

Christopher Newport University (CNU)
MS-4 Permit: VAR040090
July 1, 2024 - June 30, 2025 Annual Report



Prepared for
Christopher Newport University
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Newport News, VA 23606

October 1, 2025

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Acronyms

BMP	Best Management Practice
CFA	Certified Fertilizer Applicator
CGP	Construction General Permit
CNU	Christopher Newport University
DCR	Virginia Department of Conservation and Recreation
DEQ	Virginia Department of Environmental Quality
ESC	Erosion and Sediment Control
FOG	Fats, Oils, and Greases
HUC	Hydrologic Unit Code
IDDE	Illicit Discharge Detection and Elimination
LDA	Land Disturbing Activity
MCM	Minimum Control Measure
MEP	Maximum Extent Practicable
MS4	Municipal Separate Storm Sewer System
N	Nitrogen
NMP	Nutrient Management Plan
NPDES	National Pollutant Discharge Elimination System
P	Phosphorus
PCB	Polychlorinated biphenyls
POC	Pollutant of Concern
S&S	Standards and Specifications
SIP	Stormwater Improvement Project
SOP	Standard Operating Procedure
SWM	Stormwater Management
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
TSS	Total Suspended Solids
VDACS	Virginia Department of Agriculture and Consumer Services
VPDES	Virginia Pollutant Discharge Elimination System
VSMP	Virginia Stormwater Management Program
WLA	Waste Load Allocation

Section 1 Certification Statement and Requirements

As required by 9VAC25-890-40 IV. K, all reports required by state permits, including annual reports, and other information requested by the department shall be signed by a person described below:

1. For a corporation: by a responsible corporate officer. For the purpose of this chapter, a responsible corporate officer means: (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy-making or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for state permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
2. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
3. For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this chapter, a principal executive officer of a public agency includes:
 - (a) The chief executive officer of the agency, or
 - (b) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

Duly Authorized Representatives

A person is a duly authorized representative only if:

1. The authorization is made in writing by a person described above;
2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the operator. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and
3. The signed and dated written authorization is submitted to the department.

Certification

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


Responsible Official Signature

9/29/2025
Date

VAR040090
Permit Number

Christopher Newport University
MS4 Name

Section 2 Minimum Control Measures

Each Minimum Control Measure is described in the following sections.

2.1 MCM 1: Public Education and Outreach

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

See Table 1, column [1].

Part I.E.g.2: A summary of the public education and outreach activities conducted for the report year, including strategies used to communicate the identified high-priority issues.

The strategies used to communicate the identified high priority issues are provided in Table 1, column [2]. A summary of the public outreach activities conducted for the report year is provided in Table 1, column [3]. See Appendix A for implementation documentation for each annual activity.

Table 1 - High Priority Stormwater Issues

High-Priority Stormwater Issue [1]	Strategy to Communicate Issue [2]	Implementation of Strategy [3]
Litter and Street Debris	Alternative materials	114 'No Dumping' coasters and flyers, along with 52 pet waste bag dispensers, were distributed at the Staff and Faculty Benefits Fair held on 10/04/2024, which had a total of 261 registrations. 3 anti-litter social media posts were made on the CNU Office of Sustainability Instagram. 1 post about Marine Litter and CNU Sustainable Development Goal #14 Life Below Water (09/29/2024, 37 likes, 1 comment), 1 post about cigarette butts (01/20/2025, 20 likes), and 1 post about roadway litter (04/28/2025, 36 likes). 10 storm drain medallion cookies distributed via booth at Garden Symposium on 04/12/2025, which had 175 attendees. 250+ 'Only Rain Down the Drain' stickers were placed on pizza boxes for Earth Day Week (04/21-04/25 2025) to raise awareness of litter reduction.
Waste Management	Media materials and/or Traditional written materials	3 waste management social media posts were made on the CNU Office of Sustainability Instagram. 1 post about recycling (09/09/24, 50 likes, 5 comments, 4 shares), 1 post about proper chemical disposal (02/10/25, 15 likes), and 1 post about waste diversion (04/04/25, 42 likes, 23 shares).
Nutrient Management	Traditional written materials and/or Media materials	3 nutrient management social media posts were made on the CNU Office of Sustainability Instagram. 1 post about leaf composting (11/04/24, 18 likes), 1 post about pet waste (12/09/24, 15 likes, 1 comment, 2 shares), and 1 post about fertilizer usage (03/17/25, 11 likes).

Part I.E.g.3: A description of any changes in high-priority stormwater issues, including, strategies used to communicate high-priority stormwater issues or target audiences for the public education and outreach plan. The permittee shall provide a rationale for any of these changes.

No changes were made to high-priority stormwater issues during this permit year.

Part I.E.g.3: A description of public education and outreach activities conducted that included education regarding climate change.

One public education and outreach activity included education regarding climate change, which was a social media post on the CNU Office of Sustainability Instagram highlighting CNU Sustainable Development Goal #13: Climate Action.

Part I.D.3.e: An evaluation of the MS4 Program implementation, including a review of each MCM, to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary.

The selected high-priority stormwater issues and the planned implementation strategies for MCM 1 are effective because they are highly accessible to the public, reach the intended audience and communicate the intended messages.

2.2 MCM 2: Public Involvement and Participation

Part I.E.2.i.1: A summary of any public input on the MS4 program received and how permittee responded.

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

Part I.E.2.i.2: A summary of stormwater pollution complaints received under the procedures established in Part I E 2 a (1), excluding natural flooding complaints, and how the permittee responded.

CNU did not receive any stormwater pollution complaints under the procedures established in *Part I E 2 a (1)*.

Part I.E.2.i.3: A webpage address to the permittee's MS4 program and stormwater website.

The website address is: <https://cnu.edu/public/stormwater/>

Part I.E.2.i.4: Federal and state nontraditional permittees with security policies preventing the MS4 program and stormwater pollution prevention webpage from being publicly accessible utilizing an internal staff accessible website, such as intranet, shall provide evidence of the current internal MS4 program and stormwater pollution prevention webpage;

The website address is: <https://cnu.edu/public/stormwater/>

Part E.2.i.5: A description of the public involvement activities implemented by the permittee, including any efforts to reach out and engage all economic and ethnic groups;

CNU identified and participated in the following local events/activities to address public involvement with stormwater and environmental activities (see Appendix B for documentation):

1. On-Campus Signage – Pet Waste Stations and Storm Medallions
CNU maintains pet waste stations and storm drain medallions around campus to engage pet owners to clean up waste and promote awareness of stormwater pollution during everyday activities. It is assumed that these practices reached a variety of economic and ethnic groups, but no poll was taken of the users to understand these demographics.
Category: Pollution Prevention
2. Student Engagement Events – Climate Jeopardy
Students participated in a Jeopardy style tabling event which asked them to consider the relationship between climate, environmental, and stormwater concerns and policy development. It is assumed that the participants included a variety of economic and ethnic groups, but no poll was taken of the participants to understand these demographics.
Category: Public Education Activity
3. Community Education Events – SWaM Fair
The CNU Office of Procurement Services hosted the annual Small, Woman, and Minority (SWaM) Fair on November 21, 2024, and CNU staff hosted a booth to distribute flyers on good stormwater practices.
Category: Public Education Activity
4. Community Education Events – Earth Day
HR Green attended CNU's Earth Day event and ran an active survey about litter using a QR code to engage students, faculty, and staff. Stormwater medallion cookies were given away and a LOVE sign made

of recycled materials was on display. It is assumed that the attendees included a variety of economic and ethnic groups, but no poll was taken of the attendees to understand these demographics.

Category: Public Education Activity

5. Community Education Events – STEM Day

CNU partnered with the City of Newport News City staff to host a booth at this event; a variety of nutrient management flyers, booklets, and trifold were distributed as booth staff engaged with attendees on nutrient management. It is assumed that the participants included a variety of economic and ethnic groups, but no poll was taken of the attendees to understand these demographics.

Category: Public Education Activity

6. Student Clean-Up Events

CNU students participate in annual trash cleanup events and other events around campus and the surrounding community to pick up litter. It is assumed that the participants included a variety of economic and ethnic groups, but no poll was taken of the attendees to understand these demographics.

Category: Restoration

Part E.2.i.6: A description of public education and outreach activities conducted that also included education regarding climate change.

One public education and outreach activity included education regarding climate change, which was “Climate Jeopardy” that educated students about the intersection of policy and climate.

Part E.2.i.7: A report on the metric as defined for each activity and an evaluation as to whether the activity is beneficial to improving water quality.

1. On-Campus Signage –Pet Waste Stations and Storm Medallions

The three existing pet waste stations on campus were maintained throughout the year; no pet waste stations were added or removed this year. There are approximately 250 storm drain medallions on campus; no medallions were installed or replaced this year. These activities are considered beneficial, as they offer both an intervention opportunity to prevent pollutants from entering storm drains and an education opportunity to teach pet owners about the importance of diverting waste. Stormwater medallions also serve as passive education tool that can highlight an element of the built environment that students, faculty, and staff may not regularly think about, providing the opportunity to convey pollution prevention messages while between engagements.

Category: Pollution Prevention

2. Student Engagement Events – Climate Jeopardy

One student engagement event was held this year. This event is beneficial to improving water quality by engaging students in

considering why water quality matters to them and how water quality protection is achieved through legislation and policy.

Category: Public Education Activity

3. Community Education Events – SWaM Fair

The staff hosting the booth at the SWaM fair distributed 200 flyers and 6 storm drain medallion cookies. This event is beneficial to water quality because it provided the opportunity to engage with the wider public, generating the opportunity to teach people who may otherwise not be exposed to messaging about water quality in a positive and active environment.

Category: Public Education Activity

4. Community Education Events – Earth Day

The Earth Day event's active survey received 149 responses, and 12 storm drain medallion cookies were given away. This event is beneficial to water quality because it provided the opportunity to engage with larger volumes of students, generating the opportunity to teach people who may otherwise not be exposed to messaging about water quality in a positive and active environment.

Category: Public Education Activity

5. Community Education Events – STEM Day

The STEM Day had an attendance of roughly one thousand (1000) people where a variety of nutrient management flyers, booklets, and trifold were distributed as booth staff engaged with attendees on nutrient management. This event is beneficial to water quality because it provided the opportunity to engage with the wider public, generating the opportunity to teach people who may otherwise not be exposed to messaging about water quality in a positive and active environment.

Category: Public Education Activity

6. Student Clean-Up Events

9 different cleanups, run by a variety of student organizations and CNU staff, were held throughout the year. A minimum of seventy-four (74) people were engaged in volunteering to pick up trash, with over one thousand (1000) pounds of trash picked up. Social media posts of the cleanups generated a total of 611 likes. These events are beneficial to water quality both directly, by removing trash and other pollutants from waterbodies or near waterbodies, and indirectly, by energizing volunteers to act on and strengthen internal values around pollution prevention in an accessible way.

Category: Restoration

Part E.2.i.8: The name of other MS4 permittees with whom CNU collaborated with.

CNU collaborated with the City of Newport News to participate in the STEM Day event.

Part I.D.3.e: An evaluation of the MS4 Program implementation, including a review of each MCM, to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary.

The public involvement opportunities are considered effective due to the number of staff, faculty, and students that participate and due to each event's relevant messages on how individuals can improve water quality.

2.3 MCM 3: Illicit Discharge Detection and Elimination

Part I.E.3.e.1: A confirmation statement that the MS4 map and outfall information table have been updated to reflect any changes to the MS4 occurring on or before June 30 of the reporting year.

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

Part I.E.3.e.2: The total number of outfalls and observation points screened during the reporting period as part of the dry weather screening program.

Three (3) outfalls and ten (10) interconnected outfalls with the City of Newport News were screened during dry weather for the reporting period. This represents 100% of CNU's total MS4 outfalls. See Appendix C for documentation.

Part I.E.3.e.3: A list of illicit discharges to the MS4, including spills reaching the MS4 with information as follows: a) The location and source of illicit discharge; b) The dates that the discharge was observed, reported or both; c) Whether the discharge was discovered by the permittee during the dry weather screening, reported by the public, or other method (describe); d) how the investigation was resolved; e) a description of any follow-up activities; and f) the date the investigation was closed.

Two illicit discharges or spills were investigated or reported during the reporting period and are summarized below:

1. Athletic Paint Spill

- a. Date Identified: 05/06/2025
- b. Location: Towne Bank Stadium
- c. Description: A facilities employee was transporting approximately 2 gallons of athletic turf field paint when it spilled in the back of the cart. The employee initially attempted to wash the spill toward the grass and drain with roughly 10-15 gallons of water, but was stopped and drains were covered. The drains were heavily sedimented and wash water settled in the drain sump. A report to DEQ was filed on 05/07/2025, and Ziegler Plumbing was brought in on 05/08/2025 to flush and vacuum the lines. A

report in an updated template for the incident per DEQ request on 07/06/2025 was submitted on 07/16/2025.

2. Fuel Spill

- a. Date Identified: 05/22/2025
- b. Location: Lot N at Ferguson
- c. Description: Timmons Group was performing annual SWPPP inspections for the campus and identified a potential fuel discharge into a storm drain based on odor and sheen, believed to be a small diesel fuel spill. On 05/23/2025, the standing water was pumped out of the drains and Ziegler Plumbing was contacted. On 05/24/2025, Ziegler Plumbing power washed the parking lot and vacuumed the drains. A report to DEQ in updated formatting (see above) was filed on 07/17/2025.

See Appendix C for photos of the incidents and cleanups.

Part I.D.3.e: An evaluation of the MS4 Program implementation, including a review of each MCM, to determine the MS4 program's effectiveness and whether changes to the MS4 program plan are necessary.

No changes were made regarding outfalls or illicit discharge detection and elimination as no new outfalls were established and current IDDE procedures are effective.

2.4 MCM 4: Construction Site Stormwater Runoff Control

Part I.E.4.e.1: Total number of erosion and sediment control inspections conducted;

The construction of the Integrated Science Center Phase 3 is ongoing; during this permit year, nine (9) erosion and sediment control inspections were conducted, see Appendix D for documentation.

Part I.E.4.e.2: Total number of each type of compliance action and enforcement action implemented

No compliance actions were required.

Part I.E.4.e.3(a): For nontraditional permittees, A confirmation statement that land disturbing projects that occurred during the reporting period have been conducted in accordance with the current department approved standards and specifications for erosion and sediment control.

The land disturbing project that occurred during the reporting period has been conducted in accordance with the current department approved standards and specifications for erosion and sediment control. One land disturbing project was conducted in accordance with CNU's current department approved Standards and Specifications for ESC during the reporting period. This project was covered under the CNU's General Permit (VAR10T355) coverage for Discharges of Stormwater from Construction.

Part I.E.4.e.3(b): If any land disturbing projects were conducted without department approved standards and specifications, a list of all land disturbing projects that occurred during the reporting period with erosion and sediment control plan approval dates for each project.

No land disturbing projects were conducted without departmental approved standards and specifications.

Part I.D.3.e: An evaluation of the MS4 Program implementation, including a review of each MCM, to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary.

The Standards and Specifications were updated during the current permit term to reflect the requirements of Appendix J of the [Virginia Stormwater Management Handbook](#) (v1.1). This MCM is considered to be effective as CNU's Standards and Specifications are approved by DEQ in 2024 for the reporting period, see Appendix D for a copy of the approval letter.

2.5 MCM 5: Post Construction Stormwater Management

Part I.E.5.e.1: If the traditional permittee implements a VSMP in accordance with Part I E5a(1), (2), or (3):

- a) *The number of privately owned stormwater management facility inspections conducted;*

There are no privately owned stormwater management facilities on campus.

- b) *The number of enforcement actions initiated by the permittee to ensure long-term maintenance of privately owned stormwater management facilities including the type of enforcement action;*

There are no privately owned stormwater management facilities on campus.

Part I.E.5.e.2: Total number of inspections conducted on stormwater management facilities owned or operated by the permittee

Four (4) inspections were conducted on SWM facilities owned or operated by CNU, see Appendix E for documentation.

Part I.E.5.e.3: A description of the significant maintenance, repair, or retrofit activities performed on the SWM facilities owned or operated by the permittee to ensure it continues to perform as designed. This does not include routine activities such as grass mowing or trash collection.

No significant maintenance was performed on SWM facilities during this permit year, only routine maintenance was performed.

Part I.E.5.e.4: For traditional permittees as specified in Part IE5a(1), a confirmation statement that the permittee submitted stormwater management facility information through the Virginia Construction Stormwater General Permit database for land disturbing activities required to obtain coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities in accordance with Part III B1 or a statement the permittee did not complete any projects requiring coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities (9VAC25-880).

The permittee did not complete any projects requiring coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities.

Part I.E.5.e.5: A confirmation statement that the permittee electronically reported stormwater management facilities using the DEQ BMP in accordance with Part III B1 and 2.

The permittee electronically reported stormwater management facilities using the DEQ BMP Warehouse in accordance with Part III B1 and 2, see Appendix E for documentation.

Part I.E.5.e.6: A confirmation statement that the permittee electronically reported stormwater management facilities inspected using the DEQ BMP Warehouse in accordance with Part III B5.

The permittee electronically reported stormwater management facilities inspected using the DEQ BMP Warehouse in accordance with Part III B5, see Appendix E for documentation.

Part I.D.3.e: An evaluation of the MS4 Program implementation, including a review of each MCM, to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary.

This MCM is considered effective, therefore no changes were made.

2.6 MCM 6: Pollution Prevention and Good Housekeeping

Part I.E.6.y.1: A summary of any written procedures developed or modified in accordance with Part IE6(a) and (b) during the reporting period.

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

Part I.E.6.y.2: A confirmation statement that all high-priority facilities were reviewed to determine if SWPPP coverage is needed during the reporting period.

All high-priority facilities were reviewed to determine if SWPPP coverage is needed during the reporting period. The University has one SWPPP for the entire campus.

Part I.E.6.y.3: A list of any new SWPPPs developed in accordance Part IE6i during the reporting period.

No new SWPPPs were developed during the reporting period.

Part I.E.6.y.4: A summary of any SWPPPs modified in accordance with Part IE6j, 6l, or 6m

No SWPPPs were modified during the reporting period.

Part I.E.6.y.5: The rationale of any high-priority facilities delisted in accordance with Part IE6l or m during the reporting period.

No high priority facilities were delisted in accordance with Part 1E 6l or 6m during the reporting period.

Part I.E.6.y.6: The status of each nutrient management plan as of June 30 of the reporting year (e.g. approved, submitted and pending approval, and expired);

As of June 30 of the reporting year, the campus Nutrient Management Plan was approved, see Appendix F for documentation.

Part I.E.6.y.7: A list of training activities conducted in accordance with Part IE6d, including the following information: a) the completion date for the training activity; b) the number of employees who completed the training activity; and (c) the objectives and good housekeeping procedures covered by the training activity.

Asynchronous IDDE Training

- a) This training was provided asynchronously to allow employees to complete over time between 01/15/25 and 06/30/25.
- b) 81 employees completed this training.
- c) The training included how to identify illicit discharges, track down the source of illicit discharges, and eliminate illicit discharges in day to day work, provided via two HRPDC YouTube videos. A quiz was provided to assess the results of the training;

questions with higher instances of incorrect answers were additionally reviewed during the in-person trainings (see below).

Asynchronous Good Housekeeping Training

- d) This training was provided asynchronously to allow employees to complete over time between 01/15/25 and 06/30/25.
- e) 83 employees completed this training.
- f) The training included an overview of good housekeeping and pollution prevention practices via a VDOT Training YouTube video. A quiz was provided to assess the results of the training; questions with higher instances of incorrect answers were additionally reviewed during the in-person trainings (see below).

In Person SWPPP Training

- a) Training was completed on 05/22/2025 and 06/04/2025. A Zoom recording of the second in-person training was converted into asynchronous training, similar to the above, to allow employees to complete between 06/06/25 and 06/30/25 if they were unable to attend the in-person trainings.
- b) A total of 67 employees completed the training in-person between both dates, and 30 employees completed the training asynchronously, for a total of 97 employees completing this training.
- c) The training included how to identify illicit discharges, potential pollutants on campus, where to find good housekeeping procedures, the contents of the campus SWPPP, and general pollution prevention strategies.

Section 3 Summary of Changes to Program Plan

Part 1.C.4: The permittee shall summarize revisions to the MS4 Program Plan.

No changes were made to the MS4 Program Plan.

Section 4 Government Reliance for Permit Obligations

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

Section 5 TMDL Special Conditions Contained in Part II

Part 1.D.4: Provide a status report on the implementation of the Chesapeake Bay TMDL action plan or local TMDL action plans and any revisions.

A Chesapeake Bay TMDL Annual report has been submitted separately.

5.1 Local TMDL Action Plans

CNU does not have any local TMDL Action Plans.

Appendix A: Minimum Control Measure 1 (MCM 1)
Supplemental Information

Alternative Materials Hand-outs

'No Dumping' Coasters



'Only rain down the drain' Stickers



'HR Green' Business Cards



Pet Waste Bag Dispensers



Information Booths

Benefits Fair



Earth Day Week

Social Media Posts



What is SDG #14?

Conserve and sustainably use the oceans, seas and marine resources for sustainable development

- Protects and promotes sustainable ocean use
- Encourages sustainable fishing practices
- Seeks to minimize ocean acidification
- Implements sustainable practices on small islands for economic benefit
- Increases scientific knowledge about the ocean, enhancing health and biodiversity



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This week's #SustainabilitySunday is SDG #14: Swipe to learn more about this Sustainable Development Goal & some orgs on campus directly related to it!! 🌊🌱



laurajamborsky 49w

👍👍👍 @n_fx_ @g_via_

Like Reply

View all 1 replies



37 likes

September 29, 2024

Log in to like or comment.

Why does it matter?

- Oceans cover 75% of Earth's surface and serve as a major carbon sink.
- Ocean acidification is rising, exacerbated by unchecked carbon emissions.
- Fish stocks are declining at alarming rates.
- Oceans are vital for food, jobs, and livelihoods.
- They offer storm protection and numerous resources for medicine, health, and the economy.



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laurajamborsky 49w

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Like Reply

View all 1 replies



37 likes

September 29, 2024

Log in to like or comment.

What Can You Do?

- Participate in clean-ups and clubs like Surfriders
- Reduce your waste, especially when it comes to plastic
- Buy local and certified fish
- Organize clean ups for local streams and rivers



1 2 3 4 5



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37 likes

September 29, 2024

Log in to like or comment.

Quotes from Clubs on Campus

Scuba Club:

"Protecting the ocean is incredibly important because it keeps our planet. The ocean regulates the climate, produces oxygen, and supports a diverse range of ecosystems making it essential for life on Earth. To me, the ocean is a source of life, mystery, and beauty. By caring for it, we ensure that our environment stays clean and balanced, which ultimately benefits all living things, including ourselves. Everything is connected, so protecting the ocean means protecting our future." -Natalie Fox Class of 2025

Surfriders:

"To me, protecting the environment is a duty to my community and with that I have found a passion in cleaning local beaches and water ways to keep trash and pollution of them. I believe everyone should get to live in a clean and sage world, and while that may be hard I can at least do my part!" - Gwendolyn Via Class of 2025



1 2 3 4 5



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This week's #SustainabilitySunday is SDG #14: Swipe to learn more about this Sustainable Development Goal & some orgs on campus directly related to it! 🌊



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Like Reply

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37 likes

September 29, 2024

Log in to like or comment.



Why does it matter?

- Climate change threatens global food security, housing, education, and air quality.
- It impacts both present and future, necessitating action for future generations.
- Extreme weather leads to economic losses, displacement, and harms livelihoods.
- Climate action influences other Sustainable Development Goals (SDGs), linking their success.



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sustaincnu · 45w
SDG #13 focuses on taking action against climate change. Whether it's using a reusable water bottle or CNU's Going Greener Initiative, every step counts! Swipe to learn more about SDG #13 and check out CNU's efforts here: <https://cnu.edu/whoweare/greener-24/> 🌱💧🌍



No comments yet.

Start the conversation.



16 likes

October 27, 2024

[Log in](#) to like or comment.

What Can You Do?

- Reduce meat consumption
- Recycle and compost waste
- Utilize public transportation, reserving car trips for larger groups
- Opt for reusable products

CNU initiatives include:

- Going Greener Task Force: Aiming for a carbon-neutral campus
- Zero-waste football games: Implementing sustainability practices
- Energy efficiency measures: Upgrading to energy-efficient appliances
- Reduced fertilizer use: Lowering energy, chemical, and water consumption

What can CNU students do?

- Utilize proper recycling including Nex Trex bins
- Use zero-water detergent sheets in residence halls (they're free!) for a sustainable laundry option
- Inform yourself about sustainability on and off campus

sustaincnu · Follow

sustaincnu · 45w
SDG #13 focuses on taking action against climate change. Whether it's using a reusable water bottle or CNU's Going Greener Initiative, every step counts! Swipe to learn more about SDG #13 and check out CNU's efforts here: <https://cnu.edu/whoweare/greener-24/> 🌱💧🌍



No comments yet.

Start the conversation.



16 likes

October 27, 2024

[Log in](#) to like or comment.



sustaincnu · Follow



sustaincnu · 44w

Introducing our new informative series: Storm Water Mondays! Swipe to learn more about leave collection, what CNU is doing, and what YOU can do to be more sustainable! 🌱🍃



No comments yet.

Start the conversation.



18 likes

November 4, 2024

[Log in](#) to like or comment.

How Can You Contribute?

Composting leaves is quite simple



Process

- Start with 6 inches of leaves
- Add 2 inches of greenery
 - Grass clippings
 - Vegetable waste
 - Green weeds
- Spread native soil between layers

Turn pile every 3 weeks to allow oxygen help the decomposition process

Use your compost in a garden or landscape by incorporating into planting soils or topdressing a planting bed or garden



sustaincnu · Follow



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Introducing our new informative series: Storm Water Mondays! Swipe to learn more about leave collection, what CNU is doing, and what YOU can do to be more sustainable! 🌱🍃



No comments yet.

Start the conversation.



18 likes

November 4, 2024

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CNU's Efforts



71 Tons

In 2023, the CNU Ground Department sent over 71 tons of leaf debris to the Newport News Recovery Operations Center (ROC) to be made into compost



The Recovery Operations Center offers mulch and compost sales to the general public



sustaincnu · Follow



sustaincnu · 44w

Introducing our new informative series: Storm Water Mondays! Swipe to learn more about leave collection, what CNU is doing, and what YOU can do to be more sustainable! 🍁🍂



No comments yet.

Start the conversation.



18 likes

November 4, 2024

[Log in to like or comment.](#)

What Are the Benefits?

Compost improves soil structure by loosening compacted clay soils or helping loose sand soils hold moisture and nutrients



Keeping leaves out of storm drains keeps our waterways clean!



Most leaves contain twice the minerals of manure

2x

\$50

Leaves of one large shade tree can be worth as much as \$50 of plant food and humus



sustaincnu · Follow



sustaincnu · 45w

Introducing our new informative series: Storm Water Mondays! Swipe to learn more about leave collection, what CNU is doing, and what YOU can do to be more sustainable! 🍁🍂



No comments yet.

Start the conversation.



18 likes

November 4, 2024

[Log in to like or comment.](#)



sustaincnu · Follow

...



sustaincnu · 39w

Happy #StormWaterMonday! In order to keep our waterways clean, make sure you pick up after your pets! Swipe to see some of the CSE pets and learn more! 🐾



madsforrester · 39w

these are some cute pets

Like Reply



15 likes

December 9, 2024

[Log in](#) to like or comment.



sustaincnu · Follow

...



sustaincnu · 39w

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madsforrester · 39w

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Like Reply



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sustaincnu 39w
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madsforrester 39w
these are some cute pets
Like Reply



15 likes

December 9, 2024

Log in to like or comment.



sustaincnu · Follow

sustaincnu 33w
Happy #StormWaterMonday! 🌊 Swipe to learn why tossing cigarette butts harms our waterways. 🌿



No comments yet.

Start the conversation.



20 likes

January 20

Log in to like or comment.



sustaincnu • Follow

sustaincnu 33w
Happy #StormWaterMonday! 🌧️ Swipe to learn why tossing cigarette butts harms our waterways. 🌊♻️



No comments yet.

Start the conversation.



20 likes

January 20

[Log in](#) to like or comment.



sustaincnu • Follow

sustaincnu 30w
Happy #StormWaterMonday! 🌧️ Swipe to learn why properly disposing of household chemicals helps keep our waterways clean and safe! 💧♻️



No comments yet.

Start the conversation.



15 likes

February 10

[Log in](#) to like or comment.

PLEASE DISPOSE PROPERLY

6 CLEAN WATER AND SANITATION



HOUSEHOLD CHEMICALS

- Bleach
- Air Fresheners
- Batteries
- Drain Cleaners
- Paint Thinners
- Detergents

FREE DISPOSAL DAYS

Where: 520 Atkinson Blvd.
Newport News, VA 23608
Phone: 757-933-2311

When: 4-8 PM on the following dates:
Monday, March 3 - Saturday, March 8
Monday, June 9 - Saturday, June 14
Monday, September 15 - Saturday, September 20
Monday, December 8 - Saturday, December 13



sustaincnu • Follow

sustaincnu 30w
Happy #StormWaterMonday! 🌧️ Swipe to learn why properly disposing of household chemicals helps keep our waterways clean and safe! 💧♻️

No comments yet.
Start the conversation.

15 likes
February 10

Log in to like or comment.



STORM WATER MONDAY

Test First!

LAWN FERTILIZER

Protect our waterways
EXCESS USE OF LAWN CHEMICALS IS A MAJOR SOURCE OF WATER POLLUTION

Do your part

sustaincnu • Follow

sustaincnu 25w
Happy #StormWaterMonday! 🌧️ Swipe to learn about keeping waterways safe through fertilizer reduction 🌱♻️

No comments yet.
Start the conversation.

12 likes
March 17

Log in to like or comment.



HOW TO HELP

REDUCE FERTILIZER USE

Use a fertilizer test to determine if your lawn needs fertilizer. If so, research organic alternatives to reduce chemical runoff and support healthier soil and plant growth.

DO YOUR PART!

sustaincnu · Follow

sustaincnu · 25w
Happy #StormWaterMonday! 🌧️ Swipe to learn about keeping waterways safe through fertilizer reduction 🌱🌿

No comments yet.
Start the conversation.

12 likes
March 17

Log in to like or comment.

GIVE IT UP!



DIVERT WASTE!

All donated items will be donated to **Goodwill** and **Peninsula Food Bank** for a second life! Great way to decrease your load during move out, while also decreasing the amount of waste that ends up in landfills!

sustaincnu and cnureslife

sustaincnu · 24w
With move out just around the corner, CNU's annual waste diversion program Give it Up is about to start! During move out, donate clothes in any condition, electronics in any condition, unwanted books, decor, and more to the Tall Blue Bins! On April 15th, you can donate at the Plaza for entry into a kick-off sweepstakes event, or starting April 16th, donate in your very own residence hall. All donated items are given to either Goodwill or the Peninsula Food Bank for a second life. Any questions? Email [@brian.kelly@cnu.edu](mailto:brian.kelly@cnu.edu) or ask your RA! Make your move out easier and help divert waste!

44 likes
April 4

Log in to like or comment.

GIVE IT UP!



scan here for more info!



Donate items during Move Out to the Tall Blue Bins (located in MPRs of Residence Halls) to Goodwill & Peninsula Food Bank

We're accepting non-perishable food, clothes, electronics, games, books, furniture and like items




sustaincnu and cnureslife
...

sustaincnu · 24w

With move out just around the corner, CNU's annual waste diversion program Give it Up is about to start! During move out, donate clothes in any condition, electronics in any condition, unwanted books, decor, and more to the Tall Blue Bins! On April 15th, you can donate at the Plaza for entry into a kick-off sweepstakes event, or starting April 16th, donate in your very own residence hall. All donated items are given to either Goodwill or the Peninsula Food Bank for a second life. Any questions? Email [@brian.kelly@cnu.edu](mailto:brian.kelly@cnu.edu) or ask your RA! Make your move out easier and help divert waste!

44 likes

April 4

[Log in](#) to like or comment.

GIVE IT UP!

Move-Out Donation Program

A move-out program aimed to reduce waste generated during Spring move-out, by donating collected items to Goodwill and Peninsula Food Bank for a second life!

KICK OFF SWEEPSTAKES EVENT
April 15th 10-2pm
Tribble Plaza

RESIDENCE HALLS DONATION
April 16th - May 6th
Donation bins located 1st-floor multipurpose room near the lobby

ITEMS ACCEPTED
Accepting non-perishable food, clothes, electronics, games, books, furniture and like items




scan here for more info!


sustaincnu and cnureslife
...

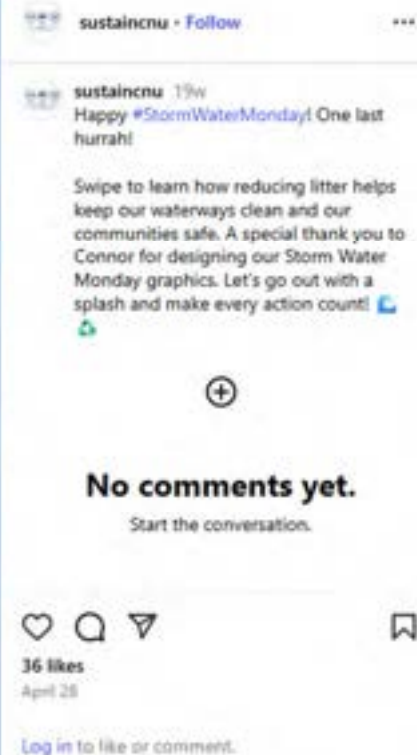
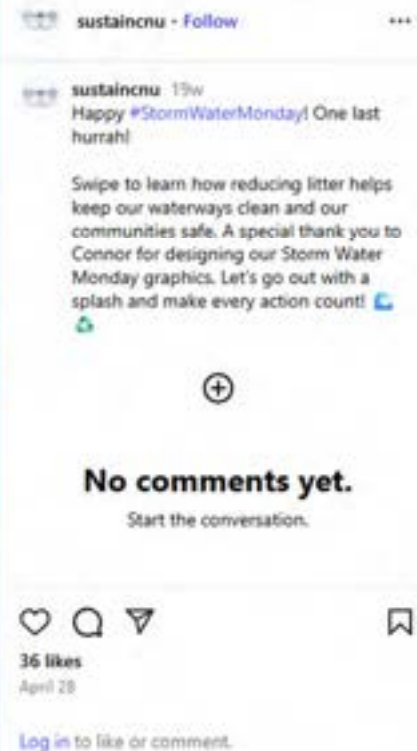
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44 likes

April 4

[Log in](#) to like or comment.



Appendix B: Minimum Control Measure 2 (MCM 2)

Supplemental Information

CNU Website as of 09/11/25

STORMWATER MANAGEMENT

Explore this section ▼

In managing the Christopher Newport campus grounds, we strive to be good environmental stewards. We work closely with the Virginia Department of Environmental Quality (DEQ) to ensure our efforts are up to current standards and practices.



Program Plan



The [stormwater management program plan](#)  is based on six minimum control measures as required by the Virginia General Permit. These goals and objectives were developed to reduce the discharge of pollutants from the university's Municipal Separate Storm Sewer System (MS4) to the maximum extent practicable, protect water quality, ensure compliance with water quality standards, and to satisfy the appropriate water quality requirements of the State Water Control Law and its attendant regulations. You are welcome to review and make comments on our program by [filling out this form](#).

MS4 General Permit



Annual Report



STORMWATER MANAGEMENT

Explore this section ▼

In managing the Christopher Newport campus grounds, we strive to be good environmental stewards. We work closely with the Virginia Department of Environmental Quality (DEQ) to ensure our efforts are up to current standards and practices.



CHRISTOPHER NEWPORT UNIVERSITY



Program Plan



MS4 General Permit



The General Virginia Pollutant Discharge Elimination System Permit for Discharges of Stormwater From Small MS4s requires Christopher Newport to develop and implement a comprehensive stormwater management program consistent with the Virginia General Permit.

The university re-registered for continuation of coverage on November 1, 2023 (permit number VAR040090). The new general permit is valid until October 31, 2028.

MS4 PERMIT 2023-2028 

STORMWATER MANAGEMENT

Explore this section ▼



CHRISTOPHER NEWPORT UNIVERSITY



If you have any questions, please contact us at (757) 594-8700 or grounds@cnu.edu.

Program Plan



MS4 General Permit



Annual Report



The MS4 Annual Report conveys the required information and details the status of compliance with all permit conditions, as well as the appropriateness of best management practices identified in the MS4 Program Plan toward achieving measurable goals for each minimum control measure.

2023-2024 REPORT 

STORMWATER MANAGEMENT



CHRISTOPHER NEWPORT UNIVERSITY



ensure our efforts are up to current standards and practices.

If you have any questions, please contact us at (757) 594-8700 or grounds@cnu.edu.

Program Plan



MS4 General Permit



Annual Report



Stormwater Management Master Plan



In 2019, Christopher Newport worked with a consultant to create a [Stormwater Management Master Plan](#) . This plan provides guidance in the form of stormwater management concepts to help meet our TMDL Reduction Requirements as set forth by the Virginia Department of Environmental Quality. This plan addresses those requirements through 2028.

STORMWATER MANAGEMENT

Explore this section ▼

stewards. We work closely with the Virginia Department of Environmental Quality (DEQ) to ensure our efforts are up to current standards and practices.



CHRISTOPHER NEWPORT UNIVERSITY



MS4 General Permit



Annual Report



Stormwater Management Master Plan



Chesapeake TMDL Master Plan



The [Chesapeake Bay Total Maximum Daily Load \(TMDL\) Action Plan](#)  was written to describe the means and methods by which Christopher Newport University (CNU) intends to meet the Special Condition for the Chesapeake Bay TMDL. This Special Condition is located in the General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems which was effective as of July 1, 2013, and states that

Small Municipal Separate Storm Sewer Systems (MS4) must create a TMDL Action Plan and submit the plan to the Virginia Department of Environmental Quality (DEQ). You are welcome to review and make comments on our plan by filling out [this form](#).

Pollution Prevention and Control



Illicit Discharge Detection and Elimination (IDDE)



Stormwater Pollution Prevention Plan (SWPPP)



Construction Sites



Public Education and Outreach



(757) 594 7000
1 Avenue of the Arts
Newport News, VA 23606



Jobs | Policies | Hazing Violation Reporting | Campus Map | Campus Safety |
Student Consumer Information | Institutional Compliance and Title IX | Emergency Alerts

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</> REPORT A PROBLEM

STORMWATER MANAGEMENT

Explore this section ▾



CHRISTOPHER NEWPORT UNIVERSITY



If you have any questions, please contact us at (757) 594-8700 or grounds@cnu.edu.

Program Plan



MS4 General Permit



Annual Report



Stormwater Management Master Plan



Chesapeake TMDL Master Plan



Pollution Prevention and Control



Pollution prevention is any practice that reduces, eliminates or prevents pollution at its source. Reducing the amount of pollution produced means less waste to control, treat or

dispose. Less pollution also means fewer hazards are posed to public health and the environment.

Under our permit, we must develop, implement and enforce a program that includes the following six minimum control measures:

1. Public education and outreach
2. Public involvement and participation
3. Illicit discharge detection and elimination
4. Construction site stormwater runoff control
5. Post-construction stormwater management
6. Pollution prevention/good housekeeping

These control measures are designed and implemented to control the discharge of pollutants from our storm sewer system to the maximum extent practicable in a manner that protects the water quality in nearby streams, rivers, wetlands and bays.

Illicit Discharge Detection and Elimination (IDDE)



Stormwater Pollution Prevention Plan (SWPPP)



Construction Sites



Public Education and Outreach



(757) 594 7000

STORMWATER MANAGEMENT

Explore this section ▾



CHRISTOPHER NEWPORT UNIVERSITY



If you have any questions, please contact us at (757) 594-8700 or grounds@cnu.edu.

Program Plan



MS4 General Permit



Annual Report



Stormwater Management Master Plan



Chesapeake TMDL Master Plan



Pollution Prevention and Control



Illicit Discharge Detection and Elimination (IDDE)



The [IDDE policy](#)  and program provide for the protection of the environment at CNU and the surrounding areas.

An illicit discharge is the discharge of any substance into a storm sewer system* that is not stormwater. Some examples of these substances include:

- Wastewater
- Concrete washout
- Cleaning supplies
- Construction waste (e.g., debris, sludge)
- Vehicle washing
- Paint
- Fuels and oils
- Pet waste

The following do not constitute an illicit discharge:

- Discharges or flows from firefighting activities
- Landscape irrigation and lawn watering
- Foundation/footing drains
- Water line flushing
- Discharges from potable (drinkable) water sources
- Street wash water
- Air conditioning condensation

*Storm sewers are designed to carry stormwater and runoff. Storm sewers are not treated and lead directly into our natural environment. Substances that are not stormwater should never be released into the storm sewer system. The university's storm sewer inlets are marked with a “No Dumping – Drains to Bay” medallion.

If you witness an illicit discharge, you can report it to the Grounds Department by calling (757) 594-8700 or University Police at (757) 594-7777.

Stormwater Pollution Prevention Plan (SWPPP)



Stormwater Pollution Prevention Plan (SWPPP)

As part of our MS4 program the university maintains a [Stormwater Pollution Prevention Plan !\[\]\(dfbd6b3763a6d1d9afaa974f64e2e4b5_img.jpg\)](#) (SWPPP)

An SWPPP is designed to reduce the impact of stormwater runoff on receiving water bodies to the maximum extent practicable and to meet water quality standards, and identifies the following:

- Stormwater pollution prevention team
- [Stormwater discharges at the campus !\[\]\(4c660a3c4ce1da3313488b7854f55083_img.jpg\)](#)
- Actual and potential sources of stormwater contamination
- Structural and non-structural best management practices
- Good housekeeping practices
- [Standard operating procedures !\[\]\(f01c435bb39e3068a9b4895c9a993158_img.jpg\)](#) for activities with the potential to impact water quality

[Stormwater Pollution Prevention Training !\[\]\(c694a3ff3b077d76910920a6a1593ab4_img.jpg\)](#) SWPPP training is available to all members of the campus community. We provide training to all employees whose job duties may include activities with the potential to contribute to stormwater pollution.

Construction Sites

Public Education and Outreach



(757) 594 7000

Stormwater Pollution Prevention Plan (SWPPP)

Construction Sites

Construction projects that disturb more than one acre are required to obtain a Virginia Stormwater Management Program construction permit from the Virginia Department Environmental Quality.

CONSTRUCTION SITE SIGNAGE 

Public Education and Outreach



(757) 594 7000
1 Avenue of the Arts
Newport News, VA 23606



Jobs | Policies | Hazing Violation Reporting | Campus Map | Campus Safety |
Student Consumer Information | Institutional Compliance and Title IX | Emergency Alerts

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 **REPORT A PROBLEM**

On-Campus Signage

Pet Waste Stations



Storm Drain Medallions



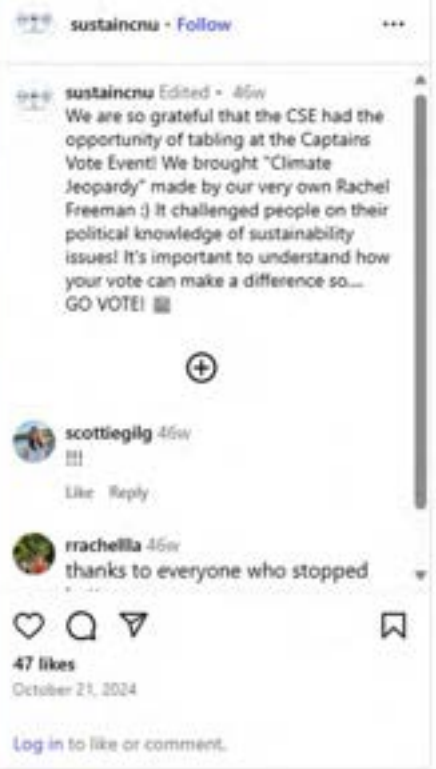
Construction Signage



Storm Drain Medallions



Student Engagement Event



Community Education Events

SWaM Fair 11/21/24



STEM Day 05/31/2025 - Please see the following pages for materials distributed at the STEM Day fair.

Test, don't just guess
about **fertilizing.**

Testing your soil
allows you to
see what, if any,
nutrients your lawn is
lacking.

You'll need

1 Soil test kit

2 Stainless steel or chrome-plated soil probe, hand garden trowel, shovel or spade

Do not use brass, bronze or galvanized tools because they will contaminate samples with copper and/or zinc.

3 Clean plastic bucket or container



Visit askHRgreen.org/soil-testing
for more info.



See back page for a list of locations
where you can pick up a soil test kit.

GOOD TO DO

**Pick up a soil test kit today at
your local garden store or a
Virginia Cooperative Extension
office near you...**

CHESAPEAKE
310 Shea Drive
Chesapeake, VA 23322
757.382.6348

GLOUCESTER COUNTY
7400 Carriage Court
Gloucester, VA 23061
804.693.2602

HAMPTON
1919 Commerce Dr., Ste 340
Hampton, VA 23666
757.727.1401

ISLE OF WIGHT COUNTY
Public Services Center
17100 Monument Circle, Ste B
Isle of Wight, VA 23397
757.365.6261

**JAMES CITY COUNTY/
WILLIAMSBURG**
3127 Forge Rd. P.O. Box 69
Toano, VA 23168
757.564.2170

NEWPORT NEWS
739 Thimble Shoals Blvd.,
Ste 1009
Newport News, VA 23606
757.591.4838

NORFOLK
830 Southampton Ave.,
Ste 2059
Norfolk, VA 23510
757.683.2816

PORTSMOUTH
105 Utah Street
Portsmouth, VA 23701
757.393.5197

SOUTHAMPTON COUNTY
21300 Plank Road
Courtland, VA 23837
757.653.2572

SUFFOLK
440 Market Street
P.O. Box 218
Suffolk, VA 23434
757.514.4330

SURRY COUNTY
45 School Street
Surry Government Center
Surry, VA 23883
757.294.5215

VIRGINIA BEACH
2449 Princess Anne Road
Building #14, 2nd Floor
Virginia Beach Municipal
Center
Virginia Beach, VA 23456
757.385.4769

YORK COUNTY/POQUOSON
100 County Drive
Yorktown, VA 23690
757.890.4940

GOOD TO KNOW

Time to fertilize *or is it?*

Follow our guidelines before
fertilizing... It might save you
money and it will definitely **save**
our waterways.



BEFORE YOU FERTILIZE
test your soil.

FOR A CLEANER, GREENER HAMPTON ROADS

askHRgreen.org  [askHRgreen.org](https://www.facebook.com/askHRgreen.org)  [askHRgreen.org](https://www.twitter.com/askHRgreen.org)  [askHRgreen.org](https://www.instagram.com/askHRgreen.org)

When

Take a soil sample a few months before initiating any new landscaping. In Hampton Roads, it's best to test every two to three years.

How

Open a hole with a shovel, spade or trowel from the surface to the proper depth for your landscape area, about two to four inches for established lawns. Set that soil aside. If you are using a soil probe, insert it into the soil to the proper depth and remove the plug from the ground.

With your shovel or trowel, remove a one-inch-thick slice from the smooth side of the open hole.

With the slice of soil on the blade of the shovel, remove the sides of the slice with a trowel knife or your hands to create a ribbon of soil two inches wide and one-inch thick of the proper depth. Place the ribbon (or plug if using a soil probe) into a container.

Where

To obtain accurate soil-test results, a soil sample must be made up of multiple sub-samples. These sub-samples are mixed together to make up the composite soil sample for that lawn. For a typical lawn, it is recommended that two sub-samples be collected from the front yard and two be collected from the back yard.

Remove any surface mat of grass, litter and any rocks. Place the soil in a clean bucket or container. Remember that a clean, plastic container is best.

Continue to take additional soil sub-samples from the uniform landscape area. By mixing these sub-samples together, you create the composite sample that will be sent to the Soil Testing Laboratory.



A soil test is not usually performed for the presence of N (nitrogen). Soil Testing Laboratories still provide nitrogen fertilizer recommendations. You can often use much less than is recommended to get successful results.

You may not need to use any fertilizer if you are mulching your grass clippings back onto your lawn.

In Hampton Roads, our soil is naturally rich in phosphorus so, with the exception of new plantings, adding phosphorus is often not necessary.

If your soil test indicates you need to fertilize, **make sure you fertilize at the right time of year for your grass.**

Cool-season grasses

Tall fescue } mow to 2-3"
Fine fescue }

Ryegrass mow to 1 1/2 - 2 1/2"

- Ideal for areas that get light shade
- seed in late summer
- if needed, fertilize in fall
- mow at higher heights during summer months

Warm-season grasses

Zoysiagrass mow to 3/4 to 1"

Centipedegrass mow to 1 1/2"

Bermudagrass mow to 1/2 - 1"

- Ideal for areas that get full sun
- seed in early spring
- if needed, fertilize in spring

CHOOSE SLOW-RELEASE FERTILIZERS

Coated and water-insoluble slow-release fertilizers help roots develop and wash away less easily. Do not apply slow- or time-released nitrogen at rates above one pound per 1,000 square feet. Apply only as much as it says.

SOIL TEST REPORT

You will learn the following information about your soil:

pH (whether it's acidic or basic)
Phosphorous (P) content
Potassium (K) content
Calcium (Ca) content
Magnesium (Mg) content
Zinc (Zn) content
Manganese (Mn) content
Copper (Cu) content
Iron (Fe) content
Boron (B) content

FOG = FATS OILS GREASE

Improper disposal of FOG can wreak havoc on your business and the sanitary sewer system. Over time, grease build-up can cause major damage to pipes and lead to sewage back-ups in your business.

Potential problems include:

Rancid odors

Pest infestation

Raw sewage overflows due to blocked sewer lines

Expensive cleanup, repair, and replacement of damaged property

Potential fines

 **askHRgreen.org**

Our Partners in Grease Management

Chesapeake	Poquoson
Franklin	Portsmouth
Gloucester	Smithfield
Hampton	Southampton
HRSD	Suffolk
Isle of Wight	Surry
James City	Virginia Beach
Newport News	Williamsburg
Norfolk	York County

In the event of a back-up or spill, call your local FOG Program Manager.

For more information, please contact:

askHRgreen.org FOG Program
757.420.8300 | HRFog.com

WHAT IS FOG

and why is the installation of grease control devices required?

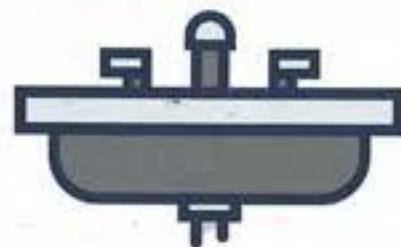


FOR A CLEANER, GREENER HAMPTON ROADS

 **askHRgreen.org**

ALL FOOD SERVICE ESTABLISHMENTS SHOULD:

- ☐ Have proper grease control devices installed.
- ☐ Routinely clean or pump out the grease control device, making sure it is less than 25% full of grease and settled solids.
- ☐ During cleanings, check the grease control device to make sure it contains all necessary components such as inlet/outlet T's, flow control, baffle walls and the structure is in good operating condition.
- ☐ Keep records on-site of oil collection and grease control device pumping/cleaning and maintenance to provide inspectors.
- ☐ Maintain a spill kit capable of handling at least a five-gallon spill of grease or cooking oil.
- ☐ Train staff to implement Best Management practices for grease.
- ☐ Require kitchen staff to complete the free online FOG certification program at HRFog.com.



INSIDE Kitchen Tips

Post "NO GREASE" signs above sinks.

Avoid using food grinders; they fill up grease control devices too quickly.

Use strainers in sink drains to catch food scraps and other solids; empty strainer contents into trash.

Educate and train kitchen staff about grease control.

"Dry wipe" all pots, pans, and plates prior to washing.

Keep hoods clean. Wash hood filters in sinks that flow to grease control devices attached to the sanitary sewer system.

OUTSIDE Cooking Oil Storage Tips

Store cooking oil in leak-proof containers with secure lids.

Position dumpsters and storage containers away from storm drain openings.

Secure containers to prevent accidental spills, vandalism, or unauthorized use.

Routinely inspect the storage containers for open lids, spills, or illegal dumping.

Do not overfill storage containers. When full, call to have them serviced.

If there is a spill, clean it up immediately using a spill kit.



Wash all floor mats and grills in a utility sink so the wastewater goes to a grease control device. Never clean them where wastewater can flow to the gutter, storm drain, or street.

Managing Fats, Oils and Grease

Never



NEVER pour cooking residue directly into the drain.

NUNCA vierta residuos de cocina directamente en el drenaje.

切勿将烹饪残渣直接倒入下水道。



NEVER dispose of food waste into the garbage disposal.

NUNCA eche restos de comida en la trituradora de basura.

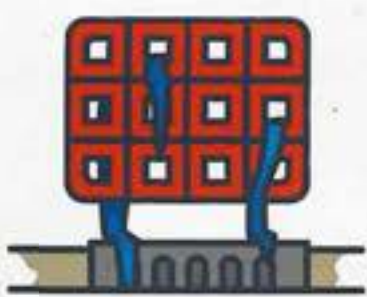
切勿将食物残渣倒入垃圾处理器中。



NEVER pour waste oil down the drain.

NUNCA vierta restos de aceite en el drenaje.

切勿将废油倒入下水道。



NEVER wash floor mats where water will run off directly into the storm drain.

NUNCA lave tapetes de piso en sitios donde el agua corra directamente hacia el drenaje de lluvias.

切勿在水可直接流入雨水排水沟的地方清洗地垫。

Always



ALWAYS wipe pots, pans, and work areas prior to washing.

SIEMPRE limpie con un paño las ollas, sartenes y áreas de trabajo antes de lavarlas.

请务必在清洗之前擦净厨具并清洁工作区域。



ALWAYS dispose of food waste directly into the trash can.

SIEMPRE elimine los restos de comida directamente en el contenedor de basura.

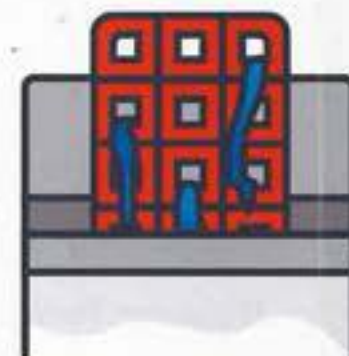
请务必将食物残渣直接倒入垃圾桶。



ALWAYS collect waste oil and store for recycling.

SIEMPRE recolecte los restos de aceite y guárdelos para su reciclaje.

请务必收集废油并存储以进行循环再利用。



ALWAYS clean mats inside over a utility sink that is connected to a grease control device.

SIEMPRE lave los tapetes de piso en un fregadero de lavado que esté conectado a un atrapagrasas.

请务必在接好油控装置的公用水槽中清洗地垫。

For more information, please contact the askHRgreen.org FOG Program

757.420.8300 | HRFog.com

Start at Home

Every-day activities greatly affect the health of our waterways. This guide contains tips on how you can help protect our waterways, starting at home.



What is Stormwater Runoff?

Stormwater runoff occurs when rain or melted snow flows over parking lots, sidewalks, streets, or any other surface that cannot absorb water. As stormwater runoff moves, it picks up dirt, trash, oil, grease, fertilizers, and other pollutants. It carries them into the storm drain system, which empties directly into local waterways.

Stormwater runoff does not flow to a treatment plant; it flows directly into our rivers, bays, and ocean. Pollution from untreated stormwater runoff affects drinking water supplies, recreation, fisheries, and wildlife.



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A Clean, Healthy Bay Starts at Home

Residential Guide to Stormwater Runoff



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Residential Guide to Stormwater Runoff

A Clean, Healthy Bay Starts at Home

Your Pets

Pick up pet waste.

Always clean up after your dog, whether it's on your lawn, in the park, or at the beach.



Carry extra bags. Take along bags when walking your dog and make them available to other pet owners who are without. When travelling with your dog, ensure you always have extra bags in your car.

Pools & Spas

Let it be. Before draining, let pool water sit for several days without treating to allow chlorine to dissipate.

Break down chlorine. Add sodium thiosulphate to break down chlorine faster.

Avoid algaecides. Maintain your pool's chemicals properly and avoid use of copper sulfate.

Check pH and drain only clear water. Water should not appear murky and pH should be between 6.5 and 8.5 before draining.

Drain water to grassy areas. Grassy areas will soak up water rather than let it flow to nearby storm drains.

Clean your pool, fountain, or spa regularly. Maintain proper chlorine levels, water filtration, and circulation.



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Vehicle Maintenance

Repair Leaks. If you discover spots in your driveway or have to fill fluids often, make repairs right away.

Clean up leaks or spills promptly. Use dry, absorbent materials, such as cat litter, and a broom to clean up leaks. Be careful to keep dirty water from running into the street and storm drain when hosing down garage floor or driveway.

Use drip pans. Install a drip pan under a leak until it is repaired. Place large pans under severely damaged cars to catch fluids.



Recycle waste oil. When you change your own oil, use an oil change box. Change your oil away from storm drains and have old rags or other absorbent materials available to respond in case of a spill. Take used oil to an auto parts store or hazardous waste collection facility.

Recycle antifreeze/coolant. Take used coolant to an auto parts store or hazardous waste collection facility. Check your radiator hoses when changing your oil and inspect your car at the first sign of a coolant leak.

Recycle used batteries. Many auto parts stores accept old batteries for recycling.

Be mindful of runoff. Do not store used vehicle parts in areas that drain to the storm drain.

Wash vehicles on grass or gravel. Wash your car only in areas that allow water to soak into the ground. If you wash your car on a street, use soap sparingly, and use a hose nozzle with flow restriction or a bucket and sponge to minimize runoff and save water. Dispose of the dirty, soapy water in a utility sink, on grass, or gravel.

What is Stormwater Runoff?



Every-day activities greatly affect the health of our waterways. This guide contains tips on how you can help protect our waterways, starting at home.

Stormwater runoff occurs when rain or melted snow flows over parking lots, sidewalks, streets, or any other surface that cannot absorb water. As stormwater runoff moves, it picks up dirt, trash, oil, grease, fertilizers, and other pollutants. It carries them into the storm drain system, which empties directly into local waterways.



Stormwater runoff does not flow to a treatment plant; it flows directly into our rivers, bays, and ocean. Pollution from untreated stormwater runoff affects drinking water supplies, recreation, fisheries, and wildlife.

Household Hazardous Waste

Use alternative products. Select non-hazardous or less hazardous products that do the same job.

Reduce. Buy only what you need. Any unused materials can be shared or donated.

Recycle. Household hazardous waste (HHW) is accepted for recycling or safe disposal at VPPSA collection events, SPSA hazardous waste collection facilities, and select locally convenience centers. Find the collection site for your locality at askHRgreen.org/recycle.

Item	Disposal Instructions
Cleaning Products Drain cleaner, bleach, cleaners	Keep in original container or label contents and take to a HHW collection event or site.
Lawn & Garden Chemicals Fertilizer, pesticide, pool chemicals	Keep in original container or label contents and take to a HHW collection event or site.
Automotive Products Oil, gasoline, antifreeze	Keep in original container or label contents and take to a HHW collection event or site.
Workshop Supplies Paint, glue, stains	Keep in original container or label contents and take to a HHW collection event or site.
Rechargeable & Lithium Batteries	Dispose of at a HHW collection event or site.
Alkaline Batteries	Recycle at a battery store or dispose of in your household trash.
Electronics	Donate to charity or recycle at a collection event.
FOG (fats, oils, & grease)	Cool or freeze in sealed, heat-safe container and dispose of in household trash. Fryer oil may be accepted at HHW events or sites.
Medication & Prescription Drugs	Return to a pharmacy or drop-off location. Can also be disposed of in the trash if crushed/diluted and mixed with cat litter or sawdust.

Lawn & Garden

A healthier Bay means a safer environment for us all to enjoy for years to come. Your yard can be one of the greatest defenses against water pollution. There are plenty of ways to maintain a beautiful, healthy, Bay-friendly landscape. Here are just a few of them...

PLANT MORE PLANTS



STORMWATER RUNOFF TRAVELS FROM YOUR YARD TO LOCAL STREAMS, CREEKS, RIVERS AND THE BAY

Plant Native Flowers, Trees, and Shrubs



Trees, shrubs, and hardy perennials can beautify your home, help stabilize soil, and absorb and filter stormwater runoff. Use native plants; they are adjusted to local growing conditions, provide food and nectar for native wildlife and butterflies, and use less water and fertilizer.

By planting more plants, homeowners can improve the health of the Chesapeake Bay.

As stormwater flows across hard surfaces and through landscaped areas, it carries particulates through drainage systems and into local waterways. Harmful amounts of nitrogen, phosphorus, sediment and other pollutants are channeled from residences directly into the waters of the Bay.

