

Radford University

Small Municipal Separate Storm Sewer System (MS4)

Annual Report July 1, 2018 through June 30, 2019

General VPDES Permit No. VAR 040136

Effective Date: November 1, 2018

Expiration Date: October 31, 2023

Submittal Date: October 2019

Facilities Management
P.O. Box 6909
Radford, VA 24142

Submitted to:

Department of Environmental Quality (DEQ)

P.O. Box 1105

Richmond, Virginia 23218

MS4 Annual Report July 1, 2018 through June 30, 2019

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Minimum Control Measure No. 1: Public Education and Outreach

Annual Reporting Requirements

Per VAR040136 MCM 1, g. The annual report shall include:

1. A list of the high-priority stormwater issues the permittee addressed in the public education and outreach program

- Vehicle Maintenance (Petroleum Releases)
- Trash Elimination and Recycling
- Pet Waste

2. A list of the strategies used to communicate each high-priority stormwater issues:

- Developed information flyer dedicated to our three high priority water quality issues.
- Created and posted an informational video on car maintenance that is located on the MS4 website.
- Use social media to get the word out on sustainable activities that could potentially have effects on storm water issues. Facebook: RU Green Facebook account (220 followers). Twitter: https://twitter.com/sustainable_RU (728 followers)

Minimum Control Measure No. 2: Public Participation/Involvement

Annual Reporting Requirements

Per VAR040136 MCM 2, f. MS4 Annual Report shall include:

1. A summary of any public input on the MS4 program received (including stormwater complaints) and how the permittee responded:

- No public input was received during the reporting period of July 2018 – June 2019

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

- Radford University's MS4 Webpage can be found at:
<https://www.radford.edu/content/sustainability/home/resources/stormwater-management.html>

3. A description of the public involvement activities implemented by the permittee:

Radford University participated in the following public involvement activities:

- The annual "Renew the New" every August. (**Restoration**)
- Booth at the campus club fair in August (**Education**)
- Household hazardous waste in April. (**Disposal**)
- Storm rain marking program (**Pollution Prevention**)

4. A report of the metric as defined for each activity and an evaluation as to whether or not the activity is beneficial to improving water quality:

- See Appendix A

5. The name of other MS4 permittees with whom the permittee collaborated in the public involvement opportunities:

- City of Radford
- Town of Blacksburg

Minimum Control Measure No. 3: Illicit Discharge Detection and Elimination

Annual Reporting Requirements

Per VAR040136 MCM 3, e. annual report shall include:

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

- See Appendix B
- Information can also be accessed through Radford University's MS4 website <https://www.radford.edu/content/sustainability/home/resources/stormwater-management.html>

2. The total number of outfalls screened during the reporting period as part of the dry weather screening program:

- See Appendix B
- Information can also be accessed through Radford University's MS4 website <https://www.radford.edu/content/sustainability/home/resources/stormwater-management.html>

3. A list of illicit discharges to the MS4 including spills reaching the MS4 with information as follows:

(a) The 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 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.

- See Appendix B

Minimum Control Measure No. 4: Construction Site Runoff Control

Annual Reporting Requirements

Per VAR040136 Part 1 MCM 4, d. The annual report shall include:

1. If the permittee implements a construction site stormwater runoff program in accordance with Part I E 4 a (3):

(a) A confirmation statement that land disturbing projects that occurred during the reporting period have been conducted in accordance with the current department approved standards and specifications for erosion and sediment control:

- Radford University confirms all land-disturbing projects that occurred during the reporting period have been conducted in conformance with Radford University's Annual Standards and Specifications for Erosion and Sediment Control and Stormwater Management (AS&S), as approved by DEQ.
- See Appendix C

(b) If one or more of the land disturbing projects were not conducted with the department approved standards and specifications, an explanation as to why the projects did not conform to the approved standards and specifications.

- All land disturbing projects were conducted in compliance with approved standards and specifications.
- See Appendix C

2. Total number of inspections conducted

- No DEQ inspections were required for land-disturbing projects that occurred during the reporting period. Radford university performed regular inspections as required by the Annual Standards and Specifications for Erosion and Sediment Control and Stormwater Management (AS&S).
- See Appendix C

3. The total number and type of enforcement actions implemented and the type of enforcement actions.

- There were no enforcement actions implemented during the reporting period.
- See Appendix C

Minimum Control Measure No. 5: Post-Construction Stormwater Management

Annual Reporting Requirements

Per VAR040136 Part 1 MCM 5, i. The Annual Report will include:

1. the permittee implements a Virginia Stormwater Management Program in accordance with Part I E 5 a (1) and (2):

(a) The number of privately owned stormwater management facility inspections Conducted:

- Radford University has 10 BMP 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:

- Please see Appendix D

2. *Total number of inspections conducted on stormwater management facilities owned or operated by the permittee:*

- Please see Appendix D

3. *A description of the significant maintenance, repair, or retrofit activities performed on the stormwater management 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:*

- Please see Appendix D

4. *A confirmation statement that the permittee submitted stormwater management facility information through the Virginia Construction Stormwater General Permit database for those land disturbing activities for which the permittee was required to obtain coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities in accordance with Part I E 5 f or a statement that the permittee did not complete any projects requiring coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities:*

