Marshall University MS4 Annual Report 2019

Permit WV R030043

Prawens Jacos 18 Jones

Brandi Jacobs-Jones Sr. VP of Operations One John Marshall Drive Huntington, WV 25755 12113119

Date

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Marshall University

Monitoring Results

Date	Permit Requirements	Analyses	Results (mg/L)	Method	Reporting Results (mg/L)
		nitrate	.11	E300.0	
4/14/19	Total Nitrogen	nitrite	ND	E300.0	.11
		TKN	ND	E351.2	
4/14/19	Total Phosphorous	Phosphorous	.02	SM4500-P	.02

Date	Permit Requirements	Analyses	Results (mg/L)	Method	Reporting Results (mg/L)
		nitrate	.161	E300.0	
10/30/19	Total Nitrogen	nitrite	ND	E300.0	28.16
		TKN	28.0	SM4500Norg(B+C)-11 +SM4500NH3-C-11	
10/30/19	Total Phosphorous	Phosphorous	2.60	LACHAT 10-115-01-F	2.60

V.	146	

Marshall University

2018-2019 Recycling vs Waste Comparison

<u>Marshall University Sustainability Department</u>

Productivity Report for 2018-2019

This report provides a general outline of the progress and accomplishments of the MU Sustainability Department during the 2018-2019 fiscal year.

2018/2019	Tons/mixed recyclables
Mixed recyclables	33.08 tons
Shredded Paper	8.03 tons
Scrap Metal	4.317 tons
Compost	2.09 tons

Other efforts through MU's EH&S Office for 2018/2019...

732 lbs. glass

8,000 lbs. "estimated weight" of CFL/fluorescent tube recycling

			1	ě
			12%	



MS4 ANNUAL REPORT FORM

For Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (MS4s)

Please see instructions before completing this form. If you need more space than allowed, please attach a document.

Abbreviations

BMP = Best Management Practice

IDDE = Illicit Discharge Detection and Elimination

MCM = Minimum Control Measure

SWMP = Storm Water Management Program

TMDL = Total Maximum Daily Load

WV = West Virginia

I. Small MS4 Operator Information				
 Annual report reporting period: 	September 30, 2018 to September 3	0, 2019		
2. Name of MS4: Marshall University		3. R	egistration nur	mber: WV R030043
4. Primary contact: Mark Buchanan		5. T	itle: Environmer	ntal Specialist
6. Mailing address: One John Marsh	all Drive			
7. City: Huntington	8. Zip code: 25755	9. C	ounty: Cabell	
10. Telephone number: 304-696-346	1			
11. Email: Buchanan7@marshall.edu				
II. Impaired Waters Information				
12. Does the MS4 discharge into imp	paired water bodies?		Yes	No ✓
13. Please provide a description of s	pecific BMPs that were implemer	ited to reduce p	ollutants of co	ncern in impaired
	hich a TMDI has been developed	•		•

14.	Has a TMDL been developed since your plan was approved?	Yes	No 🗸
III. I	iscal Reporting		
15.	Include or attach a fiscal analysis of capital and operating expenditures to i	mplement the MCM	ls. The fiscal
	analysis shall include only those expenditures by the locality seeking cover-		
	Permit and not those for MCMs implemented by other entities. (WV MS4 2		
16.	Please provide total capital expenditures for this reporting period.	\$ 16773.55	
17.	Please provide total operating expenditures for this reporting period.	\$65,773.55	