- These pollutants include:
- fertilizer
 - pesticides
 - eroded topsoil
 - oil and gasoline
 - pet waste

Homeowners can mitigate the amount of harmful elements that reach the Bay through landscaping practices that include reducing hard surfaces, fertilizing responsibly and planting native trees, shrubs, plants and grasses.

Choosing the right species and planting in abundance will establish expansive root systems to hold soil in place, creating a natural filter that reduces the harmful effects of fertilizers, pesticides and spilled fuels.

Mulch, Mulch, Mulch



Mulch helps to control erosion, retain moisture and stabilize soil temperature. A two-inch layer of mulch material, such as fir bark, pine needles or wood chips, will reduce water loss and maintain uniform soil moisture around roots. Mulch can also reduce or eliminate weeds that compete with landscape plants for moisture, nutrients, and sunlight.

Sweep It Up



Clean up anything that is lying on pavement. Fertilizer spill? Sweep or blow it into the yard, not into the street.

Mow It



Proper mowing is important for a well-kept lawn. Newly seeded lawns should be mowed early and often, leaving 1.5 to 2.0 inches of grass height. Once your lawn is established, set the mower blade higher, leaving 2 to 3.5 inches of grass.

Leave Lawn Clippings



After mowing, leave grass clippings on your lawn. Clippings break down and return nitrogen to the lawn, generating up to 25% of the lawn's fertilizer needs.

Fertilize With Care



During application, keep fertilizer off of paved surfaces by sweeping excess back into the lawn. Never apply fertilizer to driveways, sidewalks, or roadways where it can easily be washed into storm drains or ditches.

Know Your Grass



For cool season grass, such as fescue or ryegrass, seed in the late summer. For warm season grass, such as zoysiagrass or Bermuda grass, seed in early spring. Seed bare areas during the appropriate time of year to reduce erosion potential.

Test Your Soil



Save money by having your soil tested. Soil testing will ensure you get the right fertilizer with the nutrient levels that your lawn requires and will determine the right amount needed so you don't over fertilize. Testing should be done every 3-4 years in the fall.

A Clean, Healthy Bay Starts at Home



Find out more at askH2Rgreen.org

Graphic used with permission from PlantMorePlants.com



THERE IS NO SUCH THING AS A LITTLE LITTER.

It spoils our views, our values and our vitality. In fact, litter isn't just unattractive, it decreases property values by more than 7%, and could lead to graffiti and general decline.



GOOD TO KNOW

It used to be that Canada geese were visitors in Hampton Roads, not residents, leaving when other migratory birds left. Today, they have adapted to life here year round, and while they can be a nuisance, they are protected by the Migratory Bird Treaty Act.

THE GEESE NUISANCE

Public feeding of geese may cause poor health and deformities due to nutritional deficiencies.

Each Canada goose may produce up to three pounds of bacteria-filled feces per day.

Flocks of Canada geese can contribute to water pollution and present a risk to public health for diseases such as botulism, salmonella and E. coli.



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GOOD TO KNOW

FOG = FATS
OILS
GREASE

Kitchen Grease	Food Scraps	Dressings
Meat Fats	Dairy Products	Icing
Lard/Shortening	Cooking Oil	Sauces
Butter/Margarine	Batters	Soups

KEEP OUR SEWERS FOG-FREE

Originating in our kitchens, it clogs sanitary sewer systems across Hampton Roads and is harmful to the environment. When poured or washed down the drain, FOG builds up on pipe walls, restricting the flow of wastewater from our homes. Over time, FOG leads to blockages that result in overflows into our homes or onto our streets, down storm drains, and into local waterways, all posing a serious risk to public health.



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GOOD TO KNOW

Did you know there are bacteria, viruses, and parasites in dog poop? Yuck!



If I could, I would.



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BE A GOOD NEIGHBOR.

GOOD TO KNOW

Litter in our community signals we don't care about what happens in our neighborhood, making the area more vulnerable to crime and more littering. **Simply, the presence of litter in a community affects our quality of life and property values.** Not to mention the harmful impact it has on our wildlife.

GOOD TO DO

● If you see trash around the neighborhood, pick it up. Be a good neighbor...and example.

● Keep litter and other debris off your streets and out of your storm drains.

● Be sure your trash containers stay covered to eliminate trash from spilling or blowing out.

● Gather your group and **TEAM UP 2 CLEAN UP** anywhere in or around your neighborhood.

Find more information, support and a toolkit from your friends at

askHRgreen.org



GOOD TO DO



Discourage geese from taking up residence in your neighborhood with these simple strategies:

- **Don't feed the geese.** Use signage to discourage public feeding of geese.
- **Make the habitat unattractive for geese.**
 - Plant tall, thick native plants on shorelines to discourage nesting.
 - Increase natural areas and decrease grassy open spaces.
 - Add 24-inch barrier fencing with three-inch openings around ponds and water sources.
 - Use geese repellants in areas where geese tend to congregate.
- **Curb geese** with noisemakers, professional herding dogs, or predator decoys to persuade them to leave. Do not harass geese during molting season, which is late June to August.
- **For population reduction**, contact the U.S. Fish and Wildlife Service for information about "egg addling." Egg addling should only be done from late March to early May.
- **For severe cases of nuisance geese**, contact the USDA Wildlife Services for additional services.



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GOOD TO DO



NEVER DISPOSE OF FATS, OILS AND GREASE DOWN THE DRAIN.

Keep your drains clog-free and healthy by practicing the following good-to-do methods:

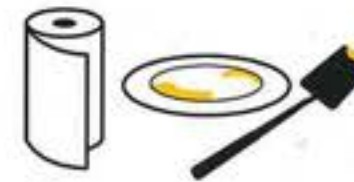
CAN THE GREASE *

① Pour used cooking grease into an empty, heat-safe container, such as a soup can, and ② store it in the freezer. Once solidified, ③ toss the can into the garbage.



SCRAPE THE PLATE

Wipe all pots, pans, dishes and cooking utensils with a paper towel prior to washing to absorb the grease.



CATCH THE SCRAPS

Eliminate using the garbage disposal. Catch food scraps in your sink with a basket or strainer and toss them into the trash.



RECYCLE

Large quantities of used cooking oil can be recycled through your local household hazardous waste program.



*Contact askHRgreen.org for a free grease can lid.

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GOOD TO DO



WE NEED YOU TO HELP KEEP OUR COMMUNITIES BEAUTIFUL AND WATERWAYS HEALTHY

Did you know when it rains the water and everything it picks up travels right down the driveway, into the street, into the storm drain and directly into our waterways? That's right, directly to our waterways where it can harm our blue crabs, fish and other underwater animals and plants.

HERE ARE SOME WAYS YOU CAN HELP:

- **Scoop the poop**
- **Know your grass and test your soil before you fertilize**
- **Keep yard waste out of the street and storm drain**
- **Plant flowers, trees, and shrubs**
- **Remember: cigarette butts are litter too**
- **Reduce. Reuse. Recycle.**

FOR A CLEANER, GREENER HAMPTON ROADS

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CLEAN WATERWAYS START WITH YOU

Our daily activities greatly affect the health of our waterways. Planning a car wash? This card contains tips on how your organization can raise funds while helping to keep pollutants out of our waterways.

CAN A CAR WASH POLLUTE?

When you wash a car on the street, in a driveway or parking lot, the water cannot be absorbed by these hard surfaces. As the water runs off the vehicle, it takes with it the soap and picks up dirt, trash, oil, grease, fertilizers, and other pollutants. These pollutants flow into the storm drain system, where the water is not treated but instead empties directly into our local waterways. Stormwater pollution affects drinking water supplies, recreation, fisheries, and wildlife.



CIGARETTES BUTTS = LITTER

WHEN A CIGARETTE BUTT ENDS UP ON THE GROUND AND NOT IN A RECEPTACLE, IT IS LITTER.



According to Keep America Beautiful, cigarette butts are the most littered item in America and make up:



38% of roadway litter



32% of litter in storm drains



32% of litter in outdoor recreation areas

No Matter How Small, All Litter Has An Impact

FILTERS ARE NOT BIODEGRADABLE because they contain cellulose acetate, a form of plastic that will persist in the environment.

CIGARETTE LITTER IS HARMFUL TO WILDLIFE AND MARINE LIFE when it is carried in stormwater runoff to local waterways. No one wants to swim with cigarette butts!

CIGARETTE BUTT LITTER IS UNSIGHTLY when it accumulates in corners, gutters, and outside doorways and bus shelters, creating a sense that no one cares about our community.

The average backyard swimming pool holds approximately 19,000 gallons of water that may contain a variety of biocides, algacides, and other chemicals. These chemicals are toxic to the environment and can pollute local waterways when emptied onto driveways, gutters, or streets.

Following best management practices protects the waterways where we fish, swim, and play.

Learn more at askHRgreen.org/pool or contact your local stormwater office.



REMEMBER THESE TIPS WHEN YOU WASH FOR TIPS

-  Hold your event at a commercial car wash. Ask the business to donate the profits to your fundraiser.
-  Sell commercial car wash coupons as a fundraiser instead of actually washing cars.
-  Use biodegradable, phosphate-free, water-based cleaners only.
-  Minimize water usage. Use a hose nozzle with flow restrictions to minimize water volume.
-  Wash on an area that absorbs water, such as gravel or grass.
-  Place plastic sheeting and then a heavy rubber mat over the storm drain grate to prevent wash water from entering the storm drain system.
-  Seal off storm drain openings along the curb with a sheet of heavy plastic topped with sand bags or other weights.
-  Use sandbags, rolled towels, hoses, or other materials to divert the runoff to an area that absorbs water, such as gravel or grass.
-  Empty wash buckets into sinks, toilets or onto a grassy area.
-  Wring sponges and rags into a bucket, not onto the ground.

Learn more at askHRgreen.org

 [askHRgreen](https://www.instagram.com/askHRgreen)  [askHRgreen.org](https://www.facebook.com/askHRgreen)

GOOD to DO



Smokers

Smokers can help prevent cigarette litter by choosing not to litter and by following these tips:

- » Before you light up, identify an ash or trash receptacle where you will dispose of cigarette waste.
- » Carry a pocket ashtray all the time.
- » Encourage fellow smokers to be responsible for their litter.
- » Never throw cigarette butts out of car windows.

Businesses

Cigarette butt litter most often occurs when ash receptacles are not placed at areas where people are transitioning. Here's what you can do to help:

- » Provide ash and trash receptacles at entrances, loading docks, picnic areas, parking lots and along walkways of your business.
- » Educate your employees about their individual responsibility for a clean and safe working environment.
- » Participate in an "adopt-a-spot" program to clean up public places.

All Community Members

You can help by implementing Keep America Beautiful's Cigarette Litter Prevention Program which has 5 steps:

- » Gather a Task Force
- » Assess Community Needs and Establish a Budget
- » Kick-off Cigarette Litter Prevention Program
- » Evaluate Program Impact
- » Sustain and Expand

For more information about this program, go to
PreventCigaretteLitter.org

to learn about all things **GOOD & YOU**
askHRgreen.org

 /askHRgreen  /HRgreen

GOOD TO DO



Cleaning

- ✓ Clean your pool or spa regularly.
- ✓ Pump filters should be cleaned over grassy areas. Never rinse filters in the street, gutter, or storm drain.
- ✓ Backwash sand and diatomaceous earth over a grassy area; dispose of backwash solids in the trash or in a landscaped area.



Draining

- ✓ Before draining, stop adding chlorine, bromine, or salt to your pool and let the water sit for approximately 10 days to allow chemical levels to dissipate naturally.
- ✓ Before discharging the water, use a pool testing kit to ensure the following:
 - ✓ total residual chlorine or bromine is less than 0.1 milligrams per liter (mg/L) or parts per million (ppm)
 - ✓ pH is between 6.0 and 8.0
- ✓ Drain pools slowly, over a few days, to well-vegetated areas on your property where it can be absorbed into the soil.
- ✓ Monitor the water as it drains to avoid flooding, erosion, or pooling that could breed insects or create odors.



General Maintenance

- ✓ Cover the pool when not in use.
- ✓ Maintain your pool's chemicals properly and avoid use of copper sulfate.
- ✓ Keep the pool and filters clean to minimize the need for backwashing.
- ✓ Store chemicals in a clean, dry, covered area.

Learn more at askHRgreen.org/pool

askHRgreen.org

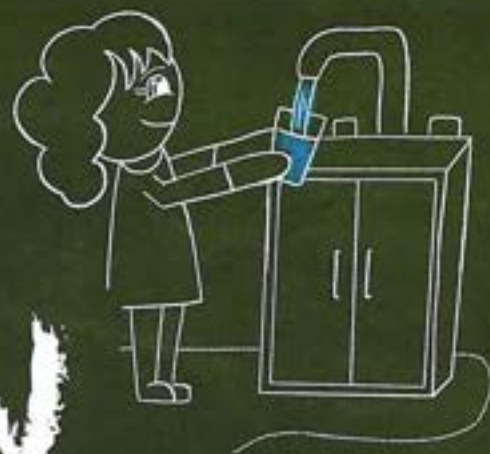
GREEN LEARNING GUIDE

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WHERE WE LIVE IN HAMPTON ROADS

Welcome to Hampton Roads! Hampton Roads is home to 1.7 million people. It is a region known for its rich history, military presence, and miles of beaches. In this Green Learning Guide, we'll explore the region and learn all about the different ways our actions have an effect on this place we all call home. Protecting the environment is everyone's responsibility. Every decision you make and every action you take make a difference. Let's get started by taking a tour of the region from this bird's-eye view!



GETTING TO KNOW HAMPTON ROADS

USE THE MAP AND KEY TO ANSWER THE QUESTIONS

- 1 In which square is the King Neptune landmark located?
- 2 What river is located in D2?
- 3 In which square is the Coliseum located?
- 4 What river is located in C5?
- 5 What is the largest river on the map?
- 6 How many squares on the map contain land only, no water?



CHALLENGE QUESTIONS

Where is your school located on the map?

Name the waterway closest to your school.

Calculate the area of one square on the grid.

Roller Coaster

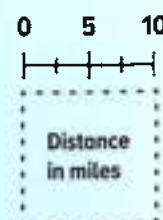
Coliseum

U.S.S. Wisconsin

King Neptune

Farm

Peanuts



WATER IS ALL AROUND US IN HAMPTON ROADS

From small creeks and streams to rivers, Hampton Roads is surrounded by water, including the largest **estuary** in the United States and the third largest in the world, the Chesapeake Bay. An **estuary** is a body of water where freshwater and saltwater mix. The Chesapeake Bay supports more than 3,600 species of plants and animals, and produces about 500 million pounds of seafood per year.

THE CHESAPEAKE BLUE CRAB BLUES

One of the most popular species in the Chesapeake Bay is the blue crab, but the blue crab **population** has fallen to near-record lows. Scientists say there are two main causes for the decline: **pollution from human activity** and **overfishing** (catching crabs faster than they can reproduce). **Polluted stormwater runoff** from human activity prevents sunlight from reaching underwater grasses and makes algae grow quickly. Once the algae decays, it robs the waterway of the oxygen needed to sustain life. This hurts blue crabs in two ways: by killing the food they eat, such as oysters and worms, and by destroying the underwater grasses they use to hide from predators such as fish, birds, and turtles. Clean water is essential for healthy populations of blue crabs and other species native to Hampton Roads.

Stormwater runoff is water from rain or melting snow that "runs off" across the land instead of seeping into the ground.

CREATE A SCENE BELOW THAT INCLUDES THE FOOD CHAIN FOR THE BLUE CRAB AND THE APPROPRIATE HABITAT NEEDS FOR EACH PRODUCER OR CONSUMER YOU DRAW.



NOW CHALLENGE YOURSELF WITH THESE QUESTIONS!

How does pollution harm the habitat of the blue crab?

What are some ways you can think of to help the blue crab population?

If the blue crab population were to continue to decline, what impact would it have on other consumers and producers in the Chesapeake Bay?

Water Cycle

The water from your faucet goes through quite an amazing journey before it ever makes its way to your glass. This journey is called the natural water cycle. Through this continuing process of **evaporation, condensation, and precipitation**, Earth's water is recycled over and over again.

Treatment Systems and Processes

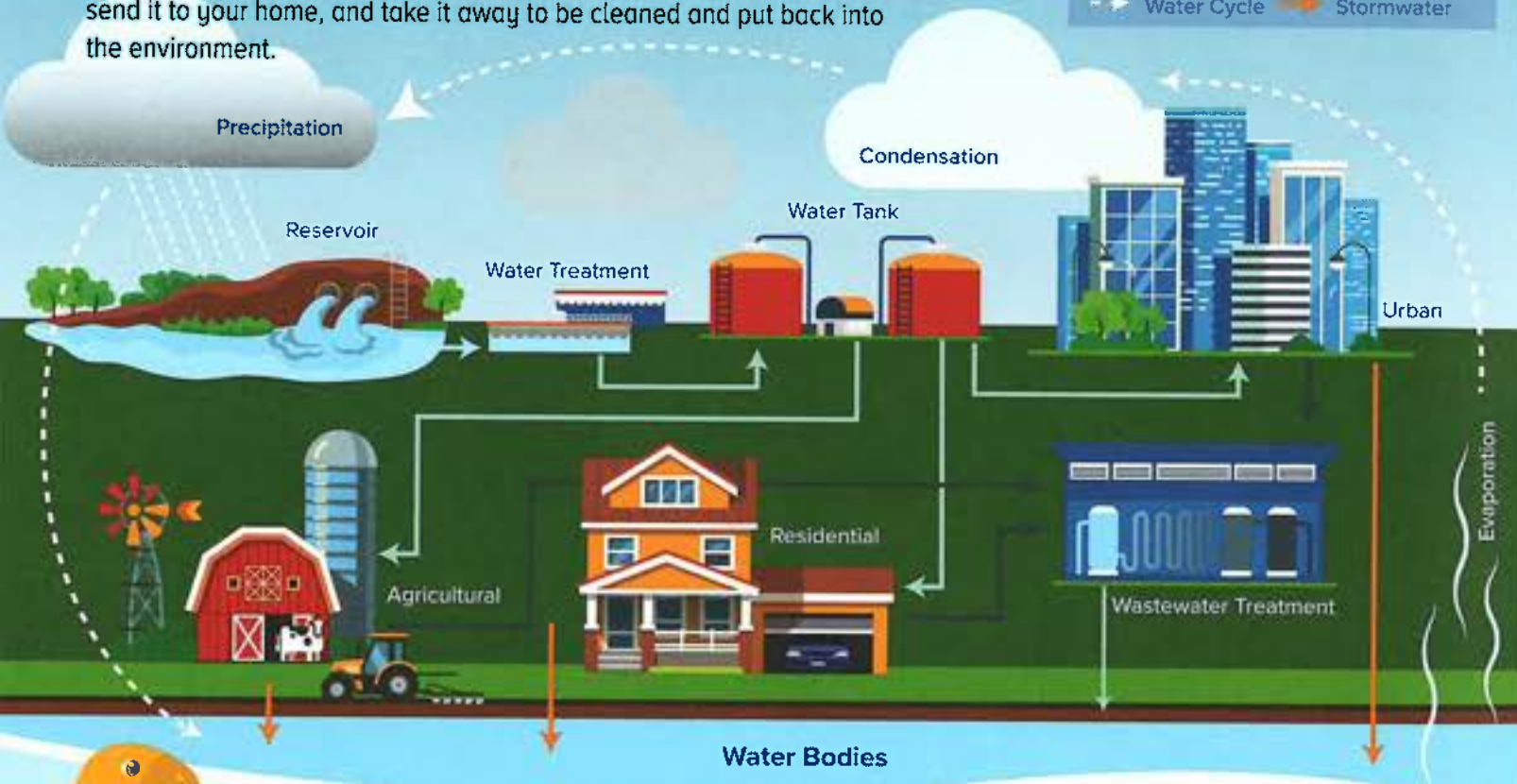
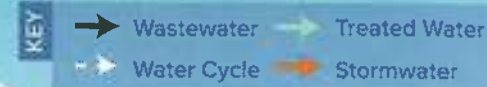
Increased population and development have changed the natural water cycle. The new water cycle is called an urban water cycle and includes things people do. It's the process by which our local water and wastewater utilities collect water from lakes and rivers in reservoirs, clean up the water, send it to your home, and take it away to be cleaned and put back into the environment.

Key Vocabulary Words

 **Evaporation** occurs when water in rivers, lakes, oceans, and other waterways is heated by the sun and changes from a liquid to a gas called water vapor as it rises through the air.

 **Condensation** occurs when water vapor gathers in clouds and forms liquid water.

 **Precipitation** occurs when water falls to earth. Gravity causes the water to fall to earth as rain, snow, hail or sleet.



Did you know?

Thanks to the water cycle, the water on our Earth today is the same water that has been here for nearly **5 billion years**! That means there is a very good chance you are drinking the same water that thirsty dinosaurs were drinking about **65 million years ago**.

Public Drinking Water System
Pumps water from reservoirs, lakes, and rivers to treatment plants where it is cleaned and brought to our homes through pipes. In rural areas, some homes may use a well for drinking water. Wells pull drinking water directly from water stored between rock layers in the ground.

Public Wastewater System
Used water is taken from our homes through pipes when we flush the toilet, take a shower, or otherwise run water down our drains to a

wastewater treatment plant where it is cleaned before being released into the environment. In rural areas, some homes may use septic systems for wastewater treatment. A septic system is basically a miniature wastewater treatment system right in your own backyard.

Stormwater System

Takes rain water away from homes and streets through the stormwater openings on your neighborhood curbs or the grates in public streets. This water is not cleaned and flows directly to our local waterways.

Pretend you are a water drop traveling through the water cycle.
Create a comic strip about your journey starting in a cloud. Where will you fall? What will happen next?



Water Systems Marathon

THE OBJECTIVE of the race is to finish first. Every right answer is worth **5 seconds**. Every wrong answer slows you down and adds **10 seconds** to your score. A world-class marathoner can complete this race in **30 seconds**.

INSTRUCTIONS

Select if the action is  = Good or  = Bad

START

1.  

2.  

3.  

4.  

5.  

6.  

FINISH

SCORE _____

Correct answers: $\times 5 =$ _____

Wrong answers: $\times 10 =$ _____

CHALLENGE ACTIVITY

Note which water system each activity is impacting.

D = Drinking Water System

W = Wastewater System

S = Stormwater System



WHERE DOES IT GO?

Find the eight items with numbers next to them on these two pages. Write the number of each item next to where they go: the compost bin, recycling bin, or trash bin.

COMPOST BIN



Biodegradable, organic waste (meaning it can be broken down) goes here. Compost decomposes into nutrient-rich soil that can be used to fertilize plants. Nothing gets wasted!

RECYCLING BIN



This is for waste that can be turned into a totally new product. It might look like trash, but it can be broken down and given a new life instead of going to the landfill.

TRASH BIN



This is for waste that can't be recycled or composted. These items are taken to a landfill and can stay there for thousands of years. This should be your smallest bin.

MACHINE SCAVENGER HUNT

You don't see them, but there are pipes in your walls and floors that are connected to every drain in your home. Sometimes water moves through pipes with the help of gravity, and other times pumps are used to push the water through the pipes. Moving clean water into your home and taking dirty water away to be treated are just two examples of "work" that happens every day with the help of machines.

Simple machines are simple tools used to make work easier. Compound machines have two or more simple machines working together to make work easier.

Name six simple machines on these pages.

- 1 Lever:
- 2 Inclined Plane:
- 3 Wedge:
- 4 Screw:
- 5 Wheel and Axle:
- 6 Pulley:

Find a compound machine. What simple machines work together to make this compound machine?

A _____ is a compound machine made up of these simple machines:

GET HOOKED ON LITTER-FREE WATERWAYS!

Litter starts and stops with us! Litter is 100% preventable. The actions we take every day affect the air, land, water, and the living creatures who make those areas their home.



Activity

You are fishing in the river in your neighborhood park. Unfortunately, it looks like litter from the park has ended up in the river! Can you "catch" everything in the water?

Circle the things that belong in the water. Draw an "X" on the things that DO NOT belong in the water.

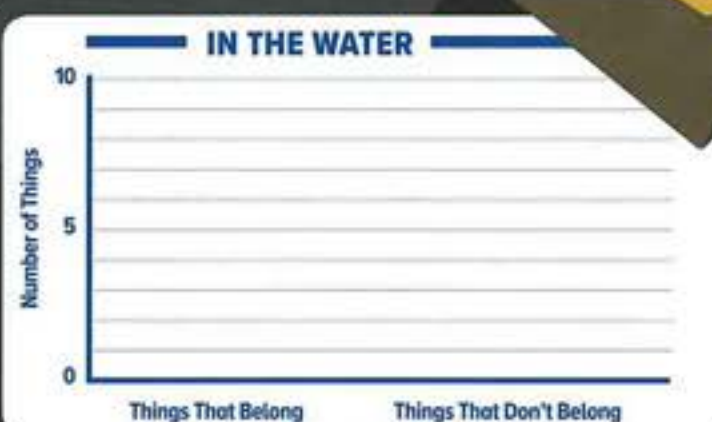
How many things belong in the water?

How many things do not belong in the water?

Did you know **litter** hurts our **ecosystem**? An ecosystem includes all the living and nonliving parts of an environment that interact together. Ecosystems support many plants and animals that share limited **resources**. There are two types of ecosystems: **aquatic** and **terrestrial**. Aquatic ecosystems are identified by a large body of water surrounded by land. In an aquatic ecosystem, there are two types of water: **freshwater** and **saltwater**. Water from the rivers and streams are freshwater. Water from oceans are saltwater. In Virginia, there are several rivers that flow into the **Chesapeake Bay** and eventually into the Atlantic Ocean.

Bonus Activity

Now, make a bar graph to chart the number of items in each category: things that belong in the water and things that do not belong in the water.



Some of the animals found in aquatic ecosystems include birds, insects, fish, turtles, crabs, and even ducks. Plants in an aquatic ecosystem help make oxygen and provide food for the animals. People are responsible for conserving resources to protect our ecosystem. When people throw trash on the ground, overuse chemicals, or destroy habitats, it creates **pollution**. When pollutants get into our water, they harm the plants and animals that depend on it to survive.

The list on the left contains a "problem" that leads to pollution. The list on the right contains a "solution" that prevents pollution.

CAN YOU MATCH THE PROBLEM WITH THE SOLUTION?

PROBLEM	SOLUTION
Katie's plastic bag flew out of her hand when she was leaving the grocery store.	1 A Keep a litter bag in the car to collect vehicle trash.
Jake threw his soda bottle on the ground after he finished drinking.	2 B Pick up litter on the ground so animals do not think it is food.
Sam threw her chip bag out of the car window.	3 C Throw bottle you're finished with in the recycling bin.
A bird has a bellyache from eating a piece of plastic it thought was food.	4 D Put a lid on any uncovered trash cans.
Trash has fallen out of a trash can without a lid.	5 E Use a reusable bag for groceries.

BONUS ACTIVITY

Can you think of other solutions to these problems? Write a different solution below each problem.

Test Your Knowledge

- Litter is waste out of place. How did the litter get into the river?
 - The fish put it there
 - Humans put it there
 - The crabs put it there
- Habitats can continue to support the fish, birds, and other animals that live there if people:
 - Keep littering
 - Add more water to the river
 - Leave the natural habitat alone
- Which of these can affect the quality of water in our local rivers?

A

B

C
- People can help keep rivers a good place for aquatic wildlife by:
 - Preventing litter and chemicals from flowing into the water
 - Draining the river and starting over
 - Leaving dog waste on the ground to flow into the water

Stormwater Pollution

Oh, POOP!

Picking up dog waste is more important than just keeping your yard (and shoes) clean! It is important to the environment.



Dog poop is a major contributor to stormwater pollution. It doesn't just decompose. Dog poop contains harmful bacteria and parasites that can contaminate our water and spread disease to humans. It is also high in nutrients that will cause algae to grow in our waterways.

You can make a difference by being a responsible pet owner. Picking up after your pet is easy, if you're prepared. Simply carry a plastic bag with you on every walk with your dog, and you'll have the equipment you need to remove your dog's waste.

What is the correct way to dispose of your dog's poop? Bag it and throw it in the trash.

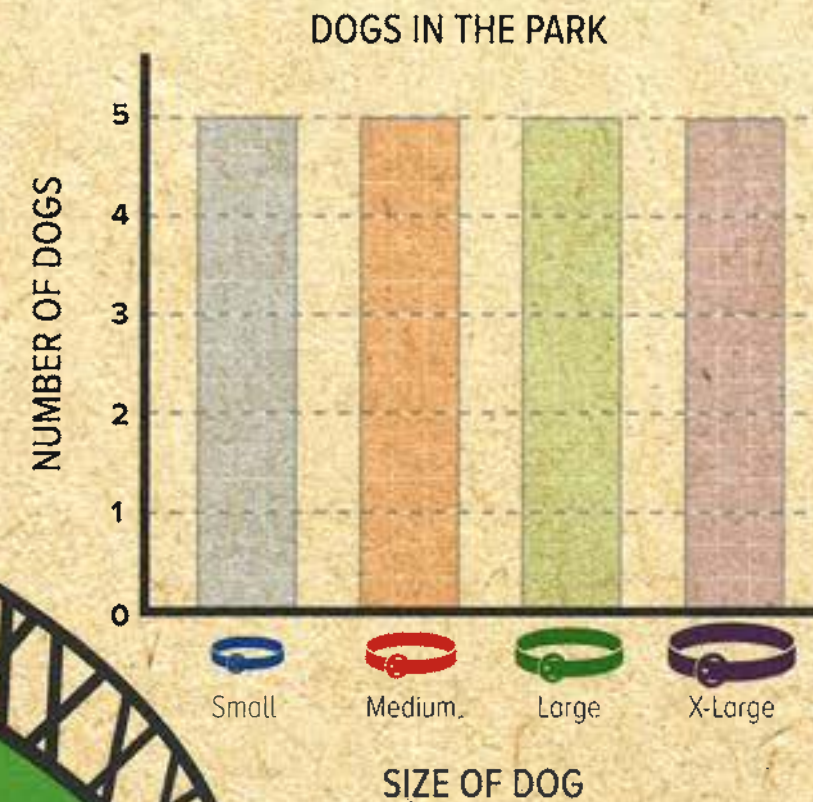


FUN FACT

The City of Norfolk has the second highest number of dog parks per person in the United States.

How many dogs are in the dog park (by size)?

Using the image on the left, graph how many of each size dog are in the park. Then, answer the questions.



- How many medium-sized dogs are in the park?
- How many more large dogs are there in the park than extra-large dogs?
- If two more small dogs came to play in the park, how many small dogs would there be in all?
- Using the graph, order the groups of dogs from least to greatest.
- If there were seven frisbees in the park, would there be enough for the medium and large dogs to each have one?

No one picked up the dog poop in the park today!

Figure out how many ounces of poop each group of dogs left behind to run off and pollute the river.

_____ x 5 oz. = _____ oz. of poop per day	_____ x 20 oz. = _____ oz. of poop per day
# of small dogs	# of large dogs
_____ x 11 oz. = _____ oz. of poop per day	_____ x 37 oz. = _____ oz. of poop per day
# of medium dogs	# of x-large dogs

How many ounces of dog poop in all was left to run off and pollute the river?

_____ oz.	+	_____ oz.	+	_____ oz.	+	_____ oz.	=	_____ oz.
small dogs		medium dogs		large dogs		x-large dogs		



Trace the path of this rain drop falling on the road as it moves to the river. Put an "X" through things on the path that should not go through the storm drain.



A QUIET, RAINY DAY

It's raining in the city. Everyone takes out their umbrellas and jumps over puddles. Rain that falls on grass and trees soaks into the ground. The plants use the water to help them grow, but there aren't a lot of plants in the city. Most of the rain falls on buildings or the hard ground. Then it goes into the street and moves downhill. Rain that runs off of buildings and the street is called **stormwater**.

The water picks up trash and oil from the road as it flows. It goes into an opening in the road called a **storm drain**. The storm drain connects to a big pipe under the road. This pipe carries water to nearby waterways, such as streams and rivers. The trash and oil in the water also go to these places.

Animals and plants depend on clean water. What are some ways you can make sure only clean rain water goes down the storm drain?

HELP KEEP THE WATER CLEAN

Farmer Jane needs some help protecting water quality. Her field is bare and there are no trees or shrubs surrounding it. When it rains, the soil runs off into the nearby stream. This is called **erosion**. She also needs help containing her cows. Her pasture is open and she has no way to keep them (and their manure) out of the water.



CHALLENGE YOURSELF

In this picture, draw some solutions to help Farmer Jane keep the river clean.

- 1 What can you add to protect the shoreline?
- 2 How can you reduce erosion from bare fields?
- 3 How can Farmer Jane keep her cows from going into the water?

DOWN AND DIRTY

What is the difference between soil and dirt? **Soil** is a mixture of inorganic particles weathered from bedrock and organic material, both alive and dead. And dirt, well, that's what gets under our fingernails or tracked across the carpet when we don't clean our shoes. (Sorry, Mom!)

Without proper soil, a farmer cannot grow food. Soil stabilizes crops so they can grow tall and plants stabilize soil to prevent erosion. Soil is also important for filtering stormwater, but when soil becomes compacted or hard, it cannot filter rain down to the roots of a farmer's crops. Healthy soil is an important part of our human food chain. Soil is important off the farm, too. It provides a foundation for building roads, houses, schools, and businesses.

CAN YOU IDENTIFY EACH LAYER OF SOIL?

— This layer is made mostly of minerals and most plant roots live here. This layer is also dark in color due to the amount of decaying plant and animal matter.

— This layer is made of sand, silt and clay that have not been broken down all the way, so it usually has less organic material and is lighter in color.

— The lowest layer of soil. It is a solid rock layer.



HEROES FOR THE ENVIRONMENT

Sometimes it's easy to say "I'm just a kid. What can I do to help the environment?" Take a look around at AMAZING kids here in Hampton Roads and what they are doing!



JAMES CITY COUNTY HERO

Boy Scout Troop 1607 cares about the environment — and boy, do they love oysters! The scouts built an oyster collection bin at the Toano Convenience Center and have bagged 18,000 oyster shells. They use these shells to help baby oysters who need the shells to grow on. They are also working with their Soil and Water Conservation District to learn about topography and soil conservation.

WHAT CAN YOU DO WITH ALL THOSE BOTTLE CAPS?

Keep Suffolk Beautiful collected over 20,000 bottle caps of various sizes and colors and turned them into a beautiful mural. **Suffolk Art League** assisted in the masterpiece. This fantastic project drew community-wide attention to the problem of plastics in the environment.



NEWPORT NEWS GETS A MEDAL!

Eagle Scout Conner McKeown placed more than 100 medallions on Newport News storm drains to call public attention to what goes down the drains. **Sedgefield Elementary School** also took positive steps to address stormwater on school grounds by planting over 100 trees and plants.



ANSWER GUIDE

Page 2

1. H5
2. York River
3. F4
4. Blackwater River
5. James River
6. 0

Challenge Answer:
The area of one square is 100 miles.

Page 5

1. Good, S
2. Bad, D
3. Bad, S
4. Good, W
5. Bad, W
6. Good, D

Page 6

Compost Bin: 2, 9
Recycling Bin: 4, 7, 8
Trash Bin: 1, 3, 5, 6

Page 7

1. Broom, Swing, Office Lamp, Axe, Toilet Handle
2. Pipe, Slide, Ladder, Downspout, Roof
3. Axe
4. Light Bulbs
5. Bicycle, Wheelbarrow
6. Flag Pole

Compound Machine:
A **wheelbarrow** is made of a wheel and axle and lever.

A **bicycle** is made up of wheels, axles and levers

Page 8

Eight things belong in the water.
Ten things do not belong in the water.

Page 9

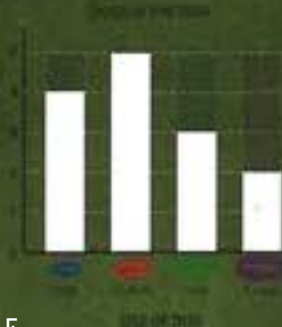
Problem and Solution

1. E
2. C
3. A
4. B
5. D

1. B
2. C
3. B
4. A



Page 11



1. 5
 2. 1
 3. 6
 4. X-Large, Large, Small, Medium
 5. No
- Small dogs = 20 oz.
Medium Dogs = 55 oz.
Large Dogs = 60 oz.
X-Large Dogs = 74 oz.
20 oz. + 55 oz. + 60 oz. + 74 oz = 209 oz.

Page 12

Draw a X on dog poop, motor oil, and litter.

Page 13

Topsoil
Subsoil
Bedrock

NORFOLK'S ENVIRONMENTAL HEROES

Norfolk Collegiate "Oak Ambassadors"

They participate in the annual Great American Cleanup around Earth Day.

Maury High School Recycling Club

They partnered with Keep Norfolk Beautiful to expand recycling at their high school. They also purchased recycling bins with askHRgreen grant to supplement bins given by KNB and planned a Go Green Fair.

Norfolk Collegiate 7th Graders

They cleaned up Lafayette Park and boat ramp for International Coastal Cleanup. They also collected 18 bags of trash (270 pounds) and categorized 4,037 pieces of litter.

Oceanair Elementary School Community

They joined the Adopt-A-Spot program and cleaned along Dudley Avenue in Norfolk. In one school year, they have collected 405 pounds of litter.

The message is clear. **People working together can make a BIG difference in our communities!**

YOU CAN MAKE A DIFFERENCE!

Pledge to do these five things and be a Hampton Roads hero!



Recycle paper, aluminum cans, and plastic bottles.



If you see trash, pick it up! Don't leave trash in your yard, playground, or school.



Carry a reusable bottle to fill with tap water to quench your thirst.



Adopt the storm drain or ditch in your neighborhood. Make sure your neighbors know only rain goes down the drain (or ditch).



Only flush the three Ps – pee, poo, and (toilet) paper.



Want to take your commitment to the next level?

CHECK OUT THE ASKHRGREEN.ORG MINI GRANT PROGRAM

askHRgreen.org offers **environmental education mini grants of up to \$500**. The mini grants are intended to provide funding for environmentally-themed projects and may be used to fund a portion of or an entire project. **All Hampton Roads school teachers (K-12), youth leaders, or organizations working with youth are eligible to apply.** Some project ideas include school recycling or composting programs, learning gardens, choose-tap-water campaigns, and wastewater-treatment tours.

askHRgreen.org

FOLLOW US twitter.com/HRgreen

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TUNE IN TO youtube.com/user/HRGreenVA

READ askhrgreen.org/blog

askHRgreen.org is your go-to resource for all things green in Hampton Roads — from recycling tips and pointers for keeping local waterways clean to water-saving ideas and simple steps to make local living easy on the environment.

askHRgreen.org is administered through the Hampton Roads Planning District Commission (HRPDC) and powered by the following members: the cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg; the counties of Gloucester, Isle of Wight, James City, Southampton, Surry and York; the Town of Smithfield; and HRSD.

Development of this publication was paid for, in part, by funds generated from the sale of Chesapeake Bay license plates. Printing of this publication was paid for, in part, by a donation from WTKR News 3.

Nitrogen: Agriculture is the largest source of nitrogen pollution, contributing 48% of the nitrogen load entering the Bay. Other sources include urban runoff (stormwater runoff), wastewater treatment plants, and air deposition. Excessive nitrogen can fuel algal blooms and lead to low oxygen levels in the water, creating "dead zones".

Fertilizers: Excessive use of nitrogen-containing fertilizers on lawns, gardens, and agricultural fields can be washed into storm drains during rain events.

Animal Waste: Pet waste, as well as manure from livestock operations, can contain high concentrations of nitrogen that can be carried into stormwater runoff.

Atmospheric Deposition: Nitrogen compounds can be deposited on surfaces from the atmosphere through rain and dry deposition. This can also contribute to nitrogen levels in stormwater.

Wastewater: Wastewater from septic systems and leaky sewer lines can introduce nitrogen-containing compounds into stormwater runoff.

Soil Erosion: Nitrogen can be bound to soil particles and carried away during erosion, particularly in areas with high nitrogen content in the soil.

Vehicle Emissions: While less common, vehicle emissions can also contain nitrogen oxides that can be deposited and contribute to stormwater runoff.

Yard Waste: Accumulated plant debris, such as leaves and grass clippings, can decompose and release nitrogen into the system.

Organic Materials: Decomposing organic matter, including trash and food waste, can also contribute to nitrogen loading in stormwater.

Nitrogen in stormwater refers to the presence of nitrogenous compounds, such as ammonium (NH_4^+), nitrite (NO_2^-), nitrate (NO_3^-), dissolved organic nitrogen (DON), and particulate organic nitrogen (PON), in runoff from rainfall events. These compounds are transported in the stormwater runoff, and can originate from various sources like lawn fertilizers, animal waste, and soil erosion. Nitrogen in stormwater is a significant pollutant that can contribute to water quality problems.

Phosphorus: Phosphorus, primarily from agricultural runoff and urban runoff (stormwater), is a major pollutant. Excess phosphorus in stormwater can lead to a number of problems, including eutrophication, algal blooms, and can lead to oxygen depletion in the water. Phosphorus, in both dissolved and particulate forms, can then travel through storm drains and other channels to reach water bodies. The amount of phosphorus in stormwater can vary depending on factors like land use, rainfall patterns, and management practices.

Pet waste: Animal waste can contribute phosphorus to stormwater runoff, especially in urban areas with high pet ownership.

Lawn and plant debris: Decomposing plant matter, including leaf litter and lawn clippings, can release phosphorus into runoff, particularly during fall.

Roads: Road surfaces can accumulate phosphorus from various sources, including vehicle wear, oil and grease, and debris.

Atmospheric deposition: Phosphorus can be transported through the atmosphere and deposited on urban surfaces, contributing to the overall load in stormwater.

Fertilizer runoff: Excessive fertilizer application to lawns and other urban landscapes can lead to phosphorus being washed into storm drains.

Soil erosion: Construction and other land disturbances can expose soil, leading to phosphorus-rich sediment being carried away by runoff.

Sediment: Sediment, primarily from agricultural land, can reduce water clarity and carry other pollutants into the Bay. It can also bury bottom-dwelling organisms and reduce habitat availability. Sediment, consisting of soil particles like sand, silt, and clay, is a significant stormwater pollutant. It originates from erosion, particularly on construction sites, farm fields, and roads. Sediment in stormwater can negatively impact water quality, infrastructure, and aquatic ecosystems.

How Sediment Enters Stormwater:

Erosion: Raindrops dislodge soil particles from exposed surfaces.

Runoff: Stormwater flows downhill, picking up and transporting sediment.

Human Activities: Construction, agriculture, and poor land management practices accelerate erosion and sediment transport.

Water Quality Degradation: Sediment reduces water quality and clarity, making it cloudy (turbid) and impacting sunlight penetration for aquatic plants, can also fuel excessive algae growth.

Ecosystem Impacts: Sediment deposition can bury fish eggs, clog stream beds, and disrupt habitats for aquatic life.

Infrastructure Issues: Sediment fills storm drains and catch basins, potentially leading to increased flooding and reduced drainage capacity.

Sediment Transport: Sediment can transport pollutants like nutrients (phosphorus) and chemicals, further impacting water quality

Dredging for Sediment Removal:

- Dredging is the process of removing accumulated sediment and debris from a water body.
- There are two main types of dredging:
 - **Mechanical dredging:** This involves draining the water, allowing the sediment to dry, and then using heavy equipment to remove the dried material.
 - **Hydraulic dredging:** This uses powerful pumps and hoses to suck up the sediment and water, creating a slurry that is then pumped to a dewatering location.
- Dredging to remove sediment in stormwater systems can vary significantly in cost, ranging from **\$3 to \$300 per cubic yard**. Factors like sediment depth, accessibility, disposal methods, and the type of dredging (hydraulics vs. mechanical) all contribute to the overall cost.

Who pays for Dredging?

In general, the cost of sediment dredging in stormwater infrastructure is often shared, with **local entities, property owners, and potentially government agencies** contributing to the expense. The specific allocation of costs depends on the type of project, location, and governing regulations.

Pet waste: Pet waste, when not properly disposed of, is a significant contributor to stormwater pollution **due to the bacteria, pathogens, and nutrients it contains.** This waste can contaminate waterways, leading to potential health risks for humans and wildlife, as well as harming aquatic ecosystems.

Just like human sewage, untreated pet fecal matter is harmful to waterways. If "left to nature," pet waste and the associated disease-causing organisms, such as giardia and salmonella, can be washed away by stormwater into rivers, beaches and bays via storm drains.

How does animal waste affect water pollution?

When animal waste ends up in a lake or stream, it decomposes, using up oxygen and releasing its pollutant load. During summer months when the water is warm, the combination of low oxygen levels and ammonia can kill fish and other aquatic organisms. The nutrients cause excessive growth of aquatic weeds and algae.

Here's why pet waste is a stormwater pollution problem:

Disease-causing pathogens: Pet waste contains bacteria, viruses, and parasites that can cause illness in humans and animals. These pathogens can contaminate water sources like rivers, lakes, and even groundwater, making them unsafe for swimming, fishing, and drinking.

Nutrient pollution: Pet waste is rich in nitrogen and phosphorus, which can trigger excessive growth of algae and aquatic weeds. This can lead to algal blooms, which consume oxygen, creating "dead zones" and harming fish and other aquatic life.

Stormwater runoff: Rainwater can carry pet waste from lawns, streets, and other surfaces into storm drains and ultimately into waterways. Stormwater systems are not designed to treat or filter this waste, so it flows directly into our lakes and rivers, untreated.

Health risks: Contact with contaminated water can lead to various illnesses, including Giardia, Salmonella, and E. coli infections. These illnesses can be especially dangerous for children, the elderly, and individuals with weakened immune systems.

Fertilizer: Fertilizer runoff is harmful because it leads to eutrophication, causing algal blooms, hypoxia (low oxygen levels), and harm to aquatic life. It also contributes to the formation of "dead zones" in coastal areas, disrupts food chains, and can contaminate drinking water sources.

Here's a more detailed breakdown:

Eutrophication and Algal Blooms: Excess nutrients, like nitrogen and phosphorus from fertilizer, can stimulate rapid algal growth in waterways. These blooms consume large amounts of dissolved oxygen as they decompose, leading to hypoxic conditions.

Hypoxia and "Dead Zones": Low oxygen levels in the water can suffocate fish and other aquatic organisms, leading to the creation of "dead zones" where aquatic life cannot survive.

Disruption of Food Webs: Algal blooms can block sunlight, hindering the growth of underwater plants and impacting the food chain for other organisms.

Water Quality Issues: Fertilizer runoff can contaminate drinking water sources with nitrates, which can be harmful to human health.

Soil Degradation: Excessive use of chemical fertilizers can also negatively impact soil health, reducing its fertility and structure over time.

Other Environmental Impacts: Fertilizer runoff can contribute to the spread of harmful pathogens and disrupt the overall health of aquatic ecosystems.

Floatables, or trash and debris : Trash and debris in urban runoff pose significant problems, contributing to water pollution, visual blight, and threats to both wildlife and human health. This pollution occurs when litter and other debris are washed into storm drains during rainfall, ultimately entering waterways like rivers and lakes. The consequences include choking or suffocating aquatic life, reduced oxygen levels in the water, and the spread of microplastics, which can contaminate the food chain and harm ecosystems.

Physical Pollution: Trash, especially plastic, can become entangled in waterways, creating hazards for aquatic life and impacting their ability to move, feed, or breed.

Chemical Pollution: Decomposing organic matter (like pet waste, leaves, and food scraps) in trash can lower oxygen levels in the water, leading to fish kills and other water quality problems.

Microplastic Contamination: Plastic waste breaks down into tiny microplastics, which can be ingested by organisms at the base of the food chain and accumulate in the ecosystem, potentially harming human health as well.

Improper disposal: People discarding trash on the ground, in gutters, or along roads can lead to floatables entering storm drains.

Rain runoff: Rainwater washes debris and litter off streets, sidewalks, and other surfaces into storm drains, ultimately entering rivers, streams, and lakes.

Storm drains and sewers: Stormwater systems can carry a significant amount of solid materials, including floatables, that discharge directly into receiving waters.

Impacts of Floatables:

Aesthetic impact: Floatable debris can be unsightly and negatively impact the beauty of natural areas and recreational spaces.

Environmental impact: Floatables can entangle and harm aquatic animals and birds. They can also contaminate water bodies with toxic chemicals and bacteria, further impacting aquatic life.

Public health: Floatables can harbor bacteria and other pathogens that can pose a risk to human health, especially in areas where people come into contact with water.

Recreational impacts: Floatables can negatively impact recreation, such as swimming, fishing, and boating.

Economic impacts: Floatables can lead to increased costs for cleanup and maintenance of waterways.

Entanglement and Ingestion: Floatables, especially plastics, can trap and injure or kill animals by getting entangled in them or by being ingested.

Impervious and Pervious

Pervious surfaces allow water to penetrate, while impervious surfaces do not. Pervious surfaces, like lawns and gardens, absorb rainfall, while impervious surfaces, like roads and rooftops, cause water to run off. This runoff can lead to issues like flooding and pollution.

Pervious Surfaces: These surfaces are permeable and allow water to infiltrate into the ground. Examples include:

- Grass, trees, and other vegetation.
- Bare soil.
- Water bodies like lakes and rivers.

Impervious Surfaces:

An impervious surface is one that is impermeable and one that water cannot pass through. Impervious surfaces increase runoff and include surfaces like asphalt, buildings/rooftops, concrete, etc. A pervious surface is one that allows for the penetration of runoff through the surface and into the underlying soils.

These surfaces are impermeable and prevent water from infiltrating into the ground. Examples include:

- Buildings, roads, and parking lots.
- Asphalt and concrete.
- Rooftops.
- Sidewalks and driveways.
- Patios.

Impact of Impervious Surfaces:

- Increased stormwater runoff, potentially leading to flooding and erosion.
- Pollution of waterways as runoff carries pollutants like oil, sediment, and chemicals.
- Reduced groundwater recharge, as water doesn't infiltrate into the soil.

Managing Impervious Surfaces:

- Using pervious pavements and other permeable surfaces in urban areas.
- Implementing stormwater management techniques like rain gardens, green roofs, and rain barrels to capture and manage runoff.
- Reducing the amount of impervious cover through depaving and other methods.

The three top pollutants harming the Chesapeake Bay are nitrogen, phosphorus, and sediment. These pollutants primarily originate from agricultural runoff, urban and suburban stormwater, wastewater, and air deposition. Excess nitrogen and phosphorus can lead to harmful algal blooms, which can reduce dissolved oxygen levels and block sunlight from reaching underwater grasses, harming the Bay's ecosystem. Sediment also contributes to reduced water clarity and can transport other pollutants.

Urban runoff aka stormwater runoff is the water that flows over impervious surfaces in urban areas, like streets, sidewalks, and rooftops, and is not absorbed into the ground. This runoff can pick up pollutants, leading to water quality issues in local waterways and impacting the environment.

What it is:

Urban runoff is the result of precipitation, irrigation, and other sources of water flowing over paved and developed surfaces in urban areas.

Pollution:

As the water flows across these surfaces, it picks up pollutants like gasoline, motor oil, heavy metals, trash, fertilizers, and pesticides.

Impacts:

These pollutants can contaminate local waterways, harming aquatic life, and potentially impacting human health if drinking water sources are affected.

Management:

Managing urban runoff involves implementing various techniques to reduce the volume and pollution of runoff.

Methods:

These include permeable pavements, rain gardens, infiltration trenches, and capturing runoff for reuse. **(Have brochures for residential SWMF's if interested)**

Examples: Permeable pavements allow water to seep through the surface, while rain gardens and infiltration trenches collect and treat runoff before it flows into waterways.

Importance: Managing urban runoff is crucial for protecting water quality, conserving resources, and mitigating the impacts of urbanization.

Eutrophication: is the enrichment of a water body with nutrients, like phosphorus and nitrogen, which leads to excessive plant and algal growth. This can cause issues like algal blooms, reduced water clarity, oxygen depletion, and harm to aquatic life and human health.

Algal blooms: while a natural phenomenon, can become harmful when they overgrow and produce toxins or deplete oxygen in the water, negatively impacting aquatic life, human health, and ecosystems. These blooms can also affect recreational and commercial industries, leading to economic losses.

Stormwater Fun Facts

- At least 50% of the water quality problems in the U.S. result from stormwater runoff, or what the U.S. Environmental Protection Agency calls, "nonpoint source pollution".
- Approximately 70% of all storm drains lead directly to rivers, lakes and estuaries and are never treated.
- Five quarts of used motor oil can create an oil slick two football fields in size.
- Yard fertilizer runoff from residential areas is estimated to be responsible for one third of the excess nitrogen polluting our waterways.
- The first inch of runoff generally carries 90% of the pollution from a storm.
- Storm drains do not go to sewage treatment plants, they lead directly to bodies of water.
- Storm drains do not remove pollutants from stormwater and were designed for the specific purpose of draining water from sidewalks and streets to prevent flooding.
- Water entering storm drains after it rains, picks up what is on the surface and carries it directly to our local rivers and streams untreated.
- Tire wear, deteriorating brake pads, leaks of motor oil, antifreeze, battery acid, fuel, car waxes, degreasers, radiator flushes, and rust preventatives can all contribute to stormwater pollution.
- Grass clippings, leaves, pet waste, fertilizers, soaps, detergents, cigarette butts, and other debris are considered pollutants that get washed into storm drains and on into our local rivers and streams.
- Pollutants that contaminate stormwater are mostly considered to be non-point source pollution (surface runoff)
- 16 times more stormwater runoff is produced by a one acre parking lot than is produced by a meadow of the same size

Chesapeake Bay

The Chesapeake Bay is the nation's largest estuary. Its 64,000-square-mile watershed encompasses one of the most economically significant regions of the United States. More than 18 million people live in the Chesapeake Bay watershed. The Chesapeake produces about 500 million pounds of seafood each year, supporting jobs in both commercial and recreational fishing and bolstering the regional economy.

The Bay is a highly valued resource for the region for additional reasons, including tourism, recreational boating, and scenic beauty. In recent decades, the Bay's biologically diverse ecosystem has seen sharp declines in some of its keystone species, including the native oyster. Human effects on the ecosystem, like overfishing, degraded water quality, and habitat destruction, are significant challenges to the Chesapeake and the species that live there. We work to improve the health of the Bay by using the latest science to ensure its sustainable use for generations to come.

A **watershed** is an area of land where all water, whether from rain, snowmelt, or springs, drains into a common body of water like a river, lake, or ocean. It's essentially a drainage basin, defined by natural landforms like hills and mountains that direct water flow.

An **estuary** is a partially enclosed coastal water body where fresh water from rivers and streams mixes with salt water from the ocean. It's essentially where a river meets the sea. Estuaries are characterized by their changing salinity, tides, and unique ecosystems that support a diverse array of plant and animal life.

Enviroscape Help

"We're going to pretend this is Chesapeake Bay watershed. Does it look kind of like the area around Hampton Roads? " Point out the neighborhood, golf course, farm, water, industry and new construction and try and connect these features to areas your audience recognizes within your watershed. As you point out different features ask the kids probing questions "Ever notice how golf courses are always green, even during a drought? How do they do that?" or "Ever notice rainbows on the pavement during a storm? What causes that?" Once they answer the question have them shake some of the pollutant on the land.

"Now what happens to all this stuff when it rains?" Have kids help make it rain by spraying the spray bottle over the whole area. Have them go crazy, the more it rains the more exciting it is. Once runoff starts to drain into the rivers, lakes ask them what's happening. Remind them that the rain off their property drains to a local river or lake (even water that goes down the storm drain!). Let them know that the water that goes into the storm drain doesn't get treated like water that goes down the shower, sink or toilet. Ask them if they'd like to drink or swim in water that looks like that. How do you think the animals and plants that live in the water feel?

Earth Day Event Survey Responses

Q1. The grounds at Christopher Newport University are inspiring.	Q2. The grounds at Christopher Newport University are free of trash and ground litter.	Q3. Do you have any additional comments regarding the grounds at Christopher Newport University?	Q4. Are you aware of any of the ways that Christopher Newport University protects the water quality of the James River and the Chesapeake Bay?
Strongly Agree	Agree		No
Strongly Agree	Strongly Agree		No
Strongly Agree	Agree		not at the moment
Agree	Strongly Agree	Should have more native plants	Nope
Strongly Agree	Agree	Nope	Nope
Agree	Agree		No
Strongly Agree	Strongly Agree	None	Yes
Strongly Agree	Strongly Agree		
Agree	Strongly Agree		
Strongly Agree	Agree		
Agree	Agree	Nope :)	No
Strongly Agree	Strongly Agree		Picking up trash, effective stormwater drainage
			No
Strongly Agree	Strongly Agree		
Strongly Agree	Strongly Agree		
Agree	Strongly Agree		No
Strongly Agree	Strongly Agree		I see the Bay emblems on the sewer caps!
Agree	Agree	There are dried Zyn packs everywhere on campus on the sidewalks, on walls, and on pillars.	No, I am not
Strongly Agree	Strongly Agree	CNU seems to be much cleaner than other parts of the city.	no
Agree	Agree		No
Agree	Agree	Let the fall leaves stay on the ground longer. Campus looks the same all year and fall is such a beautiful season. Let us enjoy the leaves.	
Agree	Agree		Yes
Agree	Agree	They are nice	no
Disagree	Strongly Disagree		
Strongly Agree	Agree	I have seen more cigarette butts and other small debris on the ground on main campus in the past several months than was previously the case.	Yes.
Strongly Agree	Agree		
Strongly Agree	Strongly Agree		
Agree	Strongly Agree		
		The grounds at CNU are always well kept and neat! Each and every day, I always see something being done to the grounds. Whether it's grass cutting, mulch distribution or spraying weed killer, the staff is ALWAYS working hard to ensure the tidiness of our campus. THANK YOU for all you do!!	Yes, by ensuring that there is not any litter in the water that washes into those bodies of water.
Strongly Agree	Strongly Agree		Yes
Strongly Agree	Strongly Agree	impressive job	other than picking up litter, which you just told me, no
Agree	Agree		no
		I love walking around campus and seeing all of the beautiful flowers and bushes that the amazing staff plant and maintain. The landscaping and upkeep of the lawns are such a key part to CNU's beauty and would not be possible without the hard work of so many dedicated staff.	The most obvious way is the addition of "no dumping, drains to Bay" decals on drains around campus.
		Painting the grass green, if we really do it, seems problematic for protecting the earth. Also, there is a lot of leaf-blowing action, which disrupts ecosystems. Just some things to consider. Are we going for an aesthetic or environmental protection? Thanks!	
Agree	Agree		Green paint and leaf blowers certainly don't help...
Agree	Strongly Agree		
			Picking up litter, placing the "drains to the bay" signs by drains in the sidewalks and lawns, prioritizing reusable food products and then after that using paper or compostable materials
Strongly Agree	Strongly Agree		

		Overall, CNU is a beautiful place to work, and the grounds are well kept. Some "hidden" locations, such as the second story of the parking garage, have issues. The trash can [at least the one I see every day] is often overflowing and often spills into the garage and ultimately into the environment. Some trash in the stairwell remains for multiple weeks.	
Strongly Agree	Agree		Indeed.
Strongly Agree	Strongly Agree	Keep up the great work on this litter-free campus	I am unaware.
Strongly Agree	Agree		
Strongly Agree	Agree		
Strongly Agree	Strongly Agree	I've seen the employees mixing the trash and recycling, so why lie about it and pretend to be eco-friendly in that regard?	Picking up trash. But I've seen the chemicals they put on the grass, and I'd bet they aren't good for the water quality.
Strongly Agree	Strongly Agree	The grounds are beautiful and well-maintained. The campus grounds crew does a phenomenal job!	Yes
Agree	Disagree		No dumping! 8Y! €
		More trees are needed on the grounds especially since so many large and established trees were unnecessarily cut down during the construction of the new addition to Luter. The construction does not even reach out to where the trees were and it greatly decreased the value of our campus. More trees are needed in the main areas.	
Agree	Agree		Not super aware but I know that student organizations have projects that they do.
Agree	Agree		
		The back lot behind the DSU is one of the few places on campus you can often find trash on the pavement. Not sure why--pretty new & surprising thing to see so often. Maybe an additional trash bin or two would help.	
Strongly Agree	Agree		the seal near the drains indicate something--did not know all this
Strongly Agree	Agree		No
		I occasionally see cigarette butts on the ground. I do pick them up when I see them. Has there been any discussion on making the campus smoke-free?	
Strongly Agree	Strongly Agree		Recycle containers throughout campus for plastic items is the only thing I can think of.
Agree	Agree		
Strongly Agree	Strongly Agree		Not really
Agree	Disagree		
Strongly Agree	Strongly Agree		
Agree	Agree		Yes
Strongly Agree	Strongly Agree		
Strongly Agree	Agree		
		The maintenance on campus is really, really beautiful and makes me feel happy and like I'm at home :) Cause at home we don't leave trash lying around that'll pollute our one good earth !!	No.
Strongly Agree	Strongly Agree		
Agree	Strongly Agree		
		Christopher Newport University is pristine, honestly. The reason I said it wasn't inspiring is because I tend to like older, more established architecture with a little character. That this place looks like a Marriott resort is probably inspiring to some.	
Disagree	Strongly Agree		I would be worried that all the lawn care might result in fertilizer runoff.
Strongly Agree	Strongly Agree		Yes
Agree	Agree		
Agree	Agree		No
		There are areas within CNU grounds that need more attention. also the amount of fertilizer we put on our grass and resources we use to keep the grass looking nice can do damage to our environment as well.	
Disagree	Agree		No
Strongly Agree	Agree		
		For as much money as you put into the Great Lawn, you would think smoking wouldn't be allowed on campus. Butts are everywhere. Not to mention the lack of trash cans when litter is found outside. The grounds contractors produce a lot of litter.	
Strongly Disagree	Strongly Disagree		No - pesticides are used, which destroys water quality.
Strongly Agree	Agree		
Agree	Strongly Agree		
Strongly Agree	Agree		No
Strongly Agree	Strongly Agree		
Strongly Agree	Agree		No

Agree	Strongly Agree	I would love to see more native plants around the grounds. We have so many wonderful native species that don't take the amount of maintenance that non-native species have. Sweet spire is one of my favorites!	I know our MS-ENVS students are working on multiple projects to preserve the river, the dam, and keep the water quality high.
Agree	Agree	It is always clean and kept very neat.	
Agree	Strongly Agree	The grounds are beautiful and I appreciate your and all the staff's efforts! The only reason I did not place a "strongly agree" for the inspiration question is because I think it could be interesting to have some sort of community garden, or, native plants garden, or some kind of more sustainable section of the grounds. It feels very formal, which is lovely, but also unnatural and so I wonder if there's a way to incorporate a pollinator garden or some kind of more natural area. Again, I very much appreciate the clean and beautiful grounds and campus and appreciate all the work that goes into maintaining such a lovely campus.	No -- only that some faculty are involved in research related to the health of the Chesapeake Bay.
Agree	Agree		Limits use of pesticides and fertilizers, plants perennials in landscaping
Agree	Disagree	Cigarette butt's are by far the most common type of litter. On the pavement walking areas especially, there's one every few feet	Im aware of no preventative measures
Strongly Agree	Strongly Agree	CNU does a good job at keeping the grounds clean from trash.	
Agree	Agree	I would love to see CNU designated as a non-smoking campus, or at least create clearly marked smoking areas. I frequently see cigarette butts on campus, which are difficult to pick up as they begin to degrade, and the students are not the primary source of this litter.	No
Agree	Agree	I wish we had more trees/shade.	I know we pass out coasters that say save the bay
Strongly Agree	Strongly Agree		Not specifically, other than mitigating the impact of litter. The incredibly green grass suggests other factors of water quality may be receiving less consideration.
Strongly Agree	Agree	Employees that are smoking cigarettes need to keep the students in mind. It's unacceptable.	
Strongly Disagree	Strongly Agree		Yes
Agree	Agree		Funds resarch and studies related to water quality and other environmental issues.
Strongly Agree	Agree	I love our grounds here at CNU, they are beautiful! The trash I notice the most of is cigarettes and plastic drink cups like from einsteins. The places i notice the most trash are along the road from JR, Santorini, and Warwick, and around the JR sports area	Yes! I've seen the recycling initiatives including the new soft plastics recycling, and the reuzzi boxes are great
Strongly Agree	Agree		
Agree	Agree	Sustainability is important; replacing flowers that do not need to be replaced is wasteful of state funds.	No.
Agree	Strongly Agree	CNU seems to rely heavily on annuals, which is hard on water and labor. From a sustainability perspective, it would be wonderful to see a transition to native perennials (with pops of color from annuals maybe), particularly keystone species that will improve our overall ecosystem by hosting pollinators and birds.	nope :-(
Agree	Strongly Disagree	what can we do to stop people from throwing away cigarettes and cigars but on the ground	
Agree	Agree		
Strongly Agree	Strongly Agree		
Strongly Agree	Strongly Agree	Pls concentrate more on native plants and pollinator species.	yes
Strongly Agree	Strongly Agree		
Strongly Agree	Agree		I am after reading the email that came with this link.
Strongly Disagree	Strongly Agree	While the grounds are beautiful, they look artificial. I would much prefer a native plant garden that attracts & feeds birds and insects. Even if this can't be the look for the entire campus, we could have pockets of native plants with a sign explaining what the garden is about. I often look at the grounds and feel sick about the number of chemicals it must take to maintain it. Are there any insects on our campus? Doubtful, as there is nowhere safe for them to be.	No
Agree	Strongly Agree		

Strongly Agree	Agree	Quick survey. Great job! May need to remind students to clean up after themselves, parking lots and also local neighborhood. Thanks for everything!	Yes, we try to be good stewards of our environment and our resources.
Strongly Agree	Strongly Agree	Keep up the good work! I appreciate how the grounds look, and the measures you are taking to become more sustainable. Ben Redekop	Yes
Agree	Agree	More recycling bins and more tables!	No
Strongly Agree	Strongly Agree		
Strongly Agree	Strongly Agree	The grounds department does an excellent job of keeping the university beautiful. Great work.	no
Agree	Agree		Yes
Strongly Agree	Strongly Agree		There is never any trash on the ground, so that's great!
Strongly Agree	Strongly Agree		I know our water drains into the Chesapeake bay because it says so on the manhole covers on the ground
Strongly Agree	Strongly Agree		Yes, I work with folks from EH&S
Strongly Agree	Strongly Agree		
Agree	Agree		
Agree	Agree		
Strongly Agree	Agree	The grounds are always beautiful especially in the Spring	yes through are storm drain training
Strongly Agree	Strongly Agree		
Strongly Agree	Strongly Agree		
Strongly Agree	Strongly Agree	Thanks for ensuring we live on the most beautiful campus in Virginia!	
Strongly Agree	Agree	Beautifully kept	Yes
Strongly Agree	Agree		I am not but I would be interested.
Agree	Agree		
Agree	Strongly Agree	They always look so great! I am so thankful for our grounds staff!	no
Agree	Agree		Yes
Strongly Agree	Strongly Agree	Fabulous job to the workers who spend so much time and energy on our beautiful campus! <3	By having trash cans and recycling bins around campus and in buildings. CNU Sustainability also offers free stuff to reduce single-use plastics.
Strongly Agree	Strongly Agree		Not really
Strongly Agree	Agree		
Disagree	Agree	Please, please, please stop mowing the grass so often.	No :-/
Strongly Agree	Strongly Agree	You all are awesome! Thanks to you, this campus has always looked amazing and been super inviting. Over the last several decades, I have enjoyed the fruits of your labor, from the topiaries that used to be outside of the old McMurren building, to the thoughtful flower selections, and even the hidden details, like the CNU sails behind Luter Hall. I appreciate everything you all do day-in and day-out to make this place special. Thank you!	Removing trash and keeping the run-off drains clean.
Agree	Strongly Agree		no
Strongly Agree	Strongly Agree	All visitors comment on how beautiful the campus is. That is the first thing everyone says. We will continue to wow them with the excellence of our programs but it is the first impression they see that draws them into that conversation.	Not specifically.
Strongly Agree	Agree	Would like to see more consecutively blooming perennials and native plantings at CNU. Have seen uptick of perennials recently. Grounds are beautiful, especially some of the flowering tree species!	No, need more public information on this.
Strongly Agree	Strongly Agree	They do a wonderful job keeping our campus beautiful.	Yes- litter removal, street sweeping, keeping fertilizer out of roadways
Strongly Agree	Agree		
Agree	Agree		
Agree	Agree		No
Agree	Agree		
Strongly Agree	Strongly Agree		
Strongly Agree	Agree	Grounds does a great job keeping the campus clean and beautiful.	
Strongly Agree	Strongly Agree		no
Agree	Disagree		
Agree	Strongly Agree		
Agree	Agree		

Agree	Agree		
Strongly Agree	Agree		Education regarding storm drains is provided by the Grounds department and orgs/offices are asked not to dump anything into or near the drains.
Agree	Strongly Agree		
Strongly Agree	Strongly Agree		
Disagree	Agree		No
Agree	Agree		
Agree	Strongly Agree		
Agree	Agree		No
Strongly Agree	Strongly Agree		
Strongly Agree	Strongly Agree	Yoder Barn & LLS does not currently have recycling bins	No
Disagree	Disagree	How the heck do we get these students to clean up after themselves?	Nope.
Agree	Agree		
Agree	Agree		
Agree	Strongly Agree		
Strongly Agree	Agree		
Strongly Agree	Agree		No
Strongly Agree	Agree		Yes

Student Clean-Up Events



A graphic poster for a beach clean-up event. It features a light blue background with illustrations of two jellyfish at the top, a school of fish in the middle, and green seaweed at the bottom. The text reads: "BEACH CLEAN-UP", "SEPT. 14 10:00 am", and "Join us at Huntington Beach for our first beach clean-up of the semester!".

surfridercnu • Follow

surfridercnu 52w
We can't wait to see you all there on Saturday September 14th, 2024 at Huntington Beach!

audrey_hales_ 52w
Can't wait!!!
Like Reply

44 likes
September 11, 2024
Log in to like or comment.



A group of about ten people, mostly young adults, are standing behind a large pile of blue buckets filled with trash. They are outdoors, with trees in the background. A blue flag with the "SURFRIDER FOUNDATION" logo is visible on the left.

surfridercnu • Follow

surfridercnu 51w
Thank you to everyone who came out! We had a fantastic turn out and are excited for what the rest of this semester has to offer.

surfriderclubnetwork 51w
Wow! Amazing work
Like Reply

95 likes
September 17, 2024
Log in to like or comment.

BEACH CLEAN-UP



EVENT HIGHLIGHTS

SNACKS, MUSIC,
AND RAFFLE

ENTER TO WIN
PRIZES!

- \$1 RAFFLE
TICKET

DATE AND LOCATION

10.05.2024

TIME

- 10AM - 12PM

LOCATION:

- HUNTINGTON BEACH

ALTERNATE DATE IN CASE OF RAIN

- 10.19.24



surfridercnu • Follow

...



surfridercnu • 45w

Our next beach clean up will be on October 5th from 10:00 AM-12:00 PM at Huntington Beach! We are so excited to see you all there.



No comments yet.

Start the conversation.



49 likes

September 29, 2024

[Log in](#) to like or comment.



surfridercnu • Follow

...



surfridercnu Edited • 48w

Thank you to everyone that came out to support at our beach clean up this past Saturday at Huntington Beach! We had a fantastic turn out and are so grateful to all of the organizations participated. The winner of the raffle will be announced this coming Wednesday so keep a lookout on our social media for updates! To enter please send our Financial Chair \$1 for a raffle ticket through Venmo @ Gwendolyn_Via.



No comments yet.

Start the conversation.



83 likes

October 7, 2024

[Log in](#) to like or comment.



servethecityclubcnu · Follow



servethecityclubcnu · 42w
Das a Truck



No comments yet.

Start the conversation.



20 likes

November 14, 2024

[Log in](#) to like or comment.



servethecityclubcnu · Follow



servethecityclubcnu · 42w
THANK YOU 🙏🙏🙏 to everyone who came out last Saturday to Big Volunteer Day! Littler Pick Up at the Shipyard was a great success along with all the other projects. Hope to see some of you at Elmerton Cemetary this Saturday 11/16 🙌

SignUpGenius Link:
<https://www.signupgenius.com/go/10C094AAFAD28A7FFC61-serve1#/>

Helper Helper Sign-up:
<https://app.helperhelper.com/login>



No comments yet.

Start the conversation.



23 likes

November 14, 2024

[Log in](#) to like or comment.

BEACH CLEAN-UP



SURFRIDER FOUNDATION CLUB

EVENT DETAILS

NOV. 16 10:00AM

LOCATION: KING LINCOLN PARK 600 JEFFERSON AVENUE, NEWPORT NEWS



- There will be donuts provided by Krispy Kreme.
- Great opportunity to get service hours.



surfridercnu • Follow



surfridercnu 42w

Join us tomorrow for our next clean up! We will be at King Lincoln Park at 10 am and hope to see you there!



No comments yet.

Start the conversation.



31 likes

November 15, 2024

[Log in](#) to like or comment.



surfridercnu • Follow



surfridercnu Edited • 42w

Our beach clean up yesterday was a huge success! Our volunteers picked up OVER 400 POUNDS (85 buckets) of trash!! Thank you to all the amazing volunteers who participated.



stich.madeline 42w

400lbs is incredible 🍌🍌

Like Reply



nngreenfoundation 42w

Great work everyone! 🍌🍌🍌

Like Reply



adairrader 42w

Vacc @Marsa I remish



104 likes

November 17, 2024

[Log in](#) to like or comment.



surfridercnu • Follow



surfridercnu Edited • 42w

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Like Reply



adair.rader 42w

Vaace @laura l emith



104 likes

November 17, 2024

[Log in](#) to like or comment.



surfridercnu • Follow



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Like Reply



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104 likes

November 17, 2024

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Like Reply



adair.rader 42w

Varee @blairia l emith



104 likes

November 17, 2024

[Log in](#) to like or comment.



surfridercnu • Follow



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Like Reply



adair.rader 42w

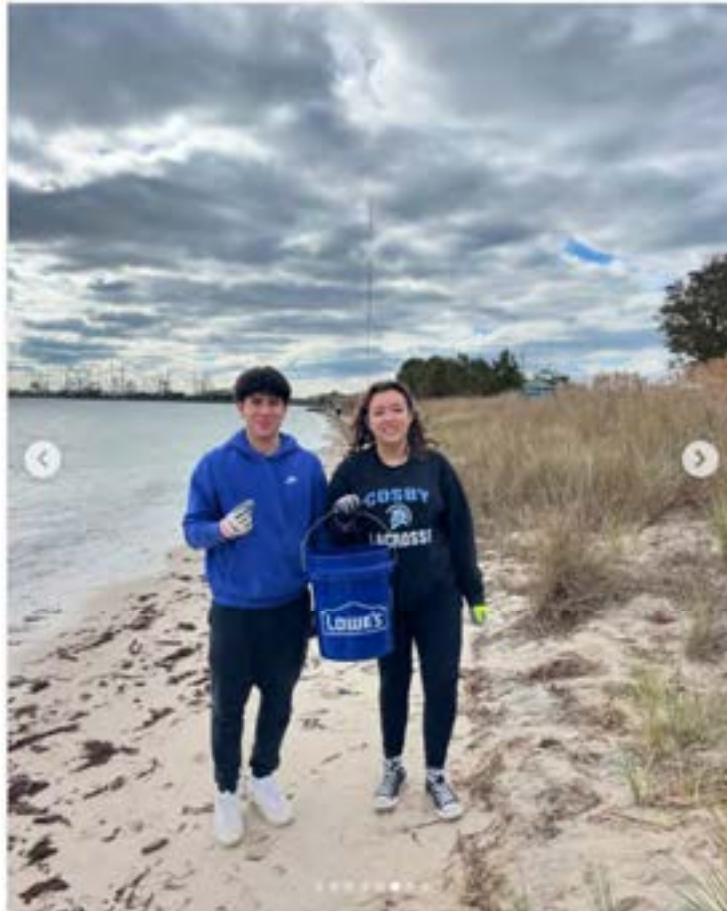
Varee @blairia l emith



104 likes

November 17, 2024

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Like Reply



adair.rader 42w

Vacc @laurea l smith



104 likes

November 17, 2024

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Like Reply



adair.rader 42w

Vacc @laurea l smith



104 likes

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Like Reply



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Great work everyone! 🍌🍌🍌

Like Reply



adair.rader 42w

Yaaa @laura l smith



104 likes

November 17, 2024

[Log in](#) to like or comment.



surfridercnu • Follow



surfridercnu 30w

Hello everyone! Please join us for our beach clean up this Saturday (weather permitting)! There will be donuts :)



No comments yet.

Start the conversation.



44 likes

February 9

[Log in](#) to like or comment.



surfridercnu • Follow



surfridercnu 29w
Thank you so much to all of our volunteers today, we picked up over 215 pounds of trash!



piauhuff 29w
So grateful for the work you do!

Like Reply



rutheileen74 29w
Thank you!!!!!! 🍌 🍌 🍌 🍌 🍌 🍌

Like Reply



_sarahpolk 29w

🔥 🔥 🔥

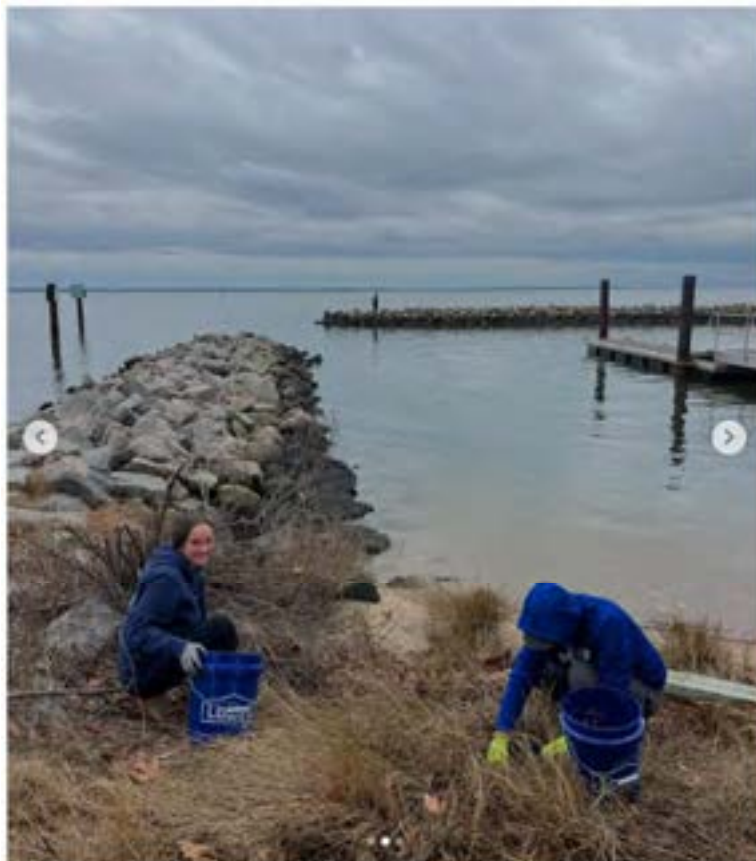
Like Reply



98 likes

February 15

[Log in](#) to like or comment.



surfridercnu • Follow



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Like Reply



rutheileen74 29w
Thank you!!!!!! 🍌 🍌 🍌 🍌 🍌 🍌

Like Reply



_sarahpolk 29w

🔥 🔥 🔥

Like Reply



98 likes

February 15

[Log in](#) to like or comment.



surfridercnu · Follow



surfridercnu 29w
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plahuff 29w
So grateful for the work you do!
Like Reply



ruthieleen74 29w
Thank you!!!!!! 🍌 🍌 🍌 🍌 🍌
Like Reply



sarahpolk 29w
🍌 🍌 🍌
Like Reply



98 likes
February 15

[Log in](#) to like or comment.



surfridercnu · Follow



surfridercnu 26w
We hope to see you at our clean up next weekend at King Lincoln Park! Last semester we cleaned over 400 pounds of trash here, so your participation can really make a difference. We will also have donuts and you can earn service hours!



No comments yet.

Start the conversation.



36 likes
March 12

[Log in](#) to like or comment.



surfridercnu · Follow

...



surfridercnu · 24w

Thank you so much to everyone that showed up to our beach clean up yesterday! We had such an amazing turnout of volunteers and collected 383 pounds of bagged trash and many more pounds of things too big to fit in the trash bags. Collectively it was well over 400 pounds, so thank you all so so much!!!



piahuff · 24w

Love to see it!

Like · Reply



90 likes

March 23

[Log in](#) to like or comment.



surfridercnu · Follow

...



surfridercnu · 24w

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piahuff · 24w

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Like · Reply



90 likes

March 23

[Log in](#) to like or comment.



surfridercnu · Follow



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piahuft · 24w

Love to see it!

Like Reply



90 likes

March 23

[Log in to like or comment.](#)



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surfridercnu · 24w

Thank you so much to everyone that showed up to our beach clean up yesterday! We had such an amazing turnout of volunteers and collected 383 pounds of bagged trash and many more pounds of things too big to fit in the trash bags. Collectively it was well over 400 pounds, so thank you all so so much!!!



piahuft · 24w

Love to see it!

Like Reply



90 likes

March 23

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plahuff · 24w

Love to see it!

Like · Reply



90 likes

March 23

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plahuff · 24w

Love to see it!

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March 23

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Reminder that we want to celebrate the school year coming by hosting an end of the year concert & beach cleanup! It will be held at Huntington Beach on April 19. We will have free pizza & live music. We hope to see everyone there!!

***This will also be able to count as service hours for those in need!



No comments yet.

Start the conversation.



32 likes

April 15

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Huntington Beach



surfridercnu · 20w

Thank you to everyone for coming to yesterday's end of the year beach clean-up! Also a big thank you to the lovely musicians who came! You are all amazing & make such a huge difference within the community 💙



g_via_20w

Yayvvv 🙌



103 likes

April 20

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Huntington Beach

 **surfridercnu** · 20w
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 **g_via_** · 20w
Yayyy 🌊



103 likes

April 20

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 **surfridercnu** · 20w
Thank you to everyone for coming to yesterday's end of the year beach clean-up! Also a big thank you to the lovely musicians who came! You are all amazing & make such a huge difference within the community 💙



 **g_via_** · 20w
Yayyy 🌊



103 likes

April 20

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 **surfridercnu** · 20w
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 **g_via_** · 20w
Yayyy 🌊



103 likes

April 20

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surfridercnu 20w
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g_via_ 20w
Yayyy 🌊



103 likes

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surfridercnu 20w
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g_via_ 20w
Yayyy 🌊



103 likes

April 20

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surfridercnu 20w
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g_via_ 20w
Yayyy 🌊



103 likes

April 20

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03/15/2025 SGA Day of Service Pictures











Appendix C: Minimum Control Measure 3 (MCM 3)

Supplemental Information

Stormwater Outfalls

Watershed/Subshed:		Assessed by: J. Slagle, M. McGraw	
Outfall ID: Outfall 1		Date of Last Rainfall: 05/28/2025	
Date: 06/04/2025	Time: 12:30pm	Rainfall Quantity: 0.01 in.	

TYPE	MATERIAL	SHAPE	SUBMERGED	GENERAL OBSERVATIONS
☒ Closed Pipe	☒ Concrete ☐ PVC/Plastic ☐ Metal ☐ Brick ☐ Other:	☒ Circular ☐ Other:	☒ Single ☐ Double <u>In Water:</u> ☒ No ☐ Partially ☐ Fully <u>With Sediment:</u> ☒ No ☐ Partially ☐ Fully	- Some trash and road grit accumulation in outlet protection
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Other:	☐ Trapezoid: ☐ Parabolic: ☐ Other:		
Flow	☒ None ☐ Trickle ☐ Moderate ☐ Substantial ☐ Estimate flow rate _____			

FOR BOTH FLOWING and NON-FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	COMMENTS
☒ Pipe Condition	☐ Chip/Cracked ☐ Corrosion ☐ Peeling Paint ☒ Other _____	Pipe is disjointed in several locations
☐ Odor	☐ Gas ☐ Sewage ☐ Sulfide ☐ Other _____	
☒ Deposits/Stains	☐ Oily ☒ Flow Line ☐ Paint ☐ Iron	Brown/Orange Stain
☒ Vegetation	☐ Normal ☐ Inhibited ☐ Excessive	Tree growing next to wing wall (8" Dia.)
☐ Pipe Benthic Growth	☐ Brown ☐ Orange ☐ Green ☐ Other _____	
☐ Pool Quality	☐ Good ☐ Odors ☐ Algae ☐ Colors ☐ Oils ☐ Suds	

FOR FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	RELATIVE SEVERITY INDEX		
☐ Odor	☐ Sewage ☐ Petroleum/gas ☐ Sulfide ☐ Rancid/sour ☐ Other: _____	☐ 1 - Faint	☐ 2 - Easily detected	☐ 3 - Noticeable from a distance
☐ Color	☐ Clear ☐ Brown ☐ Orange ☐ Grey ☐ Other: _____	☐ 1 - Trace colors	☐ 2 - Faint Colors	☐ 3 - Clearly visible
☐ Turbidity	See Severity	☐ 1- Slight Cloudiness	☐ 2 - Cloudy	☐ 3 - Opaque
☐ Floatables (not including trash)	☐ Sewage ☐ Suds ☐ Iron ☐ Petroleum (oil sheen)	☐ 1 - Few/slight	☐ 2 - Some; indication of origin	☐ 3 - Many

Stormwater Outfalls

Watershed/Subshed:	Assessed by: J. Slagle, M. McGraw
Outfall ID: Outfall 2	Date of Last Rainfall: 05/28/2025
Date: 06/04/2025 Time: 1:18pm	Rainfall Quantity: 0.01 in.

TYPE	MATERIAL	SHAPE	SUBMERGED	GENERAL OBSERVATIONS
☒ Closed Pipe	☒ Concrete ☐ PVC/Plastic ☐ Metal ☐ Brick ☐ Other:	☒ Circular ☐ Other:	☒ Single ☐ Double <u>In Water:</u> ☒ No ☐ Partially ☐ Fully <u>With Sediment:</u> ☒ No ☐ Partially ☐ Fully	Cracking of receiving channel grout present.
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Other:	☐ Trapezoid: ☐ Parabolic: ☐ Other:		
Flow	☒ None ☐ Trickle ☐ Moderate ☐ Substantial ☐ Estimate flow rate _____			

FOR BOTH FLOWING and NON-FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	COMMENTS
☒ Pipe Condition	☐ Chip/Cracked ☐ Corrosion ☐ Peeling Paint ☒ Other: _____	Tree roots growing into pipe and some debris accumulation present. Pipe is disjointed in several locations.
☐ Odor	☐ Gas ☐ Sewage ☐ Sulfide ☐ Other: _____	
☐ Deposits/Stains	☐ Oily ☐ Flow Line ☐ Paint ☐ Iron	
☒ Vegetation	☐ Normal ☐ Inhibited ☒ Excessive	Tree roots growing into pipe.
☐ Pipe Benthic Growth	☐ Brown ☐ Orange ☐ Green ☐ Other: _____	
☐ Pool Quality	☐ Good ☐ Odors ☐ Algae ☐ Colors ☐ Oils ☐ Suds	

FOR FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	RELATIVE SEVERITY INDEX		
☐ Odor	☐ Sewage ☐ Petroleum/gas ☐ Sulfide ☐ Rancid/sour ☐ Other: _____	☐ 1 - Faint	☐ 2 - Easily detected	☐ 3 - Noticeable from a distance
☐ Color	☐ Clear ☐ Brown ☐ Orange ☐ Grey ☐ Other: _____	☐ 1 – Trace colors	☐ 2 – Faint Colors	☐ 3 – Clearly visible
☐ Turbidity	See Severity	☐ 1- Slight Cloudiness	☐ 2 – Cloudy	☐ 3 - Opaque
☐ Floatables (not including trash)	☐ Sewage ☐ Suds ☐ Iron ☐ Petroleum (oil sheen)	☐ 1 – Few/slight	☐ 2 - Some; indication of origin	☐ 3 – Many

Storm Water Outfalls

Watershed/Subshed:		Assessed by: J. Slagle, M. McGraw	
Outfall ID: Outfall 3		Date of Last Rainfall: 05/28/2025	
Date: 06/04/2025	Time: 1:22pm	Rainfall Quantity: 0.01 in.	

TYPE	MATERIAL	SHAPE	SUBMERGED	GENERAL OBSERVATIONS
☒ Closed Pipe	☒ Concrete ☐ PVC/Plastic ☐ Metal ☐ Brick ☐ Other:	☒ Circular ☐ Other:	☒ Single ☐ Double <u>In Water:</u> ☐ No ☒ Partially ☐ Fully <u>With Sediment:</u> ☐ No ☒ Partially ☐ Fully	Outfall pipe is backwatered due to receiving channel conditions.
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Other:	☐ Trapezoid: ☐ Parabolic: ☐ Other:	Depth: _____ Width (top): _____ (bottom): _____	
Flow	☒ None ☐ Trickle ☐ Moderate ☐ Substantial ☐ Estimate flow rate _____			

FOR BOTH FLOWING and NON-FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	COMMENTS
☒ Pipe Condition	☒ Chip/Cracked ☐ Corrosion ☐ Peeling Paint ☐ Other: _____	Concrete spalling present between pipe and headwall.
☒ Odor	☐ Gas ☐ Sewage ☐ Sulfide ☒ Other: _____	Odor present at outfall due to standing water in receiving channel.
☐ Deposits/Stains	☐ Oily ☐ Flow Line ☐ Paint ☐ Iron	
☐ Vegetation	☐ Normal ☐ Inhibited ☐ Excessive	
☒ Pipe Benthic Growth	☐ Brown ☐ Orange ☒ Green ☐ Other: _____	
☒ Pool Quality	☐ Good ☒ Odors ☒ Algae ☐ Colors ☐ Oils ☐ Suds	Sediment and algae accumulation.

FOR FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	RELATIVE SEVERITY INDEX		
☐ Odor	☐ Sewage ☐ Petroleum/gas ☐ Sulfide ☐ Rancid/sour ☐ Other: _____	☐ 1 - Faint	☐ 2 - Easily detected	☐ 3 - Noticeable from a distance
☐ Color	☐ Clear ☐ Brown ☐ Orange ☐ Grey ☐ Other: _____	☐ 1 - Trace colors	☐ 2 - Faint Colors	☐ 3 - Clearly visible
☐ Turbidity	See Severity	☐ 1- Slight Cloudiness	☐ 2 - Cloudy	☐ 3 - Opaque
☐ Floatables (not including trash)	☐ Sewage ☐ Suds ☐ Iron ☐ Petroleum (oil sheen)	☐ 1 - Few/slight	☐ 2 - Some; indication of origin	☐ 3 - Many



Christopher Newport University Annual Outfall Inspections Photo Log June 2025

OUTFALL INSPECTION PHOTO LOG

Outfall 1



Photo #1: 48" Concrete Pipe



Photo #2: Some standing water at outfall 1 receiving channel

OUTFALL INSPECTION PHOTO LOG

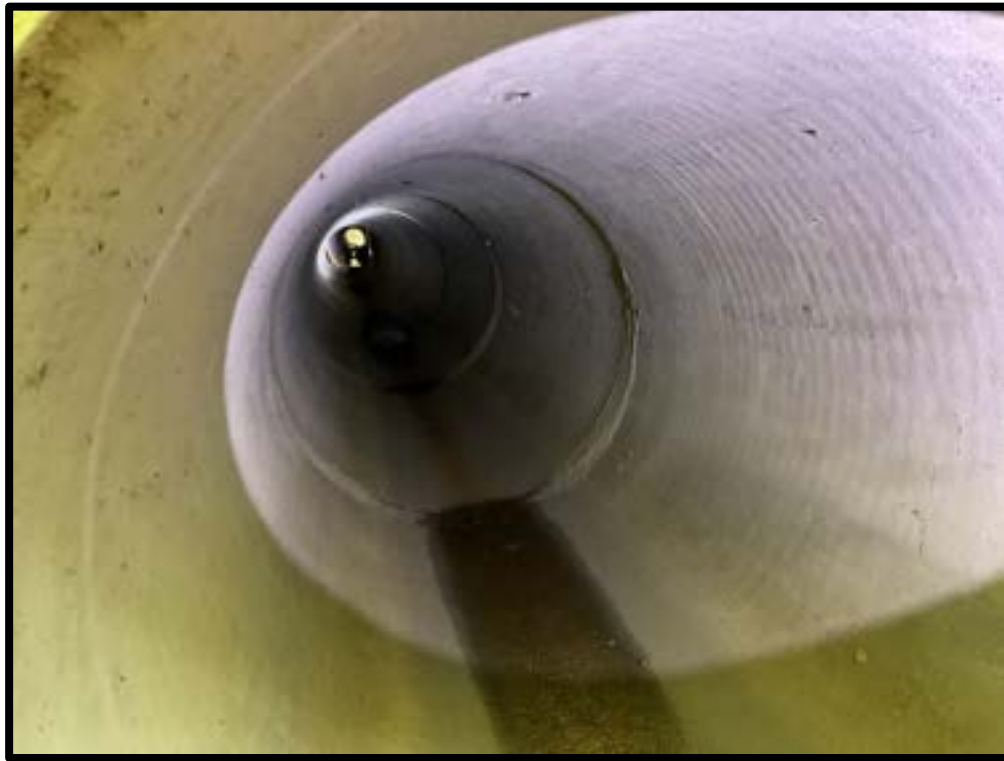


Photo #3: Pipe is disjointed



Photo #4: Tree growing into headwall

OUTFALL INSPECTION PHOTO LOG

Outfall 2



Photo #1: 24" Concrete pipe



Photo #2: Outfall 2 receiving channel

OUTFALL INSPECTION PHOTO LOG



Photo #3: Some debris accumulation in pipe, pipe may be disjointed



Photo #4: Tree roots present

OUTFALL INSPECTION PHOTO LOG



Photo #5: Cracking of receiving channel grout

Outfall 3



Photo #1: 72" Concrete Pipe



Photo #2: Outfall 3 receiving channel

OUTFALL INSPECTION PHOTO LOG



Photo #3: Backwater present in pipe due to receiving channel conditions



Photo #3: Sediment accumulation in receiving channel

Storm Water Outfalls

Watershed/Subshed:		Assessed by: J. Slagle, M. McGraw	
Outfall ID: C1		Date of Last Rainfall: 05/28/2025	
Date: 06/04/2025	Time: 1:34pm	Rainfall Quantity: 0.01 in.	

TYPE	MATERIAL	SHAPE	SUBMERGED	GENERAL OBSERVATIONS
☒ Closed Pipe	☒ Concrete ☐ PVC/Plastic ☐ Metal ☐ Brick ☐ Other:	☒ Circular ☐ Other:	☒ Single ☐ Double <u>In Water:</u> ☐ No ☒ Partially ☐ Fully <u>With Sediment:</u> ☐ No ☒ Partially ☐ Fully	Backwater present in outfall pipe and structure.
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Other:	☐ Trapezoid: ☐ Parabolic: ☐ Other:	Depth: _____ Width (top): _____ (bottom): _____	
Flow	☒ None ☐ Trickle ☐ Moderate ☐ Substantial ☐ Estimate flow rate _____			

FOR BOTH FLOWING and NON-FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	COMMENTS
☒ Pipe Condition	☒ Chip/Cracked ☐ Corrosion ☐ Peeling Paint ☐ Other: _____	Some cracking of concrete pipe present.
☐ Odor	☐ Gas ☐ Sewage ☐ Sulfide ☐ Other: _____	
☐ Deposits/Stains	☐ Oily ☐ Flow Line ☐ Paint ☐ Iron	
☐ Vegetation	☐ Normal ☐ Inhibited ☐ Excessive	
☐ Pipe Benthic Growth	☐ Brown ☐ Orange ☐ Green ☐ Other: _____	
☒ Pool Quality	☐ Good ☐ Odors ☐ Algae ☐ Colors ☐ Oils ☐ Suds	Some sediment and trash accumulation in structure

FOR FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	RELATIVE SEVERITY INDEX		
☐ Odor	☐ Sewage ☐ Petroleum/gas ☐ Sulfide ☐ Rancid/sour ☐ Other: _____	☐ 1 - Faint	☐ 2 - Easily detected	☐ 3 - Noticeable from a distance
☐ Color	☐ Clear ☐ Brown ☐ Orange ☐ Grey ☐ Other: _____	☐ 1 - Trace colors	☐ 2 - Faint Colors	☐ 3 - Clearly visible
☐ Turbidity	See Severity	☐ 1- Slight Cloudiness	☐ 2 - Cloudy	☐ 3 - Opaque
☐ Floatables (not including trash)	☐ Sewage ☐ Suds ☐ Iron ☐ Petroleum (oil sheen)	☐ 1 - Few/slight	☐ 2 - Some; indication of origin	☐ 3 - Many

Stormwater Outfalls

Watershed/Subshed:	Assessed by: J. Slagle, M. McGraw
Outfall ID: C2	Date of Last Rainfall: 05/28/2025
Date: 06/04/2025 Time: 2:40pm	Rainfall Quantity: 0.01 in.

TYPE	MATERIAL	SHAPE	SUBMERGED	GENERAL OBSERVATIONS
☒ Closed Pipe	☒ Concrete ☐ PVC/Plastic ☐ Metal ☐ Brick ☐ Other:	☒ Circular ☐ Other:	☒ Single ☐ Double <u>In Water:</u> ☒ No ☐ Partially ☐ Fully <u>With Sediment:</u> ☐ No ☒ Partially ☐ Fully	
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Other:	☐ Trapezoid: ☐ Parabolic: ☐ Other:		
Flow	☒ None ☐ Trickle ☐ Moderate ☐ Substantial ☐ Estimate flow rate _____			

FOR BOTH FLOWING and NON-FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	COMMENTS
☐ Pipe Condition	☐ Chip/Cracked ☐ Corrosion ☐ Peeling Paint ☐ Other: _____	
☐ Odor	☐ Gas ☐ Sewage ☐ Sulfide ☐ Other: _____	
☐ Deposits/Stains	☐ Oily ☐ Flow Line ☐ Paint ☐ Iron	
☐ Vegetation	☐ Normal ☐ Inhibited ☐ Excessive	
☐ Pipe Benthic Growth	☐ Brown ☐ Orange ☐ Green ☐ Other: _____	
☐ Pool Quality	☐ Good ☐ Odors ☐ Algae ☐ Colors ☐ Oils ☐ Suds	

FOR FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	RELATIVE SEVERITY INDEX		
☐ Odor	☐ Sewage ☐ Petroleum/gas ☐ Sulfide ☐ Rancid/sour ☐ Other: _____	☐ 1 - Faint	☐ 2 - Easily detected	☐ 3 - Noticeable from a distance
☐ Color	☐ Clear ☐ Brown ☐ Orange ☐ Grey ☐ Other: _____	☐ 1 - Trace colors	☐ 2 - Faint Colors	☐ 3 - Clearly visible
☐ Turbidity	See Severity	☐ 1- Slight Cloudiness	☐ 2 - Cloudy	☐ 3 - Opaque
☐ Floatables (not including trash)	☐ Sewage ☐ Suds ☐ Iron ☐ Petroleum (oil sheen)	☐ 1 - Few/slight	☐ 2 - Some; indication of origin	☐ 3 - Many

Storm Water Outfalls

Watershed/Subshed:		Assessed by: J. Slagle, M. McGraw	
Outfall ID: C3		Date of Last Rainfall: 05/28/2025	
Date: 06/04/2025		Rainfall Quantity: 0.01 in.	
Time: 2:44pm			

TYPE	MATERIAL	SHAPE	SUBMERGED	GENERAL OBSERVATIONS
☒ Closed Pipe	☒ Concrete ☐ PVC/Plastic ☐ Metal ☐ Brick ☐ Other:	☒ Circular ☐ Other:	☒ Single ☐ Double <u>In Water:</u> ☒ No ☐ Partially ☐ Fully <u>With Sediment:</u> ☒ No ☐ Partially ☐ Fully	
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Other:	☐ Trapezoid: ☐ Parabolic: ☐ Other:	Depth: _____ Width (top): _____ (bottom): _____	
Flow	☒ None ☐ Trickle ☐ Moderate ☐ Substantial ☐ Estimate flow rate _____			

FOR BOTH FLOWING and NON-FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	COMMENTS
☐ Pipe Condition	☐ Chip/Cracked ☐ Corrosion ☐ Peeling Paint ☐ Other: _____	
☐ Odor	☐ Gas ☐ Sewage ☐ Sulfide ☐ Other: _____	
☐ Deposits/Stains	☐ Oily ☐ Flow Line ☐ Paint ☐ Iron	
☐ Vegetation	☐ Normal ☐ Inhibited ☐ Excessive	
☐ Pipe Benthic Growth	☐ Brown ☐ Orange ☐ Green ☐ Other: _____	
☐ Pool Quality	☐ Good ☐ Odors ☐ Algae ☐ Colors ☐ Oils ☐ Suds	

FOR FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	RELATIVE SEVERITY INDEX		
☐ Odor	☐ Sewage ☐ Petroleum/gas ☐ Sulfide ☐ Rancid/sour ☐ Other: _____	☐ 1 - Faint	☐ 2 - Easily detected	☐ 3 - Noticeable from a distance
☐ Color	☐ Clear ☐ Brown ☐ Orange ☐ Grey ☐ Other: _____	☐ 1 - Trace colors	☐ 2 - Faint Colors	☐ 3 - Clearly visible
☐ Turbidity	See Severity	☐ 1- Slight Cloudiness	☐ 2 - Cloudy	☐ 3 - Opaque
☐ Floatables (not including trash)	☐ Sewage ☐ Suds ☐ Iron ☐ Petroleum (oil sheen)	☐ 1 - Few/slight	☐ 2 - Some; indication of origin	☐ 3 - Many

Stormwater Outfalls

Watershed/Subshed:	Assessed by: J. Slagle, M. McGraw
Outfall ID: C4	Date of Last Rainfall: 05/28/2025
Date: 06/04/2025 Time: 2:43pm	Rainfall Quantity: 0.01 in.

TYPE	MATERIAL	SHAPE	SUBMERGED	GENERAL OBSERVATIONS	
☒ Closed Pipe	☒ Concrete ☐ PVC/Plastic ☐ Metal ☐ Brick ☐ Other:	☒ Circular ☐ Other:	☒ Single ☐ Double	<u>In Water:</u> ☒ No ☐ Partially ☐ Fully <u>With Sediment:</u> ☐ No ☒ Partially ☐ Fully	
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Other:	☐ Trapezoid: ☐ Parabolic: ☐ Other:			
Flow	☒ None ☐ Trickle ☐ Moderate ☐ Substantial ☐ Estimate flow rate _____				

FOR BOTH FLOWING and NON-FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	COMMENTS
☐ Pipe Condition	☐ Chip/Cracked ☐ Corrosion ☐ Peeling Paint ☐ Other: _____	
☐ Odor	☐ Gas ☐ Sewage ☐ Sulfide ☐ Other: _____	
☐ Deposits/Stains	☐ Oily ☐ Flow Line ☐ Paint ☐ Iron	
☐ Vegetation	☐ Normal ☐ Inhibited ☐ Excessive	
☐ Pipe Benthic Growth	☐ Brown ☐ Orange ☐ Green ☐ Other: _____	
☐ Pool Quality	☐ Good ☐ Odors ☐ Algae ☐ Colors ☐ Oils ☐ Suds	

FOR FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	RELATIVE SEVERITY INDEX		
☐ Odor	☐ Sewage ☐ Petroleum/gas ☐ Sulfide ☐ Rancid/sour ☐ Other: _____	☐ 1 - Faint	☐ 2 - Easily detected	☐ 3 - Noticeable from a distance
☐ Color	☐ Clear ☐ Brown ☐ Orange ☐ Grey ☐ Other: _____	☐ 1 – Trace colors	☐ 2 – Faint Colors	☐ 3 – Clearly visible
☐ Turbidity	See Severity	☐ 1- Slight Cloudiness	☐ 2 – Cloudy	☐ 3 - Opaque
☐ Floatables (not including trash)	☐ Sewage ☐ Suds ☐ Iron ☐ Petroleum (oil sheen)	☐ 1 – Few/slight	☐ 2 - Some; indication of origin	☐ 3 – Many

Storm Water Outfalls

Watershed/Subshed:		Assessed by: J. Slagle, M. McGraw	
Outfall ID: C5		Date of Last Rainfall: 05/28/2025	
Date: 06/04/2025		Time: 2:46pm	
		Rainfall Quantity: 0.01 in.	

TYPE	MATERIAL	SHAPE	SUBMERGED	GENERAL OBSERVATIONS
☒ Closed Pipe	☒ Concrete ☐ PVC/Plastic ☐ Metal ☐ Brick ☐ Other:	☒ Circular ☐ Other:	☒ Single ☐ Double <u>In Water:</u> ☒ No ☐ Partially ☐ Fully <u>With Sediment:</u> ☒ No ☐ Partially ☐ Fully	
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Other:	☐ Trapezoid: ☐ Parabolic: ☐ Other:	Depth: _____ Width (top): _____ (bottom): _____	
Flow	☒ None ☐ Trickle ☐ Moderate ☐ Substantial ☐ Estimate flow rate _____			

FOR BOTH FLOWING and NON-FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	COMMENTS
☐ Pipe Condition	☐ Chip/Cracked ☐ Corrosion ☐ Peeling Paint ☐ Other: _____	
☐ Odor	☐ Gas ☐ Sewage ☐ Sulfide ☐ Other: _____	
☐ Deposits/Stains	☐ Oily ☐ Flow Line ☐ Paint ☐ Iron	
☐ Vegetation	☐ Normal ☐ Inhibited ☐ Excessive	
☐ Pipe Benthic Growth	☐ Brown ☐ Orange ☐ Green ☐ Other: _____	
☐ Pool Quality	☐ Good ☐ Odors ☐ Algae ☐ Colors ☐ Oils ☐ Suds	

FOR FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	RELATIVE SEVERITY INDEX		
☐ Odor	☐ Sewage ☐ Petroleum/gas ☐ Sulfide ☐ Rancid/sour ☐ Other: _____	☐ 1 - Faint	☐ 2 - Easily detected	☐ 3 - Noticeable from a distance
☐ Color	☐ Clear ☐ Brown ☐ Orange ☐ Grey ☐ Other: _____	☐ 1 - Trace colors	☐ 2 - Faint Colors	☐ 3 - Clearly visible
☐ Turbidity	See Severity	☐ 1- Slight Cloudiness	☐ 2 - Cloudy	☐ 3 - Opaque
☐ Floatables (not including trash)	☐ Sewage ☐ Suds ☐ Iron ☐ Petroleum (oil sheen)	☐ 1 - Few/slight	☐ 2 - Some; indication of origin	☐ 3 - Many

Stormwater Outfalls

Watershed/Subshed:	Assessed by: J. Slagle, M. McGraw
Outfall ID: C6	Date of Last Rainfall: 05/28/2025
Date: 06/04/2025 Time: 2:50pm	Rainfall Quantity: 0.01 in.

TYPE	MATERIAL	SHAPE	SUBMERGED	GENERAL OBSERVATIONS	
☒ Closed Pipe	☒ Concrete ☐ PVC/Plastic ☐ Metal ☐ Brick ☐ Other:	☒ Circular ☐ Other:	☒ Single ☐ Double	<u>In Water:</u> ☒ No ☐ Partially ☐ Fully <u>With Sediment:</u> ☐ No ☒ Partially ☐ Fully	
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Other:	☐ Trapezoid: ☐ Parabolic: ☐ Other:			
Flow	☒ None ☐ Trickle ☐ Moderate ☐ Substantial ☐ Estimate flow rate _____				

FOR BOTH FLOWING and NON-FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	COMMENTS
☐ Pipe Condition	☐ Chip/Cracked ☐ Corrosion ☐ Peeling Paint ☐ Other: _____	
☐ Odor	☐ Gas ☐ Sewage ☐ Sulfide ☐ Other: _____	
☐ Deposits/Stains	☐ Oily ☐ Flow Line ☐ Paint ☐ Iron	
☐ Vegetation	☐ Normal ☐ Inhibited ☐ Excessive	
☐ Pipe Benthic Growth	☐ Brown ☐ Orange ☐ Green ☐ Other: _____	
☐ Pool Quality	☐ Good ☐ Odors ☐ Algae ☐ Colors ☐ Oils ☐ Suds	

FOR FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	RELATIVE SEVERITY INDEX		
☐ Odor	☐ Sewage ☐ Petroleum/gas ☐ Sulfide ☐ Rancid/sour ☐ Other: _____	☐ 1 - Faint	☐ 2 - Easily detected	☐ 3 - Noticeable from a distance
☐ Color	☐ Clear ☐ Brown ☐ Orange ☐ Grey ☐ Other: _____	☐ 1 – Trace colors	☐ 2 – Faint Colors	☐ 3 – Clearly visible
☐ Turbidity	See Severity	☐ 1- Slight Cloudiness	☐ 2 – Cloudy	☐ 3 - Opaque
☐ Floatables (not including trash)	☐ Sewage ☐ Suds ☐ Iron ☐ Petroleum (oil sheen)	☐ 1 – Few/slight	☐ 2 - Some; indication of origin	☐ 3 – Many

Storm Water Outfalls

Watershed/Subshed:		Assessed by: J. Slagle, M. McGraw	
Outfall ID: C7		Date of Last Rainfall: 05/28/2025	
Date: 06/04/2025		Time: 2:55pm	
		Rainfall Quantity: 0.01 in.	

TYPE	MATERIAL	SHAPE	SUBMERGED	GENERAL OBSERVATIONS
☒ Closed Pipe	☒ Concrete ☐ PVC/Plastic ☐ Metal ☐ Brick ☐ Other:	☒ Circular ☐ Other:	☒ Single ☐ Double <u>In Water:</u> ☒ No ☐ Partially ☐ Fully <u>With Sediment:</u> ☐ No ☒ Partially ☐ Fully	
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Other:	☐ Trapezoid: ☐ Parabolic: ☐ Other:	Depth: _____ Width (top): _____ (bottom): _____	
Flow	☒ None ☐ Trickle ☐ Moderate ☐ Substantial ☐ Estimate flow rate _____			

FOR BOTH FLOWING and NON-FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	COMMENTS
☐ Pipe Condition	☐ Chip/Cracked ☐ Corrosion ☐ Peeling Paint ☐ Other: _____	
☐ Odor	☐ Gas ☐ Sewage ☐ Sulfide ☐ Other: _____	
☐ Deposits/Stains	☐ Oily ☐ Flow Line ☐ Paint ☐ Iron	
☐ Vegetation	☐ Normal ☐ Inhibited ☐ Excessive	
☐ Pipe Benthic Growth	☐ Brown ☐ Orange ☐ Green ☐ Other: _____	
☐ Pool Quality	☐ Good ☐ Odors ☐ Algae ☐ Colors ☐ Oils ☐ Suds	

FOR FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	RELATIVE SEVERITY INDEX		
☐ Odor	☐ Sewage ☐ Petroleum/gas ☐ Sulfide ☐ Rancid/sour ☐ Other: _____	☐ 1 - Faint	☐ 2 - Easily detected	☐ 3 - Noticeable from a distance
☐ Color	☐ Clear ☐ Brown ☐ Orange ☐ Grey ☐ Other: _____	☐ 1 - Trace colors	☐ 2 - Faint Colors	☐ 3 - Clearly visible
☐ Turbidity	See Severity	☐ 1- Slight Cloudiness	☐ 2 - Cloudy	☐ 3 - Opaque
☐ Floatables (not including trash)	☐ Sewage ☐ Suds ☐ Iron ☐ Petroleum (oil sheen)	☐ 1 - Few/slight	☐ 2 - Some; indication of origin	☐ 3 - Many

Stormwater Outfalls

Watershed/Subshed:	Assessed by: J. Slagle, M. McGraw
Outfall ID: C8	Date of Last Rainfall: 05/28/2025
Date: 06/04/2025 Time: 2:57pm	Rainfall Quantity: 0.01 in.

TYPE	MATERIAL	SHAPE	SUBMERGED	GENERAL OBSERVATIONS
☒ Closed Pipe	☒ Concrete ☐ PVC/Plastic ☐ Metal ☐ Brick ☐ Other:	☒ Circular ☐ Other:	☒ Single ☐ Double <u>In Water:</u> ☒ No ☐ Partially ☐ Fully <u>With Sediment:</u> ☒ No ☐ Partially ☐ Fully	Backwater in outfall channel
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Other:	☐ Trapezoid: ☐ Parabolic: ☐ Other:		
Flow	☒ None ☐ Trickle ☐ Moderate ☐ Substantial ☐ Estimate flow rate _____			

FOR BOTH FLOWING and NON-FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	COMMENTS
☐ Pipe Condition	☐ Chip/Cracked ☐ Corrosion ☐ Peeling Paint ☐ Other: _____	
☐ Odor	☐ Gas ☐ Sewage ☐ Sulfide ☐ Other: _____	
☐ Deposits/Stains	☐ Oily ☐ Flow Line ☐ Paint ☐ Iron	
☐ Vegetation	☐ Normal ☐ Inhibited ☐ Excessive	
☐ Pipe Benthic Growth	☐ Brown ☐ Orange ☐ Green ☐ Other: _____	
☐ Pool Quality	☐ Good ☐ Odors ☐ Algae ☐ Colors ☐ Oils ☐ Suds	

FOR FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	RELATIVE SEVERITY INDEX		
☐ Odor	☐ Sewage ☐ Petroleum/gas ☐ Sulfide ☐ Rancid/sour ☐ Other: _____	☐ 1 - Faint	☐ 2 - Easily detected	☐ 3 - Noticeable from a distance
☐ Color	☐ Clear ☐ Brown ☐ Orange ☐ Grey ☐ Other: _____	☐ 1 – Trace colors	☐ 2 – Faint Colors	☐ 3 – Clearly visible
☐ Turbidity	See Severity	☐ 1- Slight Cloudiness	☐ 2 – Cloudy	☐ 3 - Opaque
☐ Floatables (not including trash)	☐ Sewage ☐ Suds ☐ Iron ☐ Petroleum (oil sheen)	☐ 1 – Few/slight	☐ 2 - Some; indication of origin	☐ 3 – Many

Storm Water Outfalls

Watershed/Subshed:		Assessed by: J. Slagle, M. McGraw	
Outfall ID: C9		Date of Last Rainfall: 05/28/2025	
Date: 06/04/2025		Rainfall Quantity: 0.01 in.	
Time: 3:15pm			

TYPE	MATERIAL	SHAPE	SUBMERGED	GENERAL OBSERVATIONS
☒ Closed Pipe	☒ Concrete ☐ PVC/Plastic ☐ Metal ☐ Brick ☐ Other:	☒ Circular ☐ Other:	☒ Single ☐ Double <u>In Water:</u> ☒ No ☐ Partially ☐ Fully <u>With Sediment:</u> ☐ No ☒ Partially ☐ Fully	
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Other:	☐ Trapezoid: ☐ Parabolic: ☐ Other:	Depth: _____ Width (top): _____ (bottom): _____	
Flow	☒ None ☐ Trickle ☐ Moderate ☐ Substantial ☐ Estimate flow rate _____			

FOR BOTH FLOWING and NON-FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	COMMENTS
☐ Pipe Condition	☐ Chip/Cracked ☐ Corrosion ☐ Peeling Paint ☐ Other: _____	
☐ Odor	☐ Gas ☐ Sewage ☐ Sulfide ☐ Other: _____	
☐ Deposits/Stains	☐ Oily ☐ Flow Line ☐ Paint ☐ Iron	
☐ Vegetation	☐ Normal ☐ Inhibited ☐ Excessive	
☐ Pipe Benthic Growth	☐ Brown ☐ Orange ☐ Green ☐ Other: _____	
☐ Pool Quality	☐ Good ☐ Odors ☐ Algae ☐ Colors ☐ Oils ☐ Suds	

FOR FLOWING OUTFALLS:

INDICATOR	DESCRIPTION	RELATIVE SEVERITY INDEX		
☐ Odor	☐ Sewage ☐ Petroleum/gas ☐ Sulfide ☐ Rancid/sour ☐ Other: _____	☐ 1 - Faint	☐ 2 - Easily detected	☐ 3 - Noticeable from a distance
☐ Color	☐ Clear ☐ Brown ☐ Orange ☐ Grey ☐ Other: _____	☐ 1 - Trace colors	☐ 2 - Faint Colors	☐ 3 - Clearly visible
☐ Turbidity	See Severity	☐ 1- Slight Cloudiness	☐ 2 - Cloudy	☐ 3 - Opaque
☐ Floatables (not including trash)	☐ Sewage ☐ Suds ☐ Iron ☐ Petroleum (oil sheen)	☐ 1 - Few/slight	☐ 2 - Some; indication of origin	☐ 3 - Many



Christopher Newport University Annual Outfall Inspections Photo Log June 2025

OUTFALL INSPECTION PHOTO LOG

C1



Photo #1: Overall



Photo #2: Standing water and debris present

OUTFALL INSPECTION PHOTO LOG

C2



Photo #1: Overall



Photo #2: Some sediment and debris accumulation present

OUTFALL INSPECTION PHOTO LOG

C3



Photo #1: Overall



Photo #2: Some sediment and debris accumulation present

OUTFALL INSPECTION PHOTO LOG

C4



Photo #1: Overall



Photo #2: Minor sediment accumulation present

OUTFALL INSPECTION PHOTO LOG

C5



Photo #1: Overall



Photo #2: Some debris accumulation present

OUTFALL INSPECTION PHOTO LOG

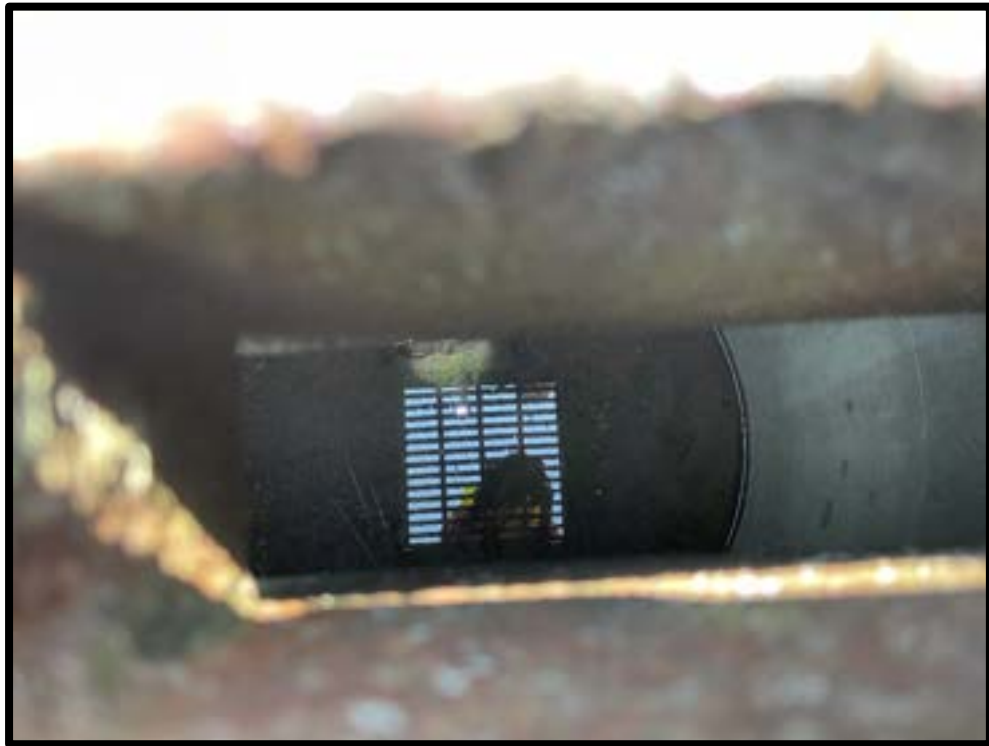


Photo #1: Some debris accumulation present in inlet grate

C6



Photo # 1: Inlet grate seems to be in good condition

OUTFALL INSPECTION PHOTO LOG



Photo #2: Some sediment accumulation present

C7



Photo #1: Overall

OUTFALL INSPECTION PHOTO LOG



Photo #2: Sediment accumulation present

C8



Photo #1: Overall

OUTFALL INSPECTION PHOTO LOG



Photo #2: Some sedimentation and debris accumulation present

C9



Photo #1: Grate channel and grate inlet



Photo #2: Some sedimentation present at upstream outfall pipe



Photo #3: Downstream outfall pipe, some sediment accumulation present

OUTFALL INSPECTION PHOTO LOG

C10



Photo #1: Grate inlet



Photo #2: Upstream outfall pipe, sedimentation present

To: Mr. Robert Farrell, Virginia DEQ
Prep Coordinator- Tidewater Regional Office

From: Dean Whitehead, Director of Grounds and Stormwater Manager
Director of Grounds
Christopher Newport University
1 Avenue of the Arts
Newport News, VA 23606
(757) 594-8416

Re: Five Day Incident Report for Incident 318787

On May 6, 2025, we discovered a spill of approximately two gallons of blue athletic turf paint used to paint lines on athletic fields and notified the VDEQ through the online reporting system. VDEQ was the only agency notified as to this potential spill. This spill was located on the west side of Towne Bank Stadium at Christopher Newport University. The spill occurred at approximately 11:45 AM and only lasted about 10 minutes or less. As you will see from some photos at the end, we immediately began to protect the drains from rain that was threatening the area. Drain 1 is where we first discovered the discharge into the system. Upon inspection of Drain 2 & 3, we discovered the drains were clogged with mulch which prevented the discharge into any water way. Drain 3 was the lowest drain in the landscape so we were able to block the drain and prevent any discharge. Below I've attached a picture showing the area.



This is a photo of Drain 1 that we protected to prevent any more spillage into the storm system.



This is photo of the paint we had in Drain 1 before it was covered and protected.



This is a photo of Drain 2 that shows the buildup of debris preventing the discharge.



This is a photo of Drain 3 that shows no blue paint making it to the drain.



On May 6, we called in Ziegler Plumbing, from Newport News, to vacuum the drains and on May 7, they arrived and began to clean the drains by placing their truck at Drain 3 and flushing Drains 1 & 2.

Flushing Drain 1



Flushing Drain 2



Vacuuming at Drain 3



Sadly, this incident occurred with in-house athletic staff that work in my Grounds Department. Ironically, we were doing our biennial training as required by our MS4 program the next week so everyone was retrained in regards to Illicit Discharges.

To: Mr. Robert Farrell, Virginia DEQ
Prep Coordinator- Tidewater Regional Office

From: Dean Whitehead, Director of Grounds and Stormwater Manager
Director of Grounds
Christopher Newport University
1 Avenue of the Arts
Newport News, VA 23606
(757) 594-8416

Re: Five Day Incident Report for Incident 319121

On May 22, 2025, the Timmons Group consisting of Marlene McGraw and Hailey Fry, were on sight performing the annual SWPP inspections for our high priority areas. The inspection at the CNU Ferguson Center loading dock area led them to believe we may have a discharge of about 5 gallons of a petroleum which had the odor and feel of diesel fuel. VDEQ was notified through the online reporting system and was the only agency alerted to this potential spill. This spill was located on the west side of the Ferguson Center at Christopher Newport University. The old spill was discovered at approximately 4:00 PM that day and we had no way of knowing when it occurred.

This was the discharge that was found. A petroleum sheen was seen on the top of the standing water in the drain.



On May 23, 2025 we pumped the standing water out of the drain and disposed of in a sanitary sewer. We also contacted Ziegler Plumbing, from Newport News, to come and vacuum the drains.



On May 24, Ziegler Plumbing arrived to power wash the parking lot and vacuum the drain.



All drains that were below the elevation of where the spill was observed were checked by the Timmons Group and myself. Those drains appeared to be clear and so the contaminant was isolated the one drain.

As you saw from the last picture, there was a blue lift in the background with stacks of white roofing material. The Ferguson Center roof is being replaced this summer so that contractor was notified of this incident and advised that he needed to have drain protection and spill containments measures in place to prevent this type of IDDE in the future. While we don't know if they caused this spill, they can certainly work to prevent ones like this from happening.

Feel free to contact me if you have any questions.

Appendix D: Minimum Control Measure 4 (MCM 4)

Supplemental Information

AS&S HOLDER GENERAL PERMIT SITE INSPECTION CHECKLIST

(All section references below are to the Construction GP 9VAC25-870-70 effective 7/1/19)

Project Name: Integrated Science Center-Phase 3 Permit Number: 22-105S
 Project Address: 1 Avenue of the Arts County/City: Newport News
 Project Operator: Christopher Newport University Operator Telephone: 757.594.7867
 Operator Address: 1 Avenue of the Arts County/City: Newport News ZIP: 23606
 Inspector Name: Steve Vargo Inspection Date: 2024-09-19 Time: 1:00 pm
 Date of Last Measurable Storm Event: 2024-09-17 Amount (inches) 0.15 Storm Duration (hours) No Data

		Yes	No	N/A
1	Copy of notice of coverage letter posted near main entrance: Part II(C)	X		
2	Information for public access to electronic format or had copy of SWPPP posted near main entrance:	X		
3	Copy of complete SWPPP available onsite: Part II(A)	X		
3a	Signed copy of registration statement: Part II(A)1.a	X		
3b	Copy of permit: Part II(A)1.b	X		
3c	Copy of notice of coverage letter: Part II(A)1.c	X		
3d	Narrative description of the nature of construction activity: Part II(A)1.d	X		
3e	Legible site plan: Part II(A)1.e	X		
3f	Approved ESC plan or ESC plan developed in accordance with department approved annual standards and specifications: Part II(A)3	X		
3g	Approved SWM plan or SWM plan developed in accordance with department approved annual standards and specifications: Part II(A)4	X		
3h	Pollution prevention plan: Part II(A)4	X		
3i	Requirements for discharges to impaired waters, surface waters with an applicable TMDL, exceptional waters: Part II(A)5	X		
3j	Contact information for qualified personnel conducting inspections: Part II(A)6	X		
3k	SWPPP signed in accordance with Part III K: Part II(A)8	X		
4	SWPPP is being amended, modified and updated: Part (B)	X		
4a	SWPPP clearly identifies the contractor(s) that will implement and maintain each control measure identified in SWPPP: Part II(B)3	X		
4b	Record dates when major grading activities occurred: Part II(B)4.a(1)	X		
4c	SWPPP amendments, modifications, or updates signed in accordance with Part III K: Part II(B)5	X		
5	SWPPP inspections carried out: Part II(F)	X		
5a	Inspections conducted at required frequency: Part II(F)2	X		
5b	Inspection reports summarize findings of inspections including corrective actions: Part II(F)4.a-i	X		
5c	Inspection reports have date and signature of qualified personnel conducting inspections and the operator or authorized representative: Part II(F)4.j	X		
5d	Inspection reports retained as part of SWPPP: Part II(F)4	X		
6	Erosion and sediment controls implemented: Part II(A)2.c	X		
6a	Volume and velocity of stormwater runoff controlled within site to minimize erosion: Part II(A)2.c(1)	X		
6b	Stormwater discharges, including peak flow rates and total stormwater volume controlled to minimize erosion at outlets and to minimize downstream channel and stream bank erosion: Part II(A)2.c(2)			X
6c	Soil exposed during construction activity minimized: Part II(A)2.c(3)	X		
6d	Disturbance of steep slopes minimized: Part II(A)2.c(4)			X
6e	Natural buffers around surface waters provided and maintained, stormwater directed to vegetated areas to increase sediment removal, and maximizes stormwater infiltration: Part II(A)2.c(6)			X
6f	Soil compaction minimized and topsoil preserved: Part II(A)2.c(7)			X
6g	Stabilization of disturbed areas initiated immediately whenever any clearing, grading, or excavating, or other land-disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for more than 14 days: Part II(A)2.c(8)	X		

6h	Outlet structures utilized that withdraw stormwater from the surface when discharging from sediment basins or sediment traps: Part II(A)2.c(9)			X
7	Pollution prevention plan implemented: Part II(A)4	X		
7a	Prevent and respond to leaks, spills and other releases including (i) procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases; and (ii) procedures for reporting leaks, spills, and other releases: Part II(A)4.e(1)	X		
7b	Prevent discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities (e.g. providing secondary containment such as spill berms, decks, spill containment pallets, providing cover where appropriate, and having spill kits readily available: Part II(A)4.e(2)	X		
7c	Prevent discharge of soaps, solvents, detergents, and wash water from construction materials, including clean-up of stucco, paint, form release oils, and curing compounds: Part II(A)4.e(3)	X		
7d	Minimize discharge of pollutants from vehicle and equipment washing, wheel wash water and other types of washing: Part II(A)4.e(4)			X
7e	Direct concrete wash water into a leak proof container or leak proof settling basin: Part II(A)4.e(5)	X		
7f	Minimize discharge of pollutants from storage, handling, and disposal of construction products, materials and wastes: Part II(A)4.e(6)	X		
7g	Prevent discharge of fuels, oils, and other petroleum products, hazardous or toxic wastes, and sanitary wastes: Part II(A)4.e(7)	X		
7h	Address any other discharge from the potential pollutant-generating activities not addressed above: Part II(A)4.e(8)			X
8	Appears to be impact(s) to receiving waters: Part I(B)6, Part I(D), or Part II(A)2c(2) or (5)		X	

VSMP CONSTRUCTION GP SITE INSPECTION CHECKLIST

Project Name: Integrated Science Center-Phase 3 Permit Number: 22-105S
 Project Address: 1 Avenue of the Arts County/City: Newport News
 Inspector Name: Steve Vargo Inspection Date: 2024-09-19 Time: 1:00 pm

STAGE OF CONSTRUCTION

<i>Pre-Construction Conference</i>	☐	<i>Building Construction</i>	☒	<i>Construction of SWM Facilities</i>	☒
<i>Clearing & Grading</i>	☐	<i>Finish Grading</i>	☐	<i>Maintenance of SWM Facilities</i>	☐
<i>Rough Grading</i>	☒	<i>Final Stabilization</i>	☐	<i>Other:</i>	☐

#	State Regulation ¹			Description and Location of Condition Observed ² , Recommended Corrective Actions, and Other Comments
		Initial	Repeat	
				No items for correction

1 - Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), the General Permit for Discharges of Stormwater from Construction Activities (9VAC25-880), or the Virginia Stormwater Management Program Regulations (9VAC25-870).

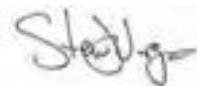
2 – Note whether or not off-site impacts resulting from the condition observed was evident during the inspection.

Recommended Corrective Action Deadline: N/A

Targeted Reinspection Date: ±2 weeks 2024-10-19

The recommended corrective action deadline date applies to all conditions noted on this report unless otherwise noted. If listed condition(s) currently constitute non-compliance and/or corrective actions are not completed by the deadline, other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Certified Inspector Name/Number: Steve Vargo DIN 1592

Signature:  Date: 2024-09-23

AS&S HOLDER GENERAL PERMIT SITE INSPECTION CHECKLIST

(All section references below are to the Construction GP 9VAC25-870-70 effective 7/1/19)

Project Name: Integrated Science Center-Phase 3 Permit Number: 22-105S
 Project Address: 1 Avenue of the Arts County/City: Newport News
 Project Operator: Christopher Newport University Operator Telephone: 757.594.7867
 Operator Address: 1 Avenue of the Arts County/City: Newport News ZIP: 23606
 Inspector Name: Stephen Metz Inspection Date: 2024-10-29 Time: 9:15 am
 Date of Last Measurable Storm Event: 2024-09-30 Amount (inches) 0.43 Storm Duration (hours) No Data

		Yes	No	N/A
1	Copy of notice of coverage letter posted near main entrance: Part II(C)	✓		
2	Information for public access to electronic format or had copy of SWPPP posted near main entrance:	✓		
3	Copy of complete SWPPP available onsite: Part II(A)	✓		
3a	Signed copy of registration statement: Part II(A)1.a	✓		
3b	Copy of permit: Part II(A)1.b	✓		
3c	Copy of notice of coverage letter: Part II(A)1.c	✓		
3d	Narrative description of the nature of construction activity: Part II(A)1.d	✓		
3e	Legible site plan: Part II(A)1.e	✓		
3f	Approved ESC plan or ESC plan developed in accordance with department approved annual standards and specifications: Part II(A)3	✓		
3g	Approved SWM plan or SWM plan developed in accordance with department approved annual standards and specifications: Part II(A)4	✓		
3h	Pollution prevention plan: Part II(A)4	✓		
3i	Requirements for discharges to impaired waters, surface waters with an applicable TMDL, exceptional waters: Part II(A)5	✓		
3j	Contact information for qualified personnel conducting inspections: Part II(A)6	✓		
3k	SWPPP signed in accordance with Part III K: Part II(A)8	✓		
4	SWPPP is being amended, modified and updated: Part (B)	✓		
4a	SWPPP clearly identifies the contractor(s) that will implement and maintain each control measure identified in SWPPP: Part II(B)3	✓		
4b	Record dates when major grading activities occurred: Part II(B)4.a(1)	✓		
4c	SWPPP amendments, modifications, or updates signed in accordance with Part III K: Part II(B)5	✓		
5	SWPPP inspections carried out: Part II(F)	✓		
5a	Inspections conducted at required frequency: Part II(F)2	✓		
5b	Inspection reports summarize findings of inspections including corrective actions: Part II(F)4.a-i	✓		
5c	Inspection reports have date and signature of qualified personnel conducting inspections and the operator or authorized representative: Part II(F)4.j	✓		
5d	Inspection reports retained as part of SWPPP: Part II(F)4	✓		
6	Erosion and sediment controls implemented: Part II(A)2.c	✓		
6a	Volume and velocity of stormwater runoff controlled within site to minimize erosion: Part II(A)2.c(1)	✓		
6b	Stormwater discharges, including peak flow rates and total stormwater volume controlled to minimize erosion at outlets and to minimize downstream channel and stream bank erosion: Part II(A)2.c(2)			✓
6c	Soil exposed during construction activity minimized: Part II(A)2.c(3)	✓		
6d	Disturbance of steep slopes minimized: Part II(A)2.c(4)			✓
6e	Natural buffers around surface waters provided and maintained, stormwater directed to vegetated areas to increase sediment removal, and maximizes stormwater infiltration: Part II(A)2.c(6)			✓
6f	Soil compaction minimized and topsoil preserved: Part II(A)2.c(7)			✓
6g	Stabilization of disturbed areas initiated immediately whenever any clearing, grading, or excavating, or other land-disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for more than 14 days: Part II(A)2.c(8)	✓		

6h	Outlet structures utilized that withdraw stormwater from the surface when discharging from sediment basins or sediment traps: Part II(A)2.c(9)	☐	☐	☒
7	Pollution prevention plan implemented: Part II(A)4	☒	☐	☐
7a	Prevent and respond to leaks, spills and other releases including (i) procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases; and (ii) procedures for reporting leaks, spills, and other releases: Part II(A)4.e(1)	☒	☐	☐
7b	Prevent discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities (e.g. providing secondary containment such as spill berms, decks, spill containment pallets, providing cover where appropriate, and having spill kits readily available: Part II(A)4.e(2)	☒	☐	☐
7c	Prevent discharge of soaps, solvents, detergents, and wash water from construction materials, including clean-up of stucco, paint, form release oils, and curing compounds: Part II(A)4.e(3)	☒	☐	☐
7d	Minimize discharge of pollutants from vehicle and equipment washing, wheel wash water and other types of washing: Part II(A)4.e(4)	☐	☐	☒
7e	Direct concrete wash water into a leak proof container or leak proof settling basin: Part II(A)4.e(5)	☒	☐	☐
7f	Minimize discharge of pollutants from storage, handling, and disposal of construction products, materials and wastes: Part II(A)4.e(6)	☒	☐	☐
7g	Prevent discharge of fuels, oils, and other petroleum products, hazardous or toxic wastes, and sanitary wastes: Part II(A)4.e(7)	☒	☐	☐
7h	Address any other discharge from the potential pollutant-generating activities not addressed above: Part II(A)4.e(8)	☐	☐	☒
8	Appears to be impact(s) to receiving waters: Part I(B)6, Part I(D), or Part II(A)2c(2) or (5)	☐	☒	☐

VSMP CONSTRUCTION GP SITE INSPECTION CHECKLIST

Project Name: Integrated Science Center-Phase 3 Permit Number: 22-105S
 Project Address: 1 Avenue of the Arts County/City: Newport News
 Inspector Name: Stephen Metz Inspection Date: 2024-10-29 Time: 09:30 AM

STAGE OF CONSTRUCTION

<i>Pre-Construction Conference</i>	☐	<i>Building Construction</i>	☒	<i>Construction of SWM Facilities</i>	☐
<i>Clearing & Grading</i>	☐	<i>Finish Grading</i>	☐	<i>Maintenance of SWM Facilities</i>	☐
<i>Rough Grading</i>	☐	<i>Final Stabilization</i>	☐	<i>Other:</i>	☐

#	State Regulation ¹			Description and Location of Condition Observed ² , Recommended Corrective Actions, and Other Comments
		Initial	Repeat	

1 - Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), the General Permit for Discharges of Stormwater from Construction Activities (9VAC25-880), or the Virginia Stormwater Management Program Regulations (9VAC25-870).

2 – Note whether or not off-site impacts resulting from the condition observed was evident during the inspection.

Recommended Corrective Action Deadline: N/A

Targeted Reinspection Date: ±2 weeks

The recommended corrective action deadline date applies to all conditions noted on this report unless otherwise noted. If listed condition(s) currently constitute non-compliance and/or corrective actions are not completed by the deadline, other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Certified Inspector Name/Number: Stephen Metz

Signature: _____  _____ Date: 2024-10-30

AS&S HOLDER GENERAL PERMIT SITE INSPECTION CHECKLIST

(All section references below are to the Construction GP 9VAC25-870-70 effective 7/1/19)

Project Name: Integrated Science Center-Phase 3 Permit Number: 22-105S
 Project Address: 1 Avenue of the Arts County/City: Newport News
 Project Operator: Christopher Newport University Operator Telephone: 757.594.7867
 Operator Address: 1 Avenue of the Arts County/City: Newport News ZIP: 23606
 Inspector Name: Steve Vargo Inspection Date: 2024-12-19 Time: 10:00 am
 Date of Last Measurable Storm Event: 2024-12-12 Amount (inches) 1.24 Storm Duration (hours) No Data

		Yes	No	N/A
1	Copy of notice of coverage letter posted near main entrance: Part II(C)	X		
2	Information for public access to electronic format or had copy of SWPPP posted near main entrance:	X		
3	Copy of complete SWPPP available onsite: Part II(A)	X		
3a	Signed copy of registration statement: Part II(A)1.a	X		
3b	Copy of permit: Part II(A)1.b	X		
3c	Copy of notice of coverage letter: Part II(A)1.c	X		
3d	Narrative description of the nature of construction activity: Part II(A)1.d	X		
3e	Legible site plan: Part II(A)1.e	X		
3f	Approved ESC plan or ESC plan developed in accordance with department approved annual standards and specifications: Part II(A)3	X		
3g	Approved SWM plan or SWM plan developed in accordance with department approved annual standards and specifications: Part II(A)4	X		
3h	Pollution prevention plan: Part II(A)4	X		
3i	Requirements for discharges to impaired waters, surface waters with an applicable TMDL, exceptional waters: Part II(A)5	X		
3j	Contact information for qualified personnel conducting inspections: Part II(A)6	X		
3k	SWPPP signed in accordance with Part III K: Part II(A)8	X		
4	SWPPP is being amended, modified and updated: Part (B)	X		
4a	SWPPP clearly identifies the contractor(s) that will implement and maintain each control measure identified in SWPPP: Part II(B)3	X		
4b	Record dates when major grading activities occurred: Part II(B)4.a(1)	X		
4c	SWPPP amendments, modifications, or updates signed in accordance with Part III K: Part II(B)5	X		
5	SWPPP inspections carried out: Part II(F)	X		
5a	Inspections conducted at required frequency: Part II(F)2	X		
5b	Inspection reports summarize findings of inspections including corrective actions: Part II(F)4.a-i	X		
5c	Inspection reports have date and signature of qualified personnel conducting inspections and the operator or authorized representative: Part II(F)4.j	X		
5d	Inspection reports retained as part of SWPPP: Part II(F)4	X		
6	Erosion and sediment controls implemented: Part II(A)2.c	X		
6a	Volume and velocity of stormwater runoff controlled within site to minimize erosion: Part II(A)2.c(1)	X		
6b	Stormwater discharges, including peak flow rates and total stormwater volume controlled to minimize erosion at outlets and to minimize downstream channel and stream bank erosion: Part II(A)2.c(2)			X
6c	Soil exposed during construction activity minimized: Part II(A)2.c(3)	X		
6d	Disturbance of steep slopes minimized: Part II(A)2.c(4)			X
6e	Natural buffers around surface waters provided and maintained, stormwater directed to vegetated areas to increase sediment removal, and maximizes stormwater infiltration: Part II(A)2.c(6)			X
6f	Soil compaction minimized and topsoil preserved: Part II(A)2.c(7)			X
6g	Stabilization of disturbed areas initiated immediately whenever any clearing, grading, or excavating, or other land-disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for more than 14 days: Part II(A)2.c(8)	X		

6h	Outlet structures utilized that withdraw stormwater from the surface when discharging from sediment basins or sediment traps: Part II(A)2.c(9)			X
7	Pollution prevention plan implemented: Part II(A)4	X		
7a	Prevent and respond to leaks, spills and other releases including (i) procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases; and (ii) procedures for reporting leaks, spills, and other releases: Part II(A)4.e(1)	X		
7b	Prevent discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities (e.g. providing secondary containment such as spill berms, decks, spill containment pallets, providing cover where appropriate, and having spill kits readily available: Part II(A)4.e(2)	X		
7c	Prevent discharge of soaps, solvents, detergents, and wash water from construction materials, including clean-up of stucco, paint, form release oils, and curing compounds: Part II(A)4.e(3)	X		
7d	Minimize discharge of pollutants from vehicle and equipment washing, wheel wash water and other types of washing: Part II(A)4.e(4)			X
7e	Direct concrete wash water into a leak proof container or leak proof settling basin: Part II(A)4.e(5)	X		
7f	Minimize discharge of pollutants from storage, handling, and disposal of construction products, materials and wastes: Part II(A)4.e(6)	X		
7g	Prevent discharge of fuels, oils, and other petroleum products, hazardous or toxic wastes, and sanitary wastes: Part II(A)4.e(7)	X		
7h	Address any other discharge from the potential pollutant-generating activities not addressed above: Part II(A)4.e(8)			X
8	Appears to be impact(s) to receiving waters: Part I(B)6, Part I(D), or Part II(A)2c(2) or (5)		X	

VSMP CONSTRUCTION GP SITE INSPECTION CHECKLIST

Project Name: Integrated Science Center-Phase 3 Permit Number: 22-105S
 Project Address: 1 Avenue of the Arts County/City: Newport News
 Inspector Name: Steve Vargo Inspection Date: 2024-12-19 Time: 10:00 am

STAGE OF CONSTRUCTION

<i>Pre-Construction Conference</i>	☐	<i>Building Construction</i>	☒	<i>Construction of SWM Facilities</i>	☒
<i>Clearing & Grading</i>	☐	<i>Finish Grading</i>	☐	<i>Maintenance of SWM Facilities</i>	☐
<i>Rough Grading</i>	☒	<i>Final Stabilization</i>	☐	<i>Other:</i>	☐

#	State Regulation ¹			Description and Location of Condition Observed ² , Recommended Corrective Actions, and Other Comments
		Initial	Repeat	
1	MS-4	X		Silt fence damaged at the SE site construction entrance.

1 - Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), the General Permit for Discharges of Stormwater from Construction Activities (9VAC25-880), or the Virginia Stormwater Management Program Regulations (9VAC25-870).

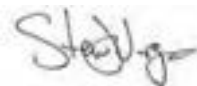
2 – Note whether or not off-site impacts resulting from the condition observed was evident during the inspection.

Recommended Corrective Action Deadline: 2025-01-10

Targeted Reinspection Date: ±2 weeks 2025-01-10

The recommended corrective action deadline date applies to all conditions noted on this report unless otherwise noted. If listed condition(s) currently constitute non-compliance and/or corrective actions are not completed by the deadline, other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Certified Inspector Name/Number: Steve Vargo DIN 1592

Signature:  Date: 2024-12-19



AS&S HOLDER GENERAL PERMIT SITE INSPECTION CHECKLIST

(All section references below are to the Construction GP 9VAC25-870-70 effective 7/1/19)

Project Name: Integrated Science Center-Phase 3 Permit Number: 22-105S
 Project Address: 1 Avenue of the Arts County/City: Newport News
 Project Operator: Christopher Newport University Operator Telephone: 757.594.7867
 Operator Address: 1 Avenue of the Arts County/City: Newport News ZIP: 23606
 Inspector Name: Steve Vargo Inspection Date: 2025-01-14 Time: 10:00 am
 Date of Last Measurable Storm Event: 2025-01-07 Amount (inches) 0.87 Storm Duration (hours) No Data

		Yes	No	N/A
1	Copy of notice of coverage letter posted near main entrance: Part II(C)	X		
2	Information for public access to electronic format or had copy of SWPPP posted near main entrance:	X		
3	Copy of complete SWPPP available onsite: Part II(A)	X		
3a	Signed copy of registration statement: Part II(A)1.a	X		
3b	Copy of permit: Part II(A)1.b	X		
3c	Copy of notice of coverage letter: Part II(A)1.c	X		
3d	Narrative description of the nature of construction activity: Part II(A)1.d	X		
3e	Legible site plan: Part II(A)1.e	X		
3f	Approved ESC plan or ESC plan developed in accordance with department approved annual standards and specifications: Part II(A)3	X		
3g	Approved SWM plan or SWM plan developed in accordance with department approved annual standards and specifications: Part II(A)4	X		
3h	Pollution prevention plan: Part II(A)4	X		
3i	Requirements for discharges to impaired waters, surface waters with an applicable TMDL, exceptional waters: Part II(A)5	X		
3j	Contact information for qualified personnel conducting inspections: Part II(A)6	X		
3k	SWPPP signed in accordance with Part III K: Part II(A)8	X		
4	SWPPP is being amended, modified and updated: Part (B)	X		
4a	SWPPP clearly identifies the contractor(s) that will implement and maintain each control measure identified in SWPPP: Part II(B)3	X		
4b	Record dates when major grading activities occurred: Part II(B)4.a(1)	X		
4c	SWPPP amendments, modifications, or updates signed in accordance with Part III K: Part II(B)5	X		
5	SWPPP inspections carried out: Part II(F)	X		
5a	Inspections conducted at required frequency: Part II(F)2	X		
5b	Inspection reports summarize findings of inspections including corrective actions: Part II(F)4.a-i	X		
5c	Inspection reports have date and signature of qualified personnel conducting inspections and the operator or authorized representative: Part II(F)4.j	X		
5d	Inspection reports retained as part of SWPPP: Part II(F)4	X		
6	Erosion and sediment controls implemented: Part II(A)2.c	X		
6a	Volume and velocity of stormwater runoff controlled within site to minimize erosion: Part II(A)2.c(1)	X		
6b	Stormwater discharges, including peak flow rates and total stormwater volume controlled to minimize erosion at outlets and to minimize downstream channel and stream bank erosion: Part II(A)2.c(2)			X
6c	Soil exposed during construction activity minimized: Part II(A)2.c(3)	X		
6d	Disturbance of steep slopes minimized: Part II(A)2.c(4)			X
6e	Natural buffers around surface waters provided and maintained, stormwater directed to vegetated areas to increase sediment removal, and maximizes stormwater infiltration: Part II(A)2.c(6)			X
6f	Soil compaction minimized and topsoil preserved: Part II(A)2.c(7)			X
6g	Stabilization of disturbed areas initiated immediately whenever any clearing, grading, or excavating, or other land-disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for more than 14 days: Part II(A)2.c(8)	X		

6h	Outlet structures utilized that withdraw stormwater from the surface when discharging from sediment basins or sediment traps: Part II(A)2.c(9)			X
7	Pollution prevention plan implemented: Part II(A)4	X		
7a	Prevent and respond to leaks, spills and other releases including (i) procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases; and (ii) procedures for reporting leaks, spills, and other releases: Part II(A)4.e(1)	X		
7b	Prevent discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities (e.g. providing secondary containment such as spill berms, decks, spill containment pallets, providing cover where appropriate, and having spill kits readily available: Part II(A)4.e(2)	X		
7c	Prevent discharge of soaps, solvents, detergents, and wash water from construction materials, including clean-up of stucco, paint, form release oils, and curing compounds: Part II(A)4.e(3)	X		
7d	Minimize discharge of pollutants from vehicle and equipment washing, wheel wash water and other types of washing: Part II(A)4.e(4)			X
7e	Direct concrete wash water into a leak proof container or leak proof settling basin: Part II(A)4.e(5)	X		
7f	Minimize discharge of pollutants from storage, handling, and disposal of construction products, materials and wastes: Part II(A)4.e(6)	X		
7g	Prevent discharge of fuels, oils, and other petroleum products, hazardous or toxic wastes, and sanitary wastes: Part II(A)4.e(7)	X		
7h	Address any other discharge from the potential pollutant-generating activities not addressed above: Part II(A)4.e(8)			X
8	Appears to be impact(s) to receiving waters: Part I(B)6, Part I(D), or Part II(A)2c(2) or (5)		X	

VSMP CONSTRUCTION GP SITE INSPECTION CHECKLIST

Project Name: Integrated Science Center-Phase 3 Permit Number: 22-105S
 Project Address: 1 Avenue of the Arts County/City: Newport News
 Inspector Name: Steve Vargo Inspection Date: 2025-01-14 Time: 10:00 am

STAGE OF CONSTRUCTION

<i>Pre-Construction Conference</i>	☐	<i>Building Construction</i>	☒	<i>Construction of SWM Facilities</i>	☒
<i>Clearing & Grading</i>	☐	<i>Finish Grading</i>	☐	<i>Maintenance of SWM Facilities</i>	☐
<i>Rough Grading</i>	☒	<i>Final Stabilization</i>	☐	<i>Other:</i>	☐

#	State Regulation ¹			Description and Location of Condition Observed ² , Recommended Corrective Actions, and Other Comments
		Initial	Repeat	
				Previous reported item has been repaired.

1 - Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), the General Permit for Discharges of Stormwater from Construction Activities (9VAC25-880), or the Virginia Stormwater Management Program Regulations (9VAC25-870).

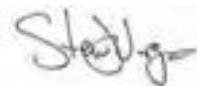
2 – Note whether or not off-site impacts resulting from the condition observed was evident during the inspection.

Recommended Corrective Action Deadline: N/A

Targeted Reinspection Date: ±2 weeks 2025-02-10

The recommended corrective action deadline date applies to all conditions noted on this report unless otherwise noted. If listed condition(s) currently constitute non-compliance and/or corrective actions are not completed by the deadline, other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Certified Inspector Name/Number: Steve Vargo DIN 1592

Signature:  Date: 2025-01-15

AS&S HOLDER GENERAL PERMIT SITE INSPECTION CHECKLIST

(All section references below are to the Construction GP 9VAC25-870-70 effective 7/1/19)

Project Name: Integrated Science Center-Phase 3 Permit Number: 22-105S
 Project Address: 1 Avenue of the Arts County/City: Newport News
 Project Operator: Christopher Newport University Operator Telephone: 757.594.7867
 Operator Address: 1 Avenue of the Arts County/City: Newport News ZIP: 23606
 Inspector Name: Steve Vargo Inspection Date: 2025-02-07 Time: 10:40 am
 Date of Last Measurable Storm Event: 2025-02-06 Amount (inches) 0.87 Storm Duration (hours) No Data

		Yes	No	N/A
1	Copy of notice of coverage letter posted near main entrance: Part II(C)	X		
2	Information for public access to electronic format or had copy of SWPPP posted near main entrance:	X		
3	Copy of complete SWPPP available onsite: Part II(A)	X		
3a	Signed copy of registration statement: Part II(A)1.a	X		
3b	Copy of permit: Part II(A)1.b	X		
3c	Copy of notice of coverage letter: Part II(A)1.c	X		
3d	Narrative description of the nature of construction activity: Part II(A)1.d	X		
3e	Legible site plan: Part II(A)1.e	X		
3f	Approved ESC plan or ESC plan developed in accordance with department approved annual standards and specifications: Part II(A)3	X		
3g	Approved SWM plan or SWM plan developed in accordance with department approved annual standards and specifications: Part II(A)4	X		
3h	Pollution prevention plan: Part II(A)4	X		
3i	Requirements for discharges to impaired waters, surface waters with an applicable TMDL, exceptional waters: Part II(A)5	X		
3j	Contact information for qualified personnel conducting inspections: Part II(A)6	X		
3k	SWPPP signed in accordance with Part III K: Part II(A)8	X		
4	SWPPP is being amended, modified and updated: Part (B)	X		
4a	SWPPP clearly identifies the contractor(s) that will implement and maintain each control measure identified in SWPPP: Part II(B)3	X		
4b	Record dates when major grading activities occurred: Part II(B)4.a(1)	X		
4c	SWPPP amendments, modifications, or updates signed in accordance with Part III K: Part II(B)5	X		
5	SWPPP inspections carried out: Part II(F)	X		
5a	Inspections conducted at required frequency: Part II(F)2	X		
5b	Inspection reports summarize findings of inspections including corrective actions: Part II(F)4.a-i	X		
5c	Inspection reports have date and signature of qualified personnel conducting inspections and the operator or authorized representative: Part II(F)4.j	X		
5d	Inspection reports retained as part of SWPPP: Part II(F)4	X		
6	Erosion and sediment controls implemented: Part II(A)2.c	X		
6a	Volume and velocity of stormwater runoff controlled within site to minimize erosion: Part II(A)2.c(1)	X		
6b	Stormwater discharges, including peak flow rates and total stormwater volume controlled to minimize erosion at outlets and to minimize downstream channel and stream bank erosion: Part II(A)2.c(2)			X
6c	Soil exposed during construction activity minimized: Part II(A)2.c(3)	X		
6d	Disturbance of steep slopes minimized: Part II(A)2.c(4)			X
6e	Natural buffers around surface waters provided and maintained, stormwater directed to vegetated areas to increase sediment removal, and maximizes stormwater infiltration: Part II(A)2.c(6)			X
6f	Soil compaction minimized and topsoil preserved: Part II(A)2.c(7)			X
6g	Stabilization of disturbed areas initiated immediately whenever any clearing, grading, or excavating, or other land-disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for more than 14 days: Part II(A)2.c(8)	X		

6h	Outlet structures utilized that withdraw stormwater from the surface when discharging from sediment basins or sediment traps: Part II(A)2.c(9)			X
7	Pollution prevention plan implemented: Part II(A)4	X		
7a	Prevent and respond to leaks, spills and other releases including (i) procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases; and (ii) procedures for reporting leaks, spills, and other releases: Part II(A)4.e(1)	X		
7b	Prevent discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities (e.g. providing secondary containment such as spill berms, decks, spill containment pallets, providing cover where appropriate, and having spill kits readily available: Part II(A)4.e(2)	X		
7c	Prevent discharge of soaps, solvents, detergents, and wash water from construction materials, including clean-up of stucco, paint, form release oils, and curing compounds: Part II(A)4.e(3)	X		
7d	Minimize discharge of pollutants from vehicle and equipment washing, wheel wash water and other types of washing: Part II(A)4.e(4)			X
7e	Direct concrete wash water into a leak proof container or leak proof settling basin: Part II(A)4.e(5)	X		
7f	Minimize discharge of pollutants from storage, handling, and disposal of construction products, materials and wastes: Part II(A)4.e(6)		X	
7g	Prevent discharge of fuels, oils, and other petroleum products, hazardous or toxic wastes, and sanitary wastes: Part II(A)4.e(7)	X		
7h	Address any other discharge from the potential pollutant-generating activities not addressed above: Part II(A)4.e(8)			X
8	Appears to be impact(s) to receiving waters: Part I(B)6, Part I(D), or Part II(A)2c(2) or (5)		X	

VSMP CONSTRUCTION GP SITE INSPECTION CHECKLIST

Project Name: Integrated Science Center-Phase 3 Permit Number: 22-105S
 Project Address: 1 Avenue of the Arts County/City: Newport News
 Inspector Name: Steve Vargo Inspection Date: 2025-02-07 Time: 10:40 am

STAGE OF CONSTRUCTION

<i>Pre-Construction Conference</i>	☐	<i>Building Construction</i>	☒	<i>Construction of SWM Facilities</i>	☒
<i>Clearing & Grading</i>	☐	<i>Finish Grading</i>	☐	<i>Maintenance of SWM Facilities</i>	☐
<i>Rough Grading</i>	☒	<i>Final Stabilization</i>	☐	<i>Other:</i>	☐

#	State Regulation ¹			Description and Location of Condition Observed ² , Recommended Corrective Actions, and Other Comments
		Initial	Repeat	
1	CGP Part 2.3.3	X		Trash waste observed within the drainage channel adjacent to the CE.
2	CGP Part 2.2.10	X		Several IP frames were observed damaged around the site. Repair to standards.

1 - Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), the General Permit for Discharges of Stormwater from Construction Activities (9VAC25-880), or the Virginia Stormwater Management Program Regulations (9VAC25-870).

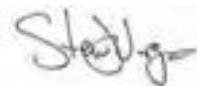
2 – Note whether or not off-site impacts resulting from the condition observed was evident during the inspection.

Recommended Corrective Action Deadline: 2025-02-18

Targeted Reinspection Date: ±2 weeks 2025-03-06

The recommended corrective action deadline date applies to all conditions noted on this report unless otherwise noted. If listed condition(s) currently constitute non-compliance and/or corrective actions are not completed by the deadline, other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Certified Inspector Name/Number: Steve Vargo DIN 1592

Signature:  Date: 2025-02-07

AS&S HOLDER GENERAL PERMIT SITE INSPECTION CHECKLIST

(All section references below are to the Construction GP 9VAC25-870-70 effective 7/1/19)

Project Name: Integrated Science Center-Phase 3 Permit Number: 22-105S
 Project Address: 1 Avenue of the Arts County/City: Newport News
 Project Operator: Christopher Newport University Operator Telephone: 757.594.7867
 Operator Address: 1 Avenue of the Arts County/City: Newport News ZIP: 23606
 Inspector Name: Steve Vargo Inspection Date: 2025-03-06 Time: 10:15 am
 Date of Last Measurable Storm Event: 2025-03-05 Amount (inches) 0.65 Storm Duration (hours) No Data

		Yes	No	N/A
1	Copy of notice of coverage letter posted near main entrance: Part II(C)	X		
2	Information for public access to electronic format or had copy of SWPPP posted near main entrance:	X		
3	Copy of complete SWPPP available onsite: Part II(A)	X		
3a	Signed copy of registration statement: Part II(A)1.a	X		
3b	Copy of permit: Part II(A)1.b	X		
3c	Copy of notice of coverage letter: Part II(A)1.c	X		
3d	Narrative description of the nature of construction activity: Part II(A)1.d	X		
3e	Legible site plan: Part II(A)1.e	X		
3f	Approved ESC plan or ESC plan developed in accordance with department approved annual standards and specifications: Part II(A)3	X		
3g	Approved SWM plan or SWM plan developed in accordance with department approved annual standards and specifications: Part II(A)4	X		
3h	Pollution prevention plan: Part II(A)4	X		
3i	Requirements for discharges to impaired waters, surface waters with an applicable TMDL, exceptional waters: Part II(A)5	X		
3j	Contact information for qualified personnel conducting inspections: Part II(A)6	X		
3k	SWPPP signed in accordance with Part III K: Part II(A)8	X		
4	SWPPP is being amended, modified and updated: Part (B)	X		
4a	SWPPP clearly identifies the contractor(s) that will implement and maintain each control measure identified in SWPPP: Part II(B)3	X		
4b	Record dates when major grading activities occurred: Part II(B)4.a(1)	X		
4c	SWPPP amendments, modifications, or updates signed in accordance with Part III K: Part II(B)5	X		
5	SWPPP inspections carried out: Part II(F)	X		
5a	Inspections conducted at required frequency: Part II(F)2	X		
5b	Inspection reports summarize findings of inspections including corrective actions: Part II(F)4.a-i	X		
5c	Inspection reports have date and signature of qualified personnel conducting inspections and the operator or authorized representative: Part II(F)4.j	X		
5d	Inspection reports retained as part of SWPPP: Part II(F)4	X		
6	Erosion and sediment controls implemented: Part II(A)2.c	X		
6a	Volume and velocity of stormwater runoff controlled within site to minimize erosion: Part II(A)2.c(1)	X		
6b	Stormwater discharges, including peak flow rates and total stormwater volume controlled to minimize erosion at outlets and to minimize downstream channel and stream bank erosion: Part II(A)2.c(2)			X
6c	Soil exposed during construction activity minimized: Part II(A)2.c(3)	X		
6d	Disturbance of steep slopes minimized: Part II(A)2.c(4)			X
6e	Natural buffers around surface waters provided and maintained, stormwater directed to vegetated areas to increase sediment removal, and maximizes stormwater infiltration: Part II(A)2.c(6)			X
6f	Soil compaction minimized and topsoil preserved: Part II(A)2.c(7)			X
6g	Stabilization of disturbed areas initiated immediately whenever any clearing, grading, or excavating, or other land-disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for more than 14 days: Part II(A)2.c(8)	X		

6h	Outlet structures utilized that withdraw stormwater from the surface when discharging from sediment basins or sediment traps: Part II(A)2.c(9)			X
7	Pollution prevention plan implemented: Part II(A)4	X		
7a	Prevent and respond to leaks, spills and other releases including (i) procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases; and (ii) procedures for reporting leaks, spills, and other releases: Part II(A)4.e(1)	X		
7b	Prevent discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities (e.g. providing secondary containment such as spill berms, decks, spill containment pallets, providing cover where appropriate, and having spill kits readily available: Part II(A)4.e(2)	X		
7c	Prevent discharge of soaps, solvents, detergents, and wash water from construction materials, including clean-up of stucco, paint, form release oils, and curing compounds: Part II(A)4.e(3)	X		
7d	Minimize discharge of pollutants from vehicle and equipment washing, wheel wash water and other types of washing: Part II(A)4.e(4)			X
7e	Direct concrete wash water into a leak proof container or leak proof settling basin: Part II(A)4.e(5)	X		
7f	Minimize discharge of pollutants from storage, handling, and disposal of construction products, materials and wastes: Part II(A)4.e(6)		X	
7g	Prevent discharge of fuels, oils, and other petroleum products, hazardous or toxic wastes, and sanitary wastes: Part II(A)4.e(7)	X		
7h	Address any other discharge from the potential pollutant-generating activities not addressed above: Part II(A)4.e(8)			X
8	Appears to be impact(s) to receiving waters: Part I(B)6, Part I(D), or Part II(A)2c(2) or (5)		X	

VSMP CONSTRUCTION GP SITE INSPECTION CHECKLIST

Project Name: Integrated Science Center-Phase 3 Permit Number: 22-105S
 Project Address: 1 Avenue of the Arts County/City: Newport News
 Inspector Name: Steve Vargo Inspection Date: 2025-03-06 Time: 10:15 am

STAGE OF CONSTRUCTION

<i>Pre-Construction Conference</i>	☐	<i>Building Construction</i>	☒	<i>Construction of SWM Facilities</i>	☒
<i>Clearing & Grading</i>	☐	<i>Finish Grading</i>	☐	<i>Maintenance of SWM Facilities</i>	☐
<i>Rough Grading</i>	☒	<i>Final Stabilization</i>	☐	<i>Other:</i>	☐

#	State Regulation ¹			Description and Location of Condition Observed ² , Recommended Corrective Actions, and Other Comments
		Initial	Repeat	
1	CGP Part 2.2.10	X		Several IP frames were observed damaged around the site due to minimal site traffic clearance and relative location of these DIs. Repair to standards if the frames are to remain in place. Note that filter fabric is also installed within the DI to prevent sediment from entering the drainage system.

1 - Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), the General Permit for Discharges of Stormwater from Construction Activities (9VAC25-880), or the Virginia Stormwater Management Program Regulations (9VAC25-870).

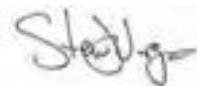
2 – Note whether or not off-site impacts resulting from the condition observed was evident during the inspection.

Recommended Corrective Action Deadline: 2025-03-17

Targeted Reinspection Date: ±2 weeks 2025-04-08

The recommended corrective action deadline date applies to all conditions noted on this report unless otherwise noted. If listed condition(s) currently constitute non-compliance and/or corrective actions are not completed by the deadline, other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Certified Inspector Name/Number: Steve Vargo DIN 1592

Signature:  Date: 2025-03-06

AS&S HOLDER GENERAL PERMIT SITE INSPECTION CHECKLIST

(All section references below are to the Construction GP 9VAC25-870-70 effective 7/1/19)

Project Name: Integrated Science Center-Phase 3 Permit Number: 22-105S
 Project Address: 1 Avenue of the Arts County/City: Newport News
 Project Operator: Christopher Newport University Operator Telephone: 757.594.7867
 Operator Address: 1 Avenue of the Arts County/City: Newport News ZIP: 23606
 Inspector Name: Steve Vargo Inspection Date: 2025-04-03 Time: 2:00 pm
 Date of Last Measurable Storm Event: 2025-04-01 Amount (inches) 0.31 Storm Duration (hours) No Data

		Yes	No	N/A
1	Copy of notice of coverage letter posted near main entrance: Part II(C)	X		
2	Information for public access to electronic format or had copy of SWPPP posted near main entrance:	X		
3	Copy of complete SWPPP available onsite: Part II(A)	X		
3a	Signed copy of registration statement: Part II(A)1.a	X		
3b	Copy of permit: Part II(A)1.b	X		
3c	Copy of notice of coverage letter: Part II(A)1.c	X		
3d	Narrative description of the nature of construction activity: Part II(A)1.d	X		
3e	Legible site plan: Part II(A)1.e	X		
3f	Approved ESC plan or ESC plan developed in accordance with department approved annual standards and specifications: Part II(A)3	X		
3g	Approved SWM plan or SWM plan developed in accordance with department approved annual standards and specifications: Part II(A)4	X		
3h	Pollution prevention plan: Part II(A)4	X		
3i	Requirements for discharges to impaired waters, surface waters with an applicable TMDL, exceptional waters: Part II(A)5	X		
3j	Contact information for qualified personnel conducting inspections: Part II(A)6	X		
3k	SWPPP signed in accordance with Part III K: Part II(A)8	X		
4	SWPPP is being amended, modified and updated: Part (B)	X		
4a	SWPPP clearly identifies the contractor(s) that will implement and maintain each control measure identified in SWPPP: Part II(B)3	X		
4b	Record dates when major grading activities occurred: Part II(B)4.a(1)	X		
4c	SWPPP amendments, modifications, or updates signed in accordance with Part III K: Part II(B)5	X		
5	SWPPP inspections carried out: Part II(F)	X		
5a	Inspections conducted at required frequency: Part II(F)2	X		
5b	Inspection reports summarize findings of inspections including corrective actions: Part II(F)4.a-i	X		
5c	Inspection reports have date and signature of qualified personnel conducting inspections and the operator or authorized representative: Part II(F)4.j	X		
5d	Inspection reports retained as part of SWPPP: Part II(F)4	X		
6	Erosion and sediment controls implemented: Part II(A)2.c	X		
6a	Volume and velocity of stormwater runoff controlled within site to minimize erosion: Part II(A)2.c(1)	X		
6b	Stormwater discharges, including peak flow rates and total stormwater volume controlled to minimize erosion at outlets and to minimize downstream channel and stream bank erosion: Part II(A)2.c(2)			X
6c	Soil exposed during construction activity minimized: Part II(A)2.c(3)	X		
6d	Disturbance of steep slopes minimized: Part II(A)2.c(4)			X
6e	Natural buffers around surface waters provided and maintained, stormwater directed to vegetated areas to increase sediment removal, and maximizes stormwater infiltration: Part II(A)2.c(6)			X
6f	Soil compaction minimized and topsoil preserved: Part II(A)2.c(7)			X
6g	Stabilization of disturbed areas initiated immediately whenever any clearing, grading, or excavating, or other land-disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for more than 14 days: Part II(A)2.c(8)	X		

6h	Outlet structures utilized that withdraw stormwater from the surface when discharging from sediment basins or sediment traps: Part II(A)2.c(9)			X
7	Pollution prevention plan implemented: Part II(A)4	X		
7a	Prevent and respond to leaks, spills and other releases including (i) procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases; and (ii) procedures for reporting leaks, spills, and other releases: Part II(A)4.e(1)	X		
7b	Prevent discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities (e.g. providing secondary containment such as spill berms, decks, spill containment pallets, providing cover where appropriate, and having spill kits readily available: Part II(A)4.e(2)	X		
7c	Prevent discharge of soaps, solvents, detergents, and wash water from construction materials, including clean-up of stucco, paint, form release oils, and curing compounds: Part II(A)4.e(3)	X		
7d	Minimize discharge of pollutants from vehicle and equipment washing, wheel wash water and other types of washing: Part II(A)4.e(4)			X
7e	Direct concrete wash water into a leak proof container or leak proof settling basin: Part II(A)4.e(5)	X		
7f	Minimize discharge of pollutants from storage, handling, and disposal of construction products, materials and wastes: Part II(A)4.e(6)		X	
7g	Prevent discharge of fuels, oils, and other petroleum products, hazardous or toxic wastes, and sanitary wastes: Part II(A)4.e(7)	X		
7h	Address any other discharge from the potential pollutant-generating activities not addressed above: Part II(A)4.e(8)			X
8	Appears to be impact(s) to receiving waters: Part I(B)6, Part I(D), or Part II(A)2c(2) or (5)		X	

VSMP CONSTRUCTION GP SITE INSPECTION CHECKLIST

Project Name: Integrated Science Center-Phase 3 Permit Number: 22-105S
 Project Address: 1 Avenue of the Arts County/City: Newport News
 Inspector Name: Steve Vargo Inspection Date: 2025-04-03 Time: 2:00 pm

STAGE OF CONSTRUCTION

<i>Pre-Construction Conference</i>	☐	<i>Building Construction</i>	☒	<i>Construction of SWM Facilities</i>	☒
<i>Clearing & Grading</i>	☐	<i>Finish Grading</i>	☐	<i>Maintenance of SWM Facilities</i>	☐
<i>Rough Grading</i>	☒	<i>Final Stabilization</i>	☐	<i>Other:</i>	☐

#	State Regulation ¹			Description and Location of Condition Observed ² , Recommended Corrective Actions, and Other Comments
		Initial	Repeat	
1	MS-4	X		Install perimeter filter socks at areas located during the site inspection. Repair existing identified perimeter filter socks that have been damaged by equipment/material storage.

1 - Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), the General Permit for Discharges of Stormwater from Construction Activities (9VAC25-880), or the Virginia Stormwater Management Program Regulations (9VAC25-870).

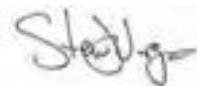
2 – Note whether or not off-site impacts resulting from the condition observed was evident during the inspection.

Recommended Corrective Action Deadline: 2025-04-11

Targeted Reinspection Date: ±2 weeks 2025-05-05

The recommended corrective action deadline date applies to all conditions noted on this report unless otherwise noted. If listed condition(s) currently constitute non-compliance and/or corrective actions are not completed by the deadline, other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Certified Inspector Name/Number: Steve Vargo DIN 1592

Signature:  Date: 2025-04-07

AS&S HOLDER GENERAL PERMIT SITE INSPECTION CHECKLIST

(All section references below are to the Construction GP 9VAC25-870-70 effective 7/1/19)

Project Name: Integrated Science Center-Phase 3 Permit Number: 22-105S
 Project Address: 1 Avenue of the Arts County/City: Newport News
 Project Operator: Christopher Newport University Operator Telephone: 757.594.7867
 Operator Address: 1 Avenue of the Arts County/City: Newport News ZIP: 23606
 Inspector Name: Steve Vargo Inspection Date: 2025-05-22 Time: 11:30 am
 Date of Last Measurable Storm Event: 2025-05-21 Amount (inches) 0.86 Storm Duration (hours) No Data

		Yes	No	N/A
1	Copy of notice of coverage letter posted near main entrance: Part II(C)	X		
2	Information for public access to electronic format or had copy of SWPPP posted near main entrance:	X		
3	Copy of complete SWPPP available onsite: Part II(A)	X		
3a	Signed copy of registration statement: Part II(A)1.a	X		
3b	Copy of permit: Part II(A)1.b	X		
3c	Copy of notice of coverage letter: Part II(A)1.c	X		
3d	Narrative description of the nature of construction activity: Part II(A)1.d	X		
3e	Legible site plan: Part II(A)1.e	X		
3f	Approved ESC plan or ESC plan developed in accordance with department approved annual standards and specifications: Part II(A)3	X		
3g	Approved SWM plan or SWM plan developed in accordance with department approved annual standards and specifications: Part II(A)4	X		
3h	Pollution prevention plan: Part II(A)4	X		
3i	Requirements for discharges to impaired waters, surface waters with an applicable TMDL, exceptional waters: Part II(A)5	X		
3j	Contact information for qualified personnel conducting inspections: Part II(A)6	X		
3k	SWPPP signed in accordance with Part III K: Part II(A)8	X		
4	SWPPP is being amended, modified and updated: Part (B)	X		
4a	SWPPP clearly identifies the contractor(s) that will implement and maintain each control measure identified in SWPPP: Part II(B)3	X		
4b	Record dates when major grading activities occurred: Part II(B)4.a(1)	X		
4c	SWPPP amendments, modifications, or updates signed in accordance with Part III K: Part II(B)5	X		
5	SWPPP inspections carried out: Part II(F)	X		
5a	Inspections conducted at required frequency: Part II(F)2	X		
5b	Inspection reports summarize findings of inspections including corrective actions: Part II(F)4.a-i	X		
5c	Inspection reports have date and signature of qualified personnel conducting inspections and the operator or authorized representative: Part II(F)4.j	X		
5d	Inspection reports retained as part of SWPPP: Part II(F)4	X		
6	Erosion and sediment controls implemented: Part II(A)2.c	X		
6a	Volume and velocity of stormwater runoff controlled within site to minimize erosion: Part II(A)2.c(1)	X		
6b	Stormwater discharges, including peak flow rates and total stormwater volume controlled to minimize erosion at outlets and to minimize downstream channel and stream bank erosion: Part II(A)2.c(2)			X
6c	Soil exposed during construction activity minimized: Part II(A)2.c(3)	X		
6d	Disturbance of steep slopes minimized: Part II(A)2.c(4)			X
6e	Natural buffers around surface waters provided and maintained, stormwater directed to vegetated areas to increase sediment removal, and maximizes stormwater infiltration: Part II(A)2.c(6)			X
6f	Soil compaction minimized and topsoil preserved: Part II(A)2.c(7)			X
6g	Stabilization of disturbed areas initiated immediately whenever any clearing, grading, or excavating, or other land-disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for more than 14 days: Part II(A)2.c(8)	X		

6h	Outlet structures utilized that withdraw stormwater from the surface when discharging from sediment basins or sediment traps: Part II(A)2.c(9)			X
7	Pollution prevention plan implemented: Part II(A)4	X		
7a	Prevent and respond to leaks, spills and other releases including (i) procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases; and (ii) procedures for reporting leaks, spills, and other releases: Part II(A)4.e(1)	X		
7b	Prevent discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities (e.g. providing secondary containment such as spill berms, decks, spill containment pallets, providing cover where appropriate, and having spill kits readily available: Part II(A)4.e(2)	X		
7c	Prevent discharge of soaps, solvents, detergents, and wash water from construction materials, including clean-up of stucco, paint, form release oils, and curing compounds: Part II(A)4.e(3)	X		
7d	Minimize discharge of pollutants from vehicle and equipment washing, wheel wash water and other types of washing: Part II(A)4.e(4)			X
7e	Direct concrete wash water into a leak proof container or leak proof settling basin: Part II(A)4.e(5)	X		
7f	Minimize discharge of pollutants from storage, handling, and disposal of construction products, materials and wastes: Part II(A)4.e(6)		X	
7g	Prevent discharge of fuels, oils, and other petroleum products, hazardous or toxic wastes, and sanitary wastes: Part II(A)4.e(7)	X		
7h	Address any other discharge from the potential pollutant-generating activities not addressed above: Part II(A)4.e(8)			X
8	Appears to be impact(s) to receiving waters: Part I(B)6, Part I(D), or Part II(A)2c(2) or (5)		X	

VSMP CONSTRUCTION GP SITE INSPECTION CHECKLIST

Project Name: Integrated Science Center-Phase 3 Permit Number: 22-105S
 Project Address: 1 Avenue of the Arts County/City: Newport News
 Inspector Name: Steve Vargo Inspection Date: 2025-05-22 Time: 11:30 pm

STAGE OF CONSTRUCTION

<i>Pre-Construction Conference</i>	☐	<i>Building Construction</i>	☒	<i>Construction of SWM Facilities</i>	☒
<i>Clearing & Grading</i>	☐	<i>Finish Grading</i>	☐	<i>Maintenance of SWM Facilities</i>	☐
<i>Rough Grading</i>	☒	<i>Final Stabilization</i>	☐	<i>Other:</i>	☐

#	State Regulation ¹			Description and Location of Condition Observed ² , Recommended Corrective Actions, and Other Comments
		Initial	Repeat	
1	MS-4	X		Repair existing perimeter silt fence sections that have been damaged by equipment/material storage, as identified during site walk.

1 - Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), the General Permit for Discharges of Stormwater from Construction Activities (9VAC25-880), or the Virginia Stormwater Management Program Regulations (9VAC25-870).

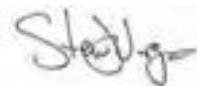
2 - Note whether or not off-site impacts resulting from the condition observed was evident during the inspection.

Recommended Corrective Action Deadline: 2025-06-05

Targeted Reinspection Date: ±2 weeks 2025-06-05

The recommended corrective action deadline date applies to all conditions noted on this report unless otherwise noted. If listed condition(s) currently constitute non-compliance and/or corrective actions are not completed by the deadline, other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Certified Inspector Name/Number: Steve Vargo DIN 1592

Signature:  Date: 2025-05-27

AS&S HOLDER GENERAL PERMIT SITE INSPECTION CHECKLIST

(All section references below are to the Construction GP 9VAC25-870-70 effective 7/1/19)

Project Name: Integrated Science Center-Phase 3 Permit Number: 22-105S
 Project Address: 1 Avenue of the Arts County/City: Newport News
 Project Operator: Christopher Newport University Operator Telephone: 757.594.7867
 Operator Address: 1 Avenue of the Arts County/City: Newport News ZIP: 23606
 Inspector Name: Steve Vargo Inspection Date: 2025-06-10 Time: 11:30 am
 Date of Last Measurable Storm Event: 2025-06-06 Amount (inches) 0.21 Storm Duration (hours) No Data

		Yes	No	N/A
1	Copy of notice of coverage letter posted near main entrance: Part II(C)	X		
2	Information for public access to electronic format or had copy of SWPPP posted near main entrance:	X		
3	Copy of complete SWPPP available onsite: Part II(A)	X		
3a	Signed copy of registration statement: Part II(A)1.a	X		
3b	Copy of permit: Part II(A)1.b	X		
3c	Copy of notice of coverage letter: Part II(A)1.c	X		
3d	Narrative description of the nature of construction activity: Part II(A)1.d	X		
3e	Legible site plan: Part II(A)1.e	X		
3f	Approved ESC plan or ESC plan developed in accordance with department approved annual standards and specifications: Part II(A)3	X		
3g	Approved SWM plan or SWM plan developed in accordance with department approved annual standards and specifications: Part II(A)4	X		
3h	Pollution prevention plan: Part II(A)4	X		
3i	Requirements for discharges to impaired waters, surface waters with an applicable TMDL, exceptional waters: Part II(A)5	X		
3j	Contact information for qualified personnel conducting inspections: Part II(A)6	X		
3k	SWPPP signed in accordance with Part III K: Part II(A)8	X		
4	SWPPP is being amended, modified and updated: Part (B)	X		
4a	SWPPP clearly identifies the contractor(s) that will implement and maintain each control measure identified in SWPPP: Part II(B)3	X		
4b	Record dates when major grading activities occurred: Part II(B)4.a(1)	X		
4c	SWPPP amendments, modifications, or updates signed in accordance with Part III K: Part II(B)5	X		
5	SWPPP inspections carried out: Part II(F)	X		
5a	Inspections conducted at required frequency: Part II(F)2	X		
5b	Inspection reports summarize findings of inspections including corrective actions: Part II(F)4.a-i	X		
5c	Inspection reports have date and signature of qualified personnel conducting inspections and the operator or authorized representative: Part II(F)4.j	X		
5d	Inspection reports retained as part of SWPPP: Part II(F)4	X		
6	Erosion and sediment controls implemented: Part II(A)2.c	X		
6a	Volume and velocity of stormwater runoff controlled within site to minimize erosion: Part II(A)2.c(1)	X		
6b	Stormwater discharges, including peak flow rates and total stormwater volume controlled to minimize erosion at outlets and to minimize downstream channel and stream bank erosion: Part II(A)2.c(2)			X
6c	Soil exposed during construction activity minimized: Part II(A)2.c(3)	X		
6d	Disturbance of steep slopes minimized: Part II(A)2.c(4)			X
6e	Natural buffers around surface waters provided and maintained, stormwater directed to vegetated areas to increase sediment removal, and maximizes stormwater infiltration: Part II(A)2.c(6)			X
6f	Soil compaction minimized and topsoil preserved: Part II(A)2.c(7)			X
6g	Stabilization of disturbed areas initiated immediately whenever any clearing, grading, or excavating, or other land-disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for more than 14 days: Part II(A)2.c(8)	X		

6h	Outlet structures utilized that withdraw stormwater from the surface when discharging from sediment basins or sediment traps: Part II(A)2.c(9)			X
7	Pollution prevention plan implemented: Part II(A)4	X		
7a	Prevent and respond to leaks, spills and other releases including (i) procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases; and (ii) procedures for reporting leaks, spills, and other releases: Part II(A)4.e(1)	X		
7b	Prevent discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities (e.g. providing secondary containment such as spill berms, decks, spill containment pallets, providing cover where appropriate, and having spill kits readily available: Part II(A)4.e(2)	X		
7c	Prevent discharge of soaps, solvents, detergents, and wash water from construction materials, including clean-up of stucco, paint, form release oils, and curing compounds: Part II(A)4.e(3)	X		
7d	Minimize discharge of pollutants from vehicle and equipment washing, wheel wash water and other types of washing: Part II(A)4.e(4)			X
7e	Direct concrete wash water into a leak proof container or leak proof settling basin: Part II(A)4.e(5)	X		
7f	Minimize discharge of pollutants from storage, handling, and disposal of construction products, materials and wastes: Part II(A)4.e(6)	X		
7g	Prevent discharge of fuels, oils, and other petroleum products, hazardous or toxic wastes, and sanitary wastes: Part II(A)4.e(7)	X		
7h	Address any other discharge from the potential pollutant-generating activities not addressed above: Part II(A)4.e(8)			X
8	Appears to be impact(s) to receiving waters: Part I(B)6, Part I(D), or Part II(A)2c(2) or (5)		X	

VSMP CONSTRUCTION GP SITE INSPECTION CHECKLIST

Project Name: Integrated Science Center-Phase 3 Permit Number: 22-105S
 Project Address: 1 Avenue of the Arts County/City: Newport News
 Inspector Name: Steve Vargo Inspection Date: 2025-06-10 Time: 11:30 pm

STAGE OF CONSTRUCTION

<i>Pre-Construction Conference</i>	☐	<i>Building Construction</i>	☒	<i>Construction of SWM Facilities</i>	☒
<i>Clearing & Grading</i>	☐	<i>Finish Grading</i>	☐	<i>Maintenance of SWM Facilities</i>	☐
<i>Rough Grading</i>	☒	<i>Final Stabilization</i>	☐	<i>Other:</i>	☐

#	State Regulation ¹			Description and Location of Condition Observed ² , Recommended Corrective Actions, and Other Comments
		Initial	Repeat	
				All controls were in working condition. No corrective actions required.

1 - Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), the General Permit for Discharges of Stormwater from Construction Activities (9VAC25-880), or the Virginia Stormwater Management Program Regulations (9VAC25-870).

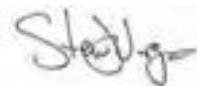
2 – Note whether or not off-site impacts resulting from the condition observed was evident during the inspection.

Recommended Corrective Action Deadline: N/A

Targeted Reinspection Date: ±2 weeks 2025-07-22

The recommended corrective action deadline date applies to all conditions noted on this report unless otherwise noted. If listed condition(s) currently constitute non-compliance and/or corrective actions are not completed by the deadline, other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Certified Inspector Name/Number: Steve Vargo DIN 1592

Signature:  Date: 2025-06-11



Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

www.deq.virginia.gov

Travis A. Voyles
Secretary of Natural and Historic Resources

Michael S. Rolband, PE, PWD, PWS Emeritus
Director

November 26, 2024

Mr. Dean Whitehead
Director of Grounds
Christopher Newport University
437 University Place
Newport News, VA 23606

Re: Standards and Specifications (S&S) Agreement for Christopher Newport University (CNU)
S&S Agreement No. SS005

Transmitted electronically: dean.whitehead@cnu.edu

Dear Mr. Whitehead,

The Virginia Department of Environmental Quality (DEQ) has reviewed the Standards and Specifications (S&S) Agreement for Erosion and Sediment Control (ESC) and Stormwater Management (SWM) for CNU received by the DEQ Office of Stormwater Management on October 1, 2024. The S&S Agreement is deemed approved for ESC and SWM pursuant to the Virginia Erosion and Stormwater Management Act (§ 62.1-44.15:24 et seq.) and associated regulations (9VAC25-875-10 et seq.).

Approval of Standards and Specifications by DEQ does not relieve the owner or operator of the duty to comply with other applicable local, state or federal ordinances or regulations. Additionally, approval of this S&S is set to expire five (5) years from the date of this document on November 26, 2029 unless otherwise specified by DEQ or where there are changes requiring DEQ review and approval.

Please note that the approved S&S for ESC and SWM are subject to the following requirements:

1. Variance, waiver, and exception requests must be submitted to DEQ separately from the October 1, 2024 S&S submission. DEQ may require project-specific plans associated with requests to be submitted for review and approval.
2. Electronic notification must be sent to DEQ at least two weeks prior to the initiation of any land-disturbing activities subject to approved S&S. Notifications shall be submitted via email to: standardsandspecs@deq.virginia.gov.
 - 1) Project name and any associated Construction General Permit number;
 - 2) Project location (including nearest intersection, latitude and longitude, or access point);
 - 3) On-site project manager name and contact information;
 - 4) Responsible Land Disturber (RLD) name and contact information;
 - 5) Project description;
 - 6) Acreage of disturbance for the project;
 - 7) Anticipated project start and finish dates; and
 - 8) Any deviations/variances/exceptions/waivers associated with the project.

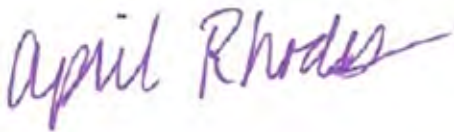
3. In addition to the two weeks prior land disturbance notification described above, a semiannual linear project tracking report of all active projects, including acreage, initiated under this S&S agreement shall be submitted via email to standardsandspecs@deq.virginia.gov by January 15th and July 15th of each year through the duration of this approval, including ongoing, previously reported projects.
4. ESC and SWM plans must be reviewed by DEQ-Certified Plan Reviewers. CNU, as the S&S holder, retains the authority to approve plans and must do so in writing. Should CNU, as an S&S holder, contract with a third-party to fulfill the plan review function, the certified third-party Plan Reviewer may recommend approval of the plan, but final approval must come from CNU, as the S&S holder.

To ensure compliance with approved S&S for ESC and SWM, and the Virginia Erosion and Stormwater Management Act and attendant regulation, DEQ staff will conduct random site inspections, respond to complaints, and provide on-site technical assistance with specific ESC and SWM measures and plan implementation.

As provided by Rule 2A:2 of the Rules of the Supreme Court of Virginia, you have thirty (30) days from the date of receipt within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Virginia Department of Environmental Quality.

To ensure an efficient exchange and response to inquiries, DEQ Central Office is your primary point of contact. Central Office staff will coordinate with our Regional Office staff as appropriate. Please contact Tony Angueira at (804)-584-6265 or antony.angueira@virginia.deq.gov if you have any questions about this letter.

Sincerely,



April Rhodes
Program Manager, Office of Stormwater Management
Virginia Department of Environmental Quality
1111 East Main Street, Suite 1400
Richmond, Virginia 23219
(804) 698-4000

Cc: DEQ OSWM

Appendix E: Minimum Control Measure 5 (MCM 5) Supplemental Information

9-C.16.0. EXTENDED DETENTION PONDS: O&M CHECKLISTInspection Date 06/04/2025Project BMP #2

Site Plan/Permit Number _____

Location James River Hall

Date BMP Placed in Service _____

Date of Last Inspection 6/03/2024Inspector J. Slagle, M. McGrawOwner/Owner's Representative Christopher Newport UniversityAs-Built Plans available: Y / N

Facility Type: Level 1 _____ Level 2 _____

Pond characteristics and functions
(check all that apply)

- ☒ Water quality treatment
☐ Channel protection
☐ Ties into groundwater

Type of Pre-Treatment Facility:

- ☐ Sediment forebay (above ground)
☐ Vegetated buffer area
☐ Grass filter strip
☒ Grass channel
☐ Other: _____

Hydraulic Configuration:

- ☒ On-line facility
☐ Off-line facility

Ideally, Extended Detention Ponds should be inspected annually. ED Ponds are prone to a high clogging risk at the ED low-flow orifice. Ideally, the orifice should be inspected at least twice a year after initial construction. The constantly changing water levels in ED Ponds make it difficult to mow or manage vegetative growth. The bottom of ED Ponds often become soggy, and water-loving trees such as willows may invade and will need to be managed. Periodic mowing of the stormwater buffer is only required along maintenance rights-of-way and the embankment. The remaining buffer may be managed as a meadow (mowing every other year) or forest. Frequent removal of sediment from the forebay (every 5-7 years, or when 50% of the forebay capacity is filled) is essential to maintain the function and performance of the ED Pond. Sediments excavated from ED Ponds are usually not considered toxic or hazardous, so they can be safely disposed of either by land application or land filling.

Element of BMP	Potential Problem	Problem? Y / N	Investigate? Y / N	Repaired? Y / N	How to Fix Problem	Who Will Address Problem	Comments
Contributing Drainage Area	Adequate vegetation	N			Supplement as needed.	Owner	
	There is excessive trash and debris	N			Remove immediately.	Owner or professional	
	There is evidence of erosion and/or bare or exposed soil	N			Stabilize immediately.	Owner or professional	
	There is excessive landscape waste and yard clippings	N			Remove immediately.	Owner or professional	
Pre-Treatment	There is adequate access to the pre-treatment facility	N			Establish adequate access	Professional and, perhaps, the locality	
	There is excessive trash and debris	N			Remove immediately.	Owner or professional	
	There is evidence of erosion and/or exposed soil.	N			Immediately identify and correct the cause of the erosion and stabilize the eroded or bare area.	Owner or professional	

Element of BMP	Potential Problem	Problem? Y / N	Investigate? Y / N	Repaired? Y / N	How to Fix Problem	Who Will Address Problem	Comments
Pre-Treatment (continued)	Sediment deposits are 50% or more of forebay capacity.	N/A			Dredge the sediment to restore the design capacity; sediment should be dredged from forebays at least every 5-7 years, and earlier, as needed.	Professional	
	The sediment marker is not vertical.	N			Adjust the sediment depth marker to a vertical alignment	Professional	
	There is evidence of clogging	N			Clear blockages of the riser or orifice(s) and make other adjustments needed to meet the approved design specifications	Professional	
	There is dead vegetation	N			Revegetate, as needed	Owner or professional	
Inlet	The inlet provides a stable conveyance into the pond	N			Stabilize immediately, as needed, and clear blockages.	Owner or professional	
	There is excessive trash, debris, or sediment.	Y			Remove immediately	Owner or professional	Sediment accumulation obstructing inlets
	There is evidence of erosion/undercutting at or around the inlet	N			Repair erosion damage and restabilize	Owner or professional	
	There is cracking, bulging, erosion or sloughing of the forebay dam.	N			Repair and restabilize immediately.	Professional	
	There is woody growth on the forebay dam.	N			Remove within 2 weeks of discovery.	Professional	
	There is evidence of nuisance animals.	N			Animal burrows must be backfilled and compacted. Burrowing animals should be humanely removed from the area.	Professional	
	There is more than 1 inch of settlement.	N			Add fill material and compact the soil to the design grade	Owner or Professional	
	The inlet alignment is incorrect.	N			Correct immediately.	Owner or Professional	
Vegetation	Plant composition is consistent with the approved plans	N			Determine if existing plant materials are consistent with the general Wet Pond design criteria, and replace inconsistent species.	Professional	
	Invasive species are present.	N			Remove invasive species immediately and replace vegetation as needed.	Professional	
	Trees planted in the buffer and on wetland islands and peninsulas need watering during the first growing season	N			Consider watering every 3 days for first month, and then weekly during first year (April – October), depending on rainfall.	Owner or professional	
	Grass around the facility is overgrown	N			Mow (at least twice a year) to a height of 4"-9" high and remove grass clippings.	Owner or professional	

Element of BMP	Potential Problem	Problem? Y / N	Investigate? Y / N	Repaired? Y / N	How to Fix Problem	Who Will Address Problem	Comments
Vegetation (continued)	Vegetation is dead or reinforcement planting is needed.	Y			Remove and replace dead or dying vegetation.	Professional	Bare areas present in basin
Permanent Pool and Side Slopes	There is excessive trash and/or debris.				Remove immediately	Owner or professional	
	There is evidence of sparse vegetative cover, erosion or slumping side slopes.	Y			Repair and stabilize physical damage, and reseed or plant additional vegetation.	Owner or professional	Bare areas present in basin
	There is evidence of nuisance animals.	N			Animal burrows must be backfilled and compacted. Burrowing animals should be humanely removed from area.	Owner or professional	
	There is significant sediment accumulation.	N			Conduct a bathymetric study to determine the impact to design volumes, and dredge if necessary.	Professional	
Riser/Principle Spillway and Low-Flow Orifice(s)	There is adequate access to the riser for maintenance.	N			Establish adequate access	Professional and, perhaps, the locality	
	Pieces of the riser are deteriorating, misaligned, broken or missing.	N			Repair immediately.	Professional	
	Adjustable control valves are accessible and operational.	N/A			Repair, as needed.	Professional	
	Reverse-slope pipes and flashboard risers are in good condition.	N/A			Repair, as needed.	Professional	
	Seepage into conduit	N			Seal conduit	Professional	
	There is evidence of clogging	N			Clear blockages of the riser or orifice(s) and make other adjustments needed to meet the approved design specs.	Professional	
	There is excessive trash, debris, or other obstructions in the trash rack.	N			Remove immediately.	Owner or professional	
Dam/ Embankment and Abutments N/A	There is sparse veg. cover, settlement, cracking, bulging, misalignment, erosion rills deeper than 2 inches, or sloughing.	N/A			Repair and restabilize immediately, especially after major storms.	Professional	
	There are soft spots, seepage, boggy areas or sinkholes.	N/A			Reinforce, fill and stabilize immediately.		
	There is evidence of nuisance animals.	N/A			Animal burrows must be backfilled and compacted. Burrowing animals should be humanely removed from the area.		
	There is woody vegetation on the embankment.	N/A			Removal of woody species near or on the embankment and maintenance access areas should be done when discovered, but at least every 2 years.		

Element of BMP	Potential Problem	Problem? Y / N	Investigate? Y / N	Repaired? Y / N	How to Fix Problem	Who Will Address Problem	Comments
Overflow/Emergency Spillway	There is woody growth on the spillway.	N			Removal of woody species near or on the emergency spillway should be done when discovered, but at least every 2 years.	Owner or professional	
	There is excessive trash, debris, or other obstructions.	N			Remove immediately.	Owner or professional	
	There is evidence of erosion/backcutting	Y			Repair erosion damage and reseed	Owner or professional	Minor erosion present around outlet structure
	There are soft spots, seepage or sinkholes.	N			Reinforce, fill and stabilize immediately.	Owner or professional	
	Only one layer of stone armoring exists above the native soil.	N			Reinforce rip-rap or other armoring materials.	Professional	
Outlet	The outlet provides a stable conveyance from the pond.	N			Stabilize immediately, as needed, and clear blockages.	Owner or professional	
	There is woody growth within 5 feet of the outlet pipe barrel.	N			Prune vegetation back to leave a clear discharge area.	Owner or Professional	
	There is excessive trash, debris, or other obstructions.	N			Remove immediately.	Owner or professional	
	There are excessive sediment deposits at the outlet.	N			Remove sediment.	Professional	
	Discharge is causing undercutting, erosion or displaced rip-rap at or around the outlet.	N			Repair, reinforce or replace rip rap as needed, and restabilize.	Professional	
Overall	Access to the facility or its components is adequate.	N			Establish adequate access. Remove woody vegetation and debris that may block access. Ensure that hardware can be opened and operated.	Professional and, perhaps, the locality	
	Fences are inadequate	N			Collapsed fences must be restored to an upright position. Jagged edges and damaged fences must be repaired or replaced.	Professional	
	Water levels in one or more cells are abnormally high or low.	N			Clear blockages of the riser or orifice(s) and make other adjustments needed to meet the approved design specifications.	Professional	
	Complaints from local residents	N			Correct real problems.	Owner or professional	
	Mosquito proliferation	N			Eliminate stagnant pools and stock the basin with mosquito fish to provide natural mosquito & midge control. Treat for mosquitoes as needed. If spraying, then use mosquito larvicide, (e.g., Bacillus thurensensis or Altoside formulations) <i>only if absolutely necessary</i> .	Owner or professional	

Element of BMP	Potential Problem	Problem? Y / N	Investigate? Y / N	Repaired? Y / N	How to Fix Problem	Who Will Address Problem	Comments
Overall (continued)	Encroachment on the pond or easement by buildings or other structures	N			Inform involved property owners of BMPs status ; clearly mark the boundaries of the receiving pervious area, as needed	Owner or professional (and perhaps the locality)	
	Safety signage is not adequate.	N			Provide sufficient, legible safety signage.	Owner or professional	

9-C.10.0. BIORETENTION PRACTICES: O&M CHECKLISTInspection Date 06/04/2025Project BMP #5

Site Plan/Permit Number _____

Location Parking Lot A

Date BMP Placed in Service _____

Date of Last Inspection 6/03/2024Inspector J. Slagle, M. McGrawOwner/Owner's Representative Christopher Newport UniversityAs-Built Plans available: Y / N

Facility Type: Level 1 _____ Level 2 _____

Facility Location:

☒ Surface☐ Underground

Hydraulic Configuration:

☒ On-line facility☐ Off-line facility

Filtration Media:

☐ No filtration (e.g., dry well, permeable pavement, infiltration facility, etc.)☐ Sand☒ Bioretention Soil☐ Peat☐ Other: _____

Type of Pre-Treatment Facility:

☒ Sediment forebay (above ground)☐ Sedimentation chamber☐ Plunge pool☐ Stone diaphragm☒ Grass filter strip☐ Grass channel☐ Other: _____

Ideally, Bioretention facilities should be inspected and cleaned up annually, preferably during the Spring. During the first 6 months following construction of a bioretention facility, the site should be inspected at least twice after storm events that exceed 1/2-inch of rainfall. Watering is needed once a week during the first 2 months following installation, and then as needed during the first growing season (April-October), depending upon rainfall. If vegetation needs to be replaced, one-time spot fertilization may be needed, preferably using an organic rather than a chemical fertilizer. Each facility should have a customized routine maintenance schedule addressing issues such as the following: grass mowing, weeding, trash removal, mulch raking and maintenance, erosion repair, reinforcement plantings, tree and shrub pruning, and sediment removal.

Element of BMP	Potential Problem	Problem? Y / N	Investigated? Y / N	Repaired? Y / N	How to fix problem	Who Will Address Problem	Comments
Contributing Drainage Area	Adequate vegetation	N			Supplement as necessary	Owner or professional	
	There is excessive trash and debris	N			Remove immediately	Owner or professional	
	There is evidence of erosion and / or bare or exposed soil	N			Stabilize immediately	Owner or professional	
	There are excessive landscape waste or yard clippings	N			Remove immediately and recycle or compost	Owner or professional	
	Oil, grease or other unauthorized substances are entering the facility	N			Identify and control the source of this pollution. It may be necessary to erect fences, signs, etc	Owner or professional	

Element of BMP	Potential Problem	Problem? Y / N	Investigate? Y / N	Repair? Y / N	How to fix problem	Who Will Address Problem	Comments
Pre-Treatment	There is adequate access to the pre-treatment facility	N			Establish adequate access	Professional and, perhaps, the locality	
	Excessive trash, debris, or sediment.	Y			Remove immediately	Owner or professional	Some trash accumulation
Pre-Treatment (continued)	There is evidence of clogging (standing water, noticeable odors, water stains, algae or floating aquatic vegetation, or oil/grease)	N			Identify and eliminate the source of the problem. If necessary, remove and clean or replace the clogged material.	Professional	
	There is evidence of erosion and / or exposed soil	N			Stabilize immediately	Owner or professional	
	There is dead vegetation or exposed soil in the grass filter	Y			Restabilize and revegetate as necessary	Owner or professional	Some exposed soil
Inlets	Check for sediment build-up at curb cuts, gravel diaphragms or pavement edges that prevent flow from getting into the bed, and check for bypassing.	Y			Remove sediment and correct any other problems that block inflow.	Owner or professional	Trash and sediment accumulation
	There is excessive trash, debris, or sediment.	N			Remove immediately	Owner or professional	
	There is evidence of erosion at or around the inlet	N			Repair erosion damage and reseed or otherwise restabilize with vegetation	Owner or professional	
	Inflow is hindered by trees and/or shrubs.	N			Remove woody vegetation from points of inflow and directly above underdrains. (Trees and shrubs may be located closer to the perimeter.)	Owner or professional	
Side Slopes (Annually, after major storms)	There is evidence of rill or gully erosion or bare soil	N			Identify the source of erosion damage and prevent it from recurring. Repair erosion damage and reseed or otherwise restabilize with vegetation	Owner or professional	
	There is excess sediment accumulation	N			Remove immediately	Owner or professional	
	Side slopes support nuisance animals.	N			Animal burrows must be backfilled and compacted. Burrowing animals should be humanely removed from the area.	Professional	
Vegetation (monthly)	Plant composition is consistent with the approved plans and any stakes or wires are in good condition.	N			Determine if existing plant materials are at least consistent with general Bioretention design criteria and replace inconsistent species.	Professional	
	There should be 75-90% cover (mulch plus vegetation), and the mulch cover	N			Supplement vegetation and mulch as needed.		

Element of BMP	Potential Problem	Problem? Y / N	Investigate? Y / N	Repaired? Y / N	How to fix problem	Who Will Address Problem	Comments
	should be 2-3 inches deep.						

Element of BMP	Potential Problem	Problem? Y / N	Investigate? Y / N	Remediate? Y / N	How to fix problem	Who Will Address Problem	Comments
Vegetation (monthly) (continued)	There is evidence of hydrocarbons or other deleterious materials, resulting in unsatisfactory plant growth or mortality,	N			Replace contaminated mulch. If problem persists, test soils for hydrocarbons and other toxic substances. If excess levels are found, the soils, plants and mulch may all need to be replaced in accordance with the approved construction plans.	Professional	
	Invasive species or weeds make up at least 10% of the facility's vegetation	N			Remove invasive species and excessive weeds immediately and replace vegetation as needed.	Owner or professional	
	The grass is too high	N			Mow within a week. Grass species should be selected that have dense cover, are relatively slow growing, and require the least mowing and chemical inputs. Grass should be from 6-10 inches high.	Owner or professional	
	Vegetation is diseased, dying or dead	N			Remove and replace. Increase watering, but avoid using chemical fertilizers, unless absolutely necessary.	Professional	
	Winter-killed or salt-killed vegetation is present.	N			Replace with hardier species.	Owner or professional	
Filter Media (Annually)	The filter media is too low, too compacted, or the composition is inconsistent with design specifications	N			Raise the level, loosen and amend or replace the media, as needed, to be consistent with the state design criteria for Bioretention (85-88% sand 8-12% soil fines 3-5% organic matter in form of leaf compost). Other remediation options are described in the maintenance section of the state design criteria for Bioretention	Professional	Filter media appears to be mildly compacted
	The mulch is older than 3 years or is otherwise in poor condition	Y			The mulch must be replaced every 2-3 years	Professional	No mulch present
	There is evidence that chemicals, fertilizers, and/or oil/grease are present	N			Remove undesirable chemicals from media and facility immediately, and replace mulch or media as needed	Professional	
	There is excessive trash, debris, or sediment.	Y			Remove trash and debris immediately. Check plant health and, without damaging plants, manually remove the sediment, especially if the depth exceeds 20% of the facility's design depth.	Owner or professional	Minor sediment and trash accumulation
	There is evidence of concentrated flows, erosion or exposed soil	N			Identify the source of erosion damage and prevent it from recurring. Repair the erosion damage and reseed or otherwise restabilize with vegetation.	Professional	

Element of BMP	Potential Problem	Problem? Y / N	Investigate? Y / N	Remediate? Y / N	How to fix problem	Who Will Address Problem	Comments
Filter Media (Annually) (continued)	The filter bed is clogged and/or filled inappropriately	N			Redistribute the soil substrate and remove sediment within 2 weeks.	Professional	
	The topsoil is in poor condition (e.g., the pH level is not 6-7, the composition is inappropriate, etc.)	N			Ensure a 3-inch surface depth of topsoil consistent with the state design criteria for Bioretention (loamy sand or sandy loam texture, with less than 5% clay content, and organic matter content of at least 2%). If the pH is less than 6.5, spread limestone.	Professional	
Underdrain/ Proper Drainage	The perforated pipe is not conveying water as designed	N			Determine if the pipe is clogged with debris or if woody roots have pierced the pipe. Immediately clean out or replace the pipe, as necessary.	Professional	
	The underlying soil interface is clogged (there is evidence on the surface of soil crusting, standing water, the facility does not dewater between storms, or water ponds on the surface of basin for more than 48 hours after an event).	N			Measure the draw-down rate of the observation well for three days following a storm event in excess of 1/2 inches in depth. After three days, if there is standing water on top but not in the underdrain, this indicates a clogged soil layer. If standing water is both on the surface and in the underdrain, then the underdrain is probably clogged. This should be promptly investigated and remediated to restore proper filtration. Grading changes may be needed or underdrain repairs made. The filter media may need to be raked, excavated and cleaned or replaced to correct the problem. Holes that are not consistent with the design and allow water to flow directly through a planter to the ground must be plugged.	Professional	
Planters	The planter is unable to receive or detain stormwater prior to infiltration. Water does not drain from the reservoir within 3-4 hours of after a storm event.	N			Identify and correct sources of clogging. Topsoil and sand/peat layer may need to be amended with sand or replaced all together.	Owner or professional	
	The planter has structural deficiencies, including rot, cracks, and failure, or the planter is unable to contain the filter media or vegetation	N			Make needed repairs immediately.	Owner or professional	
Outlet/ Overflow Spillway	Outlets are obstructed or erosion and soil exposure is evident below the outlet.	N			Remove obstructions and stabilize eroded or exposed areas.	Owner or Professional	

Element of BMP	Potential Problem	Problem? Y / N	Investigate? Y / N	Repaired? Y / N	How to fix problem	Who Will Address Problem	Comments
Outlet/ Overflow Spillway (continued)	There is excessive trash, debris, or sediment at the outlet	N			Remove immediately, and keep the contributing area free of trash and debris.	Owner or professional	
	Any grates present are in good condition	N			Repair or replace as necessary	Owner or professional	
Observation Well	Is the observation well still capped?	N			Repair, as necessary.	Professional	Some wells stuck
Overall	Access to the Infiltration facility or its components is adequate	N			Establish adequate access. Remove woody vegetation and debris that may block access. Ensure that hardware can be opened and operated.	Professional and, perhaps, the locality	
	There is evidence of standing water	N			Fill in low spots and stabilize; correct flow problems causing ponding.	Owner or professional	
	Mosquito proliferation	N			Eliminate stagnant pools and establish vegetation; treat for mosquitoes as needed. If sprays are considered, then a mosquito larvicide, such as Bacillus thurendensis or Altoside formulations can be applied <i>only if absolutely necessary</i> .	Owner or professional	
	Complaints from local residents	N			Correct real problems	Owner or professional	
	Encroachment on the bioretention area or easement by buildings or other structures	N			Inform involved property owners of BMPs status ; clearly mark the boundaries of the receiving pervious area, as needed	Owner or professional (and perhaps the locality)	

9-C.10.0. BIORETENTION PRACTICES: O&M CHECKLISTInspection Date 06/04/2025Project BMP #6

Site Plan/Permit Number _____

Location Turf Field Replacement

Date BMP Placed in Service _____

Date of Last Inspection 6/03/2024Inspector J. Slagle, M. McGrawOwner/Owner's Representative Christopher Newport UniversityAs-Built Plans available: Y / N

Facility Type: Level 1 _____ Level 2 _____

Facility Location:

- ☒ Surface
☒ Underground

Hydraulic Configuration:

- ☒ On-line facility
☐ Off-line facility

Filtration Media:

- ☐ No filtration (e.g., dry well, permeable pavement, infiltration facility, etc.)
☒ Sand
☒ Bioretention Soil
☐ Peat
☐ Other: _____

Type of Pre-Treatment Facility:

- ☐ Sediment forebay (above ground)
☐ Sedimentation chamber
☐ Plunge pool
☒ Stone diaphragm
☐ Grass filter strip
☐ Grass channel
☒ Other: Inlet Protection

Ideally, Bioretention facilities should be inspected and cleaned up annually, preferably during the Spring. During the first 6 months following construction of a bioretention facility, the site should be inspected at least twice after storm events that exceed 1/2-inch of rainfall. Watering is needed once a week during the first 2 months following installation, and then as needed during the first growing season (April-October), depending upon rainfall. If vegetation needs to be replaced, one-time spot fertilization may be needed, preferably using an organic rather than a chemical fertilizer. Each facility should have a customized routine maintenance schedule addressing issues such as the following: grass mowing, weeding, trash removal, mulch raking and maintenance, erosion repair, reinforcement plantings, tree and shrub pruning, and sediment removal.

Element of BMP	Potential Problem	Problem? Y / N	Investigated? Y / N	Repaired? Y / N	How to fix problem	Who Will Address Problem	Comments
Contributing Drainage Area	Adequate vegetation	N			Supplement as necessary	Owner or professional	
	There is excessive trash and debris	N			Remove immediately	Owner or professional	
	There is evidence of erosion and / or bare or exposed soil	N			Stabilize immediately	Owner or professional	
	There are excessive landscape waste or yard clippings	N			Remove immediately and recycle or compost	Owner or professional	
	Oil, grease or other unauthorized substances are entering the facility	N			Identify and control the source of this pollution. It may be necessary to erect fences, signs, etc	Owner or professional	

Element of BMP	Potential Problem	Problem? Y / N	Investigate? Y / N	Repaired? Y / N	How to fix problem	Who Will Address Problem	Comments
Pre-Treatment	There is adequate access to the pre-treatment facility	N			Establish adequate access	Professional and, perhaps, the locality	
	Excessive trash, debris, or sediment.	N			Remove immediately	Owner or professional	
Pre-Treatment (continued)	There is evidence of clogging (standing water, noticeable odors, water stains, algae or floating aquatic vegetation, or oil/grease)	N			Identify and eliminate the source of the problem. If necessary, remove and clean or replace the clogged material.	Professional	
	There is evidence of erosion and / or exposed soil	N			Stabilize immediately	Owner or professional	
	There is dead vegetation or exposed soil in the grass filter	N			Restabilize and revegetate as necessary	Owner or professional	
Inlets	Check for sediment build-up at curb cuts, gravel diaphragms or pavement edges that prevent flow from getting into the bed, and check for bypassing.	N			Remove sediment and correct any other problems that block inflow.	Owner or professional	
	There is excessive trash, debris, or sediment.	N			Remove immediately	Owner or professional	Rocks obstructing inlets
	There is evidence of erosion at or around the inlet	Y			Repair erosion damage and reseed or otherwise restabilize with vegetation	Owner or professional	Exposed Filter Fabric
	Inflow is hindered by trees and/or shrubs.	N			Remove woody vegetation from points of inflow and directly above underdrains. (Trees and shrubs may be located closer to the perimeter.)	Owner or professional	
Side Slopes (Annually, after major storms)	There is evidence of rill or gully erosion or bare soil	N			Identify the source of erosion damage and prevent it from recurring. Repair erosion damage and reseed or otherwise restabilize with vegetation	Owner or professional	
	There is excess sediment accumulation	N			Remove immediately	Owner or professional	
	Side slopes support nuisance animals.	N			Animal burrows must be backfilled and compacted. Burrowing animals should be humanely removed from the area.	Professional	
Vegetation (monthly)	Plant composition is consistent with the approved plans and any stakes or wires are in good condition.	Y			Determine if existing plant materials are at least consistent with general Bioretention design criteria and replace inconsistent species.	Professional	Minor vegetation present
	There should be 75-90% cover (mulch plus vegetation), and the mulch cover	Y			Supplement vegetation and mulch as needed.		Minor vegetation present

Element of BMP	Potential Problem	Problem? Y / N	Investigate? Y / N	Repaired? Y / N	How to fix problem	Who Will Address Problem	Comments
	should be 2-3 inches deep.						

Element of BMP	Potential Problem	Problem? Y / N	Investigate? Y / N	Remediate? Y / N	How to fix problem	Who Will Address Problem	Comments
Vegetation (monthly) (continued)	There is evidence of hydrocarbons or other deleterious materials, resulting in unsatisfactory plant growth or mortality,	N			Replace contaminated mulch. If problem persists, test soils for hydrocarbons and other toxic substances. If excess levels are found, the soils, plants and mulch may all need to be replaced in accordance with the approved construction plans.	Professional	
	Invasive species or weeds make up at least 10% of the facility's vegetation	N			Remove invasive species and excessive weeds immediately and replace vegetation as needed.	Owner or professional	
	The grass is too high	N			Mow within a week. Grass species should be selected that have dense cover, are relatively slow growing, and require the least mowing and chemical inputs. Grass should be from 6-10 inches high.	Owner or professional	
	Vegetation is diseased, dying or dead	N			Remove and replace. Increase watering, but avoid using chemical fertilizers, unless absolutely necessary.	Professional	
	Winter-killed or salt-killed vegetation is present.	N			Replace with hardier species.	Owner or professional	
Filter Media (Annually)	The filter media is too low, too compacted, or the composition is inconsistent with design specifications	Y			Raise the level, loosen and amend or replace the media, as needed, to be consistent with the state design criteria for Bioretention (85-88% sand 8-12% soil fines 3-5% organic matter in form of leaf compost). Other remediation options are described in the maintenance section of the state design criteria for Bioretention	Professional	Filter media appears to be compacted and sand accumulation present.
	The mulch is older than 3 years or is otherwise in poor condition	Y			The mulch must be replaced every 2-3 years	Professional	No mulch present
	There is evidence that chemicals, fertilizers, and/or oil/grease are present	N			Remove undesirable chemicals from media and facility immediately, and replace mulch or media as needed	Professional	
	There is excessive trash, debris, or sediment.	N			Remove trash and debris immediately. Check plant health and, without damaging plants, manually remove the sediment, especially if the depth exceeds 20% of the facility's design depth.	Owner or professional	
	There is evidence of concentrated flows, erosion or exposed soil	N			Identify the source of erosion damage and prevent it from recurring. Repair the erosion damage and reseed or otherwise restabilize with vegetation.	Professional	

Element of BMP	Potential Problem	Problem? Y / N	Investigate? Y / N	Remediate? Y / N	How to fix problem	Who Will Address Problem	Comments
Filter Media (Annually) (continued)	The filter bed is clogged and/or filled inappropriately	N			Redistribute the soil substrate and remove sediment within 2 weeks.	Professional	
	The topsoil is in poor condition (e.g., the pH level is not 6-7, the composition is inappropriate, etc.)	N			Ensure a 3-inch surface depth of topsoil consistent with the state design criteria for Bioretention (loamy sand or sandy loam texture, with less than 5% clay content, and organic matter content of at least 2%). If the pH is less than 6.5, spread limestone.	Professional	
Underdrain/ Proper Drainage	The perforated pipe is not conveying water as designed	N			Determine if the pipe is clogged with debris or if woody roots have pierced the pipe. Immediately clean out or replace the pipe, as necessary.	Professional	
	The underlying soil interface is clogged (there is evidence on the surface of soil crusting, standing water, the facility does not dewater between storms, or water ponds on the surface of basin for more than 48 hours after an event).	N			Measure the draw-down rate of the observation well for three days following a storm event in excess of 1/2 inches in depth. After three days, if there is standing water on top but not in the underdrain, this indicates a clogged soil layer. If standing water is both on the surface and in the underdrain, then the underdrain is probably clogged. This should be promptly investigated and remediated to restore proper filtration. Grading changes may be needed or underdrain repairs made. The filter media may need to be raked, excavated and cleaned or replaced to correct the problem. Holes that are not consistent with the design and allow water to flow directly through a planter to the ground must be plugged.	Professional	
Planters	The planter is unable to receive or detain stormwater prior to infiltration. Water does not drain from the reservoir within 3-4 hours of after a storm event.	N/A			Identify and correct sources of clogging. Topsoil and sand/peat layer may need to be amended with sand or replaced all together.	Owner or professional	
	The planter has structural deficiencies, including rot, cracks, and failure, or the planter is unable to contain the filter media or vegetation	N/A			Make needed repairs immediately.	Owner or professional	
Outlet/ Overflow Spillway	Outlets are obstructed or erosion and soil exposure is evident below the outlet.	N			Remove obstructions and stabilize eroded or exposed areas.	Owner or Professional	

Element of BMP	Potential Problem	Problem? Y / N	Investigate? Y / N	Repaired? Y / N	How to fix problem	Who Will Address Problem	Comments
Outlet/ Overflow Spillway (continued)	There is excessive trash, debris, or sediment at the outlet	N			Remove immediately, and keep the contributing area free of trash and debris.	Owner or professional	
	Any grates present are in good condition	N			Repair or replace as necessary	Owner or professional	
Observation Well	Is the observation well still capped?	N			Repair, as necessary.	Professional	Unable to locate
Overall	Access to the Infiltration facility or its components is adequate	N			Establish adequate access. Remove woody vegetation and debris that may block access. Ensure that hardware can be opened and operated.	Professional and, perhaps, the locality	
	There is evidence of standing water	N			Fill in low spots and stabilize; correct flow problems causing ponding.	Owner or professional	
	Mosquito proliferation	N			Eliminate stagnant pools and establish vegetation; treat for mosquitoes as needed. If sprays are considered, then a mosquito larvicide, such as Bacillus thurendensis or Altoside formulations can be applied <i>only if absolutely necessary</i> .	Owner or professional	
	Complaints from local residents	N			Correct real problems	Owner or professional	
	Encroachment on the bioretention area or easement by buildings or other structures	N			Inform involved property owners of BMPs status ; clearly mark the boundaries of the receiving pervious area, as needed	Owner or professional (and perhaps the locality)	

9-C.9.0. INFILTRATION PRACTICES: O&M CHECKLISTInspection Date 6/04/2025

Project _____

Site Plan/Permit Number _____

Location Ferguson Center for the Arts

Date BMP Placed in Service _____

Date of Last Inspection 6/03/2024Inspector J. Slagle, M.McGraw

Owner/Owner's Representative _____

As-Built Plans available: Y / NFacility Type: Level 1 Proprietary: Contech Storm Level 2 _____

Keep

Facility Location:

☒ Surface☒ Underground

Hydraulic Configuration:

☐ On-line facility☒ Off-line facility

Filtration Media:

☒ No filtration (e.g., dry well, permeable pavement, infiltration facility, etc.)☐ Sand☐ Bioretention Soil☐ Peat☐ Other: _____

Type of Pre-Treatment Facility:

☐ Sediment forebay (above ground)☒ Sedimentation chamber☐ Plunge pool☐ Stone diaphragm☐ Grass filter strip☐ Grass channel☐ Other: _____

Ideally, infiltration facilities should be inspected annually. Spill Prevention measures should be used around infiltration facilities when handling substances that contaminate stormwater. Releases of pollutants should be corrected as soon as identified.

Element of BMP	Potential Problem	Problem? Y / N	Investigate? Y / N	Repaired? Y / N	How to Fix Problem	Who Will Address Problem	Comments
Contributing Drainage Area	There is excessive trash and debris	N			Remove immediately	Owner or professional	
	There is evidence of erosion and / or exposed soil	N			Stabilize immediately	Owner or professional	
	Vegetative cover is adequate	N			Supplement as needed	Owner or professional	
	There are excessive landscape waste or yard clippings	N			Remove immediately and recycle or compost	Owner or professional	
Pre-Treatment Facility	There is adequate access to the pre-treatment facility	N			Establish adequate access	Professional and, perhaps, the locality	
	There is excessive trash, debris, or sediment.	N			Remove immediately	Owner or professional	

Element of BMP	Potential Problem	Problem? Y / N	Investigate? Y / N	Repaired? Y / N	How to Fix Problem	Who Will Address Problem	Comments
Pre-Treatment Facility (continued)	There is evidence of erosion and/or exposed soil				Stabilize immediately	Owner or professional	
	There is evidence of clogging (standing water, noticeable odors, water stains, algae or floating aquatic vegetation)				Identify and eliminate the source of the problem. If necessary, remove and clean or replace the clogged material.	Professional	
	There is dead vegetation or exposed soil in the grass filter				Restabilize and revegetate as necessary	Owner or professional	
Inlets	Inlets provide a stable conveyance into facility				Stabilize immediately, as needed.	Owner or professional	
	There is excessive trash/debris/sediment.				Remove immediately	Owner or professional	
	There is evidence of erosion at or around the inlet				Repair erosion damage and reseed or otherwise restabilize with vegetation	Owner or professional	
Embankment, Flow Diversion Structures (e.g., Dikes, Berms, etc.) and Side Slopes	There is evidence of erosion or bare soil				Identify the source of erosion damage and prevent it from recurring. Repair erosion damage and reseed or otherwise restabilize with vegetation	Owner or professional	
	There is excess sediment accumulation				Remove immediately	Owner or professional	
	Water is not detained in the infiltration basin				Check for a breach in the containment structure and repair immediately.	Professional	
	Side slopes support nuisance animals.				Animal burrows must be backfilled and compacted. Burrowing animals should be humanely removed from area.	Professional	
Maintaining Facility Capacity and Proper Drainage	Look for weedy growth on the stone surface indicating sediment accumulation and potential clogging				Identify and control sources of sediment and debris. Remove sediment and debris in excess of 4" in depth every 2-5 years (or sooner if performance is affected).	Professional	
	Measure the draw-down rate of the observation well for three days following a storm event in excess of 1/2 inches in depth. If standing water is still observed after three days, this is a clear sign that clogging is a problem.				Immediately clear debris from the underdrain. Replace the underdrain if necessary. If needed, regrade and till to restore infiltration capacity (the need for this can be prevented by preventing upstream erosion and subsequent sediment transport to the facility).	Professional	
	There is excessive trash/debris				Remove immediately	Owner or professional	

Element of BMP	Potential Problem	Problem? Y / N	Investigate? Y / N	Repaired? Y / N	How to Fix Problem	Who Will Address Problem	Comments
Vegetation	Grass within the practice is overgrown	N			Grass must be mowed to a height of 4"-9" and grass clippings removed (ideally recycled or composted).	Owner or professional	
	Pioneer trees are sprouting in the base of the facility	N			Remove trees to prevent roots from puncturing the filter fabric, allowing sediment to enter		
	Vegetation forms an overhead canopy that may drop leaf litter, fruit and other vegetative materials that may cause clogging.	N			Prune or remove vegetation as necessary	Owner or professional	
Observation Well	Is each observation well still capped?	N			Repair, as necessary.	Professional	
Outlet	Outlets are obstructed or erosion and soil exposure is evident below the outlet.	N			Remove obstructions and stabilize eroded or exposed areas.	Owner or Professional	
	Evidence of flow bypassing facility	N			Repair immediately	Professional	
	There is excessive trash, debris, or sediment at the outlet	N			Remove immediately	Owner or professional	
Overflow or Emergency Spillway	The pipe or spillway is not effectively conveying excess water to an adequate receiving system	N			Clear sediment and debris whenever 25% or more of the conveyance capacity is blocked. When damaged pipe is discovered, it must be repaired or replaced immediately. Identify and control sources of erosion damage. Replace or reinforce stone armament whenever only one layer of stone remains.	Professional	
Structural Components	Evidence of structural deterioration	N			Repair as necessary	Professional	
	Evidence of spalling or cracking of structural components	N			Repair or replace, as necessary	Professional	
	Grates are in good condition	N			Repair or replace, as necessary	Owner or professional	
Overall	Access to the Infiltration facility or its components is adequate	N			Establish adequate access. Remove woody vegetation and debris that may block access. Ensure that manholes, valves and/or locks can be opened and operated.	Professional and, perhaps, the locality	
	There is evidence of standing water	N			Fill in low spots and stabilize; correct flow problems causing ponding	Owner or professional	

Element of BMP	Potential Problem	Problem? Y / N	Investigate? Y / N	Repaired? Y / N	How to Fix Problem	Who Will Address Problem	Comments
Overall (continued)	Mosquito proliferation				Eliminate standing water and establish vegetation; treat for mosquitoes as needed. If sprays are considered, then a mosquito larvicide, such as Bacillus thurendensis or Altoside formulations can be applied <i>only if absolutely necessary</i> .	Owner or professional	
	Complaints from local residents				Correct real problems	Owner or professional	
	Encroachment on the infiltration area or easement by buildings or other structures				Inform involved property owners of BMPs status ; clearly mark the boundaries of the receiving pervious area, as needed	Owner or professional (and perhaps the locality)	



Christopher Newport University Annual BMP Inspections Photo Log June 2025

BMP 2: James River Hall Extended Detention



Photo #1: Overall of Extended Detention Pond



Photo #2: Sediment and debris accumulation present in southern inlet



Photo #3: Sediment and vegetation accumulation present in southern inlet pipe and protection



Photo #4: Sediment accumulation present in eastern inlet pipe



Photo #5: Sediment and vegetation accumulation present in southeastern roof drain



Photo #6: Sediment and vegetation accumulation present in northern inlet pipe



Photo #7: Sediment and vegetation accumulation present in eastern inlet pipe



Photo #8: Minor debris accumulation present in outlet trash rack, minor bare areas around outlet structure



Photo #9: Some debris accumulation present in outlet structure

BMP 5: Parking Lot A Bioretention



Photo #1: Overall of Bioretention



Photo #2: Some sediment accumulation present in northwestern curb cut inlet



Photo #3: Debris and road grit accumulation present in northern curb cut inlet



Photo #4: Northeast curb cut inlet appears to be in good condition



Photo #5: Some debris accumulation present in underdrain outlet pipe



Photo #6: Sandbags storage present near BMP

BMP 6: Turf Field Replacement



Photo #1: Overall of Bioretention



Photo #2: Bare areas present in bioretention



Photo #3: Stones present in western inlet pipe



Photo #4: Some scour present around western inlet protection



Photo #5: Stones present in southwest inlet pipe



Photo #6: Stones present in northern inlet pipe

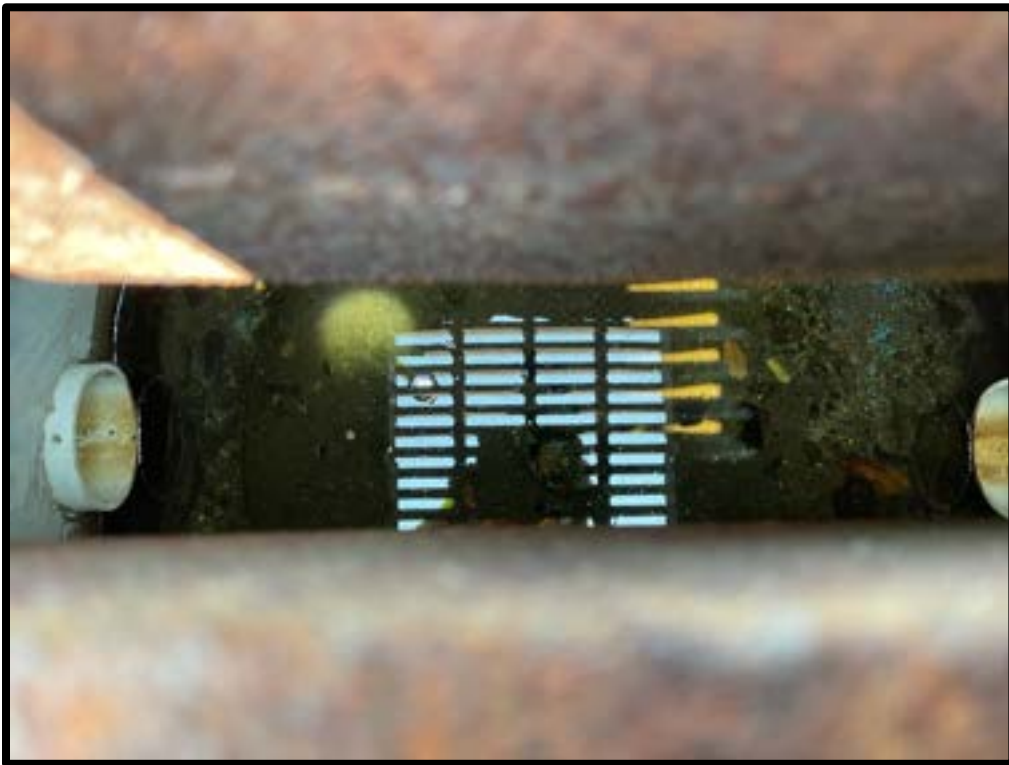


Photo #7: Track synthetic material present in underdrains and outfall pipe

BMP 7: Parking Lot C1/C2 Infiltration Practices (Stormkeeper)



Photo #1: Some debris accumulated in inlet



Photo #2: Some debris accumulation present in northern structure



Photo #3: Southern structure appears to be in good condition

Marlene McGraw

From: BMPDataSubmission@deq.virginia.gov
Sent: Friday, July 25, 2025 9:50 AM
To: Hailey Fry
Subject: DEQ BMP Approval
Attachments: DEQApprovedBMPSubmission_20250725.xlsx

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dear Hailey Fry,

The Department of Environmental Quality (DEQ) has received your BMP submission. Attached you will find a Microsoft Excel document with the data you uploaded with DEQ Tracking Ids assigned to each record. Please keep this file as the Tracking Ids will be needed if you need to update the data at a later date. Thank you.

Organization: Christopher Newport University

Sincerely,
DEQ Division of Water Planning

Upload Status	Tracking ID	Inspection Date	Inspection Status	Maintenance Date	Inspection Comments
PASS	CNUNIV-2002-00489830	6/4/2025	PASS		
PASS	CNUNIV-2019-00489832	6/4/2025	PASS		
PASS	CNUNIV-2019-00489833	6/4/2025	PASS		
PASS	CNUNIV-2019-00489834	6/4/2025	PASS		

Appendix F: Minimum Control Measure 6 (MCM 6)

Supplemental Information

Support Facilities Inspection Report

Inspections must be conducted by a person with the knowledge and skills to assess conditions and activities that could impact stormwater quality at the facility and evaluate the effectiveness of best management practices required by this permit. Retain a copy of the completed and signed form with the SWPPP for at least 3 years.

INSPECTOR NAME: H. Fry, M. McGraw, C. San Juan	INSPECTION TIME: 5:00pm	INSPECTION DATE: 5/22/2025
WEATHER INFORMATION: Description of Weather Conditions (e.g., sunny, cloudy, raining, snowing, etc.): <u>Sunny. Rained on May 21, 2025.</u> Was stormwater (e.g., runoff from rain or snowmelt) flowing at outfalls and/or discharge areas shown on the Site Map during the inspection? (Yes ☒ No) Comments:		

I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AND BMP EVALUATION

SWPPP and Site Map: Have a copy of the SWPPP and site map with you during the inspection so that you can ensure they are current and accurate. Use it as an aide in recording the location of any issues you identify during the inspection. - Is the Site Map current and accurate? Yes - Is the SWPPP inventory of activities, materials and products current? Yes	Findings and Remedial Action Documentation: Describe any findings below and the schedule for remedial action completion including the date initiated and date completed or expected to be completed. SWPPP available at Grounds Facility and on University website.
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I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AND BMP EVALUATION

Vehicle/Equipment Areas

Equipment cleaning:

Is equipment washed and/or cleaned only in designated areas?

- Observe washing: Is all wash water captured and properly disposed of?

Equipment fueling:

- Are all fueling areas free of contaminant buildup and evidence of chronic leaks/spills?
- Are all chemical liquids, fluids, and petroleum products, on an impervious surface that is surrounded with a containment berm or dike that is capable of containing 10% of the total enclosed tank volume or 110% of the volume contained in the largest tank, whichever is greater?
- Are structures in place to prevent precipitation from accumulating in containment areas?
 - If not, is there any water or other fluids accumulated within the containment area?
 - Note: If containment areas are not covered to prevent water from accumulating, the SWPPP must include a plan describing how accumulated water will be managed and disposed of.

Equipment maintenance:

- Are maintenance tools, equipment and materials stored under shelter, elevated and covered?
- Are all drums and containers of fluids stored with proper cover and containment?
- Are exteriors of containers kept outside free of deposits?
- Are any vehicles and/or equipment leaking fluids? Identify leaking equipment.
- Is there evidence of leaks or spills since last inspection? Identify and address.
- Are materials, equipment, and activities located so that leaks are contained in existing containment and diversion systems (confine the storage of leaky or leak-prone vehicles and equipment awaiting maintenance to protected areas)?

Add any additional site-specific BMPs:

Findings and Remedial Action Documentation:

- Ensure washing does not occur in this area and that hose is only used for landscaping. Washing should only occur at the wash station located at the Grounds Department.
- Store vehicles/equipment under cover.

I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AND BMP EVALUATION

Good Housekeeping BMPs

Are paved surfaces free of accumulated dust/sediment and debris?

- Date of last quarterly vacuum/sweep
- Are there areas of erosion or sediment/dust sources that discharge to storm drains?

Are all waste receptacles located outdoors:

- In good condition?
- Not leaking contaminants?
- Closed when is not being accessed?
- External surfaces and area free of excessive contaminant buildup?

Are the following areas free of accumulated dust/sediment, debris, contaminants, and/or spills/leaks of fluids?

- External dock areas
- Pallet, bin, and drum storage areas
- Maintenance shop(s)
- Equipment staging areas (loaders, tractors, trailers, forklifts, etc)
- Around bag-house(s)
- Around bone yards

Other areas of industrial activity:

Findings and Remedial Action Documentation:

- Some dumpsters are uncovered or missing lids.
- Minor debris accumulation in area.

Spill Response and Equipment

Are spill kits available, in the following locations?

- Fueling stations
- Transfer and mobile fueling units
- Vehicle and equipment maintenance areas

Do the spill kits contain all the permit required items?

- Oil absorbents capable of absorbing 15 gallons of fuel.
- A storm drain plug or cover kit.
- A non-water containment boom, a minimum of 10 feet in length with a 12 gallon absorbent capacity.
- A non-metallic shovel.
- Two five-gallon buckets with lids.

Are contaminated absorbent materials properly disposed of?

Findings and Remedial Action Documentation:

- N/A

I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AND BMP EVALUATION

General Material Storage Areas - Are damaged materials stored inside a building or another type of storm resistance shelter? - Are all uncontained material piles stored in a manner that does not allow discharge of impacted stormwater? - Are scrap metal bins covered? - Are outdoor containers covered?	Findings and Remedial Action Documentation: - Uncovered barrels with punctures present. - Uncovered stockpiles and materials.
Stormwater BMPs and Treatment Structures Visually inspect all stormwater BMPs and treatment structures devices, discharge areas infiltration and outfalls shown on the Site Map. - Are BMPs and treatment structures in good repair and operational? - Are BMPs and treatment structures free from debris buildup that may impair function? - The permit requires Permittees to clean catch basins when the depth of debris reaches 60% of the sump depth. In addition, the Permittee must keep the debris surface at least 6 inches below the outlet pipe. Based on this, do catch basins need to be cleaned? - Are berms, curbing or other methods used to divert and direct discharges adequate and in good condition?	Findings and Remedial Action Documentation: N/A

Observation of Stormwater Discharges • Is the discharge free of floating materials, visible oil sheen, discoloration, turbidity, odor, foam or any other signs of contamination? • Water from washing vehicles or equipment, steam cleaning and/or pressure washing is considered process wastewater and is not allowed to comeingle with stormwater or enter storm drains. Is process water comingling with stormwater or entering storm drains? Illicit discharges include domestic wastewater, noncontact cooling water, or process wastewater (including leachate). • Were any illicit discharges observed during the inspection?	Findings and Remedial Action Documentation: • Ponding present; no IDDE suspected.
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II. CORRECTIVE ACTION AND SWPPP MODIFICATIONS DESCRIPTIONS:

Additional space to describe inspection findings and corrective actions if needed. Provide brief explanation of the general location and the rationale for the additional or different BMPs.

Ensure washing does not occur in this area, as washing should only occur in designated areas equipped with a BMP. Store vehicles/equipment under cover. Ensure dumpsters remain closed when not in use. Recommend removal of debris accumulated in area. Cover or remove barrels. Cover stockpiles and materials.

Since the initial site inspection, the following hot spot issues of concern have been addressed:

III. CERTIFICATION STATEMENTS AND SIGNATURES:**Inspector – Certification**

This section must be completed by the person who conducted the site inspection prior to submitting this form to the person with signature authority or a duly authorized representative of that person.



The facility is in compliance with the terms and conditions of the SWPPP and the CNU MS4 Permit.



The facility is out of compliance with the terms and conditions of the SWPPP and the CNU MS4 Permit. This report includes the remedial actions that must be taken to meet the requirements of the SWPPP and permit, including a schedule of implementation of the remedial actions.

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief."

Hailey Fry		DEQ Stormwater Management Inspector	05/22/2025
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Inspector's Name – Printed**Inspector's Signature****Inspector's Title****Date****Permittee – Certification**

The facility is in compliance with the terms and conditions of the SWPPP and the CNU MS4 Permit.



The facility is out of compliance with the terms and conditions of the SWPPP and the CNU MS4 Permit. This report includes the remedial actions that must be taken to meet the requirements of the SWPPP and permit, including a schedule of implementation of the remedial actions.

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

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PRINTED NAME of person with **Signature Authority** or a **Duly Authorized Representative**¹

SIGNATURE of person with **Signature Authority** or a **Duly Authorized Representative**¹

DATE

¹A person is duly authorized representative only if the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters.

Support Facilities Inspection Report

Inspections must be conducted by a person with the knowledge and skills to assess conditions and activities that could impact stormwater quality at the facility and evaluate the effectiveness of best management practices required by this permit. Retain a copy of the completed and signed form with the SWPPP for at least 3 years.

INSPECTOR NAME: H. Fry, M. McGraw, C. San Juan	INSPECTION TIME: 12:30pm	INSPECTION DATE: 5/22/2025
WEATHER INFORMATION: Description of Weather Conditions (e.g., sunny, cloudy, raining, snowing, etc.): Cloudy. Rained on May 21, 2025. Was stormwater (e.g., runoff from rain or snowmelt) flowing at outfalls and/or discharge areas shown on the Site Map during the inspection? (Yes ☒ No) Comments:		

I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AND BMP EVALUATION	
SWPPP and Site Map: Have a copy of the SWPPP and site map with you during the inspection so that you can ensure they are current and accurate. Use it as an aide in recording the location of any issues you identify during the inspection. - Is the Site Map current and accurate? Yes - Is the SWPPP inventory of activities, materials and products current? Yes	Findings and Remedial Action Documentation: Describe any findings below and the schedule for remedial action completion including the date initiated and date completed or expected to be completed. SWPPP available at Grounds Facility and on University website.

I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AND BMP EVALUATION

Vehicle/Equipment Areas

Equipment cleaning:

Is equipment washed and/or cleaned only in designated areas?

- Observe washing: Is all wash water captured and properly disposed of?

Equipment fueling:

- Are all fueling areas free of contaminant buildup and evidence of chronic leaks/spills?
- Are all chemical liquids, fluids, and petroleum products, on an impervious surface that is surrounded with a containment berm or dike that is capable of containing 10% of the total enclosed tank volume or 110% of the volume contained in the largest tank, whichever is greater?
- Are structures in place to prevent precipitation from accumulating in containment areas?
 - If not, is there any water or other fluids accumulated within the containment area?
 - Note: If containment areas are not covered to prevent water from accumulating, the SWPPP must include a plan describing how accumulated water will be managed and disposed of.

Equipment maintenance:

- Are maintenance tools, equipment and materials stored under shelter, elevated and covered?
- Are all drums and containers of fluids stored with proper cover and containment?
- Are exteriors of containers kept outside free of deposits?
- Are any vehicles and/or equipment leaking fluids? Identify leaking equipment.
- Is there evidence of leaks or spills since last inspection? Identify and address.
- Are materials, equipment, and activities located so that leaks are contained in existing containment and diversion systems (confine the storage of leaky or leak-prone vehicles and equipment awaiting maintenance to protected areas)?

Add any additional site-specific BMPs:

Findings and Remedial Action Documentation:

- Wash station well maintained and properly designed.
- Fueling station under cover with secondary containment and spill kit nearby.
- Equipment maintenance performed under cover on impervious surface.
- Broken and leaking equipment.

I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AND BMPEVALUATION

Good Housekeeping BMPs

Are paved surfaces free of accumulated dust/sediment and debris?

- Date of last quarterly vacuum/sweep
- Are there areas of erosion or sediment/dust sources that discharge to storm drains?

Are all waste receptacles located outdoors:

- In good condition?
- Not leaking contaminants?
- Closed when is not being accessed?
- External surfaces and area free of excessive contaminant buildup?

Are the following areas free of accumulated dust/sediment, debris, contaminants, and/or spills/leaks of fluids?

- External dock areas
- Pallet, bin, and drum storage areas
- Maintenance shop(s)
- Equipment staging areas (loaders, tractors, trailers, forklifts, etc)
- Around bag-house(s)
- Around bone yards

Other areas of industrial activity:

Findings and Remedial Action Documentation:

- Some sediment build-up and staining around facility.
- Clear flow paths visible from stockpiles.
- Minor debris accumulation in area.
- Materials generally stored on pallets or under cover.
- Dumpsters lack secondary containment.
- Uncovered dumpster.

Spill Response and Equipment

Are spill kits available, in the following locations?

- Fueling stations
- Transfer and mobile fueling units
- Vehicle and equipment maintenance areas

Do the spill kits contain all the permit required items?

- Oil absorbents capable of absorbing 15 gallons of fuel.
- A storm drain plug or cover kit.
- A non-water containment boom, a minimum of 10 feet in length with a 12 gallon absorbent capacity.
- A non-metallic shovel.
- Two five-gallon buckets with lids.

Are contaminated absorbent materials properly disposed of?

Findings and Remedial Action Documentation:

- Spill kit easily accessible at fueling station with disposal area nearby.

I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AND BMP EVALUATION

General Material Storage Areas

- Are damaged materials stored inside a building or another type of storm resistance shelter?
- Are all uncontained material piles stored in a manner that does not allow discharge of impacted stormwater?
- Are scrap metal bins covered?
- Are outdoor containers covered?

Findings and Remedial Action Documentation:

- Stockpiles partially covered with clear flow path visible.

Stormwater BMPs and Treatment Structures

Visually inspect all stormwater BMPs and treatment structures devices, discharge areas infiltration and outfalls shown on the Site Map.

- Are BMPs and treatment structures in good repair and operational?
- Are BMPs and treatment structures free from debris buildup that may impair function?
- The permit requires Permittees to clean catch basins when the depth of debris reaches 60% of the sump depth. In addition, the Permittee must keep the debris surface at least 6 inches below the outlet pipe. Based on this, do catch basins need to be cleaned?
- Are berms, curbing or other methods used to divert and direct discharges adequate and in good condition?

Findings and Remedial Action Documentation:

- N/A

Observation of Stormwater Discharges • Is the discharge free of floating materials, visible oil sheen, discoloration, turbidity, odor, foam or any other signs of contamination? • Water from washing vehicles or equipment, steam cleaning and/or pressure washing is considered process wastewater and is not allowed to comeingle with stormwater or enter storm drains. Is process water comingling with stormwater or entering storm drains? Illicit discharges include domestic wastewater, noncontact cooling water, or process wastewater (including leachate). • Were any illicit discharges observed during the inspection?	Findings and Remedial Action Documentation: • Wash station connected to sanitary sewer.
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II. CORRECTIVE ACTION AND SWPPP MODIFICATIONS DESCRIPTIONS:	
Additional space to describe inspection findings and corrective actions if needed. Provide brief explanation of the general location and the rationale for the additional or different BMPs.	
Move maintenance of broken equipment under cover and utilize drip pan to catch leak. Recommend sweeping of sediment accumulation. Recommend powerwashing staining, following proper SOPs, throughout site to make it easier to identify new leaks. Recommend removal of debris accumulation in area. Ensure dumpsters remain closed when not in use. Cover stockpiles.	
Since the initial site inspection, the following hot spot issues of concern have been addressed:	

III. CERTIFICATION STATEMENTS AND SIGNATURES:**Inspector – Certification**

This section must be completed by the person who conducted the site inspection prior to submitting this form to the person with signature authority or a duly authorized representative of that person.



The facility is in compliance with the terms and conditions of the SWPPP and the CNU MS4 Permit.



The facility is out of compliance with the terms and conditions of the SWPPP and the CNU MS4 Permit. This report includes the remedial actions that must be taken to meet the requirements of the SWPPP and permit, including a schedule of implementation of the remedial actions.

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief."

Hailey Fry		DEQ Stormwater Management Inspector	05/22/2025
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Inspector's Name – Printed**Inspector's Signature****Inspector's Title****Date****Permittee – Certification**

The facility is in compliance with the terms and conditions of the SWPPP and the CNU MS4 Permit.



The facility is out of compliance with the terms and conditions of the SWPPP and the CNU MS4 Permit. This report includes the remedial actions that must be taken to meet the requirements of the SWPPP and permit, including a schedule of implementation of the remedial actions.

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

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PRINTED NAME of person with **Signature Authority** or a **Duly Authorized Representative**¹

SIGNATURE of person with **Signature Authority** or a **Duly Authorized Representative**¹

DATE

¹A person is duly authorized representative only if the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters.

Support Facilities- Plant Operations Inspection Report

Inspections must be conducted by a person with the knowledge and skills to assess conditions and activities that could impact stormwater quality at the facility and evaluate the effectiveness of best management practices required by this permit. Retain a copy of the completed and signed form with the SWPPP for at least 3 years.

INSPECTOR NAME: H. Fry, M. McGraw, C. San Juan	INSPECTION TIME: 1:30pm	INSPECTION DATE: 5/22/2025
WEATHER INFORMATION: Description of Weather Conditions (e.g., sunny, cloudy, raining, snowing, etc.): Cloudy. Rained on May 21, 2025.		
Was stormwater (e.g., runoff from rain or snowmelt) flowing at outfalls and/or discharge areas shown on the Site Map during the inspection? (Yes ☒ No) Comments:		

I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AND BMP EVALUATION

SWPPP and Site Map: Have a copy of the SWPPP and site map with you during the inspection so that you can ensure they are current and accurate. Use it as an aide in recording the location of any issues you identify during the inspection. - Is the Site Map current and accurate? Yes - Is the SWPPP inventory of activities, materials and products current? Yes	Findings and Remedial Action Documentation: Describe any findings below and the schedule for remedial action completion including the date initiated and date completed or expected to be completed. SWPPP available at Grounds Facility and on University website.
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I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AND BMP EVALUATION

Vehicle/Equipment Areas

Equipment cleaning:

Is equipment washed and/or cleaned only in designated areas?

- Observe washing: Is all wash water captured and properly disposed of?

Equipment fueling:

- Are all fueling areas free of contaminant buildup and evidence of chronic leaks/spills?
- Are all chemical liquids, fluids, and petroleum products, on an impervious surface that is surrounded with a containment berm or dike that is capable of containing 10% of the total enclosed tank volume or 110% of the volume contained in the largest tank, whichever is greater?
- Are structures in place to prevent precipitation from accumulating in containment areas?
 - If not, is there any water or other fluids accumulated within the containment area?
 - Note: If containment areas are not covered to prevent water from accumulating, the SWPPP must include a plan describing how accumulated water will be managed and disposed of.

Equipment maintenance:

- Are maintenance tools, equipment and materials stored under shelter, elevated and covered?
- Are all drums and containers of fluids stored with proper cover and containment?
- Are exteriors of containers kept outside free of deposits?
- Are any vehicles and/or equipment leaking fluids? Identify leaking equipment.
- Is there evidence of leaks or spills since last inspection? Identify and address.
- Are materials, equipment, and activities located so that leaks are contained in existing containment and diversion systems (confine the storage of leaky or leak-prone vehicles and equipment awaiting maintenance to protected areas)?

Add any additional site-specific BMPs:

Findings and Remedial Action Documentation:

- Equipment maintenance is performed indoors. Areas appear neat and well maintained.

I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AND BMP EVALUATION

Good Housekeeping BMPs

Are paved surfaces free of accumulated dust/sediment and debris?

- Date of last quarterly vacuum/sweep
- Are there areas of erosion or sediment/dust sources that discharge to storm drains?

Are all waste receptacles located outdoors:

- In good condition?
- Not leaking contaminants?
- Closed when is not being accessed?
- External surfaces and area free of excessive contaminant buildup?

Are the following areas free of accumulated dust/sediment, debris, contaminants, and/or spills/leaks of fluids?

- External dock areas
- Pallet, bin, and drum storage areas
- Maintenance shop(s)
- Equipment staging areas (loaders, tractors, trailers, forklifts, etc)
- Around bag-house(s)
- Around bone yards

Other areas of industrial activity:

Findings and Remedial Action Documentation:

- Sediment accumulation and staining throughout site.
- Dumpster is actively leaking and appears to have been for some time based on staining and dead grass in area.
- Dumpster lacking sufficient secondary containment and cover.
- Excess debris present at loading dock.
- Debris accumulation in area.

Spill Response and Equipment

Are spill kits available, in the following locations?

- Fueling stations
- Transfer and mobile fueling units
- Vehicle and equipment maintenance areas

Do the spill kits contain all the permit required items?

- Oil absorbents capable of absorbing 15 gallons of fuel.
- A storm drain plug or cover kit.
- A non-water containment boom, a minimum of 10 feet in length with a 12 gallon absorbent capacity.
- A non-metallic shovel.
- Two five-gallon buckets with lids.

Are contaminated absorbent materials properly disposed of?

Findings and Remedial Action Documentation:

- N/A

I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AND BMP EVALUATION

General Material Storage Areas • Are damaged materials stored inside a building or another type of storm resistance shelter? • Are all uncontained material piles stored in a manner that does not allow discharge of impacted stormwater? • Are scrap metal bins covered? • Are outdoor containers covered?	Findings and Remedial Action Documentation: • Materials are stored on pallets but lack cover. • Batteries stored outdoors without cover.
Stormwater BMPs and Treatment Structures Visually inspect all stormwater BMPs and treatment structures devices, discharge areas infiltration and outfalls shown on the Site Map. • Are BMPs and treatment structures in good repair and operational? • Are BMPs and treatment structures free from debris buildup that may impair function? • The permit requires Permittees to clean catch basins when the depth of debris reaches 60% of the sump depth. In addition, the Permittee must keep the debris surface at least 6 inches below the outlet pipe. Based on this, do catch basins need to be cleaned? • Are berms, curbing or other methods used to divert and direct discharges adequate and in good condition?	Findings and Remedial Action Documentation: • N/A

Observation of Stormwater Discharges - Is the discharge free of floating materials, visible oil sheen, discoloration, turbidity, odor, foam or any other signs of contamination? - Water from washing vehicles or equipment, steam cleaning and/or pressure washing is considered process wastewater and is not allowed to comeingle with stormwater or enter storm drains. Is process water comingling with stormwater or entering storm drains? Illicit discharges include domestic wastewater, noncontact cooling water, or process wastewater (including leachate). - Were any illicit discharges observed during the inspection?	Findings and Remedial Action Documentation: N/A
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II. CORRECTIVE ACTION AND SWPPP MODIFICATIONS DESCRIPTIONS:

Additional space to describe inspection findings and corrective actions if needed. Provide brief explanation of the general location and the rationale for the additional or different BMPs.

Recommend sweeping of sediment accumulation. Recommend powerwashing staining, following proper SOPs, throughout site to make it easier to identify new leaks. Cover batteries or store them indoors. Recommend removal of debris accumulation in area. Recommend covering erodible materials that are stored on pallets. Dumpster requires replacement as it is actively leaking. Recommend protection at downstream high priority inlet (interconnected to Newport News).

Since the initial site inspection, the following hot spot issues of concern have been addressed:

III. CERTIFICATION STATEMENTS AND SIGNATURES:**Inspector – Certification**

This section must be completed by the person who conducted the site inspection prior to submitting this form to the person with signature authority or a duly authorized representative of that person.

☐ The facility is in compliance with the terms and conditions of the SWPPP and the CNU MS4 Permit.

☒ *The facility is out of compliance with the terms and conditions of the SWPPP and the CNU MS4 Permit. This report includes the remedial actions that must be taken to meet the requirements of the SWPPP and permit, including a schedule of implementation of the remedial actions.*

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief."

Hailey Fry		DEQ Stormwater Management Inspector	05/22/2025
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Inspector's Name – Printed**Inspector's Signature****Inspector's Title****Date****Permittee – Certification**

☐ The facility is in compliance with the terms and conditions of the SWPPP and the CNU MS4 Permit.

☐ *The facility is out of compliance with the terms and conditions of the SWPPP and the CNU MS4 Permit. This report includes the remedial actions that must be taken to meet the requirements of the SWPPP and permit, including a schedule of implementation of the remedial actions.*

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

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PRINTED NAME of person with **Signature Authority** or a **Duly Authorized Representative**¹

SIGNATURE of person with **Signature Authority** or a **Duly Authorized Representative**¹

DATE

¹A person is duly authorized representative only if the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters.

Support Facilities Inspection Report

Inspections must be conducted by a person with the knowledge and skills to assess conditions and activities that could impact stormwater quality at the facility and evaluate the effectiveness of best management practices required by this permit. Retain a copy of the completed and signed form with the SWPPP for at least 3 years.

INSPECTOR NAME: M. McGraw	INSPECTION TIME: 2:54pm	INSPECTION DATE: 06/04/2025
WEATHER INFORMATION: Description of Weather Conditions (e.g., sunny, cloudy, raining, snowing, etc.): <u>Sunny, dry.</u> Was stormwater (e.g., runoff from rain or snowmelt) flowing at outfalls and/or discharge areas shown on the Site Map during the inspection? (Yes X No) Comments: 		

I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AND BMP EVALUATION

SWPPP and Site Map: Have a copy of the SWPPP and site map with you during the inspection so that you can ensure they are current and accurate. Use it as an aide in recording the location of any issues you identify during the inspection. - Is the Site Map current and accurate? Yes - Is the SWPPP inventory of activities, materials and products current? Yes	Findings and Remedial Action Documentation: Describe any findings below and the schedule for remedial action completion including the date initiated and date completed or expected to be completed. SWPPP available at Grounds Facility and on University website.
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I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AND BMP EVALUATION	
Vehicle/Equipment Areas <i>Equipment cleaning:</i> Is equipment washed and/or cleaned only in designated areas? - Observe washing: Is all wash water captured and properly disposed of? <i>Equipment fueling:</i> - Are all fueling areas free of contaminant buildup and evidence of chronic leaks/spills? - Are all chemical liquids, fluids, and petroleum products, on an impervious surface that is surrounded with a containment berm or dike that is capable of containing 10% of the total enclosed tank volume or 110% of the volume contained in the largest tank, whichever is greater? - Are structures in place to prevent precipitation from accumulating in containment areas? - If not, is there any water or other fluids accumulated within the containment area? - Note: If containment areas are not covered to prevent water from accumulating, the SWPPP must include a plan describing how accumulated water will be managed and disposed of. <i>Equipment maintenance:</i> - Are maintenance tools, equipment and materials stored under shelter, elevated and covered? - Are all drums and containers of fluids stored with proper cover and containment? - Are exteriors of containers kept outside free of deposits? - Are any vehicles and/or equipment leaking fluids? Identify leaking equipment. - Is there evidence of leaks or spills since last inspection? Identify and address. - Are materials, equipment, and activities located so that leaks are contained in existing containment and diversion systems (confine the storage of leaky or leak-prone vehicles and equipment awaiting maintenance to protected areas)? <i>Add any additional site-specific BMPs:</i>	Findings and Remedial Action Documentation: N/A

I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AND BMPEVALUATION

Good Housekeeping BMPs <i>Are paved surfaces free of accumulated dust/sediment and debris?</i> - Date of last quarterly vacuum/sweep - Are there areas of erosion or sediment/dust sources that discharge to storm drains? <i>Are all waste receptacles located outdoors:</i> - In good condition? - Not leaking contaminants? - Closed when is not being accessed? - External surfaces and area free of excessive contaminant buildup? <i>Are the following areas free of accumulated dust/sediment, debris, contaminants, and/or spills/leaks of fluids?</i> - External dock areas - Pallet, bin, and drum storage areas - Maintenance shop(s) - Equipment staging areas (loaders, tractors, trailers, forklifts, etc) - Around bag-house(s) - Around bone yards <i>Other areas of industrial activity:</i>	Findings and Remedial Action Documentation: Sand spreading across lot parking lot/pavement.
Spill Response and Equipment Are spill kits available, in the following locations? - Fueling stations - Transfer and mobile fueling units - Vehicle and equipment maintenance areas Do the spill kits contain all the permit required items? - Oil absorbents capable of absorbing 15 gallons of fuel. - A storm drain plug or cover kit. - A non-water containment boom, a minimum of 10 feet in length with a 12 gallon absorbent capacity. - A non-metallic shovel. - Two five-gallon buckets with lids. Are contaminated absorbent materials properly disposed of?	Findings and Remedial Action Documentation: N/A

I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AND BMPEVALUATION

General Material Storage Areas • Are damaged materials stored inside a building or another type of storm resistance shelter? • Are all uncontained material piles stored in a manner that does not allow discharge of impacted stormwater? • Are scrap metal bins covered? • Are outdoor containers covered?	Findings and Remedial Action Documentation: • Stockpiles uncovered with no secondary containment.
Stormwater BMPs and Treatment Structures Visually inspect all stormwater BMPs and treatment structures devices, discharge areas infiltration and outfalls shown on the Site Map. • Are BMPs and treatment structures in good repair and operational? • Are BMPs and treatment structures free from debris buildup that may impair function? • The permit requires Permittees to clean catch basins when the depth of debris reaches 60% of the sump depth. In addition, the Permittee must keep the debris surface at least 6 inches below the outlet pipe. Based on this, do catch basins need to be cleaned? • Are berms, curbing or other methods used to divert and direct discharges adequate and in good condition?	Findings and Remedial Action Documentation: • N/A

Observation of Stormwater Discharges - Is the discharge free of floating materials, visible oil sheen, discoloration, turbidity, odor, foam or any other signs of contamination? - Water from washing vehicles or equipment, steam cleaning and/or pressure washing is considered process wastewater and is not allowed to comeingle with stormwater or enter storm drains. Is process water comingling with stormwater or entering storm drains? Illicit discharges include domestic wastewater, noncontact cooling water, or process wastewater (including leachate). - Were any illicit discharges observed during the inspection?	Findings and Remedial Action Documentation: N/A
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II. CORRECTIVE ACTION AND SWPPP MODIFICATIONS DESCRIPTIONS:	
Additional space to describe inspection findings and corrective actions if needed. Provide brief explanation of the general location and the rationale for the additional or different BMPs.	
Cover stockpiles and provide secondary containment. Recommend sweeping sand from pavement.	
Since the initial site inspection, the following hot spot issues of concern have been addressed:	

III. CERTIFICATION STATEMENTS AND SIGNATURES:**Inspector – Certification**

This section must be completed by the person who conducted the site inspection prior to submitting this form to the person with signature authority or a duly authorized representative of that person.



The facility is in compliance with the terms and conditions of the SWPPP and the CNU MS4 Permit.



The facility is out of compliance with the terms and conditions of the SWPPP and the CNU MS4 Permit. This report includes the remedial actions that must be taken to meet the requirements of the SWPPP and permit, including a schedule of implementation of the remedial actions.

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief."

Marlene McGraw		DEQ Stormwater Management Inspector (SWIN2800)	06/04/2025
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Inspector's Name – Printed Inspector's Signature Inspector's Title Date

Permittee – Certification

The facility is in compliance with the terms and conditions of the SWPPP and the CNU MS4 Permit.



The facility is out of compliance with the terms and conditions of the SWPPP and the CNU MS4 Permit. This report includes the remedial actions that must be taken to meet the requirements of the SWPPP and permit, including a schedule of implementation of the remedial actions.

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

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PRINTED NAME of person with Signature Authority or a Duly Authorized Representative¹

SIGNATURE of person with Signature Authority or a Duly Authorized Representative¹

DATE

¹A person is duly authorized representative only if the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters.

Support Facilities Inspection Report

Inspections must be conducted by a person with the knowledge and skills to assess conditions and activities that could impact stormwater quality at the facility and evaluate the effectiveness of best management practices required by this permit. Retain a copy of the completed and signed form with the SWPPP for at least 3 years.

INSPECTOR NAME: M. McGraw	INSPECTION TIME: 3:20pm	INSPECTION DATE: 06/04/2025
WEATHER INFORMATION: Description of Weather Conditions (e.g., sunny, cloudy, raining, snowing, etc.): <u>Sunny, dry.</u> Was stormwater (e.g., runoff from rain or snowmelt) flowing at outfalls and/or discharge areas shown on the Site Map during the inspection? (Yes ☒ No) Comments: 		

I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AND BMP EVALUATION

SWPPP and Site Map: Have a copy of the SWPPP and site map with you during the inspection so that you can ensure they are current and accurate. Use it as an aide in recording the location of any issues you identify during the inspection. - Is the Site Map current and accurate? Yes - Is the SWPPP inventory of activities, materials and products current? Yes	Findings and Remedial Action Documentation: Describe any findings below and the schedule for remedial action completion including the date initiated and date completed or expected to be completed. SWPPP available at Grounds Facility and on University website.
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I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AND BMP EVALUATION

Vehicle/Equipment Areas

Equipment cleaning:

Is equipment washed and/or cleaned only in designated areas?

- Observe washing: Is all wash water captured and properly disposed of?

Equipment fueling:

- Are all fueling areas free of contaminant buildup and evidence of chronic leaks/spills?
- Are all chemical liquids, fluids, and petroleum products, on an impervious surface that is surrounded with a containment berm or dike that is capable of containing 10% of the total enclosed tank volume or 110% of the volume contained in the largest tank, whichever is greater?
- Are structures in place to prevent precipitation from accumulating in containment areas?
 - If not, is there any water or other fluids accumulated within the containment area?
 - Note: If containment areas are not covered to prevent water from accumulating, the SWPPP must include a plan describing how accumulated water will be managed and disposed of.

Equipment maintenance:

- Are maintenance tools, equipment and materials stored under shelter, elevated and covered?
- Are all drums and containers of fluids stored with proper cover and containment?
- Are exteriors of containers kept outside free of deposits?
- Are any vehicles and/or equipment leaking fluids? Identify leaking equipment.
- Is there evidence of leaks or spills since last inspection? Identify and address.
- Are materials, equipment, and activities located so that leaks are contained in existing containment and diversion systems (confine the storage of leaky or leak-prone vehicles and equipment awaiting maintenance to protected areas)?

Add any additional site-specific BMPs:

Findings and Remedial Action Documentation:

- N/A

I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AND BMP EVALUATION

Good Housekeeping BMPs

Are paved surfaces free of accumulated dust/sediment and debris?

- Date of last quarterly vacuum/sweep
- Are there areas of erosion or sediment/dust sources that discharge to storm drains?

Are all waste receptacles located outdoors:

- In good condition?
- Not leaking contaminants?
- Closed when is not being accessed?
- External surfaces and area free of excessive contaminant buildup?

Are the following areas free of accumulated dust/sediment, debris, contaminants, and/or spills/leaks of fluids?

- External dock areas
- Pallet, bin, and drum storage areas
- Maintenance shop(s)
- Equipment staging areas (loaders, tractors, trailers, forklifts, etc)
- Around bag-house(s)
- Around bone yards

Other areas of industrial activity:

Findings and Remedial Action Documentation:

- Flow paths visible from stockpiles.
- Sand spreading across lot parking lot/pavement.

Spill Response and Equipment

Are spill kits available, in the following locations?

- Fueling stations
- Transfer and mobile fueling units
- Vehicle and equipment maintenance areas

Do the spill kits contain all the permit required items?

- Oil absorbents capable of absorbing 15 gallons of fuel.
- A storm drain plug or cover kit.
- A non-water containment boom, a minimum of 10 feet in length with a 12 gallon absorbent capacity.
- A non-metallic shovel.
- Two five-gallon buckets with lids.

Are contaminated absorbent materials properly disposed of?

Findings and Remedial Action Documentation:

- N/A

I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AND BMP EVALUATION

General Material Storage Areas - Are damaged materials stored inside a building or another type of storm resistance shelter? - Are all uncontained material piles stored in a manner that does not allow discharge of impacted stormwater? - Are scrap metal bins covered? - Are outdoor containers covered?	Findings and Remedial Action Documentation: Stockpiles uncovered with no secondary containment and clear flow path visible.
Stormwater BMPs and Treatment Structures Visually inspect all stormwater BMPs and treatment structures devices, discharge areas infiltration and outfalls shown on the Site Map. - Are BMPs and treatment structures in good repair and operational? - Are BMPs and treatment structures free from debris buildup that may impair function? - The permit requires Permittees to clean catch basins when the depth of debris reaches 60% of the sump depth. In addition, the Permittee must keep the debris surface at least 6 inches below the outlet pipe. Based on this, do catch basins need to be cleaned? - Are berms, curbing or other methods used to divert and direct discharges adequate and in good condition?	Findings and Remedial Action Documentation: N/A

Observation of Stormwater Discharges - Is the discharge free of floating materials, visible oil sheen, discoloration, turbidity, odor, foam or any other signs of contamination? - Water from washing vehicles or equipment, steam cleaning and/or pressure washing is considered process wastewater and is not allowed to comeingle with stormwater or enter storm drains. Is process water comingling with stormwater or entering storm drains? Illicit discharges include domestic wastewater, noncontact cooling water, or process wastewater (including leachate). - Were any illicit discharges observed during the inspection?	Findings and Remedial Action Documentation: N/A
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II. CORRECTIVE ACTION AND SWPPP MODIFICATIONS DESCRIPTIONS:

Additional space to describe inspection findings and corrective actions if needed. Provide brief explanation of the general location and the rationale for the additional or different BMPs.

Cover stockpiles and provide secondary containment. Recommend sweeping sand from pavement.

Since the initial site inspection, the following hot spot issues of concern have been addressed:

III. CERTIFICATION STATEMENTS AND SIGNATURES:**Inspector – Certification**

This section must be completed by the person who conducted the site inspection prior to submitting this form to the person with signature authority or a duly authorized representative of that person.

- ☒ The facility is in compliance with the terms and conditions of the SWPPP and the CNU MS4 Permit.
- ☐ *The facility is out of compliance with the terms and conditions of the SWPPP and the CNU MS4 Permit. This report includes the remedial actions that must be taken to meet the requirements of the SWPPP and permit, including a schedule of implementation of the remedial actions.*

"I certify that this report is true, accurate, and complete, to the best of my knowledge and belief."

Marlene McGraw		DEQ Stormwater Management Inspector (SWIN2800)	06/04/2025
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Inspector's Name – Printed **Inspector's Signature** **Inspector's Title** **Date**

Permittee – Certification

- ☐ The facility is in compliance with the terms and conditions of the SWPPP and the CNU MS4 Permit.
- ☐ *The facility is out of compliance with the terms and conditions of the SWPPP and the CNU MS4 Permit. This report includes the remedial actions that must be taken to meet the requirements of the SWPPP and permit, including a schedule of implementation of the remedial actions.*

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

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PRINTED NAME of person with Signature Authority or a Duly Authorized Representative¹

SIGNATURE of person with Signature Authority or a Duly Authorized Representative¹

DATE

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ROUTINE VISUAL INSPECTION LOG

Date of Inspection: 5/22/25 Time of Inspection: 1:30pm

Name of Inspector (s): H. Fry, M. McGraw, C. San Juan

Signature of Inspector (s): _____

Inspection Period (Check One)

☐ 1st Quarter (January through March)

☒ 2nd Quarter (April through June)

☐ 3rd Quarter (July through September)

☐ 4th Quarter (October through December)

Weather conditions during inspection: Cloudy. Rained on May 21, 2025.

Any discharges occurring at time of inspection: ☐ Yes ☒ No

If Yes explain: _____

Any previously unidentified discharges of pollutants from the site: ☐ Yes ☒ No

If Yes explain: _____

Any control measures needing maintenance or repairs: ☒ Yes ☐ No

If Yes explain: Secondary containment damaged in some locations.

Any failed control measures that need replacement: ☐ Yes ☒ No

If Yes explain: _____

Any incidents of Noncompliance observed: ☒ Yes ☐ No

If Yes explain: Uncovered dumpster.

Any additional control measures needed to comply with the permit requirements: ☐ Yes ☒ No

If Yes explain: _____

In and around catch basin and outfalls

Catch basin / Outfalls free of debris

☐ Yes ☒ No

Any discharges

☐ Yes ☒ No

Any sheen or chemical odors evident on effluent

☐ Yes ☒ No

General Cleanliness of area

☒ Good ☐ Bad

Comments (Note specific outfall comment is for):

Minor trash accumulation around dumpsters.

Additional Comments:

Ensure lids remained closed on dumpsters when not in use.

Recommend repairs to secondary containment.

Recommend removal of trash accumulation around dumpsters.

ROUTINE VISUAL INSPECTION LOG

Date of Inspection: 5/22/25 Time of Inspection: 1:20pm

Name of Inspector (s): H. Fry, M. McGraw, C. San Juan

Signature of Inspector (s): _____

Inspection Period (Check One)

☐ 1st Quarter (January through March)

☒ 2nd Quarter (April through June)

☐ 3rd Quarter (July through September)

☐ 4th Quarter (October through December)

Weather conditions during inspection: Cloudy. Rained on May 21, 2025.

Any discharges occurring at time of inspection: ☐ Yes ☒ No

If Yes explain: _____

Any previously unidentified discharges of pollutants from the site: ☐ Yes ☒ No

If Yes explain: _____

Any control measures needing maintenance or repairs: ☒ Yes ☐ No

If Yes explain: Secondary containment does not reach the ground and is damaged in some locations.

Any failed control measures that need replacement: ☐ Yes ☒ No

If Yes explain: _____

Any incidents of Noncompliance observed: ☐ Yes ☒ No

If Yes explain: _____

Any additional control measures needed to comply with the permit requirements: ☐ Yes ☒ No

If Yes explain: _____

In and around catch basin and outfalls

Catch basin / Outfalls free of debris

☐ Yes ☒ No

Any discharges

☐ Yes ☒ No

Any sheen or chemical odors evident on effluent

☐ Yes ☒ No

General Cleanliness of area

☒ Good ☐ Bad

Comments (Note specific outfall comment is for):

Minor trash accumulation around dumpsters.

Additional Comments:

Recommend removal of trash accumulation around dumpsters.

Recommend repairs to secondary containment.

ROUTINE VISUAL INSPECTION LOG

Date of Inspection: 5/22/25 Time of Inspection: 1:40pm

Name of Inspector (s): H.Fry, M. McGraw, C. San Juan

Signature of Inspector (s): _____

Inspection Period (Check One)

☐ 1st Quarter (January through March)

☒ 2nd Quarter (April through June)

☐ 3rd Quarter (July through September)

☐ 4th Quarter (October through December)

Weather conditions during inspection: Cloudy. Rained on May 21, 2025.

Any discharges occurring at time of inspection: ☐ Yes ☒ No

If Yes explain: _____

Any previously unidentified discharges of pollutants from the site: ☐ Yes ☒ No

If Yes explain: _____

Any control measures needing maintenance or repairs: ☒ Yes ☐ No

If Yes explain: Secondary containment does not reach the ground and is damaged in some locations.

Any failed control measures that need replacement: ☐ Yes ☒ No

If Yes explain: _____

Any incidents of Noncompliance observed: ☒ Yes ☐ No

If Yes explain: Uncovered dumpster.

Any additional control measures needed to comply with the permit requirements: ☐ Yes ☒ No

If Yes explain: _____

In and around catch basin and outfalls

Catch basin / Outfalls free of debris

☒ Yes ☐ No

Any discharges

☐ Yes ☒ No

Any sheen or chemical odors evident on effluent

☐ Yes ☒ No

General Cleanliness of area

☒ Good ☐ Bad

Comments (Note specific outfall comment is for):

Area is well kept.

Additional Comments:

Good housekeeping signage about proper waste disposal present.

Ensure dumpsters are covered when not in use.

Recommend repairs to secondary containment.

ROUTINE VISUAL INSPECTION LOG

Date of Inspection: 5/22/25 Time of Inspection: 1:35pm

Name of Inspector (s): H. Fry, M. McGraw, C. San Juan

Signature of Inspector (s): _____

Haily Fry

Inspection Period (Check One)

☐ 1st Quarter (January through March)

☒ 2nd Quarter (April through June)

☐ 3rd Quarter (July through September)

☐ 4th Quarter (October through December)

Weather conditions during inspection: Cloudy. Rained on May 21, 2025.

Any discharges occurring at time of inspection: ☐ Yes ☒ No

If Yes explain: No active discharge at time of inspection, but staining is present indicating leaks have occurred.

Any previously unidentified discharges of pollutants from the site: ☐ Yes ☒ No

If Yes explain: _____

Any control measures needing maintenance or repairs: ☐ Yes ☒ No

If Yes explain: _____

Any failed control measures that need replacement: ☐ Yes ☒ No

If Yes explain: _____

Any incidents of Noncompliance observed: ☐ Yes ☒ No

If Yes explain: _____

Any additional control measures needed to comply with the permit requirements: ☐ Yes ☒ No

If Yes explain: _____

In and around catch basin and outfalls

Catch basin / Outfalls free of debris

☒ Yes ☐ No

Any discharges

☐ Yes ☒ No

Any sheen or chemical odors evident on effluent

☐ Yes ☒ No

General Cleanliness of area

☒ Good ☐ Bad

Comments (Note specific outfall comment is for):

Area is well kept.

Additional Comments:

Recommend power washing pavement to remove staining which will assist with spill identification in the future. Follow proper SOPs for pavement stain removal.

ROUTINE VISUAL INSPECTION LOG

Date of Inspection: 5/22/25 Time of Inspection: 3pm

Name of Inspector (s): H. Fry, M. McGraw, C. San Juan

Signature of Inspector (s): _____

Haily Fry

Inspection Period (Check One)

☐ 1st Quarter (January through March)

☒ 2nd Quarter (April through June)

☐ 3rd Quarter (July through September)

☐ 4th Quarter (October through December)

Weather conditions during inspection: Sunny. Rained on May 21, 2025.

Any discharges occurring at time of inspection: ☐ Yes ☐ No

If Yes explain: _____

Any previously unidentified discharges of pollutants from the site: ☐ Yes ☐ No

If Yes explain: _____

Any control measures needing maintenance or repairs: ☐ Yes ☐ No

If Yes explain: _____

Any failed control measures that need replacement: ☐ Yes ☐ No

If Yes explain: _____

Any incidents of Noncompliance observed: ☐ Yes ☐ No

If Yes explain: _____

Any additional control measures needed to comply with the permit requirements: ☐ Yes ☐ No

If Yes explain: _____

In and around catch basin and outfalls

Catch basin / Outfalls free of debris

☐ Yes

☐ No

Any discharges

☐ Yes

☐ No

Any sheen or chemical odors evident on effluent

☐ Yes

☐ No

General Cleanliness of area

☐ Good

☐ Bad

Comments (Note specific outfall comment is for):

Additional Comments:

This site should be retired, dumpster is no longer located here. It has been converted to a Goodwill drop off.

ROUTINE VISUAL INSPECTION LOG

Date of Inspection: 5/22/25 Time of Inspection: 1:00pm

Name of Inspector (s): H.Fry, M. McGraw, C. San Juan

Signature of Inspector (s): 

Inspection Period (Check One)

☐ 1st Quarter (January through March)

☒ 2nd Quarter (April through June)

☐ 3rd Quarter (July through September)

☐ 4th Quarter (October through December)

Weather conditions during inspection: Cloudy. Rained on May 21, 2025.

Any discharges occurring at time of inspection: ☐ Yes ☒ No

If Yes explain: _____

Any previously unidentified discharges of pollutants from the site: ☐ Yes ☒ No

If Yes explain: _____

Any control measures needing maintenance or repairs: ☒ Yes ☐ No

If Yes explain: Secondary containment damaged in some locations.

Any failed control measures that need replacement: ☐ Yes ☒ No

If Yes explain: _____

Any incidents of Noncompliance observed: ☒ Yes ☐ No

If Yes explain: Uncovered dumpster.

Any additional control measures needed to comply with the permit requirements: ☐ Yes ☒ No

If Yes explain: _____

In and around catch basin and outfalls

Catch basin / Outfalls free of debris

☐ Yes ☒ No

Any discharges

☐ Yes ☒ No

Any sheen or chemical odors evident on effluent

☐ Yes ☒ No

General Cleanliness of area

☒ Good ☐ Bad

Comments (Note specific outfall comment is for):

Minor trash accumulation around dumpsters.

Additional Comments:

Ensure lids remained closed on dumpsters when not in use.

Recommend repairs to secondary containment.

Recommend removal of trash accumulation around dumpsters.

ROUTINE VISUAL INSPECTION LOG

Date of Inspection: 5/22/25 Time of Inspection: 1:10pm

Name of Inspector (s): H.Fry, M. McGraw, C. San Juan

Signature of Inspector (s): _____

Inspection Period (Check One)

☐ 1st Quarter (January through March)

☒ 2nd Quarter (April through June)

☐ 3rd Quarter (July through September)

☐ 4th Quarter (October through December)

Weather conditions during inspection: Cloudy. Rained on May 21, 2025.

Any discharges occurring at time of inspection: ☐ Yes ☒ No

If Yes explain: Ponding outside of dumpster pad.

Any previously unidentified discharges of pollutants from the site: ☐ Yes ☒ No

If Yes explain: _____

Any control measures needing maintenance or repairs: ☒ Yes ☐ No

If Yes explain: Concrete dumpster pad is damaged.

Any failed control measures that need replacement: ☐ Yes ☒ No

If Yes explain: _____

Any incidents of Noncompliance observed: ☒ Yes ☐ No

If Yes explain: Uncovered dumpster.

Any additional control measures needed to comply with the permit requirements: ☐ Yes ☒ No

If Yes explain: _____

In and around catch basin and outfalls

Catch basin / Outfalls free of debris

☒ Yes

☐ No

Any discharges

☐ Yes

☒ No

Any sheen or chemical odors evident on effluent

☐ Yes

☒ No

General Cleanliness of area

☒ Good

☐ Bad

Comments (Note specific outfall comment is for):

Area is well kept. Dumpster not fully placed on dumpster pad.

Additional Comments:

Recommend further investigation to mitigate ponding.

Recommend repairs to dumpster pad.

Ensure lids remained closed on dumpsters when not in use.

Ensure dumpster is placed fully on dumpster pad.

ROUTINE VISUAL INSPECTION LOGDate of Inspection: 5/22/25 Time of Inspection: 4:15pmName of Inspector (s): H. Fry, M. McGraw, C. San JuanSignature of Inspector (s): 

Inspection Period (Check One)

☐ 1st Quarter (January through March)☒ 2nd Quarter (April through June)☐ 3rd Quarter (July through September)☐ 4th Quarter (October through December)Weather conditions during inspection: Sunny. Rained on May 21, 2025.

Any discharges occurring at time of inspection:

☒ Yes ☐ NoIf Yes explain: Grease/water mixture leaking from grease trap secondary containment.Hose actively discharging clean water from inside building.

Any previously unidentified discharges of pollutants from the site:

☐ Yes ☒ No

If Yes explain: _____

Any control measures needing maintenance or repairs:

☒ Yes ☐ NoIf Yes explain: Trench drain requires cleaning. Grease trap secondary containmentrequires cleaning/restoration.

Any failed control measures that need replacement:

☐ Yes ☒ NoIf Yes explain: Trash compactor replaced during inspection

Any incidents of Noncompliance observed:

☒ Yes ☐ NoIf Yes explain: Active discharge from building, active leak from grease trap, andunlabeled, inactive empty drums.

Any additional control measures needed to comply with the permit requirements:

☐ Yes ☒ No

If Yes explain: _____

In and around catch basin and outfalls

Catch basin / Outfalls free of debris

☐ Yes☒ No

Any discharges

☒ Yes☐ No

Any sheen or chemical odors evident on effluent

☐ Yes☒ No

General Cleanliness of area

☐ Good☒ Bad

Comments (Note specific outfall comment is for):

Trash and debris accumulation. Trench drain blocked with debris. Significant staining around grease trap and trash compactor.**Additional Comments:**Recommend power washing pavement to remove staining which will assist with spill identification in the future. Follow proper SOPs for pavement stain removal.Recommend additional training for dining staff.Recommend cleaning of trench drain and grease trap secondary containment.Recommend removal of trash accumulation.

ROUTINE VISUAL INSPECTION LOGDate of Inspection: 5/22/25 Time of Inspection: 4:00pmName of Inspector (s): H. Fry, M. McGraw, C. San Juan

Signature of Inspector (s): _____

Inspection Period (Check One)

☐ 1st Quarter (January through March)☒ 2nd Quarter (April through June)☐ 3rd Quarter (July through September)☐ 4th Quarter (October through December)Weather conditions during inspection: Sunny. Rained on May 21, 2025.Any discharges occurring at time of inspection: ☐ Yes ☒ No

If Yes explain: _____

Any previously unidentified discharges of pollutants from the site: ☐ Yes ☒ No

If Yes explain: _____

Any control measures needing maintenance or repairs: ☐ Yes ☒ No

If Yes explain: _____

Any failed control measures that need replacement: ☐ Yes ☒ No

If Yes explain: _____

Any incidents of Noncompliance observed: ☐ Yes ☒ No

If Yes explain: _____

Any additional control measures needed to comply with the permit requirements: ☐ Yes ☒ No

If Yes explain: _____

In and around catch basin and outfalls

Catch basin / Outfalls free of debris

☐ Yes☐ No

Any discharges

☐ Yes☐ No

Any sheen or chemical odors evident on effluent

☐ Yes☐ No

General Cleanliness of area

☐ Good☐ Bad

Comments (Note specific outfall comment is for):

Additional Comments:Actively under construction, inspected from afar. Appears fully functional.

ROUTINE VISUAL INSPECTION LOGDate of Inspection: 5/22/25 Time of Inspection: 3:45pmName of Inspector (s): H.Fry, M. McGraw, C. San Juan

Signature of Inspector (s): _____

Inspection Period (Check One)

☐ 1st Quarter (January through March)☒ 2nd Quarter (April through June)☐ 3rd Quarter (July through September)☐ 4th Quarter (October through December)Weather conditions during inspection: Sunny. Rained on May 21, 2025.

Any discharges occurring at time of inspection:

☒ Yes ☐ NoIf Yes explain: Dumpster actively leaking. Petroleum smell emanating from inlets in the area. Unable to locate source. Recommend filter bag for inlet.

Any previously unidentified discharges of pollutants from the site:

☐ Yes ☒ No

If Yes explain: _____

Any control measures needing maintenance or repairs:

☐ Yes ☒ No

If Yes explain: _____

Any failed control measures that need replacement:

☒ Yes ☐ NoIf Yes explain: Dumpster requires replacement.

Any incidents of Noncompliance observed:

☒ Yes ☐ NoIf Yes explain: Suspected illicit discharge.

Any additional control measures needed to comply with the permit requirements:

☒ Yes ☐ NoIf Yes explain: Recommend secondary containment for dumpsters.**In and around catch basin and outfalls**

Catch basin / Outfalls free of debris

☒ Yes ☐ No

Any discharges

☐ Yes ☒ No

Any sheen or chemical odors evident on effluent

☒ Yes ☐ No

General Cleanliness of area

☒ Good ☐ Bad

Comments (Note specific outfall comment is for):

Construction occurring in the surrounding area, which is assumed to be where the petroleum spill occurred.**Additional Comments:**Recommend secondary containment around dumpster.Recommend replacement of dumpster.Inlets require cleaning to remove petroleum spill, IDDE documentation and clean up procedures should be followed.

ROUTINE VISUAL INSPECTION LOGDate of Inspection: 5/22/25 Time of Inspection: 4:30pmName of Inspector (s): H. Fry, M. McGraw, C. San JuanSignature of Inspector (s): _____


Inspection Period (Check One)

☐ 1st Quarter (January through March)☒ 2nd Quarter (April through June)☐ 3rd Quarter (July through September)☐ 4th Quarter (October through December)Weather conditions during inspection: Sunny. Rained on May 21, 2025.

Any discharges occurring at time of inspection:

☐ Yes ☒ NoIf Yes explain: No active discharge at time of inspection, but staining is present indicating leaks have occurred.

Any previously unidentified discharges of pollutants from the site:

☐ Yes ☒ No

If Yes explain: _____

Any control measures needing maintenance or repairs:

☐ Yes ☒ No

If Yes explain: _____

Any failed control measures that need replacement:

☐ Yes ☒ No

If Yes explain: _____

Any incidents of Noncompliance observed:

☐ Yes ☒ No

If Yes explain: _____

Any additional control measures needed to comply with the permit requirements:

☐ Yes ☒ No

If Yes explain: _____

In and around catch basin and outfalls

Catch basin / Outfalls free of debris

☐ Yes ☒ No

Any discharges

☐ Yes ☒ No

Any sheen or chemical odors evident on effluent

☐ Yes ☒ No

General Cleanliness of area

☒ Good ☐ Bad

Comments (Note specific outfall comment is for):

Minor trash and debris accumulation around dumpster.**Additional Comments:**Recommend power washing pavement to remove staining which will assist with spill identification in the future. Follow proper SOPs for pavement stain removal.Recommend removal of trash accumulation around dumpsters.

ROUTINE VISUAL INSPECTION LOGDate of Inspection: 5/22/25 Time of Inspection: 4:50pmName of Inspector (s): H. Fry, M. McGraw, C. San JuanSignature of Inspector (s): 

Inspection Period (Check One)

☐ 1st Quarter (January through March)☒ 2nd Quarter (April through June)☐ 3rd Quarter (July through September)☐ 4th Quarter (October through December)Weather conditions during inspection: Sunny. Rained on May 21, 2025.Any discharges occurring at time of inspection: ☐ Yes ☒ No

If Yes explain: _____

Any previously unidentified discharges of pollutants from the site: ☐ Yes ☒ No

If Yes explain: _____

Any control measures needing maintenance or repairs: ☐ Yes ☒ No

If Yes explain: _____

Any failed control measures that need replacement: ☒ Yes ☐ NoIf Yes explain: Uncovered dumpster.Any incidents of Noncompliance observed: ☐ Yes ☒ No

If Yes explain: _____

Any additional control measures needed to comply with the permit requirements: ☐ Yes ☒ No

If Yes explain: _____

In and around catch basin and outfalls

Catch basin / Outfalls free of debris

☒ Yes☐ No

Any discharges

☐ Yes☒ No

Any sheen or chemical odors evident on effluent

☐ Yes☒ No

General Cleanliness of area

☒ Good☐ Bad

Comments (Note specific outfall comment is for):

Minor trash accumulation around dumpsters.**Additional Comments:**Recommend removal of trash accumulation around dumpsters.

ROUTINE VISUAL INSPECTION LOGDate of Inspection: 5/22/25 Time of Inspection: 4:45pmName of Inspector (s): H. Fry, M. McGraw, C. San JuanSignature of Inspector (s): _____


Inspection Period (Check One)

☐ 1st Quarter (January through March)☒ 2nd Quarter (April through June)☐ 3rd Quarter (July through September)☐ 4th Quarter (October through December)Weather conditions during inspection: Sunny. Rained on May 21, 2025.

Any discharges occurring at time of inspection:

☐ Yes ☒ No

If Yes explain: _____

Any previously unidentified discharges of pollutants from the site:

☐ Yes ☒ No

If Yes explain: _____

Any control measures needing maintenance or repairs:

☐ Yes ☒ No

If Yes explain: _____

Any failed control measures that need replacement:

☒ Yes ☐ NoIf Yes explain: Uncovered dumpster.

Any incidents of Noncompliance observed:

☐ Yes ☒ No

If Yes explain: _____

Any additional control measures needed to comply with the permit requirements:

☐ Yes ☒ No

If Yes explain: _____

In and around catch basin and outfalls

Catch basin / Outfalls free of debris

☒ Yes☐ No

Any discharges

☐ Yes☒ No

Any sheen or chemical odors evident on effluent

☐ Yes☒ No

General Cleanliness of area

☒ Good☐ Bad

Comments (Note specific outfall comment is for):

Area is well kept.**Additional Comments:**Ensure lids remained closed on dumpsters when not in use.

ROUTINE VISUAL INSPECTION LOG

Date of Inspection: 5/22/25 Time of Inspection: 4:45pm

Name of Inspector (s): H.Fry, M. McGraw, C. San Juan

Signature of Inspector (s): _____

Hailey Fry

Inspection Period (Check One)

☐ 1st Quarter (January through March)

☒ 2nd Quarter (April through June)

☐ 3rd Quarter (July through September)

☐ 4th Quarter (October through December)

Weather conditions during inspection: Sunny. Rained on May 21, 2025.

Any discharges occurring at time of inspection: ☒ Yes ☐ No

If Yes explain: Grease leaking from grease trap. Staining is present.

Any previously unidentified discharges of pollutants from the site: ☐ Yes ☒ No

If Yes explain: _____

Any control measures needing maintenance or repairs: ☒ Yes ☐ No

If Yes explain: Secondary containment damaged in some locations.

Any failed control measures that need replacement: ☐ Yes ☒ No

If Yes explain: _____

Any incidents of Noncompliance observed: ☐ Yes ☒ No

If Yes explain: _____

Any additional control measures needed to comply with the permit requirements: ☐ Yes ☒ No

If Yes explain: _____

In and around catch basin and outfalls

Catch basin / Outfalls free of debris

☒ Yes ☐ No

Any discharges

☒ Yes ☐ No

Any sheen or chemical odors evident on effluent

☐ Yes ☒ No

General Cleanliness of area

☒ Good ☐ Bad

Comments (Note specific outfall comment is for):

Area is well kept.

Additional Comments:

Recommend power washing pavement to remove staining which will assist with spill identification in the future. Follow proper SOPs for pavement stain removal.

Recommend repairs to secondary containment.

Christopher Newport University
Annual SWPPP Inspections Photo Log
May 2025

Athletics Department Operations



Photo #1: Uncovered dumpsters and debris accumulation



Photo #2: Covered and uncovered dumpsters



Photo #3: Debris accumulation in receptacle area



Photo #4: Materials storage and debris accumulation in receptacle area



Photo #5: Uncovered and punctured barrels



Photo #6: Uncovered materials storage area



Photo #7: Uncovered stockpiles near receptacle area



Photo #8: Uncovered equipment and debris near receptacle area



Photo #9: Ponding present near uncovered stockpiles

Grounds Department



Photo #1: Partially covered and contained stockpiles



Photo #2: Uncovered stockpile



Photo #3: Flow paths from stockpiles present



Photo #4: Uncovered equipment



Photo #5: Water accumulated in equipment



Photo #6: Uncovered material storage



Photo #7: Covered dumpster with no secondary containment



Photo #8: Uncovered materials storage



Photo #9: Covered equipment, materials, and storage area



Photo #10: Covered fueling area with secondary containment and spill kit



Photo #11: Elevated containers in secondary containment



Photo #12: Uncovered equipment storage



Photo #13: Sediment accumulation



Photo #14: Covered equipment and materials storage



Photo #15: Broken and leaking equipment



Photo #16: Uncovered dumpster with no secondary containment and debris accumulation

Plant Operations Building



Photo #1: Uncovered material storage area



Photo #2: Material storage area



Photo #3: Materials storage area



Photo #4: Materials storage area



Photo #5: Uncovered, unlabeled barrel



Photo #6: Uncovered batteries



Photo #7: Uncovered dumpster



Photo #8: Active discharge from dumpster



Photo #9: Rust stains and active discharge from dumpster

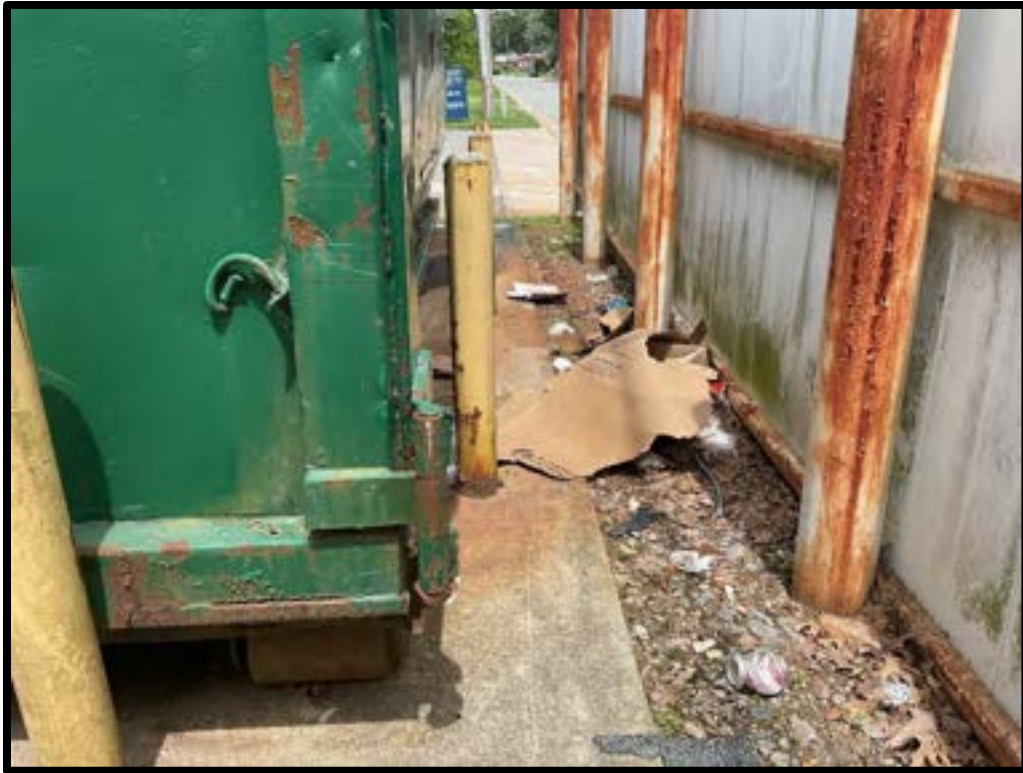


Photo #10: Debris accumulation



Photo #11: Inlet downstream of leaking dumpster



Photo #12: Uncovered dumpster lacking secondary containment



Photo #13: Loading dock and debris accumulation

Parking Lot G



Photo #1: Uncovered stockpile



Photo #2: High risk inlet



Photo #3: Sediment tracking onto parking lot from baseball field operations



Photo #4: Uncovered stockpile

Soccer Field



Photo #1: Uncovered stockpiles



Photo #2: Sediment tracking onto parking lot from active baseball field operations



Photo #3: Back side of uncovered stockpiles

CNU Apartments- 1



Photo #1: Covered and uncovered dumpsters and minor debris accumulation



Photo #2: Damaged secondary containment

CNU Apartments- 2



Photo #1: Covered and uncovered dumpsters and minor debris accumulation



Photo #2: Secondary containment does not reach ground



Photo #3: Damaged secondary containment

CNU Apartments-3



Photo #1: Covered and uncovered dumpsters



Photo #2: Damaged secondary containment



Photo #3: Secondary containment does not reach ground, Educational signage present



Photo #4: Uncovered dumpster lacking secondary containment

CNU Apartment-4



Photo #1: Staining around grease trap and trash compactor

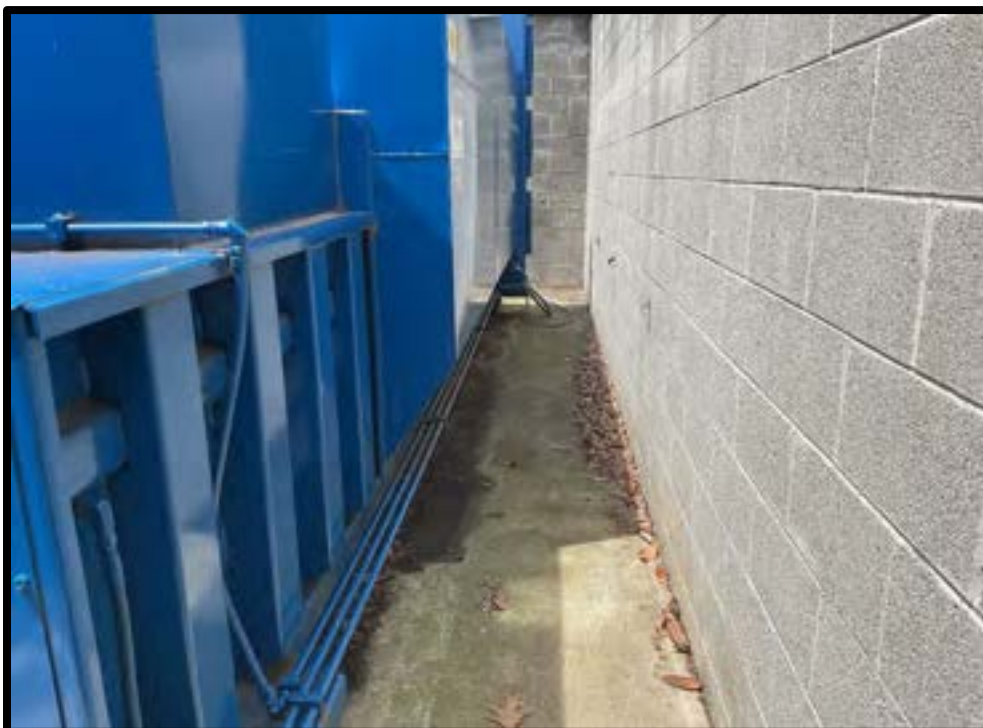


Photo #2: Staining around trash compactor

CNU Apartments-5



Photo #1: Significant road grit accumulation and concrete pad damage



Photo #2: Dumpster area converted to Goodwill Donations area

CNU Apartments-6



Photo #1: Covered and uncovered dumpsters and minor debris accumulation



Photo #2: Damaged secondary containment



Photo #3: Damaged secondary containment

CNU Apartments-7



Photo #1: Significant ponding outside of secondary containment



Photo #2: Uncovered dumpster and staining



Photo #3: Damaged secondary containment and concrete pad

David Street Union



Photo #1: Loading/Unloading Area



Photo #2: Debris accumulation at trench drain



Photo #3: Grease trap leaking and staining



Photo #4: Grease trap secondary containment full of grease and water



Photo #5: Hose discharging from inside building



Photo #6: Uncovered, unlabeled barrel



Photo #7: Container and materials storage



Photo #8: Trash compactor replacement during inspection

Ferguson Center-1



Photo #1: Construction stockpiles

Ferguson Center-2



Photo #1: Loading/Unloading Area



Photo #2: Petroleum smell from first inlet



Photo #3: Petroleum stains around second inlet

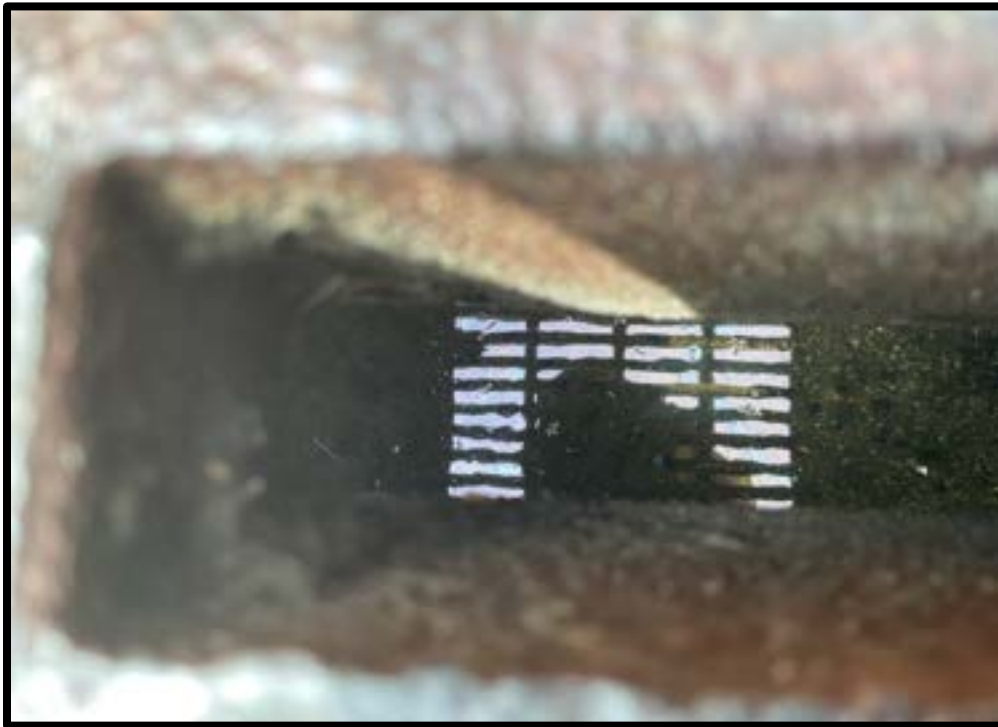


Photo #4: Petroleum sheens in inlet



Photo #5: Petroleum smell from third inlet



Photo #6: Accumulated debris



Photo #7: Discharge from receptacle

Freeman Center



Photo #1: Staining on pavement



Photo #2: Accumulated Debris



Photo #3: Materials storage and covered dumpster



Photo #4: Loading/Unloading Area and material storage

Greek Village



Photo #1: Covered and uncovered dumpsters



Photo #2: Uncovered dumpster, staining and debris accumulation

James River Hall



Photo #1: Covered and uncovered dumpsters



Photo #2: Uncovered dumpster, staining present

Hyden-Hussey Commons



Photo #1: Trash compactor



Photo #2: Materials storage



Photo #3: Staining present and damaged secondary containment



Photo #4: Leaking grease trap

Travis A. Voyles
Secretary of Natural and Historic Resources

Matthew S. Wells
Director

Andrew W. Smith
Chief Deputy Director



COMMONWEALTH of VIRGINIA
DEPARTMENT OF CONSERVATION AND RECREATION

Frank N. Stovall
*Deputy Director
for Operations*

Darryl Glover
*Deputy Director for
Dam Safety,
Floodplain Management and
Soil and Water Conservation*

Laura Ellis
*Deputy Director for
Administration and Finance*

May 6, 2024

Date Received by DCR 5/2/2024

Chris Webb
Christopher Newport University Athletics
1 Avenue of the Arts
Newport News VA 23606

Your nutrient management plan (NMP) dated 5/6/2024 located in the City of Newport News has been approved by the Virginia Department of Conservation and Recreation (DCR). The approved plan is for 17 acres. Only nutrient recommendations for applications to be made after the date of this letter are approved by this letter. Your NMP was written by Chris Webb, a nutrient management planner certified by DCR.

This site has not been inspected by DCR and this approval is contingent upon site conditions being as stated in the NMP. Any revisions to this plan must be approved by DCR. Any change in personnel resulting in a change to the plan manager should be reported to the Certified Nutrient Management Planner who will then make DCR aware. Please note that this letter should be kept with the NMP and supporting documentation including nutrient application records. This plan expires on 5/6/2027. Please feel free to contact me with any questions or concerns regarding this approval.

Best regards,

A handwritten signature in cursive script, reading "Anita Tuttle".

Anita Tuttle
Urban Nutrient Management Coordinator
Division of Soil and Water Conservation
600 East Main Street, 24th Floor
Richmond VA 23219
(804) 513-5958

Travis A. Voyles
Secretary of Natural and Historic Resources

Matthew S. Wells
Director

Andrew W. Smith
Chief Deputy Director



COMMONWEALTH of VIRGINIA
DEPARTMENT OF CONSERVATION AND RECREATION

Frank N. Stovall
*Deputy Director
for Operations*

Darryl Glover
*Deputy Director for
Dam Safety,
Floodplain Management and
Soil and Water Conservation*

Laura Ellis
*Deputy Director for
Administration and Finance*

July 23, 2024

Date Received by DCR 07/05/2024

Christopher Newport University - Grounds
Christopher Newport University
1 Avenue of the Arts
Newport News, VA 23606

Your nutrient management plan (NMP) dated 07/05/2024 located in the City of Newport News has been approved by the Virginia Department of Conservation and Recreation (DCR). The approved plan is for 48.0 acres. Only nutrient recommendations for applications to be made after the date of this letter are approved by this letter. Your NMP was written by Dean Whitehead, a nutrient management planner certified by DCR.

This site has not been inspected by DCR and this approval is contingent upon site conditions being as stated in the NMP. Any revisions to this plan must be approved by DCR. Any change in personnel resulting in a change to the plan manager should be reported to the Certified Nutrient Management Planner who will then make DCR aware. Please note that this letter should be kept with the NMP and supporting documentation including nutrient application records. This plan expires on 07/05/2027. Please feel free to contact me with any questions or concerns regarding this approval.

Best regards,

Gonzalo Ortiz

Gonzalo Ortiz
Urban Nutrient Management Specialist
Division of Soil and Water Conservation
600 East Main Street, 24th Floor
Richmond VA 23219
(804) 217-2010

Training Materials and Attendance

Please watch the following videos created by the local Hampton Roads Planning District Commission's project completion survey below:

IDDEV de - Identify gillnet Discardages to the Coastal Plain (~16 miles)
<https://www.youtube.com/watch?v=N8Ng90PL7Tk>

IDDEV de - Tracking & Eliminating gillnet Discardages to the Coastal Plain (~12 miles)
<https://www.youtube.com/watch?v=jTTNWNM8LWc>

CNU IDDE Survey <https://www.surveymonkey.com/r/NFZLW2K>

Q1 Name

Answered: 81 Skipped: 0

#	RESPONSES	DATE
1	David K Watkins	6/6/2025 12:58 PM
2	David Waynick	5/29/2025 8:01 AM
3	Ryan Willard	5/28/2025 1:59 PM
4	Gregory	5/28/2025 7:29 AM
5	james	5/22/2025 9:54 AM
6	Michael Rittenhouse	5/21/2025 3:16 PM
7	Robert Mays	5/21/2025 8:25 AM
8	Edward Smith	5/17/2025 10:02 AM
9	Brian Kelly	5/17/2025 10:01 AM
10	Edward Lattimore	5/17/2025 9:07 AM
11	June Miles	5/13/2025 1:18 PM
12	Dean Whitehead	4/11/2025 2:45 PM
13	Matt Yarborough	4/11/2025 1:47 PM
14	antonio	3/26/2025 11:48 AM
15	Amena Sadat	3/12/2025 9:27 AM
16	preston jackson	3/11/2025 3:20 PM
17	wallace andrews	3/7/2025 2:10 PM
18	Thomasina Williams	3/7/2025 9:45 AM
19	mona mccoy	3/7/2025 8:57 AM
20	Anthony Scott Lewis	3/6/2025 3:05 PM
21	virginia Simmons	3/6/2025 1:48 PM
22	TRACY SMITH	3/5/2025 2:22 PM
23	Anthony Gatling	3/5/2025 2:06 PM
24	Chris Cooper	3/5/2025 11:38 AM
25	Tenisha Bailey	3/4/2025 11:45 AM
26	Sherrod Jones	3/4/2025 10:48 AM
27	Rachel McCallum-Jones	3/3/2025 4:52 PM
28	Michael Carter	3/3/2025 11:05 AM
29	Cornelius Colbert	3/2/2025 2:47 PM
30	Beatrice Wright	3/1/2025 7:35 AM
31	marjan behsoodi	2/28/2025 8:42 AM
32	Barbara Garrett	2/28/2025 8:30 AM
33	Vironica B. Smith	2/27/2025 1:38 PM

CNU IDDE

34	Shaniqua Smith	2/27/2025 11:46 AM
35	Devan Overall	2/27/2025 8:44 AM
36	lester ratliff	2/27/2025 8:06 AM
37	Matthew Wilson	2/26/2025 2:12 PM
38	Auturo McClendon	2/25/2025 1:56 PM
39	Barbara Smith	2/25/2025 1:42 PM
40	lester ratliff	2/25/2025 9:31 AM
41	Theresa Lassiter	2/25/2025 8:20 AM
42	Ashton Simmons	2/25/2025 7:41 AM
43	shawn Cuff	2/24/2025 3:05 PM
44	Roger Williams	2/23/2025 10:39 AM
45	Jackie Roquemore	2/21/2025 3:41 PM
46	Kevin McDermott	2/20/2025 6:09 PM
47	Jennifer Jordan	2/20/2025 3:04 PM
48	Jason Correiro	2/20/2025 2:42 PM
49	Ceola Canty	2/20/2025 2:42 PM
50	Mark Bleakley	2/20/2025 2:31 PM
51	theresa walker	2/20/2025 6:20 AM
52	Severin Newsom	2/18/2025 8:20 AM
53	Marquis Harris	2/18/2025 7:28 AM
54	Kevin McDermott	2/17/2025 4:35 PM
55	Taryn Boone	2/17/2025 9:37 AM
56	Mark Hesse	2/17/2025 8:02 AM
57	shaun	2/17/2025 7:24 AM
58	Janet Schnell	2/14/2025 1:44 PM
59	Tina Marie	2/14/2025 12:59 PM
60	Eugene	2/14/2025 11:56 AM
61	June Lessard-LaRoche	2/14/2025 11:34 AM
62	daryl norwood	2/13/2025 4:06 PM
63	douglas	2/13/2025 3:39 PM
64	Lena Page	2/13/2025 1:35 PM
65	ferando fox	2/13/2025 1:32 PM
66	Jenner Thomas	2/13/2025 11:55 AM
67	Phil Melillo	2/13/2025 11:37 AM
68	Becca Dhume	2/13/2025 11:17 AM
69	Travis H. Baker	2/13/2025 10:46 AM
70	Lavar Tillery	2/13/2025 9:51 AM
71	Peter Kay	2/13/2025 9:07 AM

72	Treyvon Woods	2/13/2025 8:55 AM
73	Luke Bondurant	2/13/2025 8:45 AM
74	Nick Bransford	2/13/2025 8:05 AM
75	WILBERT ESCORCIA	2/13/2025 8:04 AM
76	Nathan Smith	2/13/2025 7:55 AM
77	Jalen Coles	2/13/2025 7:42 AM
78	Sherwood Denmon	2/13/2025 7:27 AM
79	Chris Webb	2/13/2025 7:04 AM
80	Jennifer Fowler	2/12/2025 3:16 PM
81	Michael Tellish	1/16/2025 10:03 AM

Q2 Department

Answered: 81 Skipped: 0

#	RESPONSES	DATE
1	Grounds	6/6/2025 12:58 PM
2	Grounds	5/29/2025 8:01 AM
3	Grounds	5/28/2025 1:59 PM
4	Grounds	5/28/2025 7:29 AM
5	grounds	5/22/2025 9:54 AM
6	Grounds	5/21/2025 3:16 PM
7	Grounds	5/21/2025 8:25 AM
8	Grounds Department	5/17/2025 10:02 AM
9	Grounds	5/17/2025 10:01 AM
10	Grounds	5/17/2025 9:07 AM
11	Dining Services	5/13/2025 1:18 PM
12	Grounds	4/11/2025 2:45 PM
13	Grounds	4/11/2025 1:47 PM
14	moore	3/26/2025 11:48 AM
15	Housing	3/12/2025 9:27 AM
16	facility management	3/11/2025 3:20 PM
17	housing	3/7/2025 2:10 PM
18	Housekeeper	3/7/2025 9:45 AM
19	housing	3/7/2025 8:57 AM
20	Facilites	3/6/2025 3:05 PM
21	housekeeping	3/6/2025 1:48 PM
22	HOUSING HOUSEKEEPING	3/5/2025 2:22 PM
23	Housing	3/5/2025 2:06 PM

CNU IDDE

24	Housing	3/5/2025 11:38 AM
25	Housing	3/4/2025 11:45 AM
26	Housing	3/4/2025 10:48 AM
27	Catering	3/3/2025 4:52 PM
28	Housing	3/3/2025 11:05 AM
29	Housekeeping	3/2/2025 2:47 PM
30	Housing	3/1/2025 7:35 AM
31	housing	2/28/2025 8:42 AM
32	Housing	2/28/2025 8:30 AM
33	Housing	2/27/2025 1:38 PM
34	Housing	2/27/2025 11:46 AM
35	Housekeeping	2/27/2025 8:44 AM
36	housekeeping	2/27/2025 8:06 AM
37	Auxiliary- catering	2/26/2025 2:12 PM
38	housekeeping	2/25/2025 1:56 PM
39	Housing	2/25/2025 1:42 PM
40	housekeeping	2/25/2025 9:31 AM
41	Housing	2/25/2025 8:20 AM
42	Housing	2/25/2025 7:41 AM
43	Housing	2/24/2025 3:05 PM
44	Auxiliary Services	2/23/2025 10:39 AM
45	EHS	2/21/2025 3:41 PM
46	Catering	2/20/2025 6:09 PM
47	Catering	2/20/2025 3:04 PM
48	Catering	2/20/2025 2:42 PM
49	Catering	2/20/2025 2:42 PM
50	Catering Services	2/20/2025 2:31 PM
51	freeman center	2/20/2025 6:20 AM
52	Facilities	2/18/2025 8:20 AM
53	Housing	2/18/2025 7:28 AM
54	Catering	2/17/2025 4:35 PM
55	Auxiliary Services	2/17/2025 9:37 AM
56	CNU Facilities Management	2/17/2025 8:02 AM
57	freeman Center	2/17/2025 7:24 AM
58	Housekeeping	2/14/2025 1:44 PM
59	Freeman	2/14/2025 12:59 PM
60	Freeman Center	2/14/2025 11:56 AM
61	catering	2/14/2025 11:34 AM

CNU IDDE

62	maintenance	2/13/2025 4:06 PM
63	housing	2/13/2025 3:39 PM
64	facilites	2/13/2025 1:35 PM
65	facilities	2/13/2025 1:32 PM
66	grounds	2/13/2025 11:55 AM
67	Facilities	2/13/2025 11:37 AM
68	Grounds	2/13/2025 11:17 AM
69	GROUPS	2/13/2025 10:46 AM
70	Grpunds	2/13/2025 9:51 AM
71	Freeman Center	2/13/2025 9:07 AM
72	Grounds	2/13/2025 8:55 AM
73	Grounds	2/13/2025 8:45 AM
74	Grounds	2/13/2025 8:05 AM
75	Grounds	2/13/2025 8:04 AM
76	Grounds	2/13/2025 7:55 AM
77	Grounds	2/13/2025 7:42 AM
78	Housing	2/13/2025 7:27 AM
79	Grounds	2/13/2025 7:04 AM
80	Grounds	2/12/2025 3:16 PM
81	EHS	1/16/2025 10:03 AM

Q3 Date

Answered: 81 Skipped: 0

ANSWER CHOICES		RESPONSES
Date / Time		100.00% 81
#	DATE / TIME	DATE
1	06/06/2025	6/6/2025 12:58 PM
2	05/29/2025	5/29/2025 8:01 AM
3	05/28/2025	5/28/2025 1:59 PM
4	05/28/2025	5/28/2025 7:29 AM
5	05/22/2025	5/22/2025 9:54 AM
6	05/21/2025	5/21/2025 3:16 PM
7	05/21/2025	5/21/2025 8:25 AM
8	05/17/2025	5/17/2025 10:02 AM
9	05/17/2025	5/17/2025 10:01 AM
10	05/17/2025	5/17/2025 9:07 AM

CNU IDDE

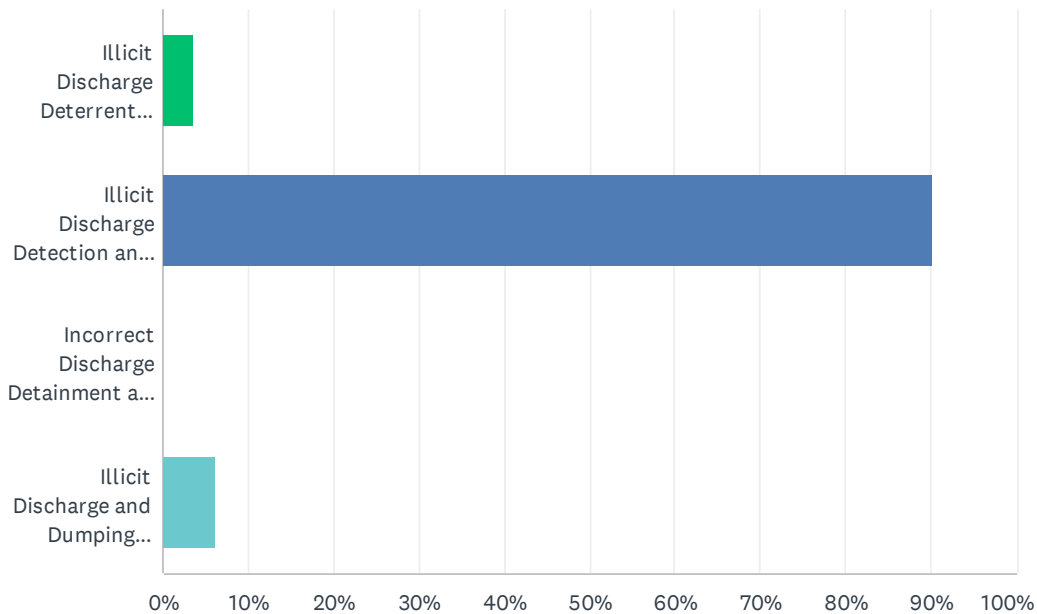
11	05/13/2025	5/13/2025 1:18 PM
12	04/11/2025	4/11/2025 2:45 PM
13	04/11/2025	4/11/2025 1:47 PM
14	03/26/2025	3/26/2025 11:48 AM
15	03/12/2025	3/12/2025 9:27 AM
16	03/11/2025	3/11/2025 3:20 PM
17	03/07/2025	3/7/2025 2:10 PM
18	03/07/2025	3/7/2025 9:45 AM
19	03/07/2025	3/7/2025 8:57 AM
20	03/06/2025	3/6/2025 3:05 PM
21	03/06/2025	3/6/2025 1:48 PM
22	03/05/2025	3/5/2025 2:22 PM
23	03/05/2025	3/5/2025 2:06 PM
24	03/05/2025	3/5/2025 11:38 AM
25	03/04/2025	3/4/2025 11:45 AM
26	03/04/2025	3/4/2025 10:48 AM
27	03/03/2025	3/3/2025 4:52 PM
28	03/03/2025	3/3/2025 11:05 AM
29	03/02/2025	3/2/2025 2:47 PM
30	03/01/2025	3/1/2025 7:35 AM
31	02/28/2025	2/28/2025 8:42 AM
32	02/28/2025	2/28/2025 8:30 AM
33	02/27/2025	2/27/2025 1:38 PM
34	02/27/2025	2/27/2025 11:46 AM
35	02/27/2025	2/27/2025 8:44 AM
36	02/27/2025	2/27/2025 8:06 AM
37	02/26/2025	2/26/2025 2:12 PM
38	02/25/2025	2/25/2025 1:56 PM
39	02/25/2025	2/25/2025 1:42 PM
40	02/25/2025	2/25/2025 9:31 AM
41	02/25/2025	2/25/2025 8:20 AM
42	02/25/2025	2/25/2025 7:41 AM
43	02/24/2025	2/24/2025 3:05 PM
44	02/23/2025	2/23/2025 10:39 AM
45	02/21/2025	2/21/2025 3:41 PM
46	02/20/2025	2/20/2025 6:09 PM
47	02/20/2025	2/20/2025 3:04 PM
48	02/20/2025	2/20/2025 2:42 PM

CNU IDDE

49	02/20/2025	2/20/2025 2:42 PM
50	02/20/2025	2/20/2025 2:31 PM
51	02/20/2025	2/20/2025 6:20 AM
52	02/18/2025	2/18/2025 8:20 AM
53	02/18/2025	2/18/2025 7:28 AM
54	02/17/2025	2/17/2025 4:35 PM
55	02/17/2025	2/17/2025 9:37 AM
56	02/17/2025	2/17/2025 8:02 AM
57	02/17/2025	2/17/2025 7:24 AM
58	02/14/2025	2/14/2025 1:44 PM
59	02/14/2025	2/14/2025 12:59 PM
60	02/14/2025	2/14/2025 11:56 AM
61	02/14/2025	2/14/2025 11:34 AM
62	02/13/2025	2/13/2025 4:06 PM
63	02/13/2025	2/13/2025 3:39 PM
64	02/13/2025	2/13/2025 1:35 PM
65	02/13/2025	2/13/2025 1:32 PM
66	02/13/2025	2/13/2025 11:55 AM
67	02/13/2025	2/13/2025 11:37 AM
68	02/13/2025	2/13/2025 11:17 AM
69	02/13/2025	2/13/2025 10:46 AM
70	02/13/2025	2/13/2025 9:51 AM
71	02/13/2025	2/13/2025 9:07 AM
72	02/13/2025	2/13/2025 8:55 AM
73	02/13/2025	2/13/2025 8:45 AM
74	02/13/2025	2/13/2025 8:05 AM
75	02/13/2025	2/13/2025 8:04 AM
76	02/13/2025	2/13/2025 7:55 AM
77	02/13/2025	2/13/2025 7:42 AM
78	02/13/2025	2/13/2025 7:27 AM
79	02/13/2025	2/13/2025 7:04 AM
80	02/12/2025	2/12/2025 3:16 PM
81	01/16/2025	1/16/2025 10:03 AM

Q4 What does IDDE stand for?

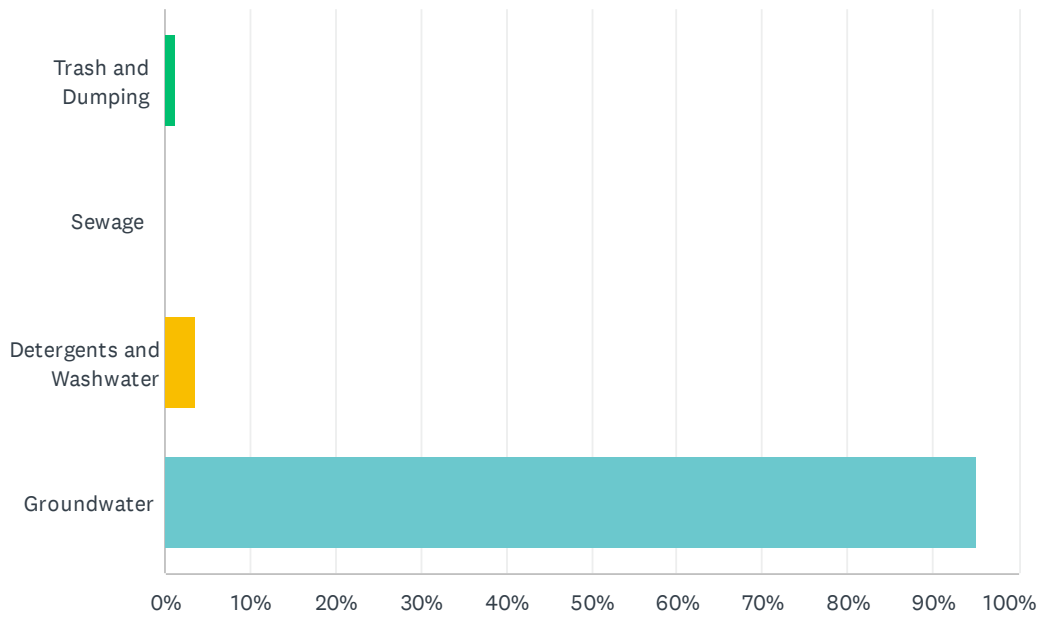
Answered: 81 Skipped: 0



ANSWER CHOICES	RESPONSES	
Illicit Discharge Deterrent Entity	3.70%	3
Illicit Discharge Detection and Elimination	90.12%	73
Incorrect Discharge Detainment and Extraction	0.00%	0
Illicit Discharge and Dumping Eradication	6.17%	5
TOTAL		81

Q5 Which of the following is NOT considered a pollutant?

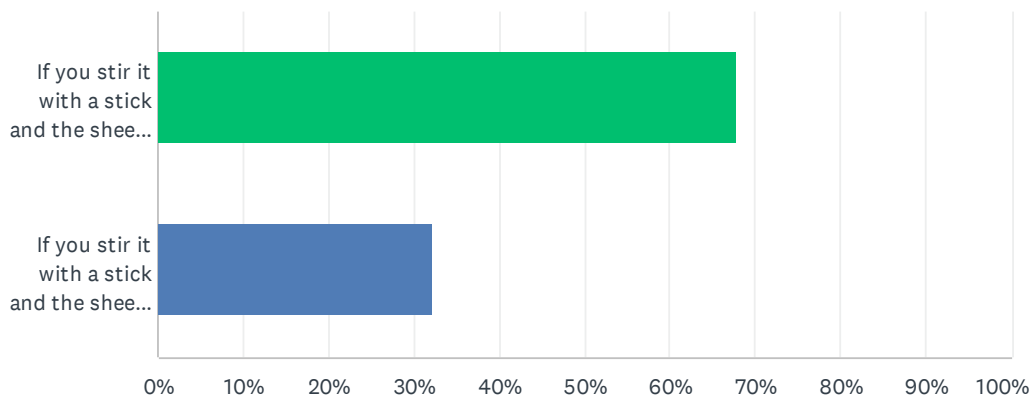
Answered: 81 Skipped: 0



ANSWER CHOICES	RESPONSES	
Trash and Dumping	1.23%	1
Sewage	0.00%	0
Detergents and Washwater	3.70%	3
Groundwater	95.06%	77
TOTAL		81

Q6 How can you tell if something that looks like a petroleum sheen is naturally occurring or not?

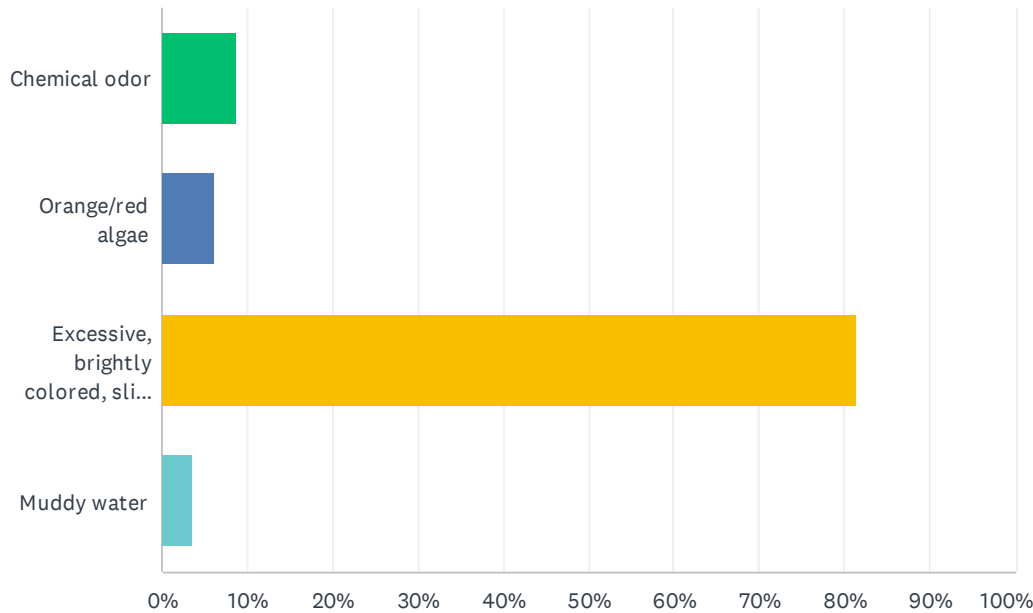
Answered: 81 Skipped: 0



ANSWER CHOICES	RESPONSES	
If you stir it with a stick and the sheen breaks into patches it is natural	67.90%	55
If you stir it with a stick and the sheen comes back together it is natural	32.10%	26
TOTAL		81

Q7 What are indicators show that too much fertilizer has made it into stormwater?

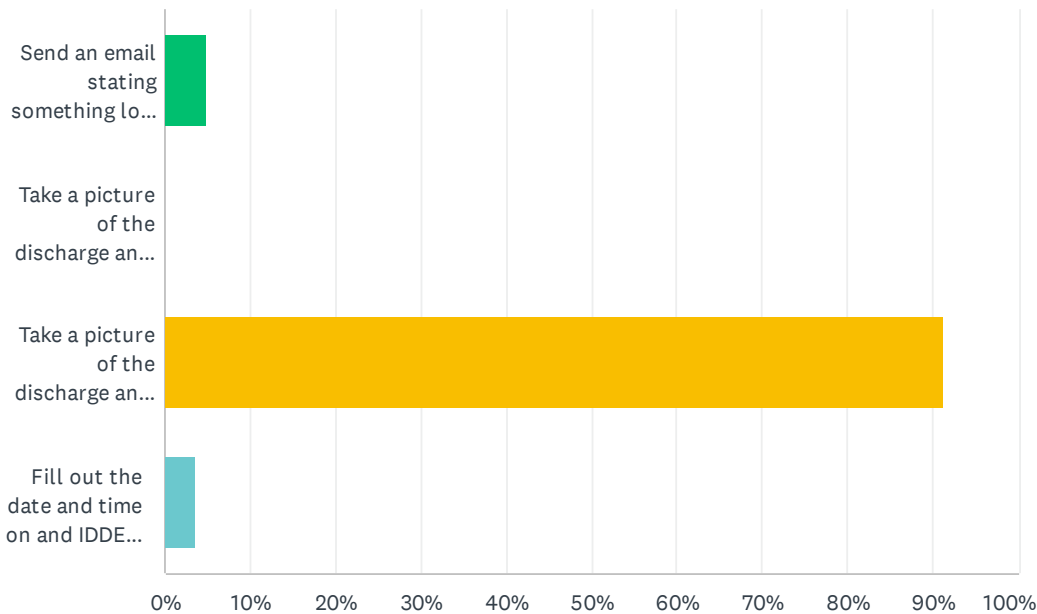
Answered: 81 Skipped: 0



ANSWER CHOICES	RESPONSES	
Chemical odor	8.64%	7
Orange/red algae	6.17%	5
Excessive, brightly colored, slimy or foamy, unusual algae growth	81.48%	66
Muddy water	3.70%	3
TOTAL		81

Q8 If you come across something you believe is an illicit discharge, that is not an emergency, how should you document it?

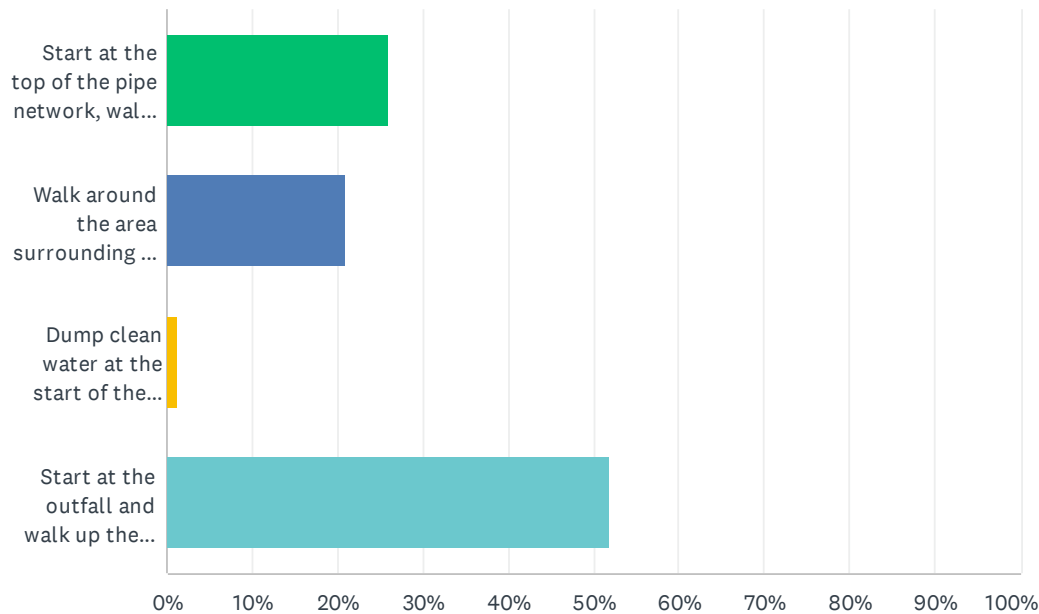
Answered: 81 Skipped: 0



ANSWER CHOICES	RESPONSES	
Send an email stating something looks weird	4.94%	4
Take a picture of the discharge and site just in case someone asks if you saw something	0.00%	0
Take a picture of the discharge and site, record the date, time and specific location of the potential illicit discharge on an IDDE field form	91.36%	74
Fill out the date and time on and IDDE field form but leave all other information blank	3.70%	3
TOTAL		81

Q9 How do you isolate where a potential illicit discharge is coming from?

Answered: 81 Skipped: 0

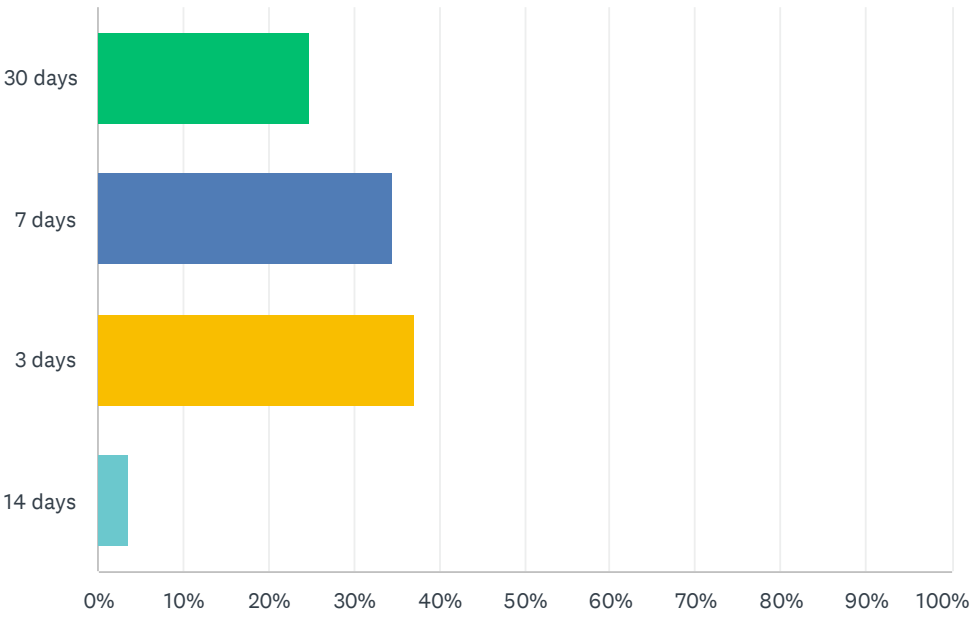


ANSWER CHOICES	RESPONSES	
Start at the top of the pipe network, walk toward the outfall and open manholes until you find flow	25.93%	21
Walk around the area surrounding the outfall until you find a potential source	20.99%	17
Dump clean water at the start of the pipe network to see if it washes the potential source away	1.23%	1
Start at the outfall and walk up the pipe network until you are able to isolate flow between 2 manholes	51.85%	42
TOTAL		81

Q10 How long does the responsible party have to address a confirmed illicit discharge?

Answered: 81 Skipped: 0

CNU IDDE



ANSWER CHOICES	RESPONSES	
30 days	24.69%	20
7 days	34.57%	28
3 days	37.04%	30
14 days	3.70%	3
TOTAL		81

Please watch the following video created by Virginia Department
Transportation project completion of the survey question below:
Good Housekeeping and Pollution Prevention Video - VDOT Good
Housekeeping and Pollution Prevention Training (~8 min)
(<https://www.youtube.com/watch?v=UMjwckRz8>)

CNUC Good Housekeeping Survey
(<https://www.surveymonkey.com/r/M9ZFKGC>)

Q1 Name

Answered: 83 Skipped: 0

#	RESPONSES	DATE
1	David K Watkins	6/6/2025 12:35 PM
2	David Waynick	5/29/2025 8:13 AM
3	Ryan Willard	5/28/2025 1:21 PM
4	Gregory Edler	5/28/2025 7:22 AM
5	Michael Rittenhouse	5/21/2025 2:53 PM
6	Edward	5/21/2025 12:00 PM
7	WILBERT ESCORCIA	5/21/2025 10:55 AM
8	james gregory terry	5/17/2025 11:31 AM
9	Brian Kelly	5/17/2025 10:15 AM
10	Edward Lattimore	5/17/2025 8:59 AM
11	June Miles	5/13/2025 1:08 PM
12	Dean Whitehead	4/11/2025 2:06 PM
13	Matt Yarborough	4/11/2025 1:14 PM
14	Amena Sadat	3/12/2025 9:25 AM
15	preston jackson	3/11/2025 3:14 PM
16	wallace andrews	3/7/2025 2:32 PM
17	Thomasina Williams	3/7/2025 10:07 AM
18	mona mccoy	3/7/2025 9:00 AM
19	Anthony Scott Lewis	3/6/2025 2:32 PM
20	virginia Simmons	3/6/2025 1:23 PM
21	Melvin Wallace	3/6/2025 10:58 AM
22	TRACY SMITH	3/5/2025 10:55 AM
23	Robert Stitts	3/5/2025 9:02 AM
24	Tenisha Bailey	3/4/2025 11:31 AM
25	Sherrod Jones	3/4/2025 10:52 AM
26	Rachel McCallum-Jones	3/3/2025 3:50 PM
27	Michael Carter	3/3/2025 11:02 AM
28	Cornelius Colbert	3/2/2025 2:24 PM
29	Beatrice Wright	3/1/2025 7:57 AM
30	Thomasina Williams	2/28/2025 11:04 AM
31	Barbara Garrett	2/28/2025 8:27 AM
32	Marjan Behsoodi	2/28/2025 8:21 AM
33	Vironica B. Smith	2/27/2025 1:33 PM

CNU Good Housekeeping

34	Shaniqua Smith	2/27/2025 11:44 AM
35	Tenisha Bailey	2/27/2025 8:21 AM
36	Devan Overall	2/27/2025 8:17 AM
37	Matthew wilson	2/26/2025 2:31 PM
38	Barbara Smith	2/25/2025 1:31 PM
39	lester ratliff	2/25/2025 9:40 AM
40	Auturo McClendon	2/25/2025 8:29 AM
41	Ashton Simmons	2/25/2025 7:57 AM
42	John H Kelly	2/24/2025 2:03 PM
43	Roger Williams	2/23/2025 9:58 AM
44	Martha Savage	2/22/2025 3:14 PM
45	Kevin McDermott	2/20/2025 6:14 PM
46	Erika Nestler	2/20/2025 4:35 PM
47	Jennifer Jordsn	2/20/2025 2:49 PM
48	Mark Bleakley	2/20/2025 2:07 PM
49	Jason Correiro	2/20/2025 2:03 PM
50	Ceola Canty	2/20/2025 2:02 PM
51	theresa walker	2/20/2025 6:13 AM
52	Severin Newsom	2/18/2025 7:50 AM
53	Nosakhere Wiliams	2/17/2025 11:53 PM
54	Mark Hesse	2/17/2025 7:31 AM
55	shaun Langhorne	2/17/2025 6:57 AM
56	Tina Marie	2/14/2025 12:53 PM
57	Janet Schnell	2/14/2025 12:47 PM
58	Eugene	2/14/2025 11:58 AM
59	June Lessard-LaRoche	2/14/2025 11:18 AM
60	daryl norwood	2/13/2025 3:56 PM
61	Ferando fox	2/13/2025 3:56 PM
62	douglas	2/13/2025 3:35 PM
63	Theresa Lassiter	2/13/2025 3:29 PM
64	Lena Page	2/13/2025 1:45 PM
65	jenner Thomas	2/13/2025 11:17 AM
66	Phil Melillo	2/13/2025 11:05 AM
67	Travis H. Baker	2/13/2025 10:56 AM
68	Becca Dhume	2/13/2025 10:40 AM
69	Marion Whitehead	2/13/2025 10:27 AM
70	Lavar Tillery	2/13/2025 9:40 AM
71	Luke Bondurant	2/13/2025 8:50 AM

CNU Good Housekeeping

72	Peter Kay	2/13/2025 8:48 AM
73	Treyvon Woods	2/13/2025 8:23 AM
74	Allen Harris Jr.	2/13/2025 8:10 AM
75	Nick Bransford	2/13/2025 7:34 AM
76	Sherwood Denmon	2/13/2025 7:21 AM
77	Jalen Coles	2/13/2025 7:19 AM
78	Nathan Smith	2/13/2025 7:18 AM
79	Robert Mays	2/13/2025 7:12 AM
80	Chris Webb	2/13/2025 6:55 AM
81	Jackie Roquemore	2/12/2025 3:07 PM
82	Jennifer Fowler	2/12/2025 2:54 PM
83	Michael Tellish	1/15/2025 3:08 PM

Q2 Department

Answered: 83 Skipped: 0

#	RESPONSES	DATE
1	Grounds	6/6/2025 12:35 PM
2	Grounds	5/29/2025 8:13 AM
3	Grounds	5/28/2025 1:21 PM
4	Grounds	5/28/2025 7:22 AM
5	Grounds	5/21/2025 2:53 PM
6	Smith	5/21/2025 12:00 PM
7	Grounds	5/21/2025 10:55 AM
8	grounds	5/17/2025 11:31 AM
9	Grounds	5/17/2025 10:15 AM
10	Grounds	5/17/2025 8:59 AM
11	Dining Services	5/13/2025 1:08 PM
12	Grounds	4/11/2025 2:06 PM
13	Grounds	4/11/2025 1:14 PM
14	Housing	3/12/2025 9:25 AM
15	facility management	3/11/2025 3:14 PM
16	housing	3/7/2025 2:32 PM
17	Housekeeper	3/7/2025 10:07 AM
18	housing	3/7/2025 9:00 AM
19	Facilities	3/6/2025 2:32 PM
20	housing	3/6/2025 1:23 PM
21	Housing	3/6/2025 10:58 AM

CNU Good Housekeeping

22	HOUSING-HOUSEKEEPING	3/5/2025 10:55 AM
23	Housing	3/5/2025 9:02 AM
24	Housing	3/4/2025 11:31 AM
25	Housing	3/4/2025 10:52 AM
26	Catering	3/3/2025 3:50 PM
27	Housing	3/3/2025 11:02 AM
28	Housekeeping	3/2/2025 2:24 PM
29	Housing	3/1/2025 7:57 AM
30	Housekeeper	2/28/2025 11:04 AM
31	Housing	2/28/2025 8:27 AM
32	Housing	2/28/2025 8:21 AM
33	Housing	2/27/2025 1:33 PM
34	Housing	2/27/2025 11:44 AM
35	Housing	2/27/2025 8:21 AM
36	Housekeeping	2/27/2025 8:17 AM
37	Auxiliary- catering	2/26/2025 2:31 PM
38	Housing	2/25/2025 1:31 PM
39	housekeeping	2/25/2025 9:40 AM
40	housekeeping	2/25/2025 8:29 AM
41	Housing	2/25/2025 7:57 AM
42	housekeeping	2/24/2025 2:03 PM
43	Auxiliary Services	2/23/2025 9:58 AM
44	Catering	2/22/2025 3:14 PM
45	Catering	2/20/2025 6:14 PM
46	Catering	2/20/2025 4:35 PM
47	CNU catering	2/20/2025 2:49 PM
48	Catering Services	2/20/2025 2:07 PM
49	Catering	2/20/2025 2:03 PM
50	Catering	2/20/2025 2:02 PM
51	freeman center	2/20/2025 6:13 AM
52	Facilities	2/18/2025 7:50 AM
53	Housekeeping	2/17/2025 11:53 PM
54	CNU Facilities Management	2/17/2025 7:31 AM
55	aux service	2/17/2025 6:57 AM
56	Freeman Center	2/14/2025 12:53 PM
57	Housekeeping	2/14/2025 12:47 PM
58	Orendain	2/14/2025 11:58 AM
59	catering	2/14/2025 11:18 AM

CNU Good Housekeeping

60	maintenance	2/13/2025 3:56 PM
61	Housing	2/13/2025 3:56 PM
62	housing	2/13/2025 3:35 PM
63	Housing	2/13/2025 3:29 PM
64	facilities	2/13/2025 1:45 PM
65	Grounds	2/13/2025 11:17 AM
66	Facilities	2/13/2025 11:05 AM
67	grounds	2/13/2025 10:56 AM
68	Grounds	2/13/2025 10:40 AM
69	Housing	2/13/2025 10:27 AM
70	Grpunds	2/13/2025 9:40 AM
71	Grounds	2/13/2025 8:50 AM
72	Freeman Center	2/13/2025 8:48 AM
73	Grounds	2/13/2025 8:23 AM
74	EHS	2/13/2025 8:10 AM
75	Grounds	2/13/2025 7:34 AM
76	Housing	2/13/2025 7:21 AM
77	Grounds	2/13/2025 7:19 AM
78	Grounds	2/13/2025 7:18 AM
79	Grounds	2/13/2025 7:12 AM
80	Grounds	2/13/2025 6:55 AM
81	Environmental Health and Safety	2/12/2025 3:07 PM
82	Grounds	2/12/2025 2:54 PM
83	EHS	1/15/2025 3:08 PM

Q3 Date

Answered: 83 Skipped: 0

ANSWER CHOICES		RESPONSES
Date / Time		100.00% 83
#	DATE / TIME	DATE
1	06/06/2025	6/6/2025 12:35 PM
2	05/29/2025	5/29/2025 8:13 AM
3	05/28/2025	5/28/2025 1:21 PM
4	05/28/2025	5/28/2025 7:22 AM
5	05/21/2025	5/21/2025 2:53 PM
6	05/21/2025	5/21/2025 12:00 PM

CNU Good Housekeeping

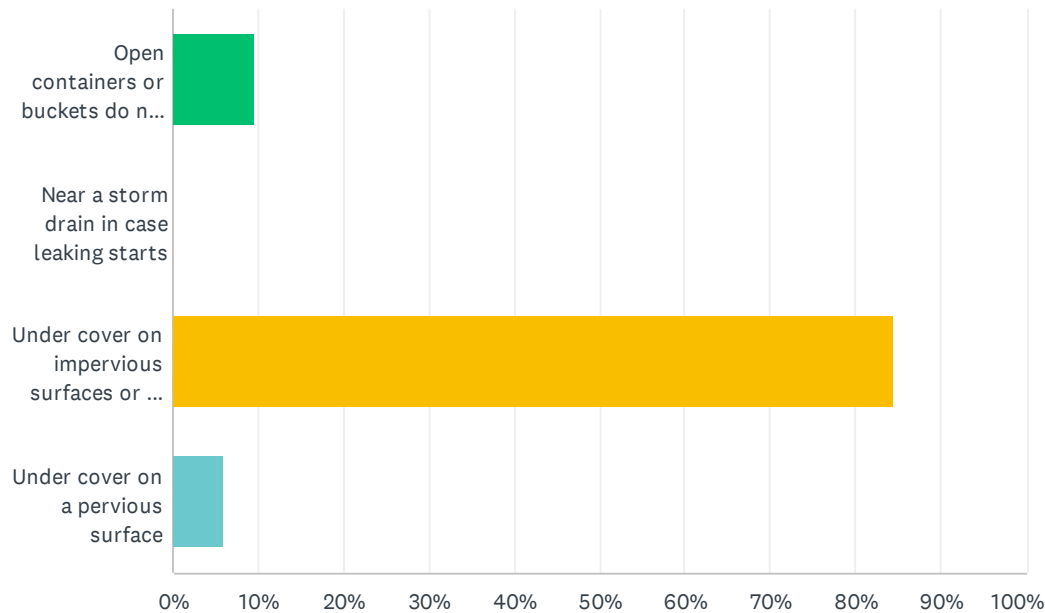
7	05/21/2025	5/21/2025 10:55 AM
8	05/17/2025	5/17/2025 11:31 AM
9	05/17/2025	5/17/2025 10:15 AM
10	05/17/2025	5/17/2025 8:59 AM
11	05/13/2025	5/13/2025 1:08 PM
12	04/11/2025	4/11/2025 2:06 PM
13	04/11/2025	4/11/2025 1:14 PM
14	03/12/2025	3/12/2025 9:25 AM
15	03/11/2025	3/11/2025 3:14 PM
16	03/07/2025	3/7/2025 2:32 PM
17	03/07/2025	3/7/2025 10:07 AM
18	03/07/2025	3/7/2025 9:00 AM
19	03/06/2025	3/6/2025 2:32 PM
20	03/06/2025	3/6/2025 1:23 PM
21	03/06/2025	3/6/2025 10:58 AM
22	03/05/2025	3/5/2025 10:55 AM
23	03/05/2025	3/5/2025 9:02 AM
24	03/04/2025	3/4/2025 11:31 AM
25	03/04/2025	3/4/2025 10:52 AM
26	03/03/2025	3/3/2025 3:50 PM
27	03/03/2025	3/3/2025 11:02 AM
28	03/02/2025	3/2/2025 2:24 PM
29	03/01/2025	3/1/2025 7:57 AM
30	02/28/2025	2/28/2025 11:04 AM
31	02/28/2025	2/28/2025 8:27 AM
32	02/28/2025	2/28/2025 8:21 AM
33	02/27/2025	2/27/2025 1:33 PM
34	02/27/2025	2/27/2025 11:44 AM
35	02/27/2025	2/27/2025 8:21 AM
36	02/27/2025	2/27/2025 8:17 AM
37	02/26/2025	2/26/2025 2:31 PM
38	02/25/2025	2/25/2025 1:31 PM
39	02/25/2025	2/25/2025 9:40 AM
40	02/25/2025	2/25/2025 8:29 AM
41	02/25/2025	2/25/2025 7:57 AM
42	02/24/2025	2/24/2025 2:03 PM
43	02/23/2025	2/23/2025 9:58 AM
44	02/22/2025	2/22/2025 3:14 PM

CNU Good Housekeeping

45	02/20/2025	2/20/2025 6:14 PM
46	02/20/2025	2/20/2025 4:35 PM
47	02/20/2025	2/20/2025 2:49 PM
48	02/20/2025	2/20/2025 2:07 PM
49	02/20/2025	2/20/2025 2:03 PM
50	02/20/2025	2/20/2025 2:02 PM
51	02/20/2025	2/20/2025 6:13 AM
52	02/18/2025	2/18/2025 7:50 AM
53	02/17/2025	2/17/2025 11:53 PM
54	02/17/2025	2/17/2025 7:31 AM
55	02/17/2025	2/17/2025 6:57 AM
56	02/14/2025	2/14/2025 12:53 PM
57	02/14/2025	2/14/2025 12:47 PM
58	02/14/2025	2/14/2025 11:58 AM
59	02/14/2025	2/14/2025 11:18 AM
60	02/13/2025	2/13/2025 3:56 PM
61	02/13/2025	2/13/2025 3:56 PM
62	02/13/2025	2/13/2025 3:35 PM
63	02/13/2025	2/13/2025 3:29 PM
64	02/13/2025	2/13/2025 1:45 PM
65	02/13/2025	2/13/2025 11:17 AM
66	02/13/2025	2/13/2025 11:05 AM
67	02/13/2025	2/13/2025 10:56 AM
68	02/13/2025	2/13/2025 10:40 AM
69	02/13/2025	2/13/2025 10:27 AM
70	02/13/2025	2/13/2025 9:40 AM
71	02/13/2025	2/13/2025 8:50 AM
72	02/13/2025	2/13/2025 8:48 AM
73	02/13/2025	2/13/2025 8:23 AM
74	02/13/2025	2/13/2025 8:10 AM
75	02/13/2025	2/13/2025 7:34 AM
76	02/13/2025	2/13/2025 7:21 AM
77	02/13/2025	2/13/2025 7:19 AM
78	02/13/2025	2/13/2025 7:18 AM
79	02/13/2025	2/13/2025 7:12 AM
80	02/13/2025	2/13/2025 6:55 AM
81	02/12/2025	2/12/2025 3:07 PM
82	02/12/2025	2/12/2025 2:54 PM

Q4 Where should open containers or buckets be stored while not actively in use?

Answered: 83 Skipped: 0

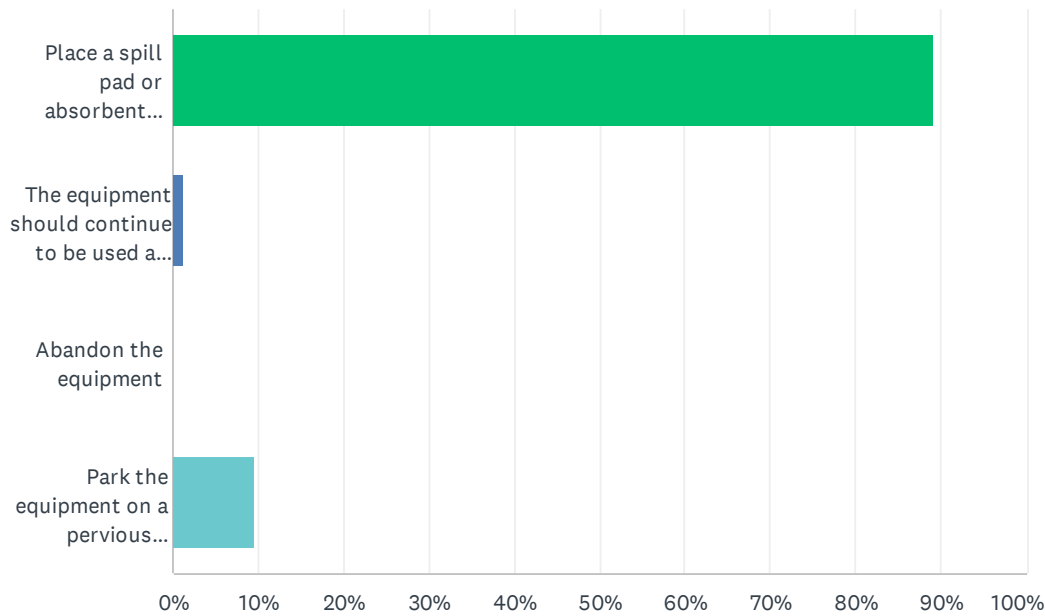


ANSWER CHOICES	RESPONSES	
Open containers or buckets do not require specific storage	9.64%	8
Near a storm drain in case leaking starts	0.00%	0
Under cover on impervious surfaces or in a non-leaking container	84.34%	70
Under cover on a pervious surface	6.02%	5
TOTAL		83

Q5 If a piece of equipment is found to have a small leak what should be done?

Answered: 83 Skipped: 0

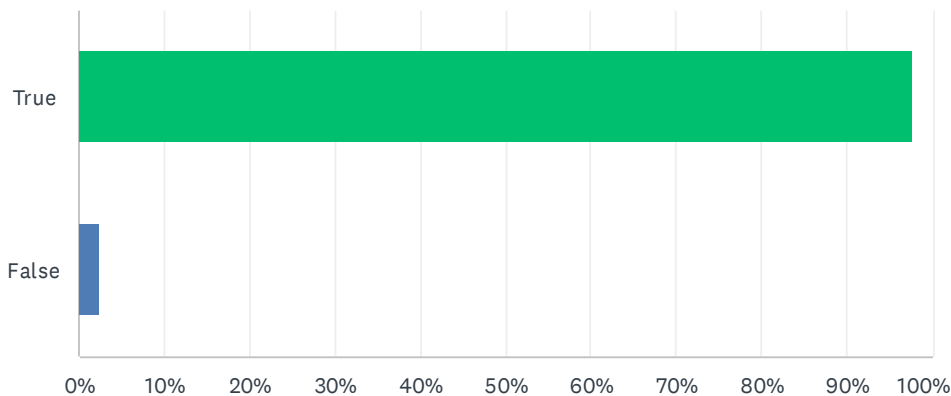
CNU Good Housekeeping



ANSWER CHOICES	RESPONSES	
Place a spill pad or absorbent beneath the equipment and inspect/replace this material regularly until the leak is repaired	89.16%	74
The equipment should continue to be used as normal	1.20%	1
Abandon the equipment	0.00%	0
Park the equipment on a pervious surface prior to starting repairs	9.64%	8
TOTAL		83

Q6 True or False: Salt should never be left in the open in piles exposed to stormwater.

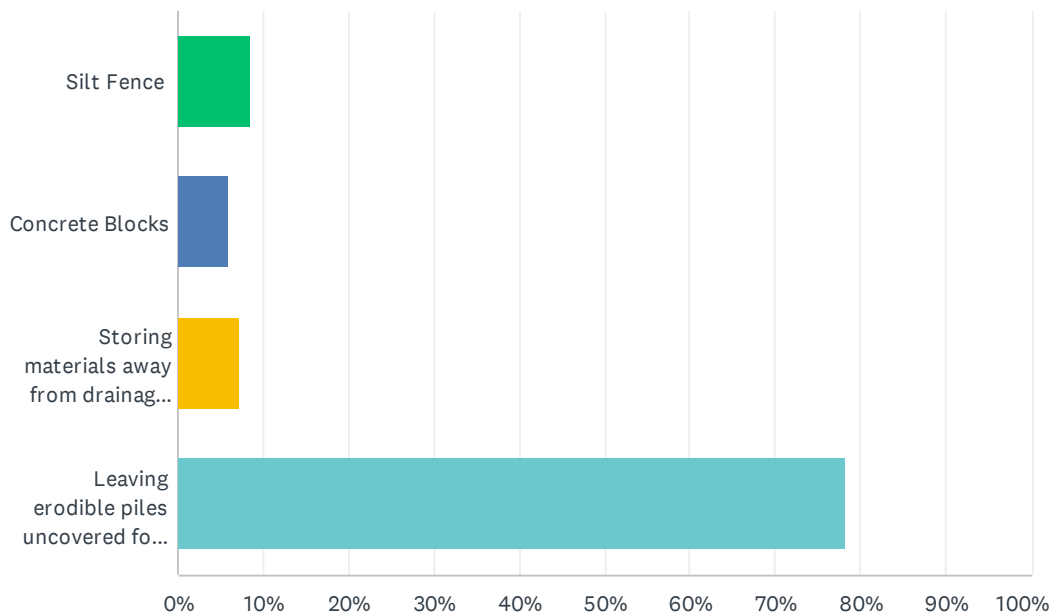
Answered: 83 Skipped: 0



ANSWER CHOICES	RESPONSES	
True	97.59%	81
False	2.41%	2
TOTAL		83

Q7 Which of the following is NOT considered a proper control to minimize erodible piles from entering stormwater?

Answered: 83 Skipped: 0

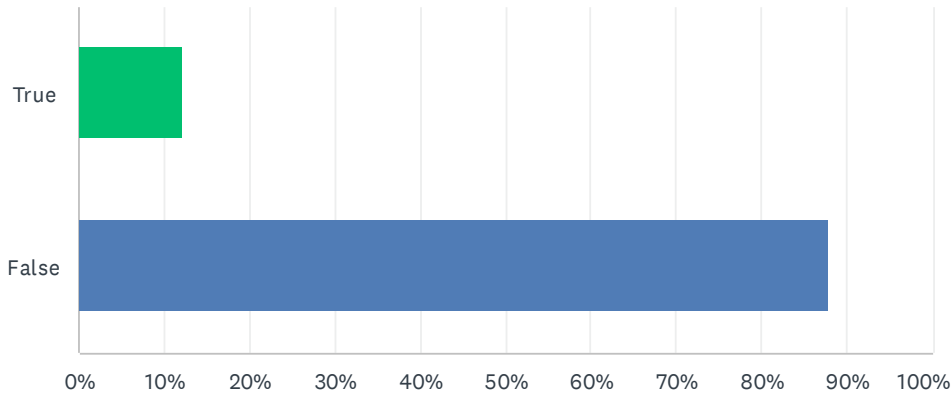


ANSWER CHOICES	RESPONSES	
Silt Fence	8.43%	7
Concrete Blocks	6.02%	5
Storing materials away from drainage paths	7.23%	6
Leaving erodible piles uncovered for extended periods of time	78.31%	65
TOTAL		83

Q8 True or False: Leaves, wood chips, grass or other landscape debris can be blown into or otherwise disposed of in stormwater inlets.

Answered: 83 Skipped: 0

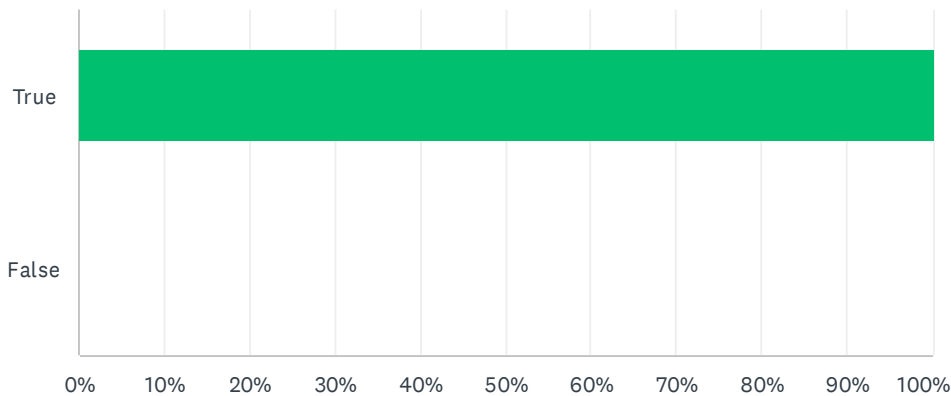
CNU Good Housekeeping



ANSWER CHOICES	RESPONSES	
True	12.05%	10
False	87.95%	73
TOTAL		83

Q9 True or False: Dumpsters should be covered by a lid or tarp unless you are actively loading waste materials.

Answered: 83 Skipped: 0

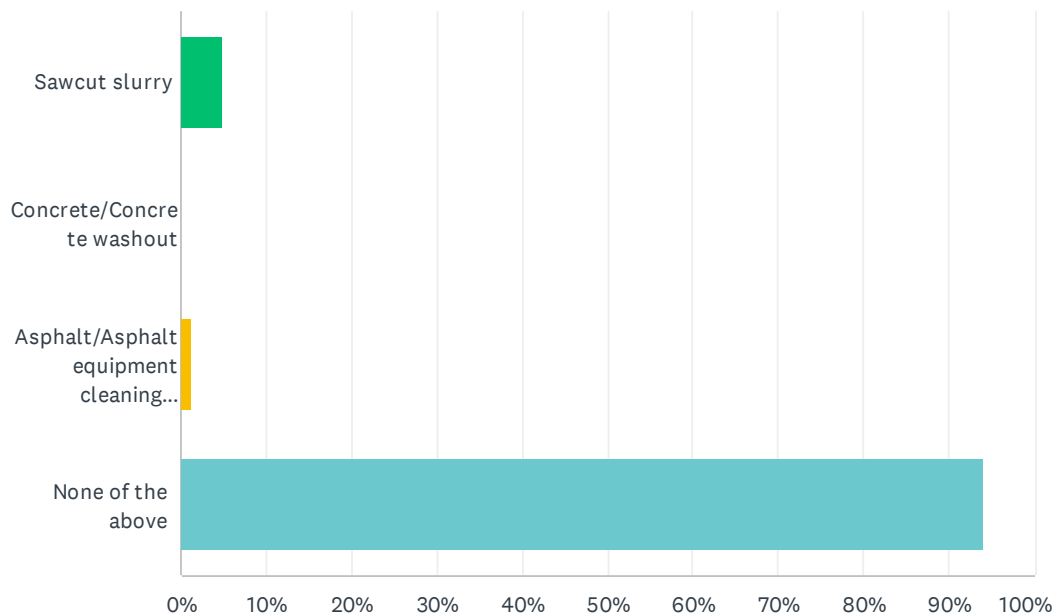


ANSWER CHOICES	RESPONSES	
True	100.00%	83
False	0.00%	0
TOTAL		83

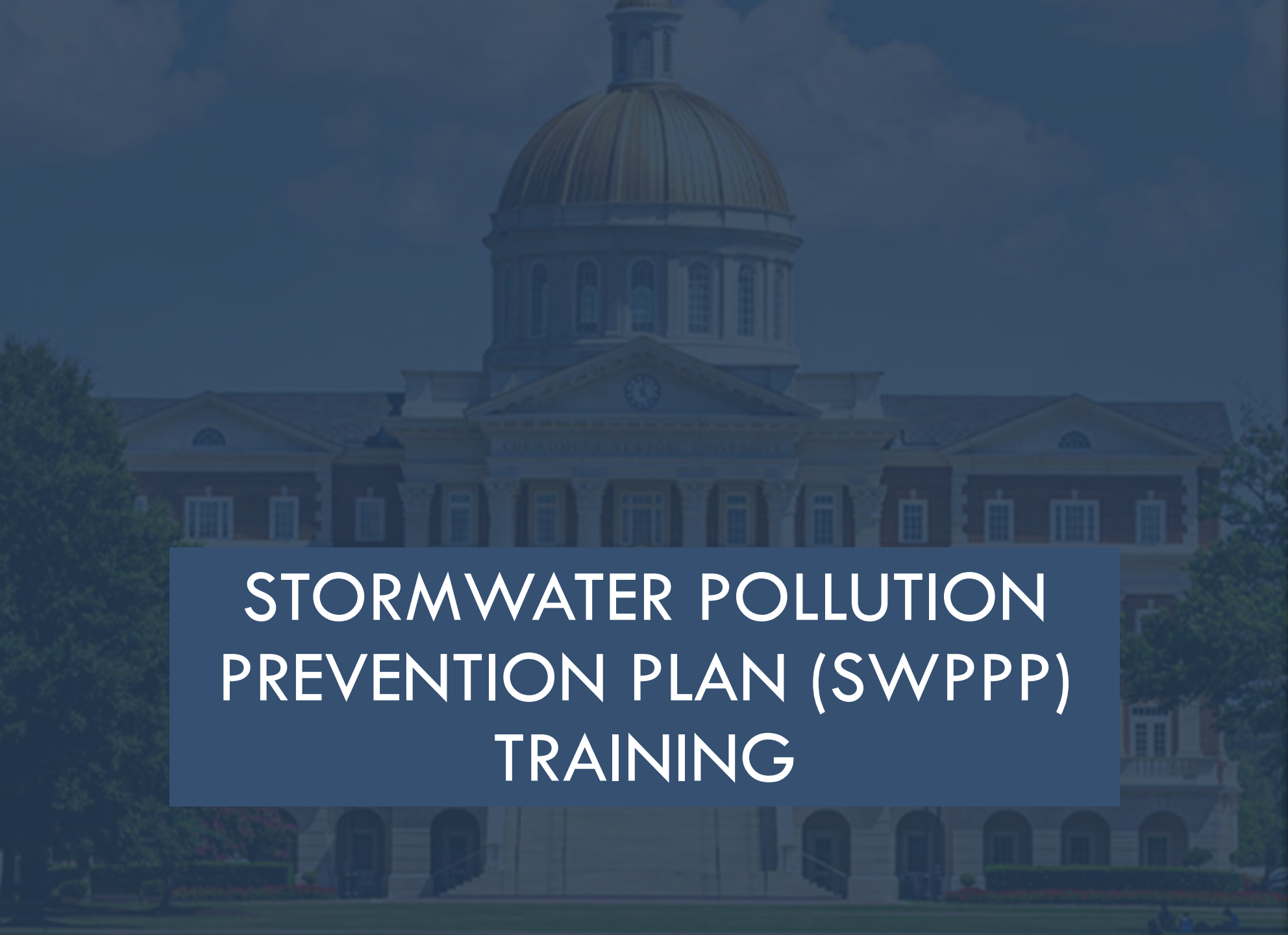
Q10 Which of the following can be washed down the storm drain?

Answered: 83 Skipped: 0

CNU Good Housekeeping



ANSWER CHOICES	RESPONSES	
Sawcut slurry	4.82%	4
Concrete/Concrete washout	0.00%	0
Asphalt/Asphalt equipment cleaning washout	1.20%	1
None of the above	93.98%	78
TOTAL		83



STORMWATER POLLUTION PREVENTION PLAN (SWPPP) TRAINING

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

- Required by DEQ at **high priority facilities**, where there is risk for spills, leaks, or residuals of any materials which would pollute water sources, including:

- Cleaning materials
- Oils & greases
- Vehicle fluids
- Fertilizer, dirt, and sediment
- De-icer
- Other waste materials
- Hazardous materials

- Digital copies available at <https://cnu.edu/public/stormwater/>
- The SWPPP is a **living document** and shall include:



Site description and map(s)



Trainings



Pollutant & source checklist



Modifications due to spills/releases



Non-stormwater discharges



Compliance evaluation procedures



Maintenance schedule for controls



Dry weather screening procedures



Policies/procedures to reduce sources

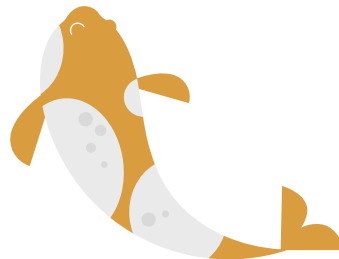


Inspection schedule & checklist

WHAT IS THE GOAL OF SWPPPs?



- Facility SWPPPs are a requirement of the University's Municipal Separate Storm Sewer System (MS4) Permit
- The purpose is to prevent pollution and contamination of stormwater runoff from municipal/facility operations
- The ultimate goals of the MS4 Permit, the Virginia Pollutant Discharge Elimination System (VPDES) and the Clean Water Act are to keep:
 - Waterways safe from erosion & flooding
 - Water bodies safe for recreation & wildlife
 - Drinking water safe from contaminants



A TOUR OF THE SWPPP

1.4 Contents of the SWPPP

This plan includes the elements list in Table 1-1.

Table 1: SWPP Plan Elements

Description	Plan Location
Stormwater Pollution Prevention Team	Section 2
Site Descriptions	Section 3
Summary of Potential Pollutant Sources	Section 4
Description of Control Measures	Section 5
Schedules and Procedures	Section 6
Signature Requirements	Section 7

SWPPP TOUR: SWPPP TEAM

Table 1: SWPPP Plan Elements

Description	Plan Location
Stormwater Pollution Prevention Team	Section 2
Site Descriptions	Section 3
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Table 2: Pollution Prevention Team Roster and Responsibilities

Member Name or Title	Member Responsibility
Vice President for Facilities and Campus Operations	Team Member – Certifying official and provides any upper management advice or directives.
Director of Grounds	SWPPP Coordinator/Team Leader – Coordinates plan development, plan implementation, employee training, inspections, and best management practices.
Director of Facilities Management	Team Member – Supports plan development, plan implementation, employee training, inspections, and best management practices.
Associate Director of Grounds	Team Member – Oversees preventative maintenance procedures, and monthly inspections to ensure that control measures (such as covers for outside dumpsters) are in place and are in proper working condition
Director of Environmental Health & Safety	Team Member - Supports plan development, plan implementation employee training, inspections, and best management practices.
Sustainability Specialist	Team Member - Supports plan development, plan implementation employee training, inspections, and best management practices.
Director of Building Operations	Team Member - Supports plan development, plan implementation employee training, inspections, and best management practices.
Director of Housing	Team Member - Supports plan development, plan implementation employee training, inspections, and best management practices.
Compliance Coordinator	Team Member - Supports plan development, plan implementation employee training, inspections, and best management practices.
Consultant	Assist in plan development and provide technical advice on plan implementation.

SWPPP TOUR: SITE DESCRIPTIONS

Table 1: SWPP Plan Elements

Description	Plan Location
Stormwater Pollution Prevention Team	Section 2
Site Descriptions	Section 3
Summary of Potential Pollutant Sources	Section 4
Description of Control Measures	Section 5
Schedules and Procedures	Section 6
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- University Activities: 4 Departments have operational **control** over on-site **activities with potential to contribute to stormwater pollution**:
 - Grounds Department
 - Plant Operations
 - Auxiliary Services
 - Athletics
- High Priority Areas: CNU has **6 facilities and additional solid waste (dumpsters and/or compactor corrals) locations** with on-site activities that may contribute to stormwater pollution. Let's review some now!

SWPPP TOUR: POTENTIAL POLLUTANTS



Fertilizers



Oils & Greases



Sediment



Pesticides



Bacteria



Trash

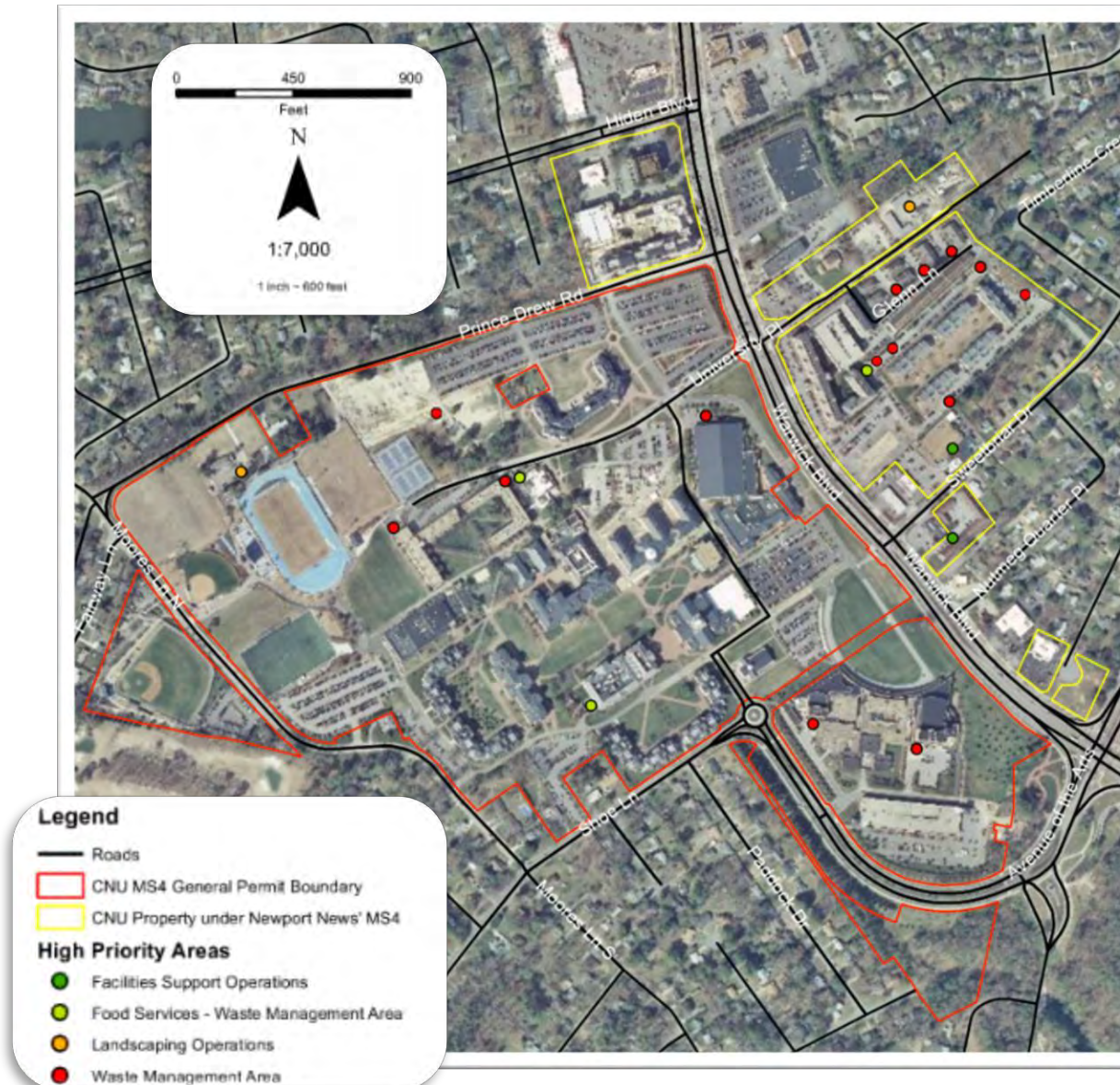


Deicers

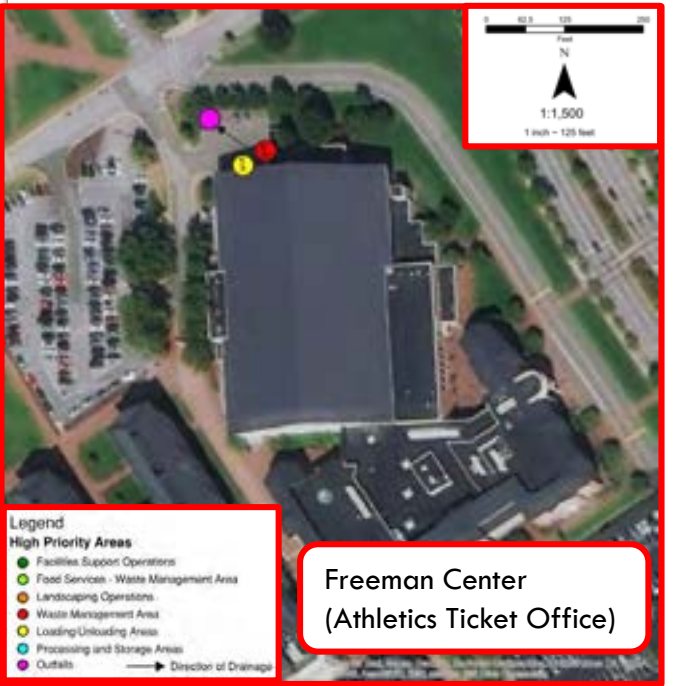
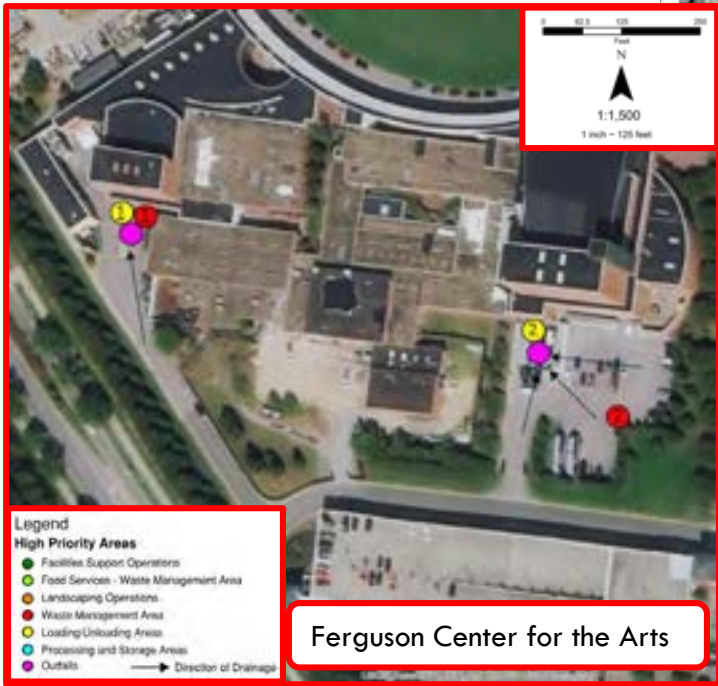
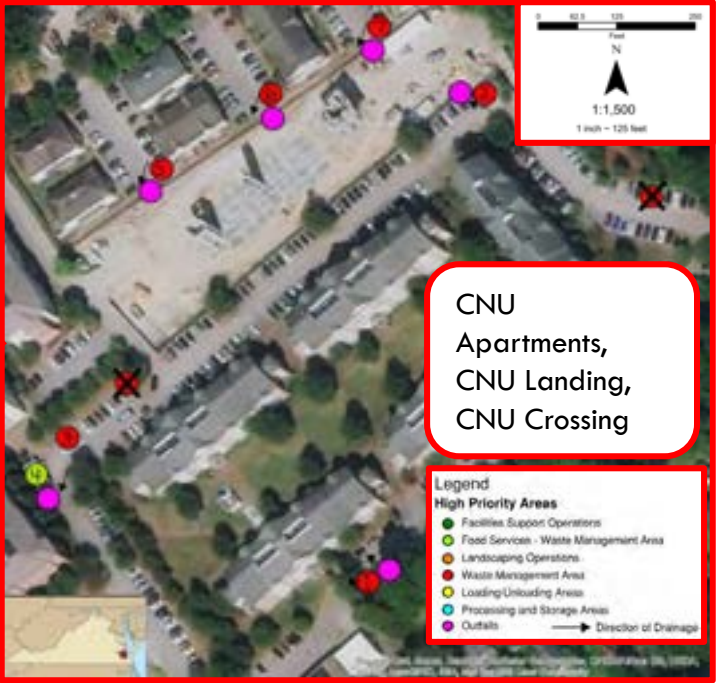
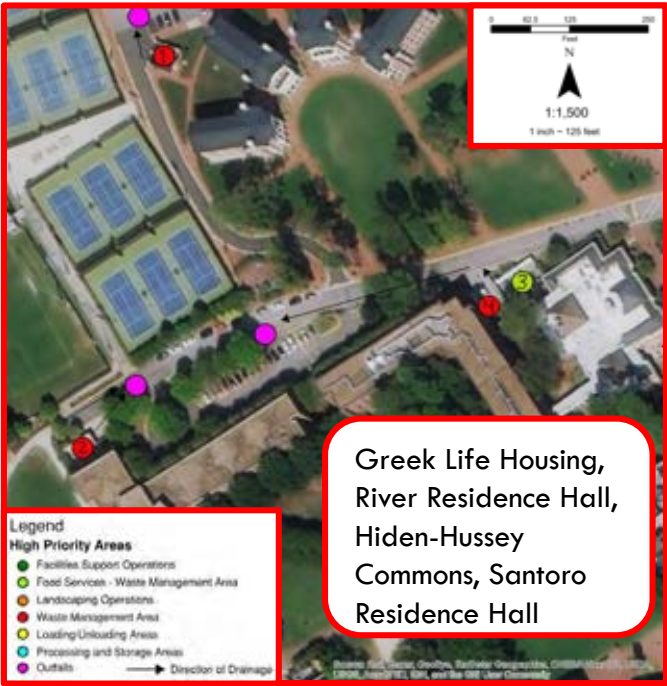
Table 1: SWPPP Plan Elements

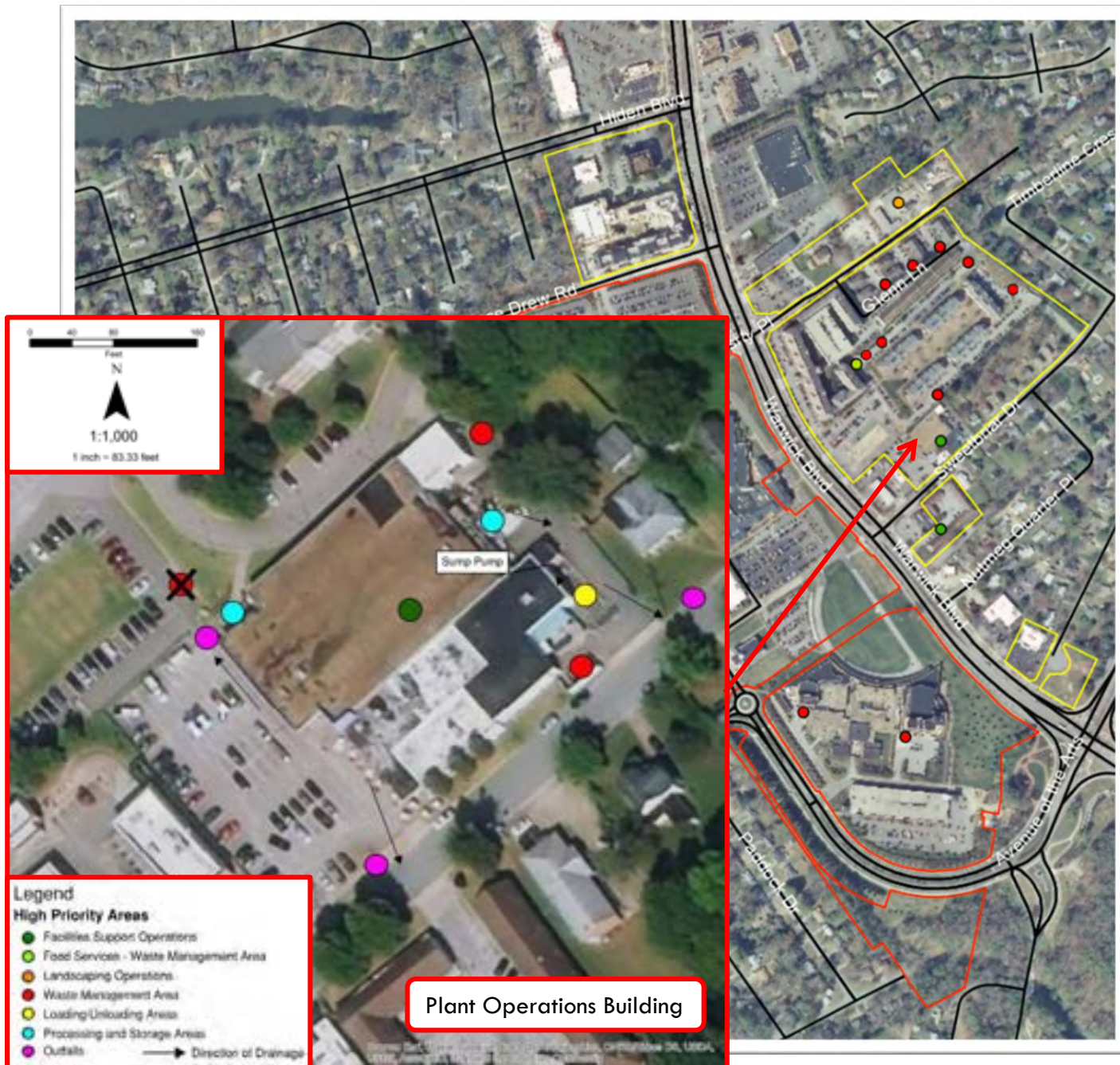
Description	Plan Location
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Overall Site Map



Example Waste Management Areas



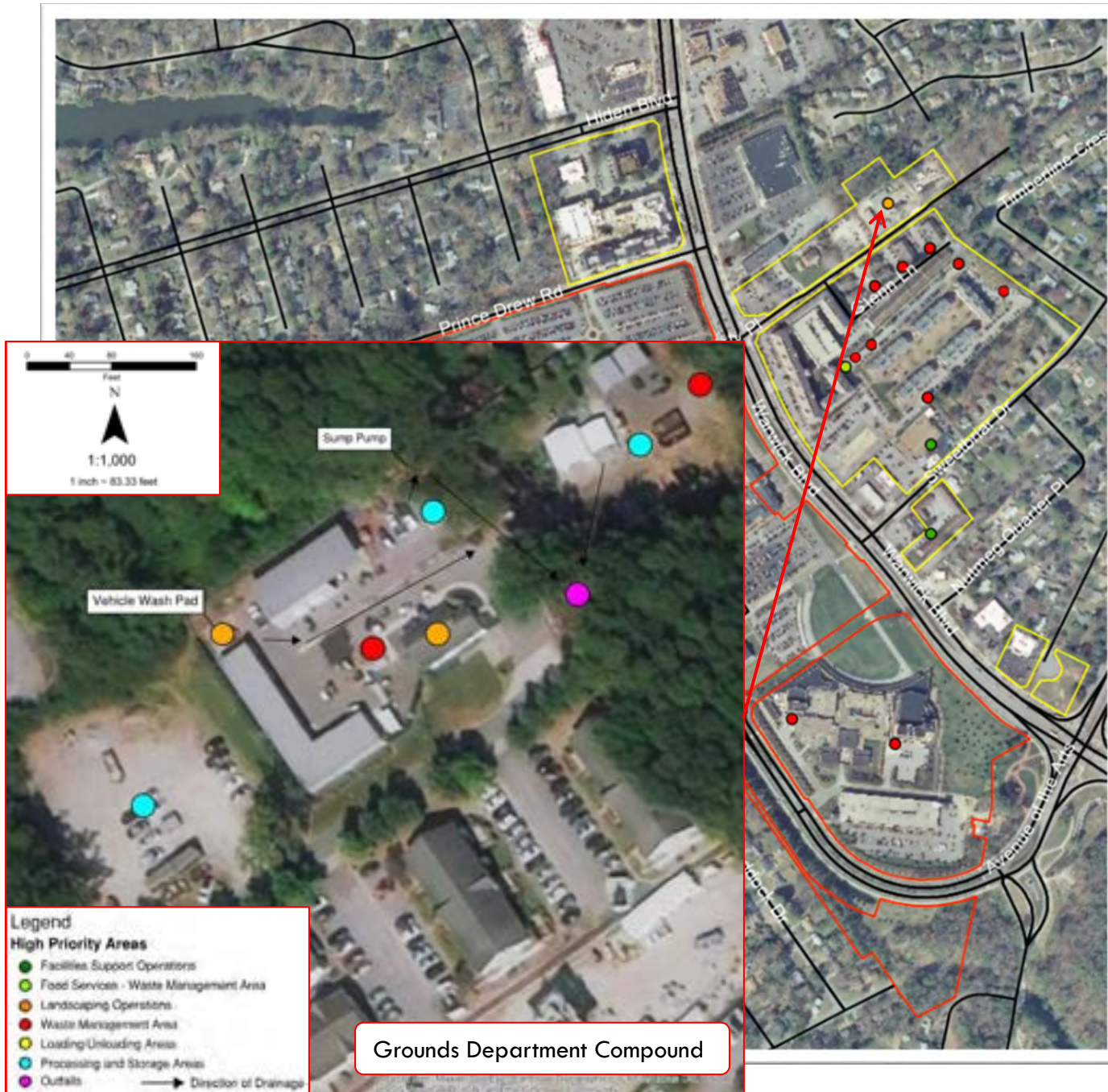


Plant Operations Building

- 11 Sweetbriar Drive
- Control: Plant Operations
- Following activities have potential to pollute stormwater:
 - Exterior storage of materials
 - E.g. Scrap metal, stone, wood
 - Materials handling
 - E.g. Paint, chemicals
 - Shipping & receiving areas
 - Solid waste management dumpster storage

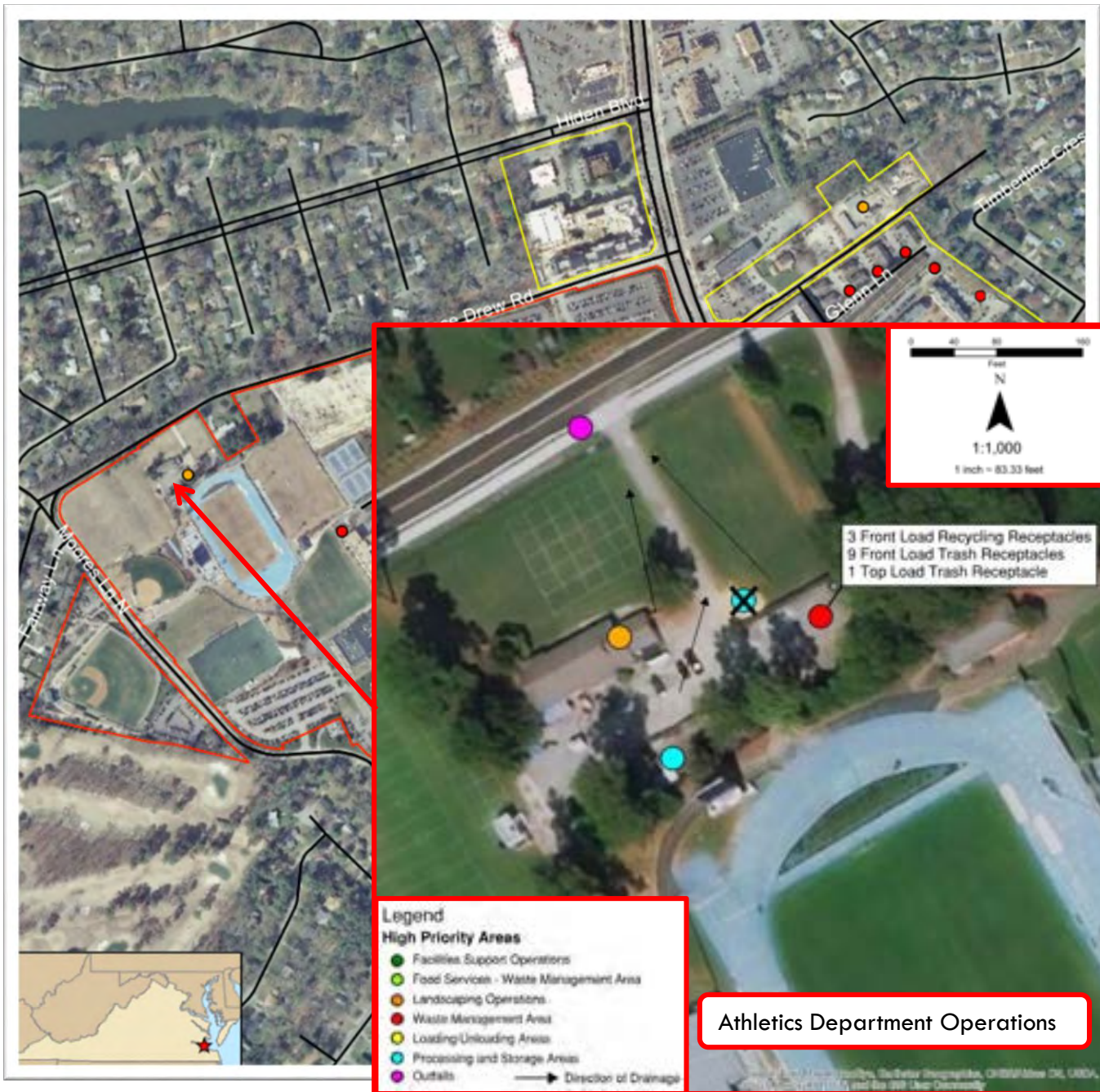
Grounds Department Compound

- 437 University Place
- Control: Grounds Department
- Following activities have potential to pollute stormwater:
 - Exterior storage of materials
 - E.g. dirt, sand, mulch, fuel
 - Materials handling
 - E.g. Fertilizers, pesticides, fungicides, herbicides, fueling
 - Shipping & receiving areas
 - Solid waste management dumpster storage



Athletics Department Operations

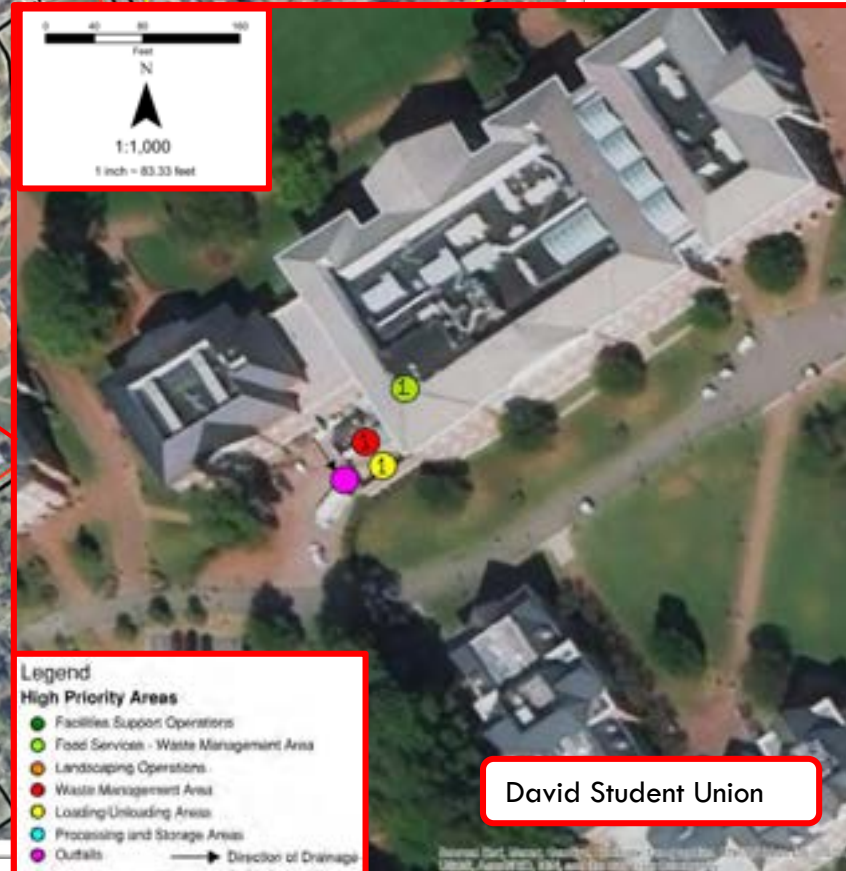
- 220 Prince Drew Road
- Control: Grounds Department
- Following activities have potential to pollute stormwater:
 - Exterior storage of materials
 - E.g. dirt, sand, mulch, fuel
 - Materials handling
 - E.g. Fertilizers, pesticides, fungicides, herbicides, fueling





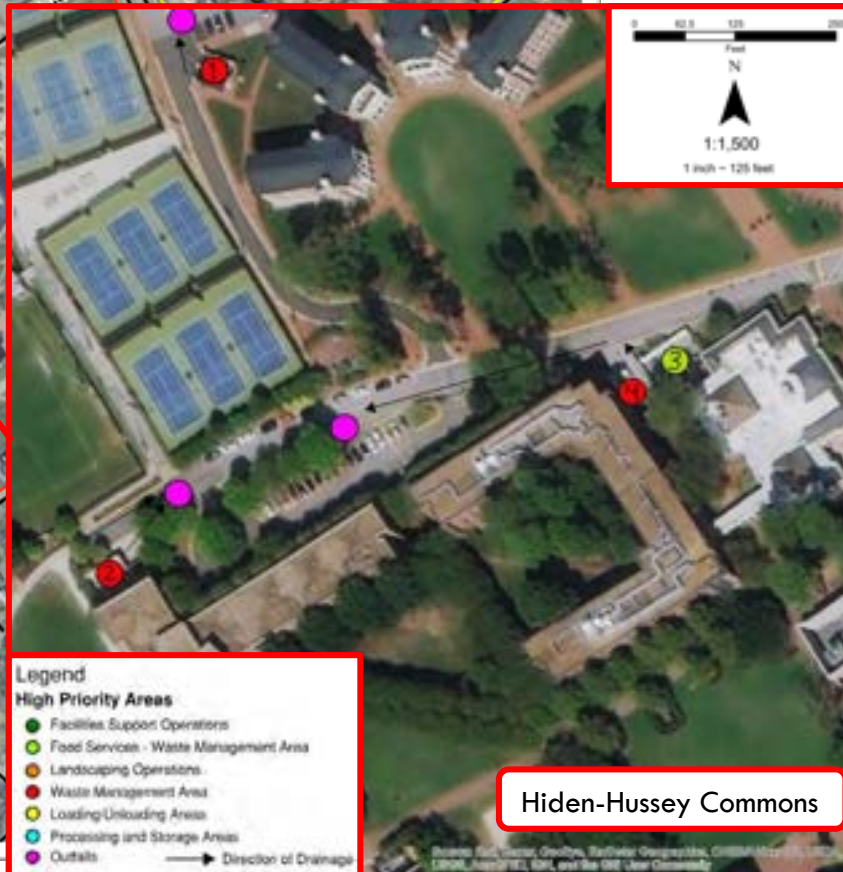
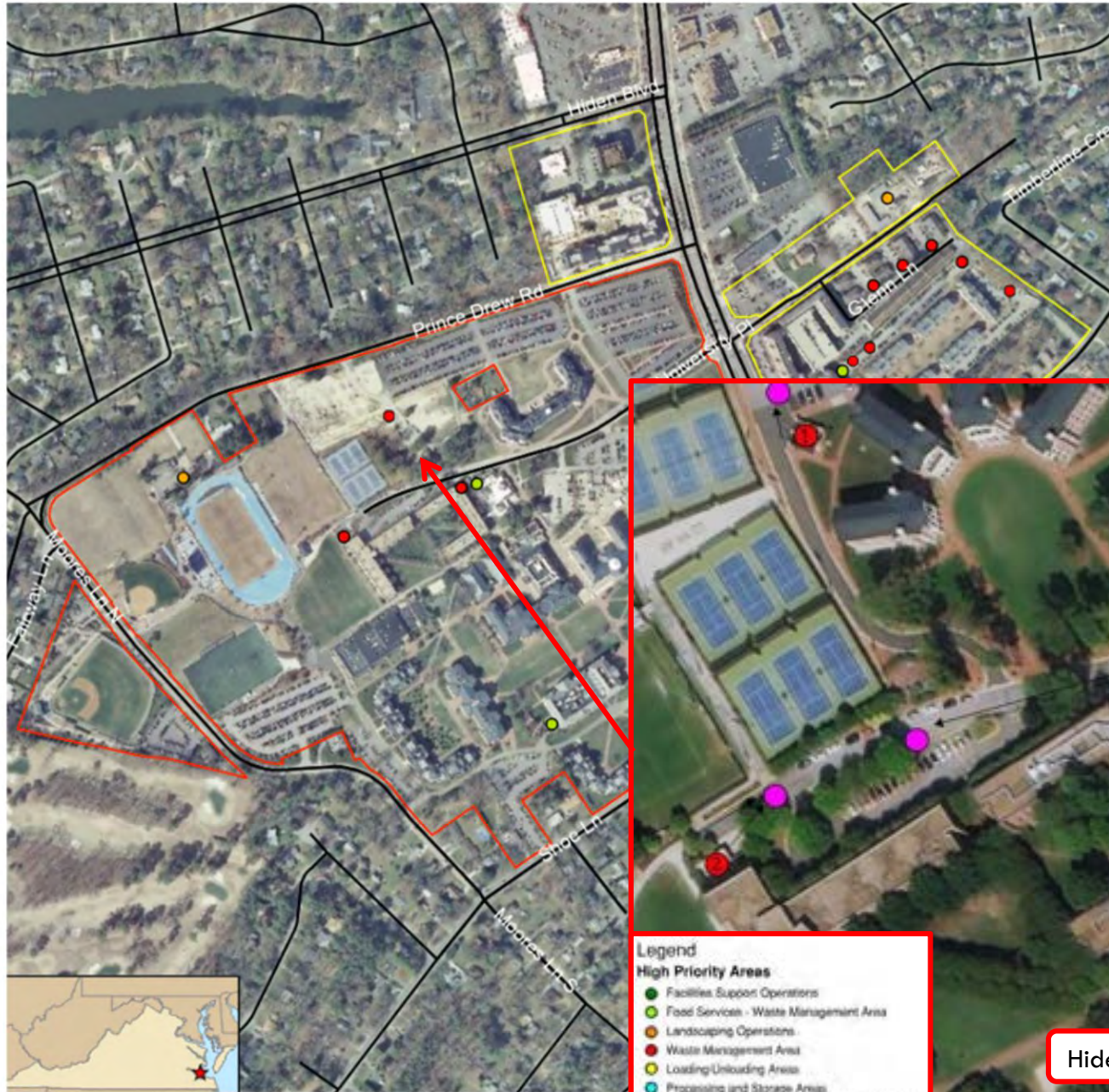
David Student Union

- 1 University Place
- Control: Auxiliary Services
- Following activities have potential to pollute stormwater:
 - Materials handling
 - E.g. transfer food stuffs, cooking oils
 - Shipping & receiving areas
 - Solid waste management dumpster storage



Hidden-Hussey Commons

- 1 Ave. of the Arts
- Control: Auxiliary Services
- Following activities have potential to pollute stormwater:
 - Materials handling
 - E.g. transfer food stuffs, cooking oils
 - Shipping & receiving areas
 - Solid waste management dumpster storage



A QUICK DETOUR: ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)

- **Illicit Discharge:** When pollutants enter storm systems and make it to stormwater outfalls

- **How do we locate where a potential illicit discharge comes from in a flowing pipe?**

Starting at the outfall, we'll walk up the pipe network until we can isolate the flow between two manholes. This is the source of our potential illicit discharge!

- **How long does the responsible party have to address a confirmed illicit discharge?**

Discharge must be stopped within 7 days
Repair cause of discharge within 30 days



Figure 25: The origin of this corrugated plastic pipe was determined to be a roof leader from the house up the hill.

We want to MOVE QUICKLY to prevent further pollution!



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Figure 25: The origin of this corrugated plastic pipe was determined to be a roof leader from the house up the hill.

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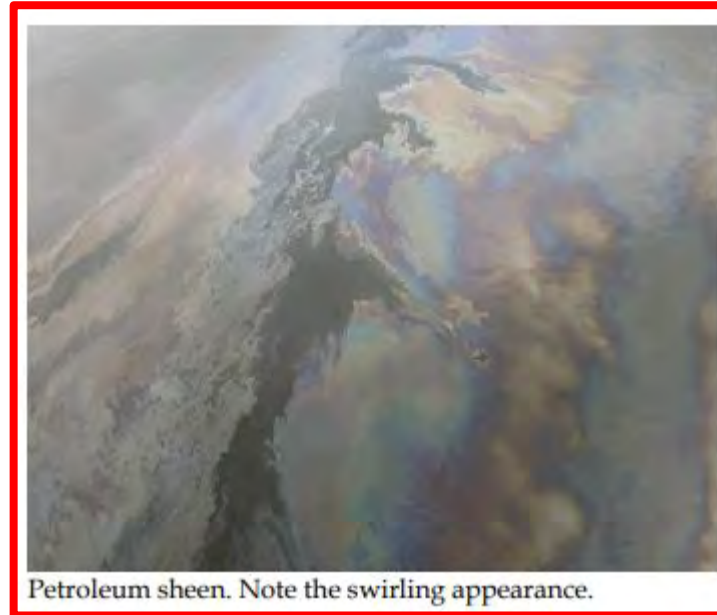
We want to MOVE QUICKLY to prevent further pollution!



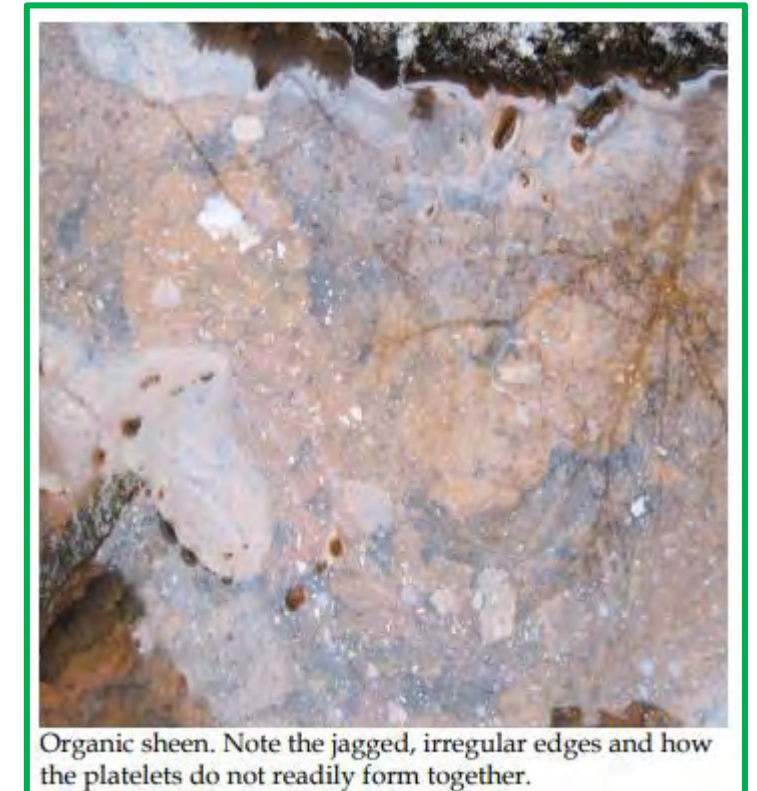
A QUICK DETOUR: ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)

Oil Sheens: When to Worry?

Pollutant ☹️



Natural ☺️



When disturbed natural sheens break apart while petroleum sheens come back together quickly.

SWPPP TOUR: CONTROL MEASURES

Table 1: SWPP Plan Elements

Description	Plan Location
Stormwater Pollution Prevention Team	Section 2
Site Descriptions	Section 3
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- Minimize exposure
- Good Housekeeping (SOPs)
 - Parking Lots, Streets, Roads Maintenance
 - Equipment & vehicles
 - Outdoor buildings
 - Grounds & Landscaping
 - Application & Storage of Pesticides, Herbicides, Fertilizer
 - Exterior Material Storage
 - Chemical Storage
- Maintenance
- Spill Prevention & Response Procedures
- Erosion & Sediment Controls
- Management of Runoff
- Salt Storage
- Employee Training
- Water Quality-Based Effluent

SWPPP TOUR: CONTROL MEASURES

Table 1: SWPPP Plan Elements

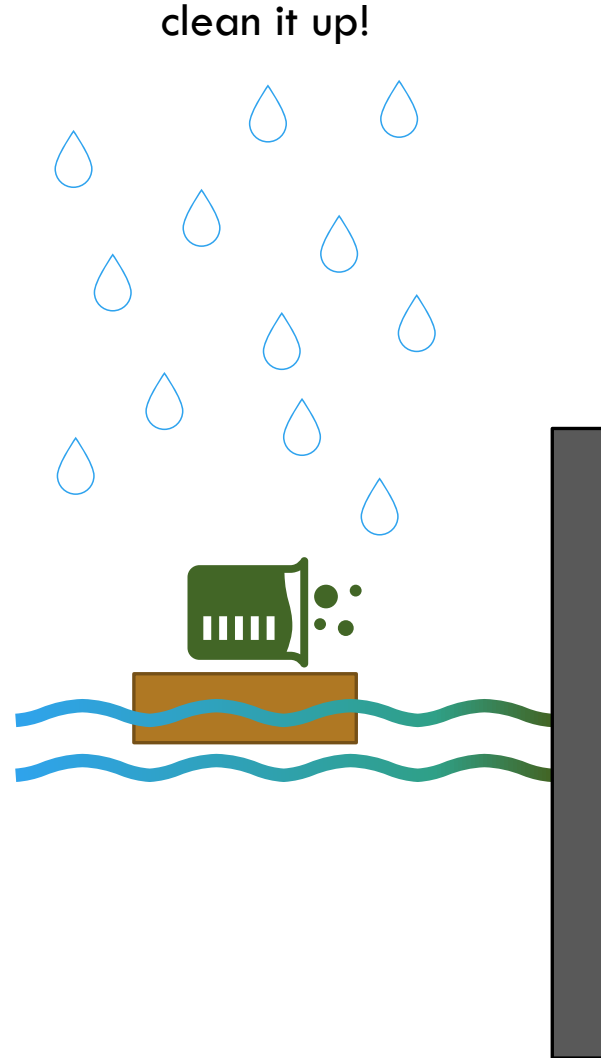
Description	Plan Location
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Minimize exposure:

- Keep pollutants from spilling/contaminating water



- Keep contaminated water from entering the storm system & clean it up!



STANDARD OPERATING PROCEDURES (SOPs)

• Standard Operating Procedures (SOPs)

SOP:	Grounds Maintenance
Purpose of SOP:	Procedures for grounds keeping maintenance activities.
SOP Administrator:	Grounds Department
Responsible Department:	Grounds

Managers and Supervisors are responsible for ensuring that employees are properly informed of and trained on how to follow the procedures for this SOP. Contractors should also be notified to follow SOP while working for the University.

I. Stormwater Protection Equipment and Materials

- Spill kit and equipment for dry clean up (socks, absorbent pads, absorbent materials, broom, and dustpan)
- Storm drain inlet protection devices (drain covers, booms, berms)
- Tarps with tie downs

Materials onsite to manage & prevent pollution

II. Standard Operating Procedures

1. General Landscaping Maintenance

- Remove litter, debris, and trash from the landscape prior to mowing activities. Properly dispose of the materials in a designated receptacle.
- During blowing operations take care not to blow clippings, dirt, sand, or debris into storm drains or stormwater conveyance structures.
- After mowing or pruning activities, all debris should be disposed of at designated area.
- Five-day weather forecast should be checked to avoid fertilizing before heavy rain or during a drought. Fertilizers applications are made during period of maximum plant uptake based on plant species.
- Whenever possible, control soil erosion by seeding, sod, mats, mulching, terracing or other approved methods.
- Do not apply bark or mulch on top of plastic sheeting unless the area is enclosed. Bark or mulch on plastic is easily washed off by heavy rainfall.

Procedures during landscaping to prevent pollution

2. Landscaping Materials Storage

- All bagged materials (i.e. fertilizer, ice melt, etc.) must be stored indoors whenever possible. If they must be stored outdoors, place them under cover.
- All dry materials stored outside should be covered and when possible have secondary containment.
 - When storing stockpiles of sand, salt, dirt, mulch, gravel cover piles with a tarp.
 - Contain stormwater run-off from stock piles using a barrier or berm.
- Place containers on paved or impervious surfaces and as far from (or at a lower elevation than) storm drain inlets and drainage ditches as possible.
- Provide a spill kit near storage areas.
- Clean-up any spills, leaks or discharges promptly.
- Inspect all containers stored outdoors regularly.
- If a container is found to be leaking, either empty the contents into a leak-tight container or place entire leaking container inside of a larger leak-tight container. Clean up any spills or leaks promptly.
- Do not drain accumulated water from secondary containment structures unless approved by a supervisor.

Procedures to prevent pollution from storage of materials

SWPPP TOUR: SPILLS & LEAKS

Table 1: SWPP Plan Elements

Description	Plan Location
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Internal Reporting

Employees

- Notify supervisor immediately:
 - What spilled?
 - How much?
 - Where is it?

Supervisors

- **If it poses no immediate danger to human life/property AND is <5 gallons:**
 - Clean up immediately per appropriate SOP
 - Notify MS4 Program Manager (4-8700)
- **If it is a hazardous substance posing immediate danger to human life/property AND is <5 gallons:**
 - Notify CNU Police (4-7777)
 - Notify EHS Director (4-7280)
 - Notify MS4 Program Manager (4-8700)
- **If it is >5 gallons (any substance):**
 - Notify CNU Police (4-7777)
 - Notify EHS Director (4-7280)
 - Notify MS4 Program Manager (4-8700)

External Reporting

Hazardous & Unknown Substances >1 pint:

- Call CNU Police (4-7777)
- Notify Virginia DEQ (757-518-2000)
- Notify National Response Center (800-424-8802)
- If **night, weekend, or holiday**, notify Virginia Dept of Emergency Management's 24-hr hotline (800-468-8892)

Any spill of any pollutant reaching storm drains or entering "waters of the state":

- Notify Virginia DEQ within 24hrs of release/suspected release (757-518-2000)

>25 gallons of petroleum spilled OR any amt that causes sheen on nearby surface water:

- Notify Virginia DEQ (757-518-2000)
- Notify National Response Center (800-424-8802)

SWPPP TOUR: SPILLS & LEAKS

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SOP:	Spill Prevention, Control, Clean Up and Reporting
Purpose of SOP:	Procedures for spill prevention, control, clean up and reporting.
SOP Administrator:	Grounds Department
Responsible Department:	All

Managers and Supervisors are responsible for ensuring that employees are properly informed of and trained on how to follow the procedures for this SOP. Contractors should also be notified to follow SOP while working for the University.

I. Stormwater Protection Equipment and Materials

- Spill Kit and equipment for dry clean up (socks, absorbent pads, absorbents, broom, and dustpan)
- Storm drain inlet protection (drain covers, booms, berms)

II. Standard Operating Procedures

1. **Spill Prevention**
 - a. Whenever possible, liquid or hazardous materials should be handled, used, stored, re-packing, and transferred indoors or under cover.
 - b. Deliveries of bulk liquids should be supervised. Down gradient storm drain inlets should be covered during deliveries.
 - c. Cover and contain containers, materials, and wastes.
2. **Spill Kit Maintenance**
 - a. Spill kits are located at each high priority area identified in the SWPPP.
 - b. Each department manager is responsible for spill kit(s) inventory and the reordering of supplies.
3. **Spill Clean Up and Storm Drain Protection**
 - Clean up minor spills (< 5 gallons) immediately.
 - Block any down gradient storm drains with berms, covers, absorbent socks or "pigs".
 - Never hose down spills or leaks.
 - Always use "Dry Clean-up Methods" for clean-up of liquid spills (gasoline, diesel, paint, kitchen grease).
 - Absorbents (loose absorbents, sheets, pillows, pigs, or socks) on the spill.
 - Spread Sweep up or pick up the absorbed materials.
 - Dispose of wastes properly and in accordance with all regulations.
 - If fluids are leaking or have spilled on an impermeable surface, such as a roadway, locate nearest down gradient storm drain and dike or berm the drain to prevent fluids from entering it.
 - After clean up, be sure to sweep up the contaminated absorbent and remove the berm or dike at storm drain.
 - If fluids are leaking or have spilled on a permeable surface, such as gravel, soil or grass, mark the area and report the spill your supervisor.

SWPPP TOUR: CONTROL MEASURES

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I. POTENTIAL POLLUTANT SOURCE AREA INSPECTION AND BMP EVALUATION

Vehicle/Equipment Areas

Equipment cleaning:

- Is equipment washed and/or cleaned only in designated areas?
- Observe washing: Is all wash water captured and properly disposed of?

Equipment fueling:

- Are all fueling areas free of contaminant buildup and evidence of chronic leaks/spills?
- Are all chemical liquids, fluids, and petroleum products, on an impervious surface that is surrounded with a containment berm or dike that is capable of containing 10% of the total enclosed tank volume or 110% of the volume contained in the largest tank, whichever is greater?
- Are structures in place to prevent precipitation from accumulating in containment areas?
 - If not, is there any water or other fluids accumulated within the containment area?
 - Note: If containment areas are not covered to prevent water from accumulating, the SWPPP must include a plan describing how accumulated water will be managed and disposed of.

Equipment maintenance:

- Are maintenance tools, equipment and materials stored under shelter, elevated and covered?
- Are all drums and containers of fluids stored with proper cover and containment?
- Are exteriors of containers kept outside free of deposits?
- Are any vehicles and/or equipment leaking fluids? Identify leaking equipment.
- Is there evidence of leaks or spills since last inspection? Identify and address.
- Are materials, equipment, and activities located so that leaks are contained in existing containment and diversion systems (confine the storage of leaky or leak-prone vehicles and equipment awaiting maintenance to protected areas)?

Add any additional site-specific BMPs:

Good Housekeeping BMPs

Are paved surfaces free of accumulated dust/sediment and debris?

- Date of last quarterly vacuum/sweep
- Are there areas of erosion or sediment/dust sources that discharge to storm drains?

Are all waste receptacles located outdoors:

- In good condition?
- Not leaking contaminants?
- Closed when is not being accessed?
- External surfaces and area free of excessive contaminant buildup?

Are the following areas free of accumulated dust/sediment, debris, contaminants, and/or spills/leaks of fluids?

- External dock areas
- Pallet, bin, and drum storage areas
- Maintenance shop(s)
- Equipment staging areas (loaders, tractors, trailers, forklifts, etc)
- Around bag-house(s)
- Around bone yards

Other areas of industrial activity:

Spill Response and Equipment

Are spill kits available, in the following locations?

- Fueling stations
- Transfer and mobile fueling units
- Vehicle and equipment maintenance areas

Do the spill kits contain all the permit required items?

- Oil absorbents capable of absorbing 15 gallons of fuel.
- A storm drain plug or cover kit.
- A non-water containment boom, a minimum of 10 feet in length with a 12 gallon absorbent capacity.
- A non-metallic shovel.
- Two five-gallon buckets with lids.

Are contaminated absorbent materials properly disposed of?

General Material Storage Areas

- Are damaged materials stored inside a building or another type of storm resistance shelter?
- Are all uncontained material piles stored in a manner that does not allow discharge of impacted stormwater?
- Are scrap metal bins covered?
- Are outdoor containers covered?

Stormwater BMPs and Treatment Structures

Visually inspect all stormwater BMPs and treatment structures devices, discharge areas infiltration and outfalls shown on the Site Map.

- Are BMPs and treatment structures in good repair and operational?
- Are BMPs and treatment structures free from debris buildup that may impair function?
- The permit requires Permittees to clean catch basins when the depth of debris reaches 60% of the sump depth. In addition, the Permittee must keep the debris surface at least 6 inches below the outlet pipe. Based on this, do catch basins need to be cleaned?
- Are berms, curbing or other methods used to divert and direct discharges adequate and in good condition?

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Are all waste receptacles located outdoors:

- In good condition?
- Not leaking contaminants?
- Closed when is not being accessed?
- External surfaces and area free of excessive contaminant buildup?



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General Tips and Tricks!

- Don't need it? Throw it away!
- Securely cover stockpiles with tarps
- Put erodible materials on pallets & under cover
- Store equipment under cover
- Keep areas swept and clean!
 - Clean spills and leaks promptly with dry methods
- Perform maintenance only in designated areas

Together, we can keep our waterways safe!

SWPPP TOUR: SCHEDULES & PROCEDURES

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- Routine Inspections
 - Performed by contractors yearly
 - Inspection will look for:
 - Materials, residue, or trash that could come into contact w/ stormwater
 - Leaks or spills from industrial equipment or containers
 - Sediment where vehicles enter/exit area
 - Control measures needing replacement/maintenance
 - Documentation of results will be kept with SWPPP
- Visual Assessment of Stormwater Discharges

The background of the slide is a light gray gradient, decorated with numerous realistic water droplets of various sizes. These droplets are scattered across the page, with a higher concentration in the top-left and bottom-right corners. A solid blue rectangular box is centered horizontally and vertically, containing the text "THANK YOU!".

THANK YOU!



CNU

HOUSEKEEPING

Training Sign in Sheet

Facilitator: Lydell Ruffin

Employee Name	Signature/Date	Topic	Shift
Lydell Ruffin	Lydell Ruffin 6-25-25	Stormwater Training	3 rd
Mark SHELL	Mark Shell 6-25-25	↓	↓
Michael Tarpley	Michael Tarpley 6-25-25		
Jermaine McPhatter	Jermaine McPhatter 6-25-25		
GARY Alston	Gary Alston 6/25/25		
Pamela Tarpley	Pamela Tarpley 6/25/25		
Ebed Berkeley	Ebed Berkeley 6/25/25		
Toriana Estenly	Toriana Estenly 6/25/25		
THOMAS WARR	Thomas Warr 6/25/25		
Charles (MAYES)	Charles Mayes 6/25/25		
Robert Jones	Robert Jones 6/25/25		
Bryan Perry	Bryan Perry 6/25/25		
Danell Whitehead	Danell Whitehead 6/25/25		
Jeff Newell	Jeff Newell 6/25/25		
Thomasine Williams	Thomasine Williams 6/25/25		
Marlene Mitchell	Marlene Mitchell		
MARION MATTHEWS	Marion Matthews		
Spencer L. Hicks	Spencer L. Hicks		
Lauren Craft	Lauren Craft 6/25/25		
Floyd West	Floyd West 6-25-25		
DALE West	DALE West 6-25-25		
Dalzhaura Jones	Dalzhaura Jones 6-25-25		
Eugenia West	Eugenia West 6-25-25		
Linnwood Johnson	Linnwood Johnson 6/25/25		