- Please see Appendix D

5. *A confirmation statement that the permittee electronically reported BMPs using the DEQ BMP Warehouse in accordance with Part I E 5 g and the date on which the information was submitted:*

- Please see Appendix D

Minimum Control Measure No. 6: Pollution Prevention/Good Housekeeping

Annual Reporting Requirements

Per VAR040136 Part 1 MCM 6, q. The Annual Report will include:

1. A summary of any operational procedures developed or modified in accordance with Part I E 6 a during the reporting period:

- April 2019 Thompson & Litton created and provided SWPPs for Radford University. These written procedures were designed to minimize or prevent pollutant discharge from daily operations, equipment maintenance, and the application, storage, transport, and disposal of pesticides, herbicides, and fertilizers. These written procedures are utilized, as part of employee training.

2. A summary of any new SWPPPs developed in accordance Part I E 6 c during the reporting period:

- Please see the attached copies of the Stormwater Pollution Prevention Plan (SWPPP) and Standard Operating Procedures (SOP) appendix E

3. A summary of any SWPPPs modified in accordance with Part I E 6 f or the rationale of any high priority facilities delisted in accordance with Part I E 6 h during the reporting period:

- No SWPPs were modified during this reporting period.

4. A summary of any new turf and landscape nutrient management plans developed that includes:

(a) Location and the total acreage of each land area

(b) The date of the approved nutrient management plan

- Our current nutrient management plan approved by the department of conversation and recreation is valid from March 15, 2018 – March 15, 2021. So there was no new turf and landscape nutrient management plans created during this reporting period.

5. A list of the training events conducted in accordance with Part I E 6 m, including the following information:

(a) The date of the training event;

(b) The number of employees who attended the training event; and

(c) The objective of the training event.

- Please see appendix E

Appendices



Appendix A

Radford University participates in Renew the New River volunteer effort

Radford University's student volunteers helped clean up the New River on Aug. 25th, 2018. Students participated in the Montgomery County clean-up at the Whitethorne Boat Ramp.



GILES COUNTY

Meet at Camp Success
Lurich Road
Narrows, VA • 8:30 AM

PULASKI COUNTY

Meet at Belspring Park
7860-7866 State Rte 617
Belspring, VA • 8:00 AM

MONTGOMERY COUNTY

Meet at Whitethorne Boat Ramp
5277 Whitethorne Road
Blacksburg, VA • 8:30 AM

CITY OF RADFORD residents are encouraged to register and attend the Pulaski County clean-up

ALL RESIDENTS OF THE NRV are invited to register and attend a clean-up of their preference

REGISTER ONLINE AT: www.renewthenew.org

RADFORD MOVE IN

THURSDAY, AUGUST 23

7:30AM - 7:30PM BOOKSTORE IS OPEN
3:00PM - 9:00PM STUDENT RECREATION AND WELLNESS CENTER IS OPEN
4:00PM - 12:00AM GAME ROOM IS OPEN

4:00PM - 5:00PM BODYPUMP™ FITNESS PARTY

5:30PM - 6:30PM ZUMBA® FITNESS PARTY

7:00PM - 8:00PM YOGA FITNESS PARTY

In front of the Student Recreation & Wellness Center
 (Rain site: inside the Student Recreation & Wellness Center)
Provided by Student Recreation & Wellness

7:00PM WOMEN'S SOCCER VS WOFFORD

Cupp Memorial Stadium
Provided by Radford Athletics

9:00PM MOVIE ON THE LAWN: BLACK PANTHER

Muse Lawn
 (Rain site: Student Recreation & Wellness Center, MAC Court)
 Coca-Cola floats, giveaways, Bookstore trailer
Provided by Student Life, R-SPaCE, Radford University Bookstore

FRIDAY, AUGUST 24

7:30AM - 7:30PM BOOKSTORE IS OPEN
3:00PM - 9:00PM STUDENT RECREATION AND WELLNESS CENTER IS OPEN
4:00PM - 12:00AM GAME ROOM IS OPEN

4:00PM - 5:00PM HIGHLANDER TRAINING FITNESS PARTY

5:30PM - 6:30PM CYCLE FITNESS PARTY

In front of the Student Recreation & Wellness Center
 (Rain site: inside the Student Recreation & Wellness Center)
Provided by Student Recreation & Wellness

9:00PM GET YOUR GAME ON

Bonnie Cafe Stage
 Finger foods, bowling, billiards, trivia, prizes, personalized license plates and jock socks
Provided by Student Life, R-SPaCE

Get Active. Get Involved. Have Fun.

#MOVEINRADDY

All events are free with a Radford University ID.

RADFORD UNIVERSITY

SATURDAY, AUGUST 25

9:30AM - 6:00PM BOOKSTORE IS OPEN

11:00AM - 6:30PM CHRISTIANSBURG AQUATIC CENTER IS OPEN

11:00AM - 9:00PM STUDENT RECREATION & WELLNESS CENTER IS OPEN

2:00PM - 12:00AM GAME ROOM IS OPEN

7:30AM RENEW THE NEW

Shuttle leaves from the Student Recreation & Wellness Center
 Clean up the New River with RU Outdoors
Provided by Student Recreation & Wellness

8:00AM - 1:00PM FARMER'S MARKET

401 West Main Street
 Free Radford Transit to NRVCs parking lot
Provided by the City of Radford

2:00PM - 6:00PM PARTY ON THE LAWN

Moffett Field (Rain site: Student Recreation & Wellness Center)
 Inflatables, food, tie-dying, Dog Walk Race, plogging, games, flag football, bubble balls
Provided by Student Recreation & Wellness, Student Life

8:00PM - 10:00PM LATE NIGHT BREAKFAST

Bonnie Cafe Stage
 Pancakes and waffles
Provided by Student Life

10:00PM - 1:00AM THE CHILL EVENT

Bonnie Cafe Stage
 Coffee and snacks
Provided by InterVarsity Christian Fellowship, Young Life and Campus Outreach

11:00PM - 2:00AM IN LIVING COLOR LATE NIGHT PARTY

Student Recreation & Wellness Center, MAC Court
Provided by the Diversity Awareness Programming Board

SUNDAY, AUGUST 26

9:30AM - 6:00PM BOOKSTORE IS OPEN

11:00AM - 11:00PM STUDENT RECREATION & WELLNESS CENTER IS OPEN

1:00PM - 6:30PM CHRISTIANSBURG AQUATIC CENTER IS OPEN

2:00PM - 11:00PM GAME ROOM IS OPEN

12:00PM ART IN THE GARDEN FESTIVAL

Sculpture Court and East Lobby of Porterfield
 Ceramics, art games, print-a-shirt, pizza
Provided by the Art Department

2:00PM CAMPUS & CITY TOUR

Meet at the campus fountain
 Join Radford City Mayor, David Horton for a tour of campus and the city
Provided by the Art Department

5:00PM START STUDENT CONVOCATION, CLASS OF 2022 PHOTO, CLASS OF 2022 PICNIC

McConnell Lawn, Heth Lawn, then outside Muse Hall
Provided by the President's Office and Student Life



NEW RIVER WATERSHED ROUNDTABLE QUARTERLY MEETING
New River Valley Business Center | New River Room
August 29th, 2018 | 10:30 AM to 12:00 PM

ATTENDING

Ann Goette ReNew the New Committee	Kevin Byrd NRVRC
Bill PedigoTown of Pulaski	Laura WaltersNew River Conservancy
Brad Buchanan.....Montgomery County	Laurie BuchwaldPathways for Radford
Cathy Hanks Friends of Peak Creek	Mark Gordon New River Adventure
Cheri Strenz..... Friends of Claytor Lake	Megan Scott VA Department of Transportation
Hailee Goolsby Virginia Tech	Michael Gottfredson NRVRC
James Moneymaker.....VA Department of Environmental Quality	Mike Harvey NRVRC Board Member
John BurkeMontgomery County	Patricia Colatosti Town of Christiansburg
Josh Nease Radford University	Ralph Robertson.....ReNew the New Committee
Kayla East.....New River Adventure	Steve KnowlesAppalachian Power
Katelyn Kast Virginia Tech SID	George SantucciNew River Conservancy

NOTES

Welcome

- Kevin Byrd welcomed the group.

Report

- ReNew the New Clean-up Event 2018
 - Results:

<u>Year</u>	<u>Tonnage</u>	<u>Tires</u>	<u>Bags</u>	<u>Distance</u>	<u>People</u>
2016	4	150	200	10	450
2017	12	400	350	30	475
2018	5	130	325	13	350
Total	21	650	875	50	1275

- What Went Well:
 - Weather
 - Useful equipment (rebar hooks)
 - No major injuries
 - Allergy awareness during safety briefings

- Improvements:
 - Full locality participation
 - Clear communication of clean-up sites
 - Improve means of transportation
 - Improve waiver length, clarity
 - More safety equipment for land crews (visibility vests, etc)
 - Improve registration through Wednesday/Friday email; set deadline to guarantee place on boat crew
 - Dress needs to be appropriate for clean-up
 - Perhaps a raindate?
 - Ensure safety briefing happens
 - Provide press release/ media cheat sheet to localities
 - Coordinate future dates with localities
 - Better coordination of equipment
 - Review t-shirts: by locality? Date? Should they be sold?
 - Develop more partnerships with other organizations
- NRVRC to follow-up with group on potential improvements.

Follow-Up Items

- New River Water Watchers Report
 - George Santucci reported on the New River Water Watchers program. Data collected is under review, and will be hosted at the [New River Conservancy's](#) website. Would like to see better participation in Montgomery County. Will compile a report to present next time. Josh Nease to follow up with Radford University students and staff for volunteers.
- New River Water Trail Expansion
 - Mr. Gottfredson reported on recent New River Water Trail Expansion activities.
 - Localities have included monies in their budgets to go towards expanded New River Water Trail signage.
 - The NRVRC is partnering with NRV localities on a POWER Grant to expand the New River Water Trail from Pulaski County to Hinton, West Virginia. This would include monies going to boat access construction and improvements, signage, improved website, and marketing materials

Report Out

- John Burke suggested the different MS4 permittees coordinate promotional material.
- Laurie Buchwald endorsed the idea of a regional trail from Abingdon, through the New River Valley, to the Roanoke Valley.
- Swiftwater Rescue: resources needed to assist swiftwater rescue on the New River
- Friends of Claytor Lake: recruiting volunteers for water quality testing around Claytor Lake
- Friends of Peak Creek: engaging in clean-up of Peak Creek "doodle dust"
- Giles County: new boat ramp with facilities to be constructed at Eggleston; Narrows to further develop outdoor recreation through grant projects; ACCE Race needs volunteers.
- Montgomery County: currently there are parking restrictions at the Whitethorne Boat Launch

Radford University participates in Campus Club Fair



Due to the new permit being received in November of 2018. Radford University stormwater management did not participate in club fair August 2018. Using the new permit Radford University has committed to using this event in our program plan moving forward. Radford University did participate this past August 2019 and will plan to do so every year. Below is the email about club fair along with picture and sign in sheet. This information will be added to next year's Report.

Fall Club Fair is this Friday, August 30th from 2:30 pm – 5:00 pm on Moffett Lawn. The rain location is the Student Recreation and Wellness Center. This is a great opportunity for students to get connected with faculty, staff, other students and find community on campus! We would love to see you there!

Attention Club Advisors: There will be day-of tables available on a first come, first served basis for clubs who were unable to register prior to the deadline. Clubs interested in a day-of table will need to check in at the SOAR table to get a location assignment. All clubs can start setting up their tables at 1:30 pm.

Please also join us for the Fall Club Advisor Social on September 13th from 11:30 am – 1:00 pm in Heth Hall, Room 016. This is a great chance to meet other advisors, learn about changes happening this year for clubs and ask lots of questions!

Questions may be directed to Liz Craft, Assistant Director of Student Life, at ecraft5@radford.edu.

This message sent on behalf of the department of Student Involvement



[MS4 Club Fair] sign-in sheet

Location: [Moffett Lawn] Date: [8/30/2019] Time: [Time:00]

Name	Email
1 Timberlygh Blevins	tblevins6@radford.edu
2 Gunther M. Cooper	gcooper24@radford.edu
3 Hendra Collins	hcollins56@radford.edu
4 Adam McMullen	amcmullen1@radford.edu
5 Ben Bailey	bbailly23@radford.edu
6 Holly Cline	hcline@radford.edu
7 Skyler Redford	Sredford4@radford.edu
8 Madelynn Alexander	Malexander11@radford.edu
9 Bredly S. Ormsell	Lybecca@venezan.net
10 Bowen Schockoff	Bschockoff6@radford.edu
11 Jolene Morris	JMorris108@radford.edu
12 M. Carlson	MICARSON E RADFORD.EDU
13 Beth Blake Bailey	bbailly22@radford.edu
14 Alex P. Cobb	Alexcobb@radford.edu
15 Die Chambers	Schambers15@radford.edu
16 Devon Fox	Dfox22@radford.edu
17 Melanie Lewis	mlewis101@radford.edu
18 Hillary Gaskins	hgaskins@radford.edu
19	

Radford University participates in Regional Household Hazardous waste collection

Radford University, in conjunction with New River Resources Authority, held a (HHW) collection event on Saturday April 27th, 2019. The event was held on Radford University property, staffed by waste authority and university employees. The event was visited by 219 cars/citizens that brought something that day HHW, Document Shredding, or E-waste.

NRV Regional Household Hazardous Waste Collection Day



Residents served by the New River Resource Authority are invited to participate in the Regions HHW Event on Saturday, April 27, 2019 from 9:00 a.m. to 2:00 p.m. at the Radford University Student Outdoor Recreation Complex, Lot BL 309 E. Main Street, Radford, Va.

Questions regarding the types of material accepted may be directed to your locality in Radford 731-3631, Pulaski PSA 674-8720, Giles PSA 921-2499, Dublin 674- 4798, Blacksburg 443-1212, Christiansburg 382-6128, NRRA 674-1677, MRSWA 381-2820.

**NO COMMERCIAL WASTE or COMMERCIAL VEHICLES will be accepted for HHW
COMMERCIAL WASTE & COMMERCIAL VEHICLES WILL BE ACCEPTED FOR DOCUMENT
SHREDDING & ELECTRONIC WASTE.**

NRRA WILL BE ACCEPTING PLASTIC BAGS

This program is sponsored by

The New River Resource Authority

Radford University participates in storm drain marking

Radford University has participated and is maintaining the “Storm Inlet Marking” program. This program involves labeling stormwater inlets, with a marker educating residents not to dump pollutants into the stormwater inlet. The message, “No Dumping, Drains to Waterways” is a simple phrase to remind those passing by that the stormwater inlets connect to local waterways and that dumping will pollute those waters. In Late May early June during the outfall inspection I use the storm drain inventory map and identify the drains that directly lead to the river. These drains are identified with a medallion. 6 missing or damaged medallions were replaced at this time.



Appendix B

Illicit Discharge Detection and Elimination

The 34 outfalls listed on the ORI report were investigated on 6/27/2019. From the initial mapping and investigations, no outfalls were adjusted at this time. The MS4 map and corresponding database are attached to this document but also can be viewed at

<https://www.radford.edu/content/sustainability/home/resources/stormwater-management.html>

Previous flow testing had revealed that the Fitness Center, Science and Humanities HVAC system discharges into the existing storm drainage system. This accounts for the various levels of ammonia detected at times from the units as the flow is monitored.

Prior to the annual investigation and inspection last year, **RU-NR-5** was tested due to a strong septic odor and cloudy look. RU staff took samples and submitted them for testing. The results indicated septic leakage into the system. RU staff immediately investigated and located the source off campus in the City of Radford. RU staff notified the City and assisted in locating the source to Calhoun Street. Radford City located the source last year and corrected the issue. During this year's flow test, some ammonia was present, but no odor or other septic was present. It is advised to keep monitoring this area to see if there are any spikes in ammonia or septic due to its history.

MAP CHANGES

NONE.

FLOW TESTS

RU-BU-2 stream flow tested with no indicators of illicit discharge.

RU-NR-1 stream flow tested with no indicators of illicit discharge.

RU-NR-5 stream flow tested with no indicators of illicit discharge.

RU-NR-7 stream flow tested with no indicators of illicit discharge.

RU-EM-2 Flow tests indicated no levels of Ammonia. Flow traced through campus to roofdrains at the Science Building. Had Ammonia previously.

RU-EM-4 Flow tests indicated levels of Ammonia. Flow traced through campus to roofdrains at the Humanities Building.

RU-JE-6 Flow tests indicated levels of Ammonia. Flow traced to roofdrains at the Fitness Center.

MAINTENANCE CONCERNS (On Radford University Property)

RU-NR-3, RU-EM-6, RU-NS-4, RU-NS-5 RU-BM-1 Cleanup/debris

RU-NR-2, RU-NS-5 Maintenance/Repairs

MAINTENANCE CONCERNS (Outfall on City Property, Contact Radford City)

RU-NR-9, Maintenance/recommend Riprap

RU-NR-10, RU-JE-1, Cleanup/debris

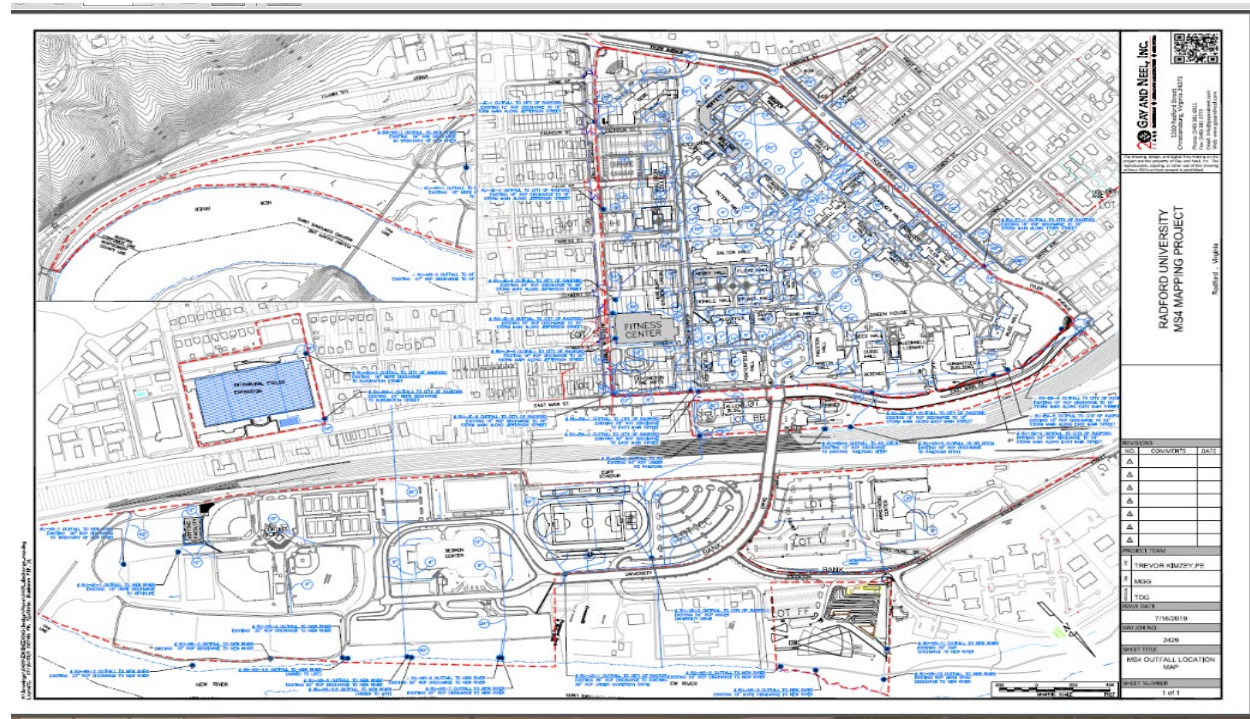
Note all outfalls flows will ultimately be conveyed to the New River. Since 2010, DEQ has generated several ambient water column and sediment PCB data in support of total maximum daily loads (TMDLs) for PCB polychlorinated biphenyls (PCBs) in the New River.

Outfall watersheds should be monitored for sediment and chemical discharges that could increase the TMDL. Any possible sources should be investigated prior to an illicit discharge event.

A DEQ Draft Report dated 2017 is available for details on specific sources of PCBs

Street Name/ Location	Outfall Number	Latitude	Longitude	Coordinate System	Data Source (Survey, Map, GPS)	Pipe Shape	Pipe Span (in)	Pipe Rise (in)	Receiving Feature	Subwatershed Area (ac)	Waterbody	HUC12	VAHU6 TMDL	Reconnaissance Date	ORI Date(s)	ORI Results	Notes
Jefferson St.																	
	RU-JE-1	37° 8'2.32"N	80° 32'57.90"W		Map	Round	12	12	18" Storm Main	3.4	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
	RU-JE-3	37° 8'6.73"N	80° 32'54.07"W		Map	Round	18	18	18" Storm Main	0.6	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
	RU-JE-4	37° 8'11.36"N	80° 32'50.30"W		Map	Round	24	24	30" Storm Main	2.1	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
	RU-JE-5	37° 8'12.10"N	80° 32'49.53"W		Map	Round	15	15	30" Storm Main	1.6	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
	RU-JE-6	37° 8'13.49"N	80° 32'48.32"W		Map	Round	18	18	30" Storm Main	0.8	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	Flow Tested	
	RU-JE-8	37° 8'16.14"N	80° 32'45.89"W		Map	Round	15	15	36" Storm Main	0.7	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
East Main St.																	
	RU-EM-1	37° 8'18.38"N	80° 32'49.63"W		Map	Round	24	24	East Main	9.8	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
	RU-EM-2	37° 8'18.67"N	80° 32'50.17"W		Map	Round	30	30	East Main	51.1	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	Flow Tested upstream near source	
	RU-EM-2.5	37° 8'25.05"N	80° 32'59.30"W		Map	Round	18	18	18" Storm Main	0.7	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
	RU-EM-4	37° 8'27.80"N	80° 33'6.22"W		Map	Round	24	24	24" Storm Main	1.7	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
	RU-EM-5	37° 8'28.00"N	80° 33'7.22"W		Map	Round	15	15	24" Storm Main	2.1	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	Flow Tested upstream near source	
	RU-EM-6	37° 8'27.88"N	80° 33'12.41"W		Map	Round	15	15	18" Storm Main	0.7	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
Tyler Avenue																	
	RU-TY-1	37° 8'22.29"N	80° 33'11.09"W		Map	Round	18	18	36" Storm Main	16.1	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Measurable flow	
Norfolk Southern Railroad																	
	RU-NS-1	37° 8'20.73"N	80° 32'48.13"W		Map	Round	54	54	54" Storm Main	1.4	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
	RU-NS-4	37° 8'24.79"N	80° 32'55.04"W		Map	Round	12	12	Ex. RR Ditch	0.9	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
	RU-NS-5	37° 8'25.50"N	80° 32'56.49"W		Map	Round	18	18	RR Ditch	0.2	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
New River																	
	RU-NR-1	37° 8'7.88"N	80° 32'11.46"W		Map	Round	36	36	Trib. Of New River	Offsite	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	Stream Flow tested	
	RU-NR-2	37° 8'14.88"N	80° 32'10.37"W		Map	Round	27	27	New River	9.9	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
	RU-NR-3	37° 8'17.24"N	80° 32'14.77"W		Map	Round	15	15	New River	2.1	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
	RU-NR-4	37° 8'19.52"N	80° 32'18.62"W		Map	Round	30	30	New River	9.5	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
	RU-NR-4.5	37° 8'19.52"N	80° 32'18.62"W		Map	Round	30	30	New River	Unknown	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
	RU-NR-5	37° 8'21.97"N	80° 32'22.07"W		Map	Round	60	60	New River	12.3	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	Stream Flow Tested	
	RU-NR-5.5	37° 8'21.97"N	80° 32'22.07"W		Map	Round	30	30	New River	Unknown	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
	RU-NR-6	37° 8'24.83"N	80° 32'27.21"W		Map	Round	30	30	New River	Unknown	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
	RU-NR-7	37° 8'25.09"N	80° 32'27.50"W		Map	Round	20	20	New River	10.2	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	Spring Flow Tested	
	RU-NR-8	37° 8'34.64"N	80° 32'41.17"W		Map	Round	24	24	New River	3.2	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
	RU-NR-9	37° 8'36.09"N	80° 32'42.66"W		Map	Round	18	18	New River	2.2	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
	RU-NR-10	37° 8'39.07"N	80° 32'45.70"W		Map	Arch	72	72	New River	3.2	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
	RU-NR-11	37° 8'37.33"N	80° 32'47.53"W		Map	Round	30	30	New River	3.2	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
University Drive																	
	RU-UD-1	37° 8'23.05"N	80° 32'34.37"W		Map	Round	36	36	36" RCP	6.5	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
	RU-UD-2	37° 8'25.83"N	80° 32'39.09"W		Map	Round	54	54	54" RCP	7.6	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
Burlington Street																	
	RU-BU-1	37° 8'7.21"N	80° 32'29.22"W		Map	Round	18	18	24" RCP	1.2	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	
	RU-BU-2	37° 8'3.59"N	80° 32'31.47"W		Map	Round	18	18	24" RCP	7.8	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	Stream Flow tested	
Athletic Fields																	
	RU-AF-1	37° 8'8.85"N	80° 32'15.39"W		Map	Round	15	15	To Trib of New River	4.6	New River - Connellys Run	50500011801	NES7	6/27/2019	6/27/2019	No Flow	

Note all outfalls flows will ultimately be conveyed to the New River. Since 2010, DEQ has generated several ambient water column and sediment PCB data in support of total maximum daily loads (TMDLs) for PCB polychlorinated biphenyls (PCBs) in the New River. Outfall watersheds should be monitored for sediment and chemical discharges that could increase the TMDL. Any possible sources should be investigated prior to an illicit discharge event. A DEQ Draft Report dated 2017 is available for details on specific sources of PCBs



Illicit Discharge Documentation

On 5/22/19 an illicit discharge to a storm drain near McConnell Library was reported to facilities management. I was dispatched to the location where I observed a pile of water softener salt at the bottom of the storm Drain. Facilities management employee was identified as the polluter. The salt was removed from the storm water drain within the hour of the report. I have attached photos, before and after cleanup, along with a safety data sheet of the product in question.

In accordance with the Radford University Illicit discharge detection and elimination (IDDE) program, this will be recorded and disclosed in the MS4 annual report. No other action were taken.

Before Clean Up



After Clean Up



MORTON SALT, INC.

Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name

• Common Salt without Additives

Synonyms

- All Purpose Natural Sea Salt
- All Purpose Purex Salt
- Bunny Spool (Plain Salt)
- California Pure Coarse Sea Salt
- California Pure Fine Sea Salt
- California Pure Medium Sea Salt
- Canning & Pickling Salt
- Commercial Grade, Water Softening Pellets
- Culinox 999 Chemical Grade Salt
- Culinox 999 Fine Salt
- Culinox 999 Food Grade Salt;
- Evaporated Granulated Salt
- Evaporated Salt Pellets
- Feed Mixing Salt
- Northern Rock, F & R
- Fine Mixing Salt
- Hi-Purity Super Soft Salt Extra Coarse Crystals
- H.G. Blending Salt
- Hay & Stock Salt, F&R
- Industrial Crude Solar Salt
- ISCO Crystals, Bulk
- ISCO Medium, Bulk
- ISCO Water Conditioning, Bulk
- KD Crude Solar Salt
- KD Industrial Salt
- Kleer Fine Salt
- Kleer Granulated Salt
- Mill Run Salt
- Natural Coarse Sea Salt
- Northern Fine +20 Rock Salt
- Plain Salt Block
- Plain Salt Brick
- Pool Salt
- Premium Salt Pellets
- Professional's Choice Pool Salt
- PureSun Culinary Crystals
- Purex Salt
- Purex Select Salt
- Reagent Grade Sodium Chloride
- Refined Sea Salt
- Rock Pretzel Salt
- Rock Salt for Making Ice Cream
- Safe-T-Salt (bagged w/o YPS)
- Sea Salt Grinder
- Sea Salt Grinder Refill
- Select Extra Coarse Rock Salt
- Service Pack Salt (all)
- Ship n' Shore Rock Salt
- Solar Salt Water Softening Crystals
- Stock Salt
- USP Sodium Chloride
- Valu-Soft Solar Salt
- Water Softening Salt (Undried) Coarse
- Water Softening Salt (Undried) Extra Coarse
- White Crystal Brine Block (50 lb.)
- White Crystal Rock Salt (all)
- White Crystal Solar Salt (all)
- White Crystal Water Softening Solar Salt (all)

CAS Number • 7647-14-5

Product Code • MSDS Code: 100

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) • Food, Chemical and Drug Processing; Pharmaceuticals; Water Conditioning; Ice Control; Chemical Feedstock – see product data sheets for more information

1.3 Details of the supplier of the safety data sheet

Manufacturer • Morton Salt, Inc.
123 N. Wacker Drive
Chicago, IL 60606
United States

Appendix C

#NAME?								
Regulated Land-Disturbing Activities								
19 September 2019								
RU will provide the following information on any regulated land-disturbing activity to DEQ Central Office no less than two weeks prior to the start of the activity:								
<ul style="list-style-type: none"> • Project name or project number • Project location (including nearest intersection, latitude and longitude, access point) • On-site Project Manager and contact information • Responsible Land Disturber (RLD) name and contact information • Project description • Area of disturbance for the project • Estimated disturbed acreage for individual projects must be reported in the following manner: <ul style="list-style-type: none"> ○ Linear Projects – beginning and ending coordinates, or ○ Site Development – central to polygon or point coordinates 								
Note: Coordinates may be reported by UTM (x, y, zone, and datum) or state plane (x, y, zone, and datum).								
<ul style="list-style-type: none"> • Project start and finish date • Any variances/exemptions/waivers associated with this project 								
Project Name	Location	Project Manager Contact Information	RLD Contact Information	Project Description	Estimated Area	Estimated Start Date	Estimated Completion Date	Comments
Reed and Curie Halls Renovation – Capital Project	Main Campus	Guy Rhodes grhodes2@radford.edu (540) 831-7756	Branch Construction	Limited utilities/site work to support building renovation	ES&C - less than 10,000 sf SWM - less than 1 acre	November 2017	December 2019	
1101 Grove Ave Renovation	1101 Grove Ave City of Radford	Lou Ferguson wferguso@radford.edu (540) 831-7781	In the bidding process	Limited site work to create positive drainage away from the building/building renovation	ES&C - less than 10,000 sf SWM - less than 1 acre	November 2019	March 2020	

Annual Standards and Specifications for Erosion and Sediment Control and Stormwater Management can be found on the Radford University website at: https://www.radford.edu/content/dam/departments/administrative/Facilities-Planning/RU_Annual_Standards_Specs_Rev4_full_doc.pdf

Appendix D

Post-Construction Stormwater Management

On 6/27/2019 Gay and Neel, Inc. investigated the 10 BMP facilities on campus to determine if they met compliance in regard to the original design as well as determining if the facilities were being maintained properly. The 2019 report completed by GNI referenced some of the original three main areas of concern for the existing facilities on campus:

- 1) Sediment accumulation,
- 2) Invasive species,
- 3) Excessive vegetation growth.

Radford University has been working on the areas of concern and has addressed many of the original concerns in the 2016 report and the 2018 report. The University has removed much of the excessive growth of the existing BMPs; however, the excessive growth needs to be managed and removed on a regular basis. We noted that in some cases, BMP's showed signs of excessive vegetative growth in certain areas of the facility.

The underground detentions have been maintained in good condition as well as the majority of the detention facilities. This report has seen some signs of increase in sediment in the underground facilities that are reaching the 5% mark and require removal.

The constructed wetland area had the most concerns from the previous reports and the current inspections show a significant effort to remove excess vegetation and to maintain the BMP; however, there needs to be more monitoring for invasive species and managing the excessive growth.

In summary, this report emphasizes the need to continue the sediment removal, maintain the existing BMPs and to keep any invasive species out of the existing Constructed Wetland BMP. However, we recommend increasing the maintenance schedule for each BMP in order to increase monitoring of sediment for removal, cleaning up slopes for inspection purposes and to increase monitoring for invasive species.

The report in its entirety can be viewed on the Radford University MS4 website at <https://www.radford.edu/content/sustainability/home/resources/stormwater-management.html>

Appendix E

Pollution Prevention/Good Housekeeping



Illicit Discharge Detection and Elimination (IDDE)

By definition, an illicit discharge is any discharge to a municipal separate storm sewer system that is not composed entirely of stormwater, except discharges pursuant to a separate VPDES or state permit (other than the state permit for discharges from the municipal separate storm sewer), discharges resulting from firefighting activities, In other words, an illicit discharge is the discharge of any substance into a storm sewer system that is **NOT** stormwater. Some examples of these substances include:

- Cleaning Supplies
- Construction Wastes (debris, sludge, etc.)
- Non-Residential Vehicle Wash
- Paint
- Vehicle Oil

Are there exceptions to this policy?

Yes! Below are examples of what is not an illicit discharge

- Fire Fighting Activities
- Dechlorinated Swimming Pool Discharges
- Landscape Irrigation and Lawn Watering
- Foundation/Footing Drains
- Water Line Flushing
- Discharges of Potable Water Sources
- Street Wash Water
- Air Conditioning Condensation

What should I do if I witness an illicit discharge?

Contact Radford University Facilities Management

If you notice any illicit discharges or have concerns about practices on Radford University grounds or construction projects please contact Facilities Management by phone at (540) 831-7800

Please be prepared to give the following information if possible:

Source of pollution.
Location of problem.
Responsible party (if known).
Date and time.

What is the difference between a storm sewer and a sanitary sewer?

Sanitary sewers are underground pipes that carries liquid from places like the bathroom, sinks, and kitchens to a wastewater treatment plant. Substances that enter sanitary sewers are filtered and treated before being discharged.

While storm sewers may seem similar they are only 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. At Radford University, many storm sewer inlets can be identified by the “No Dumping – Drains to Stream” medallion:



Want to find out more about Illicit Discharge Detection and Elimination?

Other resources can be found through the [EPA](#), or the [DEQ State General Permit](#).

RADFORD UNIVERSITY

Training Topic (Circle): Environmental Awareness, SPCC, UST Operator, Stormwater PP, SWPPP

Trainer: Neal Thompson

Date: 3/15/19 Time: 10:00

Location: Heth 022

Housekeeping

Employee SWPPP Training Sign-In Sheet

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Mike	SNider	HSKP	_____
Kelly	Branscome	HSKP	_____
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RADFORD UNIVERSITY

Training Topic (Circle): Environmental Awareness, SPCC, UST Operator, Stormwater PP, SWPPP

Trainer: Ned Thompson

Date: 3/15/19 Time: 10:00

Location: Heth 022

Housekeeping

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RADFORD UNIVERSITY

Training Topic (Circle): Environmental Awareness, SPCC, UST Operator, Stormwater PP, SWPPP

Trainer: Neal Thompson

Date: 3/15/19 Time: 10:00

Location: Heth 022

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Jessica	O'dell	Hskp	
Rima	Sloman	Hskp	
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