IV. C			_ (
Duri a va cam Hun	Please provide a description of the coordination efforts with other MS4s, county governments, to agencies, colleges, universities, correctional facilities, prisons, and any other entities regarding the implementation of the MCMs, including the status of any memoranda of understanding or other executed between the permittee(s) and any other entity. (WV MS4 2014 General Permit, p. 46, # ing the 2018-2019 program year Marshall University worked with multiple entities it ariety of stormwater related efforts. Activities included: Several on-campus outreach pus to the local school districts, MU students and the general public. Partners includington Sanitary Board, Fourpole Creek Watershed Association, the Cabell County hority, the Cabell County Health Department and the MU Sustainability Department	e agreemen 19) n the are h events luded the y Solid W	ts a on on
Mark Enviro Marsh Sorre Huntii	Please provide name and contact information for individual with overall program management a implementation responsibility, and if different, name and contact information of individuals responsibility minimum control measure. Please attach a table of organization. Buchanan control measure. Please attach a table of organization. Buchanan control measure. Please attach a table of organization. Buchanan control measure. Please attach a table of organization. Buchanan control measure. Please attach a table of organization. Buchanan control measure. Please attach a table of organization. Buchanan control measure. Please attach a table of organization. Buchanan control measure. Please attach a table of organization. Buchanan control measure. Please attach a table of organization. Buchanan control measure. Please attach a table of organization.		each
V. C	hanges to SWMP		
	Did any of your activities, BMPs, or measurable goals as outlined in your SWMP change during	Yes	No 🗸
20.		Yes Yes	No No
20.	Did any of your activities, BMPs, or measurable goals as outlined in your SWMP change during the reporting period? Do you anticipate any planned activities, BMPs, or goals as outlined in your SWMP to change	Yes V	No 🗌
20.	Did any of your activities, BMPs, or measurable goals as outlined in your SWMP change during the reporting period? Do you anticipate any planned activities, BMPs, or goals as outlined in your SWMP to change in the upcoming reporting period? If anything has changed, please indicate the MCM and performance measure and provide a brief below, and attach detailed documentation of the changes, schedule of implementation, measure overall effect on your program. (WV MS4 2014 General Permit, p. 24, #6 and #7)	Yes V	No 🗌
20.21.22.	Did any of your activities, BMPs, or measurable goals as outlined in your SWMP change during the reporting period? Do you anticipate any planned activities, BMPs, or goals as outlined in your SWMP to change in the upcoming reporting period? If anything has changed, please indicate the MCM and performance measure and provide a brief below, and attach detailed documentation of the changes, schedule of implementation, measure overall effect on your program. (WV MS4 2014 General Permit, p. 24, #6 and #7)	Yes V	No 🗌
20.21.22.	Did any of your activities, BMPs, or measurable goals as outlined in your SWMP change during the reporting period? Do you anticipate any planned activities, BMPs, or goals as outlined in your SWMP to change in the upcoming reporting period? If anything has changed, please indicate the MCM and performance measure and provide a brief below, and attach detailed documentation of the changes, schedule of implementation, measure overall effect on your program. (WV MS4 2014 General Permit, p. 24, #6 and #7)	Yes V	No 🗌
20.21.22.	Did any of your activities, BMPs, or measurable goals as outlined in your SWMP change during the reporting period? Do you anticipate any planned activities, BMPs, or goals as outlined in your SWMP to change in the upcoming reporting period? If anything has changed, please indicate the MCM and performance measure and provide a brief below, and attach detailed documentation of the changes, schedule of implementation, measure overall effect on your program. (WV MS4 2014 General Permit, p. 24, #6 and #7)	Yes V	No

23. Is additional documentation attached?

Yes

No **√**

_	MCM 1: Public Education and Outreach (WV MS4 2014 General Permit,)				
24.	Did you complete all the proposed activities and performance meas	ures for this MC	M for this	Yes 🔲	No 🚺
	reporting period?			Les	IND V
25.	Contact: Mark Buchanan	26. Phone: 30	4-696-3461		
	formance Measure 1a: Program implementation				
27.	Were the proposed activities for developing a public education and	outreach	Yes 🚺	Partially	№ П
	program implemented?				
28.	List and briefly describe each of the public education and outreach p		ment activi	ities undert	aken
	during this reporting period. (WV MS4 2014 General Permit, p. 46, #	•			
	ormwater webpage - MU maintains a stormwater web page providing information	n to students, facu	Ity, staff and	the general p	ublic
	ding stormwater impacts. Ident Organizations - MU ES works with multiple committees (Earth Day Comm	sittoo Troo Commi	too Groon T	rail Committe	
Envir	commental Collaboration Committee) to bring awareness to stormwater issues. N	lon-campus Organ	ization Meeti	ngs - and loc	al MS4
Colla	poration.			_	
	olic Awareness - MU will encourage and support articles in the student newspa inability.	per regarding storn	nwater, water	r quality and	general
	mability. it discharges - MU has made available the physical plant telephone numbers fo	or use by students	and staff to re	eport illicit dis	charges
or oth	er pollution concerns.				
5. Co	ntractor outreach/education - Make contractors aware by placing an educationa	al stormwater page	in the contra	cting docume	ents.
Dena	bsite/Social Media - In addition to the Stormwater webpage on the Environmer rtment maintains a robust presence on social media sharing information about	ital Health and Sati	ety site, the N ainable activi	/IU Sustainab ities including	ollity
activit	ies on MU Campuses. The ES submits posts regarding stormwater outreach/e	ducation, as well a	s current and	upcoming pr	ojects.
				-	
29.	Did you achieve all the goals that you identified in your SWMP relate	ed to developing	the	Ť I	
	education and outreach program for this reporting period? (WV MS-			Yes 🗾	Nd
	46, #3)	. Loui General	C, p.	· · · ·	""
30.	If not, please describe the progress you did make towards achieving	your goal(s) and	d any ohsta	cles and no	ssible
50.	solutions such as revised implementation schedules or revised measurements				331010
	changes to your SWMP goals or schedule, please include them in Se	,	ou are pro	posing any	
	(WV MS4 2014 General Permit, p. 46, #4)	ction v above.			
NI/A	(WW 18134 2014 General Fernitt, p. 40, #4)				
N/A					

Performance Measure 1b: Evaluation of effectiveness of public education and outreach efforts
31. Did you evaluate the effectiveness of the public education and outreach program? Yes 🗸 Partially No
32. How did you evaluate the effectiveness of the public education and outreach program in this reporting period?
(WV MS4 2014 General Permit, p. 46, #2)
MU evaluates the effectiveness of the program
with: 1. visits to the website: 866
2. Social Media engagement: 8700
3. Meetings Artended: 9
4. Illicit discharges reported: 0 5. Total number of interactions: 9390
5. Total number of interactions: 9390
6. Website Feedback: 0
33. Regardless of your answer to the previous question, have you identified new or better ways to
evaluate the public's understanding of your program and water quality issues?
34. If yes, please describe any changes you would like to consider to improve your evaluation of effectiveness of
outreach.
N/A

Performance Measure 1c: Documentation and tracking of public education and outreach	Performance Measure 1c: Documentation and tracking of public education and outreach efforts				
35. Did you track and keep records of your outreach activities?	Yes		Partia	ally	No
36. For print, radio, and television media activities, did you keep records that include i) a description of the content or theme; ii) the date of completion of the materials; iii) the date of release or distribution, and iv) the duration of air time or	Yes		No		NA 🗸
publication? (WV MS4 2014 General Permit, p. 46, #1)					.,
37. Are your records available upon request?	Yes	7	No	\sqcap	NA
38. For pamphlets, brochures, and other finite printed products, did you keep records that include: i) a description of the content or theme; ii) the date of completion of the materials; iii) the date of release or distribution; iv) the location or placement of the materials; and v) date of follow up visits to replenish or transition to the next outreach product? (WV MS4 2014 General Permit, p. 46, #1)	Yes		No		NA 🔽
39. Please describe any additional or alternative documentation and tracking of public e activities you are implementing.	ducat	tion a	and o	utreac	h
N/A					

VII.	MCM 2: Public Involvement and Participation (WV MS4 2014 General P				
40.	Did you complete all the proposed activities and performance mea	sures	for this MCM for this	Yes 🗸	No \square
	reporting period?			res 🗸	" U
41.	Contact: Mark Buchanan	42.	Phone: 304-696-3461		
Perf	ormance Measure 2a: Opportunities for ongoing public involvemen	nt and	participation in the SW	MP	
43.	Did you create, or are you in the process of creating, ongoing oppo				
	participate in the development, implementation, and updating of y			Yes 🗸	No
11	Did you achieve all the goals that you identified in your SWMP rela				
77.	maintaining ongoing opportunities for public involvement and part			Yes 🗸	No 🗍
	period? (WV MS4 2014 General Permit, p. 46, #3)	iicipu	ion for this reporting	, cs 🔻	ш"
45			r goal/s) and any obsta	clos and no	scciblo
45.	If not, please describe the progress you did make towards achieving				ssinie
	solutions such as revised implementation schedules or revised mea			osing any	
	changes to your SWMP goals or schedule, please include them in S	ectio	າ V above.		
	(WV MS4 2014 General Permit, p. 46, #4)				
N/A					
16	List and briefly describe each of the activities undertaken during the	ne rer	orting period to create	ongoing	
70.	opportunities for the public to participate in your SWMP. (WV MS-				
1: The	SWMP is posted to the webpage, Feedback is received through a survey link.	7 201	4 deliciai i cililit, p. 40,	" - /	
2 Stud	ents are used to help execute basic tasks with the plan when the opportunity allows, he community:				
Website/Social Media - MU's Sustainability Department maintains a robust presence on social media sharing information about all environmental/sustainable activities undertaken on Marshall's Campus including stormwater outreach and projects. (Approximately 8,700 contacts regarding stormwater related posts)					
Outrea	gs Acminitation during the projecting (Approximately 9, 196 defined to get along the project of the pents; lay Celebration at Marshall University - Vendors, program information and green roof tours for students, staff and the	ageneral	public to celebrate Earth Day (36) conta	rte)	
Water I	Festival at Marshall University - Eight Elementary Schools rotate through 12 different workstations each with a lessor	n regardir	g water quality taught by a variety of volu	inteers from Mars	nall University,
Sky-fes	orps of Engineers, WV DNR and WV DEP. (300 contacts) It at Marshall University - Twelve elementary schools rotate through eighteen different workstations covering a variet	y of scier	ce themed topics. Sessions are lead by N	MU staff, and volu	nteers from a
Rain-ba	of stale and federal agencies. (300 contacts) arrel Workshop with Fourpole Creek Watershed Association - Public Outreach for campus and beyond engaging par	ticipants i	n a general discussion of water quality ar	nd stormwater's im	pacts on local
water n	asources. Attendees were also treated to a demo on building a rainbarrel and received all components to build one,	(30 conta	cts)		
47.	Describe how you evaluated the effectiveness of your public partic	cipatio	on efforts (citizen attend	lance at pu	ıblic
	hearings, requests for information on your SWMP, hotline activity,	, etc.)			
	(WV MS4 2014 General Permit, p. 46, #2)				
Effe	ctiveness is measured by total number of contacts made through	h eac	h activity.		
	otal visits to the website in 2018/2019 program year was 866.		,		
	he Sustainability Department maintains a strong social media pr	esen	ce throughout the year	. The Mar	shall
Univ	versity ES shares articles and posts regarding stormwater topics	. Like	s and post engageme	nts are ca	culated
	posts related to stormwater with the Page Insight data. Posts rea				
	vents/Activities at MU engaged 9390 contacts.		• • •		
4. E	S posted Stormwater/Water Pollution Quiz on social media (20)	partic	ipants)		
				ococcari.	
48.	Describe the steps taken to ensure that public participation oppor				
	additional program maintenance activities in future reporting peri	oas to	ensure continued part	icipation	
	opportunities. (WV MS4 2014 General Permit, p. 46, #4)				
The	e website is updated periodically. MU Environmental Spe-	cialis	t and staff will contir	nue to pre	omote
	I support a number of activities that ensure continued par				
	osite and social media contacts, Earth Day Celebration, t				
	ruring on the topic of stormwater management/general wa			3	
	uning on the topic of storniwater management/general wa	alui (14411ty.		

Performance Measure 2b: Communications with community, watershed, and environment	ental organ	izations	
49. Did you establish a program for routine communications with community based	Intai Oigai		
watershed groups or other organizations?	Yes 🗸	Partially	No
50. Describe the steps taken to ensure that your programs for routine communications	with comn	nunity-based	
watershed groups or other organizations are ongoing, or any additional program act	ivities that	you believe	may
be required to ensure continued communications. (WV MS4 2014 General Permit, p			·
MU Environmental Specialist supports the efforts of a local watershed asso	ciation (F	ourpole C	reek
WSA) by offering technical assistance when requested. Efforts during the p			
attending the WSA's monthly meetings, conducting a stormwater education	/rainwate	er harvestii	ng
presentation, and conducting some field work in support of a watershed pla	n.		•
E1 Did you achieve all the goals that you identified in your CNAM related to accept the			
51. Did you achieve all the goals that you identified in your SWMP related to creating and maintaining ongoing communications with community based watershed			
groups or other organizations for this reporting period?	Yes 🗸	Partially	No 🗍
(WV MS4 2014 General Permit, p. 46, #3)	اسا	_	
52. If not, please describe the progress you did make towards achieving your goal(s), an	d any obst	acles and no	ssible
solutions such as revised implementation schedules or revised measurable goals. If v	-	•	ssible
changes to your SWMP goals or schedule, please include them in Section V above.	ou are pro	phosing and	
(WV MS4 2014 General Permit, p. 46, #4)			
N/A			
IN/A			
Performance Measure 2c: Public availability of SWMP and annual report			
53. Did you make your SWMP and annual report available to the public?		Yes 🗸	No
54. If yes, please indicate the web address, or if a physical location, please indicate when	e it is and	the process,	if any,
required for the public to access it.			
http://www.marshall.edu/stormwater/			
•			

VIII. MCM 3: Illicit Discharge Detection and Elimination (WV MS4 2014 General Permit)					
55. Did you complete all the proposed activities and performance measures for this MCM for this reporting period?					
56. Contact: Mark Buchanan	57. Phone: 304-696-3461				
Performance Measure 3a: MS4 map					
58. Were your proposed activities for creating and annually updating y for the reporting period implemented?	your MS4 map Yes Partially No No				
59. List and briefly describe the activities undertaken to either develop or update your MS4 map. (WV MS4 2014 General Permit, p. 46, #1)					
·					

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	formance Measure 3b: Illicit Discharge Detection and Elimination (IDDE) ordinance developme	nt	
60.	Has your municipality adopted an IDDE ordinance in accordance with the requirements of the WV MS4 2014 General Permit (Part II Section C.7.c.10 &11)?	Yes 🗸	No 🗌
61.	If not, please describe the activities or progress made in adopting or updating an existing ordi	nance and p	rovide
N/A	an estimated date for adoption. (WV MS4 2014 General Permit, p. 46, #1)		
Per	formance Measures 3c and 3e: IDDE program implementation and assessment, and program to	acking	
	Is your IDDE program fully implemented, including visual inspections based on a system of		
	prioritizing outfalls and procedures for characterizing discharges?	Yes 🗸	No
63.	If no, please describe obstacles, if any, to implementation, and an estimate of when your programplemented.	ram will be t	fully
N/A	·		
61	Were all your measurable goals met for implementing and evaluating an IDDE program		
	during this reporting period? (WV MS4 2014 General Permit, p. 46, #3)	Yes 🗸	No
	How many field assessments were conducted during the reporting period?	5	
	How many illicit discharges were identified during the reporting period?	0	
67.	How would you characterize the type of illicit discharges found (sewer cross connections, spill unaware residents, etc.)?	s, illegal dum	nping,
N/A			
68.	How would you characterize the type of pollutants discovered in illicit discharges (oil and grea	se fecal coli	form
	chlorine, paints, etc.)? Name the top five pollutants discovered or uncovered by your IDDE pro		.01111,
N/A		. G	
,, .			
69.	How many corrective actions were taken to remove illicit discharges?	0	
70.	How many enforcement actions were initiated to eliminate illicit discharges into the storm	0	
	sewer system?	0	
71.	Have you attached additional documentation to better identify the nature and extent of the		

program activities and accomplishments?

	-				
Performance Measure 3d: Public education on hazards of illegal discharges and improper disposal of waste					
72. Did you conduct any activities for educating the public on hazards of illegal	artially No No				
discharges for this reporting period? (WV MS4 2014 General Permit, p. 46, #3)	artially No				
73. List and briefly describe each of the education and outreach activities undertaken during this rep	orting period.				
(WV MS4 2014 General Permit, p. 46, #1)					
1. Marshall University Environmental Health and Safety Department (MU EHSD) conducts annua	al staff training to				
ensure that everyone is familiar with reporting procedures for illicit discharges.					
2. MU Environmental Specialist conducts annual chemical/biosafety training to all research staff/s	students. A				
portion of the training highlights proper disposal practices utilized on MU's Campus.					
3. MU EHