50	0.29	77.60	С	2017	147109.93	405375.62		
M Square SGW 1	MSGW	UMCP20BMP0258	90	1.86	75.74	С	2018	144408.70	405905.68		
M Square SGW 2	MSGW	UMCP20BMP0259	40	0.72	75.02	С	2018	144567.14	405880.11		
M Square MBR1	MMBR	UMCP20BMP0260	30	0.35	74.67	С	2018	144555.93	406065.15		
A.V. Williams Micro-Bioretention	MMBR	UMCP19BMP0152	25	0.27	74.40	С	2018	146930.84	405581.69		
A.V. Williams Micro-Bioretention	MMBR	UMCP19BMP0153	15	0.14	74.26	С	2018	147007.47	405562.48		
A.V. Williams Micro-Bioretention	MMBR	UMCP19BMP0154	35	0.31	73.95	С	2018	146975.71	405568.77		
Brendan Iribe Micro-Bioretention 1	MMBR	UMCP19BMP0241	30	0.27	73.68	С	2019	146906.29	405596.76		
Brendan Iribe Micro-Bioretention 2	MMBR	UMCP19BMP0242	40	0.32	73.36	С	2019	146855.63	405574.14		
Brendan Iribe 4	APRP	UMCP19BMP0244	20	0.15	73.21	С	2019	146849.94	405510.90		
Brendan Iribe 5	AGRI	UMCP19BMP0245	20	0.14	73.07	С	2019	146819.29	405548.24		
Campus Creek Stream Restoration Phase 1	STRE	UMCP19BMP0249	1200	104.80	-31.74	С	2019	147429.67	404606.19		
Regenerative Step Pool Conveyance	SPSC	UMCP19BMP0250	20	0.58	-32.32	С	2019	147431.84	404451.93		
Regenerative Step Pool Conveyance	SPSC	UMCP20BMP0290	20	0.31	-32.63	С	2019	147441.85	404475.02		
Stormwater Bar	OUT	UMCP20BMP0291	10	0.13	-32.76	С	2019	147345.11	404978.06		
Wooded Hillock Impervious Removal 3	IMPP	UMCP21BMP0296	5	0.02	-32.78	С	2020	147957.18	404955.17		

Type of Restoration Project	BMP Code	BMP ID	Cost (\$K)	Imperv Acres Treated	Imperv Acre Target and Balance	Project Status	Year Complete or Projected Implementation Year (by 2025)		oordinates g/Easting)
Wooded Hillock Impervious Removal 2	IMPP	UMCP21BMP0297	37	0.02	-32.79	С	2020	147940.09	404868.38
Wooded Hillock Impervious Removal 1	IMPP	UMCP21BMP0298	11	0.05	-32.84	С	2020	147868.97	404758.74
Knight Hall	MRWH	UMCP19BMP0082	50	0.39	-33.23	С	2020	146527.74	404476.54
Cole Field House Impervious Removal	IMPP	UMCP21BMP0300	500	2.30	-35.53	С	2021	146705.18	404486.51
4103 Metzerott Rd Impervious Removal	IMPP	UMCP21BMP0299	15	0.07	-35.60	С	2021	147959.30	405348.54
Presidents house Disconnect 1	NDNR	UMCP19BMP0239	10	0.01	-35.61	С	2021	146721.81	404139.61
Prince Frederick Hall Bioretention Cell 2	MMBR	UMCP19BMP0125	45.2	0.33	-35.94	С	2022	146116.11	404734.63
Brendan Iribe 3	MSWB	UMCP19BMP0243	25	0.19	-36.13	С	2023	146803.50	405608.07
School of Public Policy Bioretention 1	MMBR	UMCP22BMP0321	50	0.16	-36.29	С	2023	146340.64	405239.55
School of Public Policy Bioretention 2	MMBR	UMCP22BMP0322	55	0.29	-36.58	С	2023	146385.29	405356.00
School of Public Policy Non-Rooftop Disconnect 1	NDNR	UMCP22BMP0324	5	0.04	-36.62	С	2023	146304.01	405341.42
Cole Field House Green Roof 1	AGRI	UMCP21BMP0292	50	0.32	-36.94	С	2021	146766.15	404615.60
Cole Field House Green Roof 2	AGRI	UMCP21BMP0293	20	0.07	-37.01	С	2021	146766.74	404556.07
Cole Field House Green Roof 3	AGRI	UMCP21BMP0294	50	0.37	-37.38	С	2021	146672.51	404557.39
Cole Field House Green Roof 4	AGRI	UMCP21BMP0295	100	0.86	-38.24	С	2021	146626.26	404516.83
Idea Factory Micro-Bioretention 4	MMBR	UMCP22BMP0301	50	0.08	-38.32	С	2021	146933.90	405411.70
Idea Factory Micro-Bioretention 2	MMBR	UMCP22BMP0302	50	0.06	-38.38	С	2021	146926.50	405335.62
Idea Factory Micro-Bioretention 1	MMBR	UMCP22BMP0303	50	0.07	-38.45	С	2021	146926.84	405357.94
Idea Factory Micro-Bioretention 3	MMBR	UMCP22BMP0304	50	0.04	-38.49	С	2021	146926.96	405378.99
Animal Science pond	PWET	UMCP19BMP0021	800	8.95	-47.44	Р	2025	147226.59	405331.71
Campus Creek Stream Restoration Phase 2	STRE		2100	45.20	-92.64	Р	2025	147351.99	404982.82
		Total Restora	tion Credit =	174.57		_		•	

ATTACHMENT D BMP DATABASE

		iromonts									
	BMP Reporting Requ	quired of all structural, ESD and alternative Best Ma	nagement Practices (RMPs)								
DMD ID1	REPORTING_YEAR MD NORTH 2		BMP NAME	BMP_CLASS	BMP TYPE	CON PURPOSE	LAST INSP DATE	BMP_STATUS MAIN_DATE	REINSP DATE	REINSP STATUS	GEN COMMENTS
DIVIF_ID	IND_NORTH										Epply parking lot pond. With riprap overflow into vegetate
UMCP19BMP0002	2023 147378.6	404651.41 13-SF_5501 94-SF-0311	Lot 2 retention pond	S	PWET	NEWD	7/2/2021	P 8/27/2021			swale.
UMCP19BMP0005	2023 146534.80	404139.47 13-SF_5501 02-SF-0247	Peace and Friendship Garden	S	FSND	REDE	9/26/2023	P 4/26/2023			Basis of UMD SWM Bank. Restoration completed 11/2021
UMCP19BMP0010	2023 148438.33	404925.45 13-SF 5501 91-SF-0059	Laboratory for Physical Science	c	PWED	NEWD	3/23/2021	P 8/16/2021			heavy sedimentation. heavy cattail growth. nice wooded edge condition favorable wildlife habitat
OMCP19BMP0010	2023 148438.3	404925.45 13-5F_5501 91-5F-0059	Laboratory for Physical Science	5	PWED	NEWD	3/23/2021	8/16/2021			recomend annual perennial cut back. High habitat value.
UMCP19RMP0011	2023 147097 10	404208 05 13-SE 5501 03-SE-0282	CSPAC Shallow Marsh Wetland	s	wshw	NEWD	1/20/2022	P 11/2/2020			Many species of Birds observed.
OWICE ESDIVIT COSE	1025 14/05/.15	404200.03 13 31 _3301	CSI NC SIIGIIOW IVIGISII WCCIGIIG		*******	new 5	1/10/1011	11/1/1010			Heavy vegetation around edge of facility. Annual reduction
UMCP19BMP0012	2023 147658.28	405172.72 13-SF_5501 00-SF-0275	Softball Complex retention pond	s	PWET	REDE	6/7/2021	P 8/18/2021			of cattails recomended.
UMCP19BMP0013	2023 148196.94	405115.88 13-SF_5501	Courtyards retention pond	S	PWET	NEWD	6/6/2023	P 6/6/2023			sediments and trash at swale/inlet into pond
UMCP19BMP0014	2023 146352.34		Woods Hall	S	FBIO	REDE	9/21/2023	P 8/27/2021			Garden Area funde by AWS and DNR
											sedum green roof. in bloom many observed pollinator bees
				_			- 1- 1				interviewed facility staff, no problems experienced so far.
UMCP19BMP0016 UMCP19BMP0017	2023 147510.69 2023 147512.89		Shuttle Facility Shuttle Facility	E	AGRE AGRE	REDE REDE	5/3/2022 5/3/2022	P 4/19/2022 P 4/19/2022			75% plant cover, room to fill in same as lower roof
UNICP19BIVIPUU17	2023 14/312.80	403438.48 13-3F_3301 11-3F-0002	Shuttle Facility	E	AGRE	KEDE	3/3/2022	4/19/2022			sallie as lower root
											Green roof appears to be functional. Sedums in bloom.
UMCP19BMP0018	2023 147569.38	404959.19 13-SF_5501 11-SF-0139	BLS Heavy Equipment	F	AGRE	NEWD	5/3/2022	P 4/19/2022			Some volunteer "weeds" should be removed.
OWICE ISSUE GOID	1025 147303.30	404555.15 15 51 _5501	DESTICATE EQUIPMENT		Pione	ii.iib	3/3/2022	4/15/1011			
UMCP19BMP0019	2023 146672.76	404025.06 13-SF_5501 13-SF-0237	University House Parking Lot	E	MMBR	NEWD	9/21/2021	P 9/21/2021			Facility outfall presents an issue with eroding the hillside.
UMCP19BMP0020	2023 148418.20		VetMed research pond	s	PWET	NEWD	7/16/2020				
UMCP19BMP0021	2023 147226.59	405331.71 13-SF_5501 98-SF-0319	Animal Science pond	S	XDPD	NEWD	1/20/2022	F 12/15/2016			Renewal Design in progress
UMCP19BMP0022	2023 147243.00	100000000000000000000000000000000000000	Lot 11b	S	FBIO	REST	9/21/2023	9, -9,	-		Dr. Davis bioretention
UMCP19BMP0023	2023 147158.6	405364.43 13-SF_5501	Neutral Buoyancy Conveyance	E	OWSW	REDE	5/31/2023	P 5/31/2023	-		Excessive sediment near outfall. Minor erosion
			L	L		L		L			no observed safety bench at pond edge. algea bloom mid
UMCP19BMP0024	2023 147410.58		Terrapin Trail Garage retention pond	S	PWET	NEWD	5/18/2023	P 5/18/2023			june. retrofit cantidat?
UMCP19BMP0026	2023 147529.74	405584.51 13-SF_5501 11-SF-0002	Shuttle Facility	S	ODSW	REDE	3/9/2020	P 2/7/2020			SHA built for CSX grade separation PG1825147
UMCP19BMP0027	2023 147267.42	405147.05 13-SF 5501	Lot PP2 Bioretention	c	FBIO	REST	9/21/2023	P 8/27/2021		1	Dr. Davis bioretention. Built w/ EPA/PG \$ (\$250K for 4 facilities)
UMCP19BMP0027 UMCP19BMP0033	2023 147267.42		Lot PP2 Bioretention University House	5	MMBR	NEWD	9/21/2023				Bioretention North
UMCP19BMP0033	2023 146807.3		University House University House	F	MMBR	NEWD NEWD	9/21/2021			 	Bioretention North
UMCP19BMP0035	2023 146832.83		University House	F	MMBR	NEWD	10/20/2021				Bioretention North
UMCP19BMP0036	2023 146322.54		Lot Three (Guilford Park Bioretention)	\$	FBIO	REST	6/6/2023				Middle Guilford Bioretention.
UMCP19BMP0039	2023 146978.3		Chem-Nuc BLDG	5	FBIO	REST	9/21/2023	P 9/21/2023			North Cell
UMCP19BMP0040	2023 146679.14		University House	F	MMBR	REST	9/21/2021				Bioretention South
UMCP19BMP0041	2023 146731.8		University House	E	MMBR	NEWD	9/21/2021				Bioretention South
UMCP19BMP0042	2023 147527.84	404852.38 13-SF 5501 13-SF-0233	Wye Oak Building	E	MMBR	NEWD	6/1/2021	P 4/1/2015			
UMCP19BMP0043	2023 147241.0	405591.22 13-SF_5501	Lot 11b bioretention	S	FBIO	REST	4/2/2019	F 5/16/2017			Dr. Davis bioretention
UMCP19BMP0046	2023 146577.5	405168.75 13-SF_5501	Symons Hall Rain Garden North	E	MRNG	REST	4/2/2019	P 4/2/2019			
UMCP19BMP0047	2023 146570.96		Symons Hall Rain Garden South	E	MRNG	REST	4/2/2019	P 4/2/2019			
UMCP19BMP0048	2023 146574.83		Symons Hall Pervious Pavement	E	APRP	REST	4/2/2019				Purple construction will restore
UMCP19BMP0049	2023 147031.24		Computer and Space Sciences Green Roof	E	AGRE	REDE	5/3/2022				
UMCP19BMP0050	2023 147147.6	404856.25 13-SF_5501	Cumberland Green Roof	E	AGRE	REST	5/3/2022	P 4/6/2022			south cell. same condition as others.
	2023 147573.60	404936.27 13-SF 5501 11-SF-0139		_	MMBR		3/9/2020	P 3/9/2020			BLS Bioretention. no observed plants. room for enhanced
UMCP19BMP0055	2023 147573.60	404936.27 13-SF_5501 11-SF-0139	Heavy Equipment Building	E	MMBR	REDE	3/9/2020	P 3/9/2020			planting.
											Comcast/Chesapeake Pond, Reported problems with
UMCP19BMP0056	2023 147750.78	8 405055.88 13-SF_5501 01-SF-0167	Comcast north retention pond	s	PWET	REDE	9/16/2021	P 8/17/2021			overflow during large rains events. Geese infestation.
UMCP19BMP0059	2023 147173.55		Denton Dining	F	MMBR	REDE	9/27/2023				
	2000						7,2.7,2020	5/15/2515			Plans identify BMP as a Grass Swale, originally identified as
UMCP19BMP0065	2023 148724.93	405016.86 13-SF_5501 04-SF-0066	Greenmeade North Grass Channel B	s	MSWG	NEWD	9/16/2022	P 4/1/2022			dry pond
UMCP19BMP0066	2023 148721.1	405017.68 13-SF_5501 04-SF-0066	Greenmeade North Grass Channel A	S	MSWG	NEWD	4/26/2022	P 4/26/2022			
UMCP19BMP0068	2023 148324.91		Courtyards Northeast Parking	S	FBIO	NEWD	6/6/2023	F			sheet flow to bioretention curb at north edge collapsed
UMCP19BMP0069	2023 148316.39		Courtyards Northeast Parking								
UMCP19BMP0070	2023 147151.76			S	FBIO	NEWD	6/6/2023	F			sheet flow to bioretention
		404275.04 13-SF_5501 12-SF-0215	Denton Quad MB 3	S E	FBIO MMBR		6/6/2023 3/26/2020				sheet flow to bioretention
U. 4 CD 4 CD 4 4 D CO 7 2	2022			S E	MMBR	NEWD REDE	3/26/2020	P 12/2/2016			sheet flow to bioretention Good condition. Some volunteer weeds should be removed
UMCP19BMP0073	2023 146673.19	404758.47 13-SF_5501	Stamp Green Roof West	E E	MMBR AGRE	NEWD REDE REST	3/26/2020 5/3/2022	P 12/2/2016 P 9/30/2021			sheet flow to bioretention Good condition. Some volunteer weeds should be removed verify LEED status
UMCP19BMP0074	2023 146671.0	404758.47 13-SF_5501 404793.63 13-SF_5501	Stamp Green Roof West Stamp Green Roof East	E E	MMBR AGRE AGRE	NEWD REDE REST REST	3/26/2020 5/3/2022 5/3/2022	P 12/2/2016 P 9/30/2021			sheet flow to bioretention Good condition. Some volunteer weeds should be removed yearly LEED status same as other stamp green roof verify LEED status
		404758.47 13-SF_5501 404793.63 13-SF_5501	Stamp Green Roof West	E E E	MMBR AGRE	NEWD REDE REST	3/26/2020 5/3/2022	P 12/2/2016 P 9/30/2021			sheet flow to bioretention Good condition. Some volunteer weeds should be removed verify LEED status
UMCP19BMP0074	2023 146671.0	404758.47 13-SF_5501 404793.63 13-SF_5501	Stamp Green Roof West Stamp Green Roof East	E E E	MMBR AGRE AGRE	NEWD REDE REST REST	3/26/2020 5/3/2022 5/3/2022	P 12/2/2016 P 9/30/2021			sheet flow to bioretention Good condition. Some volunteer weeds should be removed verify LEED status same as tother strang green roof verify LEED status Service parking permeable paving. Water enters facility too rapidly, causing scouring and
UMCP19BMP0074	2023 146671.0	404758.47 13-SF_5501 404793.63 13-SF_5501 404277.92 13-SF_5501	Stamp Green Roof West Stamp Green Roof East	E E E	MMBR AGRE AGRE	NEWD REDE REST REST	3/26/2020 5/3/2022 5/3/2022	P 12/2/2016 P 9/30/2021			sheet flow to bioretention Good condition. Some volunteer weeds should be removed verify LEED status same as tother strang green roof verify LEED status Service parking permeable paving. Water enters facility too rapidly, causing scouring and
UMCP19BMP0074 UMCP19BMP0075 UMCP19BMP0076 UMCP19BMP0077	2023 146671.0i 2023 147163.1s	404758.47 13-5F_5501 404793.63 13-5F_5501 404277.92 13-5F_5501 404824.99 13-5F_5501 404825.22 13-5F_5501	Stamp Green Roof West Stamp Green Roof East Denton	E E E E E E E E E E E E E E E E E E E	MMBR AGRE AGRE APRP FBIO MRWH	NEWD REDE REST REST NEWD	3/26/2020 5/3/2022 5/3/2022 6/4/2019 6/1/2021 6/4/2019	P 12/2/2016 P 9/30/2021 P 9/30/2021 F P 2/7/2020 P 2/6/2020			sheet flow to bioretention Good condition. Some volunteer weeds should be removed verify LEED status same as other stamp green roof verify LEED status Service parking permeable paving.
UMCP19BMP0074 UMCP19BMP0075 UMCP19BMP0076 UMCP19BMP0077 UMCP19BMP0078	2023 146671.0: 2023 147163.1: 2023 147256.7/	404758.47 13.5F.5501 404793.63 13.5F.5501 404277.92 13.5F.5501 404824.99 13.5F.5501 404825.22 13.5F.5501 40508.40 13.5F.5501 10508.00 13.5F.5501	Stamp Green Roof West Stamp Green Roof East Denton Public Health Garden	E E E E E E E E E E E E E E E E E E E	MMBR AGRE AGRE APRP FBIO	NEWD REDE REST REST NEWD REST	3/26/2020 5/3/2022 5/3/2022 6/4/2019	P 12/2/2016 P 9/30/2021 P 9/30/2021 F P 2/7/2020 P 2/6/2020			sheet flow to bioretention Good condition. Some volunteer weeds should be removed verify LEED status same as other stamp green roof verify LEED status Service parking permeable paving. Water enters facility too rapidly, causing scouring and channeling of swale bays. BMP not permitted by MDE.
UMCP19BMP0074 UMCP19BMP0075 UMCP19BMP0076 UMCP19BMP0077	2023 146671.0: 2023 147163.1: 2023 147256.7: 2023 147272.4:	404758.47 13.5F.5501 404793.63 13.5F.5501 404277.92 13.5F.5501 404277.92 13.5F.5501 404824.99 13.5F.5501 404825.22 13.5F.5501 40508.40 13.5F.5501 10.5F.0085	Stamp Green Roof West Stamp Green Roof East Denton Public Health Garden Public Health Garden	E E E E E E E E E E E E E E E E E E E	MMBR AGRE AGRE APRP FBIO MRWH	NEWD REDE REST REST NEWD REST REST REST REST	3/26/2020 5/3/2022 5/3/2022 6/4/2019 6/1/2021 6/4/2019	P 12/2/2016 P 9/30/2021 P 9/30/2021 F P 2/7/2020 P 2/6/2020			sheet flow to bioretention Good condition. Some volunteer weeds should be removed verify LEED status same as other stamp green roof verify LEED status Service parking permeable paving. Water enters facility too rapidly, causing scouring and channeling of swale bays. BMP not permitted by MDE. BMP not permitted by MDE. Engineering permeable paving
UMCP19BMP0074 UMCP19BMP0075 UMCP19BMP0076 UMCP19BMP0077 UMCP19BMP0078 UMCP19BMP0079	2023 146671.01 2023 147163.19 2023 147256.77 2023 147272.49 2023 147002.09 2023 146754.86	404758.47 13.5F.5501 404793.63 13.5F.5501 404277.92 13.5F.5501 404277.92 13.5F.5501 404824.99 13.5F.5501 404825.22 13.5F.5501 40508.40 13.5F.5501 40508.40 13.5F.5501	Stamp Green Roof West Stamp Green Roof East Denton Public Health Garden Public Health Garden Physical Science Complex Green Roof Glenn L Martin Hall	S	MMBR AGRE AGRE AGRE APRP FBIO MRWH AGRE APRP	NEWD REDE REST REST NEWD REST REST REST REST REST REST REST REDE	3/26/2020 5/3/2022 5/3/2022 6/4/2019 6/4/2019 6/4/2019 5/3/2022 1/20/2022	P 11/2/2016 P 9/30/2021 P 9/30/2021 F P 2/7/2020 P 2/5/2020 P 4/6/2022 P 1/20/2022			sheet flow to bioretention Good condition. Some volunteer weeds should be removed verify LEED status same as other stamp green roof verify LEED status Service parking permeable paving. Water enters facility too rapidly, causing scouring and channeling of swale bays. BMP not permitted by MDE. BMP not permitted by MDE. BMP not permitted by MDE. Engineering permeable paving.
UMCP19BMP0074 UMCP19BMP0075 UMCP19BMP0076 UMCP19BMP0077 UMCP19BMP0078 UMCP19BMP0079 UMCP19BMP0080	2023 146671.01 2023 147163.19 2023 147256.7- 2023 147272.4- 2023 147020.0 2023 146754.84 2023 147550.00	0 404758.47 13.5F.5501 404793.63 13.5F.5501 404277.92 13.5F.5501 404824.99 13.5F.5501 404825.22 13.5F.5501 405825.23 13.5F.5501 405833.38 13.5F.5501 40523.38 13.5F.5501	Stamp Green Roof West Stamp Green Roof East Denton Public Health Garden Public Health Garden Public Health Garden Gleinn L Martin Hall Lot FF2	S E E E E E E	MMBR AGRE AGRE APRP FBIO MRWH AGRE APRP APRP	NEWD REDE REST REST NEWD REST REST REST REST REST REST RESE REWD REST	3/26/2020 5/3/2022 5/3/2022 6/4/2019 6/4/2019 6/4/2019 5/3/2022 1/20/2022 5/31/2023	P 12/2/2016 P 9/30/2021 P 9/30/2021 F P 2/7/2020 P 2/6/2020 P 4/6/2022 P 5/31/2023			sheet flow to bioretention Good condition. Some volunteer weeds should be removed verify LEED status same as other stamp green roof verify LEED status Service parking permeable paving. Water enters facility too rapidly, causing scouring and channeling of swale bays. BMP not permitted by MDE. BMP not permitted by MDE. Engineering permeable paving
UMCP198MP0074 UMCP198MP0075 UMCP198MP0076 UMCP198MP0077 UMCP198MP0078 UMCP198MP0079 UMCP198MP0080 UMCP198MP0080	2023 14657.10 2023 147153.11 2023 147256.7- 2023 147227.4- 2023 147020. 2023 146754.81 2023 147250. 2023 147250.	404758.47 13.5F 5501 404793.63 13.5F 5501 404277.92 13.5F 5501 404277.92 13.5F 5501 404825.22 13.5F 5501 40508.40 13.5F 5501 40508.40 13.5F 5501 40507.88 13.5F 5501 40527.88 13.5F 5501 40527.88 13.5F 5501	Stamp Green Roof West Stamp Green Roof East Denton Public Health Garden Plylic Health Garden Phylical Science Complex Green Roof Glenn L Martin Hall Lot FF2 Denton Hall	S	MMBR AGRE AGRE APRP FBIO MRWH AGRE APRP APRP APRP MRWH MRWH MRWH MRWH	NEWD REDE REST REST REST NEWD REST REST REST REST REDE NEWD REST NEWD	3/26/2020 5/3/2022 5/3/2022 6/4/2019 6/4/2019 5/3/2022 1/20/2022 5/31/2023 5/31/2023	P 11/2/2016 P 9/30/2021 P 9/30/2021 F 2/7/2020 P 2/6/2020 P 4/6/2022 P 1/20/202 P 5/31/203 P 5/31/203			sheet flow to bioretention Good condition. Some volunteer weeds should be removed verify LEED status same as other stamp green roof verify LEED status Service parking permeable paving. Water enters facility too rapidly, causing scouring and channeling of swale bays. BMP not permitted by MDE. BMP not permitted by MDE. BMP not permitted by MDE. Engineering permeable paving.
UMCP198MP0074 UMCP198MP0075 UMCP198MP0076 UMCP198MP0077 UMCP198MP0078 UMCP198MP0079 UMCP198MP0081 UMCP198MP0081 UMCP198MP0082	2023 146671.01 2023 147163.11 2023 147256.7. 2023 147227.41 2023 147220.20 2023 147227.42 2023 147220.31 2023 147230.31 2023 147230.32	404758.47 13.5F.5501 404793.63 13.5F.5501 404277.92 13.5F.5501 404824.99 13.5F.5501 404825.22 13.5F.5501 405825.22 13.5F.5501 405825.23 13.5F.5501 405303.38 13.5F.5501 405278.89 13.5F.5501 405409.42 13.5F.5501 404406.43 13.5F.5501 404406.43 13.5F.5501 404476.45 13.5F.5501 404476.45 13.5F.5501 805409.85 13.5F.5001	Stamp Green Roof West Stamp Green Roof East Denton Public Health Garden Public Health Garden Physical Science Complex Green Roof Glenn L Martin Hall Lot FF2 Denton Hall	S E E E E E E E E E E E E E E E E E E E	MMBR AGRE AGRE APRP FBIO MRWH AGRE APRP APRP MRWH MRWH MRWH MRWH MRWH MRWH	NEWD REDE REST REST REST NEWD REST REST REST REST REST REST REDE REMD REMD REST REST REMD REMD	3/26/2020 5/3/2022 5/3/2022 6/4/2019 6/4/2019 5/3/2022 1/20/2022 5/31/2023 5/31/2023 7/15/2021	P 12/2/2016 P 9/30/2021 P 9/30/2021 F P 2/7/2020 P 2/6/2020 P 4/6/2022 P 1/20/2020 P 5/31/2023 P 5/31/2023 P 7/15/2021			sheet flow to bioretention Good condition. Some volunteer weeds should be removed verify LEED status same as other stamp green roof verify LEED status Service parking permeable paving. Water enters facility too rapidly, causing scouring and channeling of swale bays. BMP not permitted by MDE. BMP not permitted by MDE. BMP not permitted by MDE. Engineering permeable paving.
UMCP198MP0074 UMCP198MP0075 UMCP198MP0076 UMCP198MP0077 UMCP198MP0078 UMCP198MP0079 UMCP198MP0080 UMCP198MP0080	2023 14657.10 2023 147153.11 2023 147256.7- 2023 147227.4- 2023 147020. 2023 146754.81 2023 147250. 2023 147250.	404758.47 13.5F.5501 404793.63 13.5F.5501 404277.92 13.5F.5501 404824.99 13.5F.5501 404825.22 13.5F.5501 405825.22 13.5F.5501 405825.23 13.5F.5501 405303.38 13.5F.5501 405278.89 13.5F.5501 405409.42 13.5F.5501 404406.43 13.5F.5501 404406.43 13.5F.5501 404476.45 13.5F.5501 404476.45 13.5F.5501 805409.85 13.5F.5001	Stamp Green Roof West Stamp Green Roof East Denton Public Health Garden Plylic Health Garden Phylical Science Complex Green Roof Glenn L Martin Hall Lot FF2 Denton Hall	S E E E E E E E E E E E E E E E E E E E	MMBR AGRE AGRE APRP FBIO MRWH AGRE APRP APRP APRP MRWH MRWH MRWH MRWH	NEWD REDE REST REST REST NEWD REST REST REST REST REDE NEWD REST NEWD	3/26/2020 5/3/2022 5/3/2022 6/4/2019 6/4/2019 5/3/2022 1/20/2022 5/31/2023 5/31/2023	P 11/2/2016 P 9/30/2021 P 9/30/2021 F 2/7/2020 P 2/6/2020 P 4/6/2022 P 1/20/202 P 5/31/203 P 5/31/203			sheet flow to bioretention Good condition. Some volunteer weeds should be removed verify LEED status same as other stamp green roof verify LEED status Service parking permeable paving. Water enters facility too rapidly, causing scouring and channeling of swale bays. BMP not permitted by MDE. BMP not permitted by MDE. BMP not permitted by MDE. Engineering permeable paving.
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BMP_ID ¹	REPORTING_YEAR N	MD_NORTH 2 ME	_EAST	PERMIT_NUM	LOCAL_BMP_ID	BMP_NAME	BMP_CLASS	BMP_TYPE	CON_PURPOSE	LAST_INSP_DATE BMP_STATUS		REINSP_DATE REINSP_STATUS	GEN_COMMENTS
UMCP19BMP0098 UMCP19BMP0106	2023 2023	147513.97 147494.20	405342.47	13-SF_5501 13-SF_5501	95-SF-0032 11-SF-0002	Artificial Turf Field Shuttle Bus	\$	PWET PWET	NEWD REDE	1/20/2022 P 9/30/2022 P	8/28/2021 5/9/2022		Not intended for SWM. Drainage only.
UMCP19BMP0107	2023	147494.20		13-SF_5501 13-SF 5501	01-SF-0255	Taylor Stadium	\$	FBIO	NEWD	11/3/2020 P	8/16/2021		
UMCP19BMP0108	2023	147903.37			00-SF-0275	Chesapeake Parking Lot East	S	FUND	NEWD	6/17/2021 P	6/19/2018		
UMCP19BMP0109	2023	148134.97		13-SF_5501		Metzerott Rd. and Greenmead Dr.	S	PWET	NEWD	9/8/2021 P	9/8/2021		
													Bioretention discovered during inspection of Golf Course Rd.
UMCP19BMP0112	2023	146967.82		13-SF_5501	98-SF-0218	Golf Course Parking Lot	E	MMBR	REDE	4/8/2020 F	10/30/2018		drainage swale-December 2014
UMCP19BMP0122	2023	147179.85		13-SF_5501	12-SF-0215	Denton Courtyard Bioretention	E	MMBR	REDE	9/27/2023 P	3/26/2020		
UMCP19BMP0124	2023	146101.64	404687.09	13-SF_5501	12-SF-0232	Prince Frederick Hall Bioretention Cell 1	E	MMBR	REDE	9/21/2021 P	9/21/2021		Sewer or potable pipe tied in to East inflow, flushing noise
UMCP19BMP0125	2023	146116.11	404734.63	13-SF_5501	12-SF-0232	Prince Frederick Hall Bioretention Cell 2	F	MMBR	REDE	11/22/2022 P	11/15/2022		observed in field
	2023				11 51 0252		_	THE STATE OF THE S		11/11/1011	11/13/1011		SUSCITED IN TICK
UMCP19BMP0127	2023	146180.60	405944.12	13-SF_5501		Paint Branch Dr & Rossborough Ln	S	FBIO	REST	5/1/2019 F	4/1/2017		To be removed and replaced by Leonardtown development.
													City of College Park constructed and maintained. Not
UMCP19BMP0128 UMCP19BMP0129	2023	146168.89		13-SF_5501 13-SF_5501		Paint Branch Dr & Rossborough Ln North side of Reckord Armory	S	FBIO MRNG	REST REST	5/1/2019 F	4/1/2017		university.
UMCP19BMP0129	2023	146479.88	405249.72	13-SF_5501		North side of Reckord Armory	E	MRNG	REST	1/18/2022 F	1/18/2022		Built as part of sustainability fund student project
UMCP19BMP0130	2023	146691.80	405287.54	13-SF_5501		Kirwan Hall Pavers	F	APRP	NEWD	6/6/2023 F	6/5/2019		Observed to be pervious in field. No drawings found to date.
UMCP19BMP0142	2023	146981.56	405407.42	13-SF_5501	02-SF-0279	Kim Plaza	E	MMBR	REDE	6/1/2021 P	6/1/2021		observed to be pervious in neig. No drawings round to date.
UMCP19BMP0143	2023	147092.53		13-SF_5501		Central Animal Resources Facility & ENST	E	APRP	NEWD	5/31/2023 P	5/31/2023		
						·							
													Built as part of CBT grant; built in-house by BLM; drawings
							_						consist of profile and plan view- no detail drawings were
UMCP19BMP0144	2023	146956.32	404032.55	13-SF_5501		North East corner of Golf Course parking Lot	E	MRNG	REST	9/25/2021 P	9/25/2021		created; construction cost include all 3 facilities combined.
													Built as part of CBT grant; built in-house by BLM; drawings
													consist of profile and plan view- no detail drawings were
UMCP19BMP0146	2023	146970.08	403914.01	13-SF_5501		Northwest corner of Golf Course parking lot	E	MRNG	REST	9/25/2021 P	9/25/2021		created; construction cost include all 3 facilities combined.
													RG2. Built as part of CBT grant; built in-house by BLM;
1					1				1				drawings consist of profile and plan view- no detail
1													drawings were created; construction cost include all 3
													facilities combined. 6" Inflow pipe from swale is below
UMCP19BMP0147 UMCP19BMP0149	2023 2023	146905.41 146859.36		13-SF_5501 13-SF 5501	11-SF-0366	Southwest corner of Golf Course parking lot Bob Turtle Smith Stadium at Shipley Field Unders	t c	MRNG XDPD	REST REDE	5/1/2019 F	10/30/2018		grade.
UMCP19BMP0149 UMCP19BMP0150	2023	146859.36 146581.05			11-SF-0366 14-SF-0181	Bob Turtle Smith Stadium at Shipley Field Underg Edward St. John Learning and Teaching Center U	ς	XDPD	REDE	2/16/2023 F	2/16/2023		Quantity management only Quantity management only
UMCP19BMP0150	2023	146926.77			11-SF-0366	Maryland Stadium Underground Detention Facili		XDPD	REDE	2/16/2023 F	2/10/2023		Quantity management only
UMCP19BMP0152	2023	146930.84		13-SF 5501	16-SF-0064	Behind A.V. Williams	F	MMBR	REDE	6/16/2022 P	6/16/2022		country management only
UMCP19BMP0153	2023	147007.47			16-SF-0064	Behind A.V. Williams	F	MMBR	REDE	6/16/2022 P	6/16/2022		
UMCP19BMP0154	2023	146975.71	405568.77	13-SF_5501	16-SF-0064	Behind A.V. Williams	E	MMBR	REDE	6/16/2022 P	6/16/2022		
UMCP19BMP0155	2023	146600.58	404987.86	13-SF_5501	14-SF-0182	West of Edward St. John	E	AGRE	NEWD	3/26/2020 P	4/27/2020		
UMCP19BMP0157	2023	146559.97	405023.75	13-SF_5501	14-SF-0182	West Side of Edward St. John	E	AGRE	REDE	5/3/2022 P	4/19/2022		
UMCP19BMP0158	2023	146560.89			14-SF-0182	West Side of Edward St. John	E	AGRE	REDE	5/3/2022 P	4/19/2022		
UMCP19BMP0159	2023	146543.52	405082.70	13-SF_5501	14-SF-0182	East Side of Edwards St. John	E	AGRE	NEWD	5/3/2022 P	4/19/2022		
UMCP19BMP0161	2023	147279.19	404391.62	13-SF_5501	09-SF-0390	Oakland Hall Sandfilter	S	FUND	NEWD	7/8/2020 P	7/8/2020		
UMCP19BMP0162	2023	147481.23			01-SF-0005	Terrapin Trail Garage Baysaver unit	S	COGS	NEWD	6/18/2018 F			Pretreatment for UMCP19BMP0024
UMCP19BMP0163	2023	147735.71		13-SF_5501		Severn Stormceptor	S	COGS	REDE	6/19/2019 P	6/19/2018		
UMCP19BMP0164	2023	147712.03		13-SF_5501 13-SF 5501		Severn Stormceptor	S	COGS	REDE	6/19/2019 P	6/19/2018		
UMCP19BMP0165 UMCP19BMP0166	2023	147737.54		13-SF_5501 13-SF_5501		Severn Stormceptor Severn Stormceptor	S	COGS	REDE REDE	6/19/2019 P 6/19/2019 P	6/19/2018 6/19/2018		
UMCP19BMP0167	2023	147734.36		13-SF_5501		Severn Stormceptor	\$	cogs	REDE	6/19/2019 P	6/19/2018		
UMCP19BMP0168	2023	147645.38		13-SF 5501		Severn Stormceptor	ς .	COGS	REDE	6/19/2019 P	6/19/2018		
UMCP19BMP0169	2023	147592.40		13-SF 5501		Severn Stormceptor	S	COGS	REDE	6/19/2019 P	6/19/2018		
UMCP19BMP0170	2023	147521.09		13-SF 5501		Severn Stormceptor	S	COGS	REDE	6/19/2019 P	6/19/2018		
UMCP19BMP0171	2023	147461.79		13-SF_5501		Severn Stormceptor	S	COGS	REDE	6/19/2019 P	6/19/2018		
													Structure identified from imagery. Field confirmation
UMCP19BMP0172	2023	148164.15		13-SF_5501		Courtyards South Parking	S	FBIO	REDE	6/6/2023 P	6/6/2023		required. Check with the Courtyards for existing plan set.
UMCP19BMP0231 UMCP19BMP0232	2023	147129.96 147109.93		13-SF_5501 13-SF 5501	14-SF-0265 14-SF-0265	Clark Hall Bioretention 1	E	MMBR MMBR	REDE REDE	9/21/2023 P 9/21/2023 P	6/4/2019 3/23/2022		West side of Clark Hall
UMCP19BMP0232	2023	14/109.93	405375.62	13-5F_55U1	14-SF-U265	Clark Hall Bioretention 2	E	MMBR	REDE	9/21/2023 P	3/23/2022		Dam observed failed during field inspection. In-Stream Pond
LIMCP19RMP0235	2023	147510.82	403943 30	13-SF 5501		Upper Golf Course	s	PWFT	NEWD	6/2/2023 F			Campus Creek
UMCP19BMP0236	2023	148330.53		13-SF_5501		Courtyards Sheeflow to Conservation 1	E	NSCA	NEWD	6/6/2023 P	6/6/2023		
UMCP19BMP0237	2023	148240.53	405124.25	13-SF_5501		Courtyards Sheeflow to Conservation 2	E	NSCA	NEWD	6/6/2023 P	6/6/2023		
1													BMP field identified by MES, listed as bioswale constructed
UMCP19BMP0238	205-	147246.59	400000	12.55 5504	1	Maria Harana Maria Diagrama and Carana and C		MCMD	DECT	0/4/2024 0	8/4/2021		by MDSE. DA still needs to be confirmed, no plans - Retrofit
	2023			13-SF_5501	11 55 0101	Wellness Way Bioretention		MSWB	KE21	8/4/2021 P		<u> </u>	conducted 11/13/2019 to expand storage capacity
UMCP19BMP0239 UMCP19BMP0240	2023 2023	146721.81 146803.85		13-SF_5501 13-SF 5501	11-SF-0184 11-SF-0184	Presidents House Disconnect 1 Presidents House Disconnect 2-1	c	NDNR NDNR	REDE NEWD	9/21/2021 P 4/8/2020 P	9/10/2021 4/8/2020		
UMCP19BMP0240	2023	146803.85			11-SF-0184 16-SF-0064	Presidents House Disconnect 2-1 Brendan Iribe 1	F	MMRR	REDE	4/8/2020 P 3/18/2022 P	3/18/2020		
UMCP19BMP0241	2023	146855.63		13-SF 5501	16-SF-0064	Brendan Iribe 2	E	MMBR	REDE	6/16/2022 P	3/18/2022		
UMCP19BMP0243	2023	146803.50		13-SF_5501	16-SF-0064	Brendan Iribe 3	E	MSWB	REDE	9/16/2022 P	9/16/2022		
UMCP19BMP0244	2023	146849.94	405510.90	13-SF_5501	16-SF-0064	Brendan Iribe 4	E	APRP	REDE	7/26/2021 P	7/26/2021		
UMCP19BMP0245	2023	146819.29	405548.24	13-SF_5501	16-SF-0064	Brendan Iribe 5	E	AGRI	REDE	7/15/2021 P	7/15/2021		
UMCP19BMP0248	2023	146488.56	405597.71	13-SF_5501		Service Building Bioretention	S	FBIO	REDE	F			Listed as failing until inspection
UMCP19BMP0249	2023	147429.67	404606.19	13-SF_5501	18-SF-0204	Campus Creek Restoration	A	STRE	REST	7/1/2022 P	6/8/2020		
UMCP19BMP0250	2023	147431.84		13-SF_5501	18-SF-0204	Campus Creek Regenerative Step Pool Conveyan	A	SPSC	REST	7/1/2022 P	6/8/2020		
UMCP20BMP0251	2023	146831.11			92-SF-0055	Fire Station Infiltration Trench	S	ITRN	NEWD	12/15/2021 F			Very overgrown, only observation well located,
UMCP20BMP0252	2023	146873.75			92-SF-0055	Fire Station WQ Inlet 1	S	Other	NEWD	7/8/2020 P	7/9/2020		Pretreatment
UMCP20BMP0253	2023	146874.87			92-SF-0055	Fire Station WQ Inlet 2	S	Other	NEWD	7/8/2020 P	7/9/2020		Pretreatment
UMCP20BMP0255 UMCP20BMP0256	2023 2023	146730.13 145923.34			92-SF-0217 01-SF-0245	Plant Sciences WQ Inlet	5	Other FUND	REDE REDE	7/8/2020 F 7/9/2020 P	7/9/2020 7/8/2020		Pretreatment
UMCP20BMP0256 UMCP20BMP0257	2023	145923.34			01-SF-0245 01-SF-0245	UMCP Student Housing Building A UMCP Student Housing Building B	s c	FUND	REDE	7/9/2020 P 9/16/2022 P	9/16/2022	<u> </u>	
	2023	145927.60		13-SF_5501 13-SF 5501	01-SF-0245 17-SF-0092	M Square SGW 1	F	MSGW	REDE	9/16/2022 P 4/8/2020 P	9/16/2022		
	2023	144408.70		13-SF_5501 13-SF_5501	17-SF-0092 17-SF-0092	M Square SGW 1 M Square SGW 2	F	MSGW	REDE	4/8/2020 P	4/8/2020	 	
UMCP20BMP0258		144555.92	406065.15	13-SF_5501	17-SF-0092	M Square MBR1	E	MMBR	REDE	4/8/2020 P	4/8/2020		
UMCP20BMP0259	2023			13-SF 5501	07-SF-0155	Mosquito Control MBR	E	MMBR	NEWD	4/2/2020 F	7/0/2020		
	2023 2023	148671.78											+
UMCP20BMP0259 UMCP20BMP0260	2023					MFRI Pond	S	PWET	REDE	9/22/2023 F	9/22/2023		
UMCP20BMP0259 UMCP20BMP0260 UMCP20BMP0261		148671.78 146139.76 146598.63	406328.29		01-SF-0340 01-SF-0378	MFRI Pond University of Maryland Health Center	S S	PWET FUND	REDE REDE	9/22/2023 F 7/9/2020 P	9/22/2023 7/8/2020		
UMCP20BMP0259 UMCP20BMP0260 UMCP20BMP0261 UMCP20BMP0264	2023 2023	146139.76	406328.29 404829.37	13-SF_5501 13-SF_5501	01-SF-0340	University of Maryland Health Center College Park Academy Micro-Bioretention 1	S S E						
UMCP20BMP0259 UMCP20BMP0260 UMCP20BMP0261 UMCP20BMP0264 UMCP20BMP0266	2023 2023 2023	146139.76 146598.63	406328.29 404829.37 406220.27	13-SF_5501 13-SF_5501 13-SF_5501	01-SF-0340 01-SF-0378	University of Maryland Health Center College Park Academy Micro-Bioretention 1 College Park Academy Micro-Bioretention 2	S S E	FUND	REDE	7/9/2020 P	7/8/2020		
UMCP20BMP0259 UMCP20BMP0260 UMCP20BMP0261 UMCP20BMP0264 UMCP20BMP0266 UMCP20BMP0266	2023 2023 2023 2023	146139.76 146598.63 144393.82	406328.29 404829.37 406220.27 406225.06	13-SF_5501 13-SF_5501 13-SF_5501 13-SF_5501	01-SF-0340 01-SF-0378 16-SF-0261	University of Maryland Health Center College Park Academy Micro-Bioretention 1	S S E E	FUND MMBR	REDE NEWD	7/9/2020 P 6/1/2021 P	7/8/2020 6/1/2021		

		_NORTH 2	MD_EAST PERMIT_NU	M LOCAL_BMP_ID	BMP_NAME	BMP_CLASS BMP_TYPE	CON_PURPOSE	LAST_INSP_DATE		REINSP_DATE RE	EINSP_STATUS 6	GEN_COMMENTS
UMCP20BMP0271	2023	144514.55		16-SF-0261	College Park Academy Micro-Bioretention 5	E MMBR	NEWD	6/1/2021				
UMCP20BMP0272	2023	144421.94		16-SF-0261	College Park Academy Submerged Gravel Wetlan	E MSGW	NEWD	6/1/2021				
UMCP20BMP0273	2023	144926.11	406544.69 13-SF_5501		NOAA Green Roof 1	E AGRE	NEWD	7/15/2021				
UMCP20BMP0274	2023	144886.19	406587.24 13-SF_5501		NOAA Bioretention	S FBIO	NEWD	4/30/2021				
UMCP20BMP0275	2023	144912.28	406484.39 13-SF_5501		NOAA Green Roof 2	E AGRE	NEWD	7/15/2021	P 7/15/2021			Pretreatment for BMP UMCP20BMP0277
UMCP20BMP0276	2023	144820.74			NOAA WQ Manhole 1	S COGS	NEWD	4/30/2021				retreatment for BMP UMCP2UBMPU277
UMCP20BMP0277 UMCP20BMP0278	2023	144818.31	406568.70 13-SF_5501		NOAA Underground Cistern NOAA WO Manhole 2	E MRWH S COGS	NEWD NEWD	6/17/2021	P 6/17/2021 P 4/30/2021			Pretreatment
UMCP20BMP0278	2023		406600.31 13-SF_5501				NEWD	4/30/2021				Pretreatment
	2023	144761.27	406630.26 13-SF_5501		NOAA WQ Manhole 3	S COGS		4/30/2021	P 4/30/2021			retreatment
UMCP20BMP0280	2023	147734.94	406718.21 13-SF_5501		Severn Building Micro-Bioretention Area	E MMBR	REDE	6/1/2021	r			Pretreatment for UMCP19BMP0066. Listed as failing until
												inspection
UMCP20BMP0281	2023	148600.46	404970.95 13-SF 5501	04-SF-0066	Greenmeade North Stormceptor	s cogs	NEWD	4/26/2022	P 4/26/2022		l"	Tispection .
UMCP20BMP0282	2023	146792.93		11-SF-0184	Presidents House Disconnect 2-2	E NDNR	NEWD	4/8/2020				
UMCP20BMP0285	2023	146737.23	404002.00 13-SF 5501	11-SF-0184	Presidents House Disconnect 2-5	E NDNR	NEWD	4/8/2020				
UMCP20BMP0286	2023	146767.31	404060.33 13-SF 5501	11-SF-0184	Presidents House Disconnect 2-3	E NDNR	NEWD	4/8/2020	P 4/8/2020			
UMCP20BMP0287	2023	146776.13	404048.53 13-SF 5501	11-SF-0184	Presidents House Disconnect 2-4	E NDNR	NEWD	4/8/2020				
LIMCP20BMP0288	2023	148038.42		11 5/ 0104		A IMPP	REST	4/0/2020	P 47072020			
UMCP20BMP0289	2023	147899.26				A IMPP	REST		E			
UMCP20BMP0290	2023	147441.85		18-SF-0204	Campus Creek Regenerative Step Pool Conveyan		REST	7/1/2022	P 6/8/2020			
UMCP20BMP0291	2023	147345.11		18-SF-0204	Campus Creek Stormwater Bar	A OUT	REST	7/1/2022				
UMCP21BMP0292	2023	146766.15	404978.00 13-SF 5501	16-SF-0061	Cole Field House Green Roof 1	E AGRI	REDE	10/1/2021	P 10/1/2021			
UMCP21BMP0293	2023	146766.74	404556.07 13-SE 5501	16-SF-0061	Cole Field House Green Roof 2	F AGRI	REDE	9/26/2023				
UMCP21BMP0294	2023	146672.41	404557.39 13-SF 5501	16-SF-0061	Cole Field House Green Roof 3	E AGRI	REDE	9/26/2023	,,,,			
UMCP21BMP0294	2023	146626.26	404537.39 13-3F_5501 404516.83 13-SF 5501	16-SF-0061	Cole Field House Green Roof 4	E AGRI	REDE	5/3/2022				
UMCP21BMP0295	2023	147957.18	404955.17 13-SF 5501	10 51 5001	Wooded Hillock Impervious Removal 3	A IMPP	REST	3/3/2022	P 4/20/2022			
UMCP21BMP0297	2023	147940.09	404868.38 13-SF_5501			A IMPP	REST		P			
UMCP21BMP0297 UMCP21BMP0298	2023	147868 97	404758.74 13-SF 5501	_		A IMPP	REST		P			
UMCP21BMP0299	2023	147959.30	405348.54 13-SF_5501	+	4103 Metzerott Rd Impervious Removal	A IMPP	REST		P		+	
UMCP21BMP0300	2023	146705.18	404486.51 13-SF 5501	16-SF-0061	Cole Field House Impervious Surface Removal		REST		P			
UMCP22BMP0301	2023	146933.90		19-SF-0162	Idea Factory Micro-Bioretention 4	F MMBR	REDE	6/6/2023	P 6/6/2023			
UMCP22BMP0302	2023	146935.90	405335.62 13-SF 5501	19-SF-0162	Idea Factory Micro-Bioretention 4	E MMBR	REDE	6/6/2023				
UMCP22BMP0303	2023	146926.84		19-SF-0162	Idea Factory Micro-Bioretention 2	E MMBR	REDE	6/6/2023				
UMCP22BMP0304	2023	146926.96		19-SF-0162	Idea Factory Micro-Bioretention 3	E MMBR	REDE	6/6/2023				
UMCP22BMP0306	2023	147032.46	404673.48 13-SF 5501	19-SF-0094	Johnson-Whittle Hall Micro-Bioretention 7A	E MMBR	NEWD	5/31/2023				
UMCP22BMP0307	2023	147032.40	404708.23 13-SF_5501	19-SF-0094	Johnson-Whittle Hall Micro-Bioretention 6A	F MMRR	NEWD	5/31/2023				
UMCP22BMP0308	2023	147048.00	404708.00 13-SF_5501	19-SF-0094	Johnson-Whittle Hall Micro-Bioretention 5A	E MMBR	NEWD	5/31/2023				
UMCP22BMP0309	2023	147059.96	404708.57 13-SF 5501	19-SF-0094	Johnson-Whittle Hall Micro-Bioretention 5	E MMBR	NEWD	5/31/2023				
UMCP22BMP0310	2023	147023.03	404713.64 13-SF 5501	19-SF-0094	Johnson-Whittle Hall Micro-Bioretention 6	E MMBR	NEWD	5/31/2023				
UMCP22BMP0311	2023	146994.15	404714.90 13-SF_5501	19-SF-0094	Johnson-Whittle Hall Micro-Bioretention 8	E MMBR	NEWD	5/31/2023				
UMCP22BMP0312	2023	146994.04	404735.27 13-SF 5501	19-SF-0094	Johnson-Whittle Hall Micro-Bioretention 8A	F MMRR	NEWD	5/31/2023				
UMCP22BMP0313	2023	147121.00	404821.44 13-SF_5501	19-SF-0094	Pyon-Chen Hall Micro-Bioretention 9	E MMBR	NEWD	5/31/2023				
UMCP22BMP0314	2023	147092.91	404788.29 13-SF 5501	19-SF-0094	Pyon-Chen Hall Micro-Bioretention 3A	E MMBR	NEWD	5/31/2023				
UMCP22BMP0315	2023	147099.65		19-SF-0094	Pyon-Chen Hall Micro-Bioretention 3	E MMBR	NEWD	5/31/2023				
UMCP22BMP0316	2023	147076.90	404778.40 13-5F 5501	19-SF-0094	Pyon-Chen Hall Micro-Bioretention 4	E MMBR	NEWD	5/31/2023				
UMCP22BMP0317	2023	147092.91	404749.25 13-SF_5501	19-SF-0094	Pyon-Chen Hall Micro-Bioretention 2	F MMBR	NEWD	5/31/2023				
UMCP22BMP0318	2023	147091.79	404719.75 13-SF_5501	19-SF-0094	Pyon-Chen Hall Micro-Bioretention 1	F MMBR	NEWD	5/31/2023				
UMCP22BMP0319	2023	147127.18	404793.63 13-SF 5501	19-SF-0094	Pyon-Chen Hall Non-Rooftop Disconnect 1	E NDNR	NEWD	5/31/2023				
UMCP22BMP0320	2023	147034.19	404662.09 13-SF 5501	19-SF-0094	Johnson-Whittle Hall Micro-Bioretention 7	F MMBR	NEWD	5/31/2023	.,.,.			
UMCP22BMP0321	2023	146340.64	405239.55 13-SF 5501	19-SF-0062	Thurgood Marshall School of Public Policy Micro-		REDE	6/2/2023				
UMCP22BMP0322	2023	146385.29		19-SF-0062	Thurgood Marshall School of Public Policy Micro-		REDE	6/2/2023				
UMCP22BMP0323	2023	146347.72	405349.05 13-SF_5501	19-SF-0062	Thurgood Marshall School of Public Policy Micro-	E MMBR	REDE	6/2/2023	F 6/2/2023			
UMCP22BMP0324	2023	146330.59	405364.37 13-SF_5501	19-SF-0062	Thurgood Marshall School of Public Policy Non-R		REDE	6/2/2023				
UMCP23BMP0325	2023	147494.22	404890.39 13-SF-5501	11-SF-0139	Heavy Equipment Dry Well	F MIDW	REDE	2/16/2023				
UMCP23BMP0326	2023	146581.24	404216.11 13-SF_5501	17-SF-0191	Throwing Event Relocation Bio-Swale	E MSWB	NEWD	2, 23, 2323	E			Listed as failing until final construction & inspection
UMCP23BMP0327	2023	146591.71	404280.48 13-SF 5501	17-SF-0191	Throwing Event Relocation Non-Rooftop Disconn		NEWD		F			Listed as failing until final construction & inspection
UMCP23BMP0328	2023	147395.18	405446.70 13-SF-5501	22-SF-0016	UMCP Field Hockey & Lacrosse Complex	E MMBR	REDE		F			Listed as failing until final construction & inspection
UMCP23BMP0329	2023	146865.77	405274.92 13-SF-5501	20-SF-0184	Chemistry Wing 1 Micro-bioretention	E MMBR	REDE		F			Listed as failing until final construction & inspection
UMCP23BMP0330	2023	146905.39	405288.65 13-SF-5501	20-SF-0184	Chemistry Wing 1 Non-rooftop Disconnection 1A		REDE		F			Listed as failing until final construction & inspection
UMCP23BMP0331	2023	146888.61	405305.04 13-SF-5501	20-SF-0184	Chemistry Wing 1 Non-rooftop Disconnection 1B	E NDNR	REDE		F			Listed as failing until final construction & inspection
USG19BMP00003	2023	158508.02		02-SF-0033	Infiltration Trench 1 at IBBR	S ITRN	NEWD	6/21/2022	P 11/1/2020			
USG19BMP00004	2023	158453.82	382793.55 13-SF_5501	02-SF-0033	IBBR Outfall Stabilization	A OUT	NEWD	6/17/2022	P 6/17/2022			
USG19BMP00005	2023	158419.50	382716.02 13-SF 5501	02-SF-0033	Infiltration Trench 2 at IBBR	S ITRN	NEWD	6/21/2022				
USG19BMP00006	2023	158380.25	382711.80 13-SF_5501	02-SF-0033	Infiltration Trench 3 at IBBR	S ITRN	NEWD	6/21/2022				
USG19BMP00007	2023	158338.60	382749.67 13-SF_5501	22-SF-0016	IBBR Pond	S PWET	NEWD	6/16/2023	P 6/16/2023		-	
USG19BMP00042	2023	158281.34	382830.74 13-SF 5501	16-SF-0044	IBBR Non-Rooftop Disconnect	E NDNR	NEWD	6/21/2022				
							20000	-,,	5,2-,2022			
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1						"						
Note: The following tem	nplate is based on recei	nt MD Phase	e II NPDES data reporting ren	uirements. Definition	ns of each column and data elements can be for	and in the three descriptions sheets.						
			elp display the new structure		The second control of the second control of							
											+	
1 Every RMP Identified in	in this table should mat	tch RMP ID	data entered in either "Table	R1 h FSD STRUCTU	RAL" sheet or "Table B.1.c. Alternative" sheet							
												
	are geographic points u	used to locat	e BMPs, Maryland requires u	ising State Plane NAD	83 meters for geographic location. You can use	Geographic Information Systems (GI	 or other computer programs to pr 	ovide these				
coordinates.												
Questions on Maryland :	specific stormwater de	esign? Follov	w the link below.									
irik to ivlaryland's Stormwati	ter Design Manual											

No. Company	Table B.1.b.	Reporting	Requirem	ents for ESD a	nd Structur	al Practices					
AMERICANNOS 0.0 Sep			tructural BMPs i	s populated in this table	₽.						
MATERIANS 19 19 19 19 19 19 19 1		NUM_BMPS ²	ON_OFF_SITE	CONVERTED_FROM	BMP_STATUS	BMP_DRAIN_AREA	IMP_ACRES ³	PE_ADR	APPR_DATE	BUILT_DATE	GEN_COMMENTS
MACCOMMUNICATION 1.00	UMCP19BMP0002	1	On Site		Active	6.95	3.52	0	8/10/1995	3/26/1998	
March Marc	LINACDA ODNADOGOF		0-54-		A -41:	22.00	40.04		C /4 C /2002	F (0 (200F	
Section Sect	OINICL13RML0002	1	. On Site		Active	23.88	10.91	1	6/16/2003	5/9/2005	IA; 2 ac allocated to UMGC
MINESTERMONT 0 15 1	UMCP19BMP0010	1	On Site		Active	8.7	2.7	0	2/15/1991	4/1/1994	Laboratory for Physical Science wet pond
MICHIGAN 1975 197											CSPAC Shallow Marsh Wetland. Retrofit
MATERIANNICO 0.0 bits		1									
MATERIANNESS D. S. Sie		1									
MORPHONNON D. 10		1									
MATERIAN 1975 197		1									
CONTENTION 1 0.05		1						0.29			
MOST MARCH		1	On Site		Active	0.05	0.05	1	2/18/2011	10/12/2012	BLS Heavy Equipment
10.5000000001		1									
INCESTRATIONS 1		1									
LICESPARANDOS 0 to 16		1									
MACPS MARCH MARC		1									
INCEPTIONNESSONS 10 to fair	OIVICI 13BIVII 0023		On Site		Active	1.42	0.72		12/30/1033	10/20/2017	5W1 25/12 0
MATP PROMPTON 10 15 10 10	UMCP19BMP0024	1	On Site		Active	9.58	3.85	1	10/4/2000	9/11/2001	Terrapin Trail Garage retention pond
MATERIANNON On Sile	UMCP19BMP0026	1	On Site		Active	2.82	2.23	0.77	9/29/2010		
MACPS 10 10 10 10 10 10 10 1	UMCP19BMP0027	1	On Site		Active	0.32	0.32			5/9/2005	Lot PP2 bioretention/PE 1
MACP-988000003		1									
MACC-288AMPOSIS Do Sile		1									
10 10 10 10 10 10 10 10	UMCP19BMP0035	1	Un Site		active	0.41	0.2	1	9/1/2011	8/15/2012	University House
10 10 10 10 10 10 10 10	UMCP19RMP0036	1	On Site		Active	2 11	1 50	1	12/30/1899	3/29/2011	Lot Three - Guilford Park Rioretention
LIACY STANDARDSON		1									
MAPPS		1									
MACP198M09003	UMCP19BMP0041	1	On Site			0.38	0.09	1	9/2/2011	8/16/2012	University House
MACPS Active 0.05 0.050 1.12/02/1989 27/02/200 phromos stell		1									
MACP 1889/00037		1									
UNCF1980MP008		1									
UNCF198MP0006		1									
MACP MACP		1									
MACP BIRANFOOSS 1		1									
MACPS 10 mSte	011101 1351111 0030	-	On Site		710070	0.13	0.13	_	7/11/2000	3/30/2000	cambenana
UNCPSBMP0095	UMCP19BMP0055	1	On Site		Active	0.17	0.09	1.15	2/18/2011	10/12/2012	Heavy Equipment Building bioretention
MACP198MP00056		1						1			
UNCP 1984/00066 1 0 n Site		1									
UNCP 1984/00036 1 On Site		1									
MACP198MP00000		1									
MICE) 1		1									
MACP198MP0072		1									
UNCPT98NP0075		1									
MACP198MP0076	UMCP19BMP0074	1				0.02	0.02				
MACP198MP0077 1	UMCP19BMP0075	1	On Site		Active	0.02	0.01	0	3/20/2012	11/30/2012	Denton permeable pavements/PE 1
MACP198MP0077 1	UMCP19BMP0076	1	On Site		Active	1.1	0.62	0.12	10/24/2012	5/8/2013	
MACP198MP0078								_			
MCP198MP0099 1		1									
UNCP198MP0019	UIVICP19BIVIPUU78	1	Off Site		Active	0.2	0.2	1.2	4/3/2009	12/1/2013	
UNKCP198MM0080	UMCP19BMP0079	1	On Site		Active	0.01	0.01	1	12/30/1899	3/9/2009	
UMCP198MP0082 1 On Site		1									
UMCP198MP0082 1 On Site											
UMCP198MP0088		1									
UMCP198MP0086	UMCP19BMP0082	1	On Site		Active	0.45	0.43	0.91	1/22/2008	3/27/2010	Knight Hall
UMCP198MP0086	LINACDA ODNADOGO		O- Cit-		A -41:	0.05	0.05		42/20/4000	44/20/2042	D
UMCP198MP0086											
UMCP198MP0088		1									
UMCP19BMP0099		1									
UMCP19BMP0091	UMCP19BMP0089					32.84	1.07	0	10/10/1972	1/1/1979	Golf course lower wet pond/PE 0
UMCP19BMP0091]				
UMCP19BMP0092											
UMCP19BMP0093		1									
UMCP198MP0094		1									
UMCP19BMP0109	c. 1501VII 0033		55.10			0.45	0.54	U	1/1/2003	3,3,2003	
UMCP19BMP01098	UMCP19BMP0094	1	On Site		Active	0.27	0.17	0	7/1/2003	5/9/2005	Paint Branch Drive bioretention/PE 1
UMCP19BMP0107		1	On Site		Active	3.91	3.59		7/20/1994	12/1/2013	Artificial Turf Field swale
UMCP19BMP0108		1									
Mode Matter Mat		1									
UMCP19BMP0129 1 On Site	UMCP19BMP0108	1	Un Site		Active	3.9	0.56	0.47	1/1/2001	3/31/2002	
UMCP19BMP0122 1 On Site Active 0.25 0.1 1.03 3/20/2012 11/20/2012 Denton Courtyard bioretention Cell UMCP19BMP0124 1 On Site Active 0.23 0.17 0.8 10/5/2012 7/28/2014 Prince Frederick Hall Bioretention Cell UMCP19BMP0125 1 On Site Active 0.46 0.3 1.36 10/5/2012 7/28/2014 Prince Frederick Hall Bioretention Cell UMCP19BMP0125 1 On Site Active 0.46 0.3 1.36 10/5/2012 7/28/2014 Prince Frederick Hall Bioretention Cell UMCP19BMP0127 1 On Site Active 0.41 0.14 0 12/30/1899 3/14/2000 Paint Branch Dr & Rossborough Ln/PE UMCP19BMP0128 1 On Site Active 3.14 0.84 0 12/30/1899 12/10/13 bioretention/PE 0 UMCP19BMP0129 1 On Site Active 0.06 0.04 0 12/30/1899 12/30/1899 Reckord Armory/PE 1 UMCP19BMP0130 1 On Site Active 0.04 0.04 0 12/30/1899 12/30/1899 pavements/ PE 1 UMCP19BMP0130 1 On Site Active 0.06 0.02 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0133 1 On Site Removed 0.07 0.05 0 3/3/2004 5/9/2005 Kim Plaza/PE 0	IIMCD19RMD0109	1	On Site		Active	7.49	1 32	0.5	12/30/1899	1/1/1988	
UMCP19BMP0122 1 On Site	OCI IJDIVIFUIUJ		On Site		,	7.49	1.52	0.5	12/30/1033	4/4/1300	pone
UMCP19BMP0122 1 On Site	UMCP19BMP0112	1	On Site		Active	1.48	1.2	0	4/13/1998		
UMCP19BMP0124 1 On Site Active 0.23 0.17 0.8 10/5/2012 7/28/2014 Prince Frederick Hall Bioretention Cell UMCP19BMP0125 1 On Site Active 0.46 0.3 1.36 10/5/2012 7/28/2014 Prince Frederick Hall Bioretention Cell UMCP19BMP0127 1 On Site Active 0.41 0.14 0 12/30/1899 3/14/2000 Paint Branch Dr & Rossborough Ln/PE UMCP19BMP0128 1 On Site Active 3.14 0.84 0 12/30/1899 12/1/2013 bioretention/PE 0 UMCP19BMP0129 1 On Site Active 0.06 0.04 0 12/30/1899 12/30/1899 Reckord Armory/PE 1 UMCP19BMP0130 1 On Site Active 0.04 0.04 0 12/30/1899 12/30/1899 Reckord Armory/PE 1 UMCP19BMP0130 1 On Site Active 0.04 0.04 0.04 0 12/30/1899 12/30/1899 pavements/ PE 1 UMCP19BMP0130 1 On Site Removed 0.06 0.02 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 0.05 0 3/3/2004 5/9/2005 Kim Plaza/PE 0								1.03			
UMCP19BMP0125 1 On Site			L				1				
UMCP19BMP0127 1 On Site Active 0.41 0.14 0 12/30/1899 3/14/2000 Paint Branch Dr & Rossborough Ln/PE Pa	UMCP19BMP0124	1	On Site		Active	0.23	0.17	0.8	10/5/2012	7/28/2014	Prince Frederick Hall Bioretention Cell 1
UMCP19BMP0127 1 On Site Active 0.41 0.14 0 12/30/1899 3/14/2000 Paint Branch Dr & Rossborough Ln/PE Pa	IIMCP19RMD012E	4	On Site		Active	0.46	0.3	1 26	10/5/2012	7/20/2014	Prince Frederick Hall Biorgtontion Coll 3
Paint Branch Dr & Rossborough Ln UMCP19BMP0128 1 On Site Active 3.14 0.84 0 12/30/1899 12/1/2013 bioretention/PE 0 UMCP19BMP0129 1 On Site Active 0.06 0.04 0 12/30/1899 12/30/1899 Rekord Armory/PE 1 Kirwan Hall fountain permeable UMCP19BMP0130 1 On Site Active 0.04 0.04 0 12/30/1899 12/30/1899 pavements/ PE 1 UMCP19BMP0133 1 On Site Removed 0.06 0.02 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 0.05 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 0.05 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 0.05 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 0.05 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 0.05 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 0.05 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 0.05 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 0.05 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 0.05 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 0.05 0.07 0.05 0 0.07 0.05	OIVICE 13DIVIPU123	1	JII JILE		nelive	0.46	0.3	1.36	10/5/2012	//28/2014	Time Frederick Hall bioletention Cell 2
Paint Branch Dr & Rossborough Ln UMCP19BMP0128 1 On Site Active 3.14 0.84 0 12/30/1899 12/1/2013 bioretention/PE 0 UMCP19BMP0129 1 On Site Active 0.06 0.04 0 12/30/1899 12/30/1899 Rekord Armory/PE 1 Kirwan Hall fountain permeable UMCP19BMP0130 1 On Site Active 0.04 0.04 0 12/30/1899 12/30/1899 pavements/ PE 1 UMCP19BMP0133 1 On Site Removed 0.06 0.02 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 0.05 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 0.05 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 0.05 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 0.05 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 0.05 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 0.05 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 0.05 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 0.05 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 0.05 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 0.05 0.07 0.05 0 0.07 0.05	UMCP19BMP0127	1	On Site		Active	0.41	0.14	0	12/30/1899	3/14/2000	Paint Branch Dr & Rossborough Ln/PF 1
UMCP19BMP0128						,,,,					
MICP19BMP0130 1 On Site Active 0.04 0.04 0 12/30/1899 12											bioretention/PE 0
UMCP19BMP0130 1 On Site Active 0.04 0.04 or 12/30/1899 12/30/1899 12/30/1899 pavements/ PE 1 UMCP19BMP0133 1 On Site Removed 0.06 0.02 or 3/3/2004 5/9/2005 km Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 or 0.05 or 0.3/3/2004 5/9/2005 km Plaza/PE 0	UMCP19BMP0129	1	On Site		Active	0.06	0.04	0	12/30/1899	12/30/1899	
UMCP19BMP0133 1 On Site Removed 0.06 0.02 0 3/3/2004 5/9/2005 Kim Plaza/PE 0 UMCP19BMP0134 1 On Site Removed 0.07 0.05 0 3/3/2004 5/9/2005 Kim Plaza/PE 0	LIMCD1004400100		On Sit-		Antivo			_	12/20/4000	12/20/4000	
UMCP19BMP0134 1 On Site Removed 0.07 0.05 0 3/3/2004 5/9/2005 Kim Plaza/PE 0											
		1							-,-,		
NAME	UMCP19BMP0134 UMCP19BMP0135	1	On Site		Removed	0.07	0.05				

UMCP198MP0136 1 On Site Removed 0.05 0.04 0 3/3/2004 5/9/2005 Kim Plaza/PE 0	1	3 1		00111150555 50011	01.10 OT.171.10		2	85 188			0.00
Company				CONVERTED_FROM	_		TIVIT _7 TOTTES	_	_		GEN_COMMENTS
SCOPERSONS 1985											
March Marc					Removed						
CONTINUES 1,00 10 10 10 10 10 10					Removed						
SOCIEDINGS SOCIED SOCID SOCIED SOCIED SOCIED SOCIED SOCIED SOCIED SOCIED	UMCP19BMP0139	1 (On Site		Removed		0.13		.,.,	5/9/2005	Kim Plaza/PE 0
CONTRIBUTED Control	UMCP19BMP0140	1	On Site		Removed	0.05	0.04	0	3/3/2004	5/9/2005	Kim Plaza/PE 0
Dec-2015-10-10-10-10-10-10-10-10-10-10-10-10-10-	UMCP19BMP0141	1 (On Site		Removed	0.04	0.02	0	3/3/2004	5/9/2005	Kim Plaza/PE 0
Annual	UMCP19BMP0142	1	On Site		Active	0.17	0.1	1	3/3/2004	5/9/2005	Kim Plaza
Annual											
MONTH PROMOTED 10 to	UMCP19BMP0143	1	On Site		Active	0.04	0.04	1	12/30/1899	5/29/2009	Central Animal Resources Facility & ENST
Marie											North East corner of golf course parking
ACCESSMONES 0.5 Per	UMCP19BMP0144	1	On Site		Active	1.25	1.14	0	12/30/1899	12/19/2016	lot rain gardens
March Marc											North west corner of golf course parking
Accordance	UMCP19BMP0146	1	On Site		Active	0.47	0.37	1	12/30/1899	12/19/2016	lot rain garden
APPENDENCY J. S. S. S. AND A											South west corner of golf course parking
Metaphone Meta	UMCP19BMP0147	1	On Site		Active	0.37	0.22	0	12/30/1899	12/19/2016	lot rain garden/PE 1
June June	UMCP19BMP0149	1 (On Site		Active	8.11	5.56	0	7/20/2015	1/11/2016	PE 0
June June	UMCP19BMP0150	1 (On Site		Active	0.16	0.16	0	9/26/2014	10/26/2017	PE 0
MONTH MARCH MARC											
MONTH 1985											
MATERIANNESS 10 50 50 50 50 50 50 50											
JOSEPH 1985											
SCHOOLSTONE See											
December December									-, -, -		
DECEMBRATED December Decemb											
SCHEMBERGED Sept.											
MOCFEMBRADIS 0											
SIGNEY SAMPRING		1 (On Site		Active	0.4	0.21	1		6/3/2011	Oakland Hall Sandfilter
MACP 1999					Active	0					
MACP MACP	UMCP19BMP0163	1	On Site		Active	0	0	0		1/1/1998	Severn Stormceptor
MAPPINSMERIES	UMCP19BMP0164				Active	0	0	0	4/29/1996	1/1/1998	Severn Stormceptor
MACPS March						0					
JAMPS Abres D						n					
JACY 1988/07/1985						Ü			, .,		
JUNCYSEMPOND 1 0 556								-			
MACP MACP											
MADPS MARCH						0					•
MATESTAND 10 SEE						0					
MOD-1988/09/23						0					
MADE MATER 10 Stee									, ,		
MOCPORNING[25]	UMCP19BMP0231	1	On Site		Active	0.33	0.27	1.96	9/18/2015	10/26/2017	A. James Clark Hall
MACP 1988/00235	UMCP19BMP0232	1 (On Site		Active	0.3	0.21	2.6	9/18/2015	10/26/2017	A. James Clark Hall
Motors Motor Mot	UMCP19BMP0235	1 (On Site		Active	208.28	7.25	0	10/10/1972	1/1/1979	Upper golf course wet pond/PE 0
Motors Motor Mot	UMCP19BMP0236	1 (On Site		Active	0.28	0.27	0	12/30/1899	9/11/2001	SWFSCA1/PE 0
MODE) Mode Mode 1.28											
JUNCY 998MPG239											
MICHOSPARMINOZAD											
UNCPTSBMP0242									-, -, -		
UNCP-298MP0243											
MACPS 10 n Site Active 0.76 0.15 1 \$10,0056 \$67,7039 Beredam rice 3 UNICY 5980H07045 10 n Site Active 0.14 0.12 2 5,107,0056 \$67,7039 Beredam rice 4 UNICY 5980H07045 10 n Site Active 0.15 0.15 0.15 17 \$110,0056 \$67,7039 Beredam rice 5 UNICY 5980H07045 10 n Site Active 0.15 0.15 0.15 0.15 17 \$110,0056 \$77,0059 Beredam rice 5 UNICY 5980H07037 10 n Site Active 0.15 0.10 0.10 \$17,71992 \$47,71999 Cannot focate \$10,000 \$17,71992 \$47,71999 Cannot focate \$10,000 \$10,000 \$17,71992 \$47,71999 Cannot focate \$10,000 \$10,000 \$17,71992 \$47,71999 Cannot focate \$10,000 \$10,000 \$10,000 \$17,71992 \$47,71999 Cannot focate \$10,000											
MICHEST 1											
MICHOPS 10 ns Active 0.12 0.17 5/10/2016 Ferdam into \$											
JUNCY-2084M070248					Active						
UNCCY28MW0251	UMCP19BMP0245	1	On Site		Active	0.12	0.12	1.7	5/10/2016	6/7/2019	Brendan Iribe 5
JUNCPOBMENDISCS 1 On Site	UMCP19BMP0248	1 (On Site		Active	0.15	0.15	0	6/3/2015	1/10/2018	Service Building Bioretention/PE 1
JUNCP 2008/W00255	UMCP20BMP0251	1	On Site		Active	0	0	0	3/12/1992	4/1/1994	Cannot locate
UMCP 2084M07035 1	UMCP20BMP0252	1 (On Site		Active	0.22	0.21	0	3/12/1992	4/1/1994	
JUNCP208MR0255 1											
JUNCP 2008MP0255											PE O
UMCP 2004MP0257											
JUNCP 2008 1 On Site											
JUNCF208MP0256											
JUNCY20BMP02561											
JUNCP20BMP0256											
JUNCP20BMP0266											
UMCP20BMP0266											
UMCP20BMP0267						1.99					PE 0.58
UMCP20BMP0268						0.12		0.73	0/25/2002		
UMCP20BMP0279					Active			1			
UMCP20BMP0270	UMCP20BMP0268	1 (On Site		Active	0.36	0.27	1	8/15/2016	2/1/2018	
UMCP20BMP0270	UMCP20BMP0269	1 (On Site		Active	0.44	0.35	1	8/15/2016	2/1/2018	
UMCP20BMP0273						0.41		1			
UMCP20BMP0273											
UMCP20BMP0273											
UMCP20BMP0275								1			
UMCP20BMP0275								0			PF 0 92
UMCP20BMP0277											1 - 0.54
UMCP20BMP0277 1 0 n Site											
UMCP20BMP0278											
UMCP20BMP0289											
UMCP20BMP0280											
UMCP20BMP0281											
UMCP20BMP0282											
UMCP20BMP0285 1 On Site											Pretreatment for UMCP20BMP0065
UMCP22BMP0286	UMCP20BMP0282	1 (On Site		Active	0.02	0.02	1	10/19/2011	8/16/2012	
UMCP22BMP0286	UMCP20BMP0285	1 (On Site		Active	0.02	0.02	1	10/19/2011	8/16/2012	
UMCP218MP0287								1			
UMCP218MP0292 1 On Site								1			
UMCP218MP0293								1			
UMCP21BMP0294 1 On Site Active 0.37 0.37 1 7/21/2017 5/1/2021 UMCP21BMP0295 1 On Site Active 0.86 0.86 1 7/21/2017 5/1/2021 UMCP22BMP0301 1 On Site Active 0.3 0.12 2.47 4/30/2021 9/14/2021 UMCP22BMP0302 1 On Site Active 0.18 0.16 1.34 4/30/2021 9/14/2021 UMCP22BMP0303 1 On Site Active 0.14 0.13 1.83 4/30/2021 9/14/2021 UMCP22BMP0304 1 On Site Active 0.07 0.06 2.31 4/30/2021 9/14/2021 UMCP22BMP0306 1 On Site Active 0.39 0.25 1 3/19/2021 3/15/2022 UMCP22BMP0307 1 On Site Active 0.56 0.37 1 3/19/2021 3/15/2022 UMCP22BMP0308 1 On Site Active 0.49 0.4 1 3/19/2021 3/15/2022 UMCP22BMP0309 1 On Site Active 0.52<											
UMCP22BMP0301											
UMCP228MP0301 1 On Site											
UMCP22BMP0302 1 On Site Active 0.18 0.16 1.34 4/30/2021 9/14/2021 UMCP22BMP0303 1 On Site Active 0.14 0.13 1.83 4/30/2021 9/14/2021 UMCP22BMP0304 1 On Site Active 0.07 0.06 2.31 4/30/2021 9/14/2021 UMCP22BMP0306 1 On Site Active 0.39 0.25 1 3/19/2021 3/15/2022 UMCP22BMP0307 1 On Site Active 0.56 0.37 1 3/19/2021 3/15/2022 UMCP22BMP0308 1 On Site Active 0.49 0.4 1 3/19/2021 3/15/2022 UMCP22BMP0309 1 On Site Active 0.39 0.19 1 3/19/2021 3/15/2022 UMCP22BMP0310 1 On Site Active 0.52 0.43 1 3/19/2021 3/15/2022 UMCP22BMP0311 1 On Site Active 0.52 0.43 1 3/19/2021 3/15/2022											
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UMCP228MP0306 1 On Site Active 0.39 0.25 1 3/19/2021 3/15/2022 UMCP228MP0307 1 On Site Active 0.56 0.37 1 3/19/2021 3/15/2022 UMCP228MP0308 1 On Site Active 0.49 0.4 1 3/19/2021 3/15/2022 UMCP228MP0309 1 On Site Active 0.39 0.19 1 3/19/2021 3/15/2022 UMCP228MP0310 1 On Site Active 0.52 0.43 1 3/19/2021 3/15/2022 UMCP228MP0311 1 On Site Active 0.28 0.19 1 3/19/2021 3/15/2022		1	On Site		Active		0.13				
UMCP228MP0306 1 On Site Active 0.39 0.25 1 3/19/2021 3/15/2022 UMCP228MP0307 1 On Site Active 0.56 0.37 1 3/19/2021 3/15/2022 UMCP228MP0308 1 On Site Active 0.49 0.4 1 3/19/2021 3/15/2022 UMCP228MP0309 1 On Site Active 0.39 0.19 1 3/19/2021 3/15/2022 UMCP228MP0310 1 On Site Active 0.52 0.43 1 3/19/2021 3/15/2022 UMCP228MP0311 1 On Site Active 0.28 0.19 1 3/19/2021 3/15/2022	UMCP22BMP0304	1 (On Site		Active	0.07	0.06	2.31	4/30/2021	9/14/2021	
UMCP22BMP0307 1 On Site Active 0.56 0.37 1 3/19/2021 3/15/2022 UMCP22BMP0308 1 On Site Active 0.49 0.4 1 3/19/2021 3/15/2022 UMCP22BMP0309 1 On Site Active 0.39 0.19 1 3/19/2021 3/15/2022 UMCP22BMP0310 1 On Site Active 0.52 0.43 1 3/19/2021 3/15/2022 UMCP22BMP0311 1 On Site Active 0.28 0.19 1 3/19/2021 3/15/2022											
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UMCP228MP0310 1 On Site Active 0.52 0.43 1 3/19/2021 3/15/2022 UMCP228MP0311 1 On Site Active 0.28 0.19 1 3/19/2021 3/15/2022											
UMCP228MP0311 1 On Site Active 0.28 0.19 1 3/19/2021 3/15/2022								1			
								1			
UMCP228MPU312 1 On Site Active 0.21 0.16 1 3/19/2021 3/15/2022											
	UMCP22BMP0312	1 (un Site		Active	0.21	0.16	1	3/19/2021	3/15/2022	

BMP ID1	NUM BMPS ²	ON_OFF_SITE	CONVERTED_FROM	BMP_STATUS	BMP_DRAIN_AREA	IMP ACRES ³	PE_ADR	APPR_DATE	BUILT_DATE	GEN_COMMENTS
UMCP22BMP0313		On Site		Active	0.21	0.12	1	3/19/2021	3/15/2022	
UMCP22BMP0314	1	On Site		Active	0.42	0.28	1	3/19/2021	3/15/2022	
UMCP22BMP0315	1	On Site		Active	0.2	0.11	1	3/19/2021	3/15/2022	
UMCP22BMP0316	1	On Site		Active	0.39	0.25	1	3/19/2021	3/15/2022	
UMCP22BMP0317	1	On Site		Active	0.27	0.14	1	3/19/2021	3/15/2022	
UMCP22BMP0318	1	On Site		Active	0.38	0.2	1	3/19/2021	3/15/2022	
UMCP22BMP0319	1	On Site		Active	0.02	0.02	1	3/19/2021	3/15/2022	
UMCP22BMP0320	1	On Site		Active	0.44	0.26	1	3/19/2021	3/15/2022	
UMCP22BMP0321	1	On Site		Active	0.33	0.12	2.32	4/2/2019	5/22/2023	
UMCP22BMP0322	1	On Site		Active	0.39	0.21	2.6	4/2/2019	5/22/2023	
UMCP22BMP0323	1	On Site		Active	0.47	0.39	0	4/2/2019	5/22/2023	Pe = 2.6"
UMCP22BMP0324	1	On Site		Active	0.04	0.04	1	4/2/2019	5/22/2023	
UMCP23BMP0325	1	On Site		Active	0.04	0.04	0	2/18/2011	10/12/2012	Pe = 1"
UMCP23BMP0326	1	On Site		Active	0.41	0.05	1	5/30/2018		
UMCP23BMP0327	1	On Site		Active	0.03	0.03	1	5/30/2018		
UMCP23BMP0328	1	On Site		Active	0.36	0.29	1.5	1/23/2023		0.4 ac NEWD; 0.25 ac REDE
UMCP23BMP0329	1	On Site		Active	0.41	0.37	1.15	1/26/2021		
UMCP23BMP0330	1	On Site		Active	0.02	0.02	1	1/26/2021		
UMCP23BMP0331	1	On Site		Active	0.02	0.02	1	1/26/2021		
USG19BMP00003	1	On Site		Active	0.28	0.14	0.5	12/4/2002	8/1/2006	
USG19BMP00005	1	On Site		Active	0.08	0.06	1	12/4/2002	8/1/2006	
USG19BMP00006	1	On Site		Active	0.59	0.48	0	12/4/2002	8/1/2006	PE 0.78
USG19BMP00007	1	On Site		Active	2.84	1.11	0	1/1/1980	1/1/1980	
USG19BMP00042	1	On Site		Active	0.03	0.03	1	4/1/2017	4/13/2018	

Toble P 1 c	Reporting Requirements for Alternat	uo PMDs										
		IVE DIVIPS										
More specific data r	More specific data related to alternative BMPs is populated in this table.											
BMP_ID	PROJECT_DESC	PROJECT_LENGTH	ACRES_SWEPT	TIMES_SWEPT	ACRES_PLANTED	IMP_ACR_ELIM	EQU_IMP_ACR	INSTALL_DATE	IMPL_COMP_YR	GEN_COMMENTS		
UMCP19BMP0249	Campus Creek Restoration	3039					105.8	10/10/2019				
UMCP19BMP0250	Campus Creek Regenerative Step Pool Conveyance 1						0.58	10/10/2019				
UMCP20BMP0288	Impervious Surface Removal to Pervious 4100 Metzerott Rd					0.222	0.167		2016			
UMCP20BMP0289	Impervious Surface Removal to Pervious 4109 Metzerott Rd					0.0375	0.028		2017			
UMCP20BMP0290	Campus Creek Regenerative Step Pool Conveyance 2						0.31	10/10/2019				
JMCP20BMP0291	Campus Creek Stormwater Bar						0.13	10/10/2019				
JMCP21BMP0296	Impervious Surface Removal to Pervious at Wooded Hillock					0.027	0.02		2020			
JMCP21BMP0297	Impervious Surface Removal to Pervious at Wooded Hillock					0.022	0.017		2020			
JMCP21BMP0298	Impervious Surface Removal to Pervious at Wooded Hillock					0.066	0.05		2020			
UMCP21BMP0299	Impervious Surface Removal to Pervious at 4103 Metzerott Rd					0.089	0.067		2021			
JMCP21BMP0300	Cole Field House Impervious Surface Removal	0	0	0	0	3.07	2.3		2021			
JSG19BMP00004	Outfall Stabilization	50					0.5	8/1/2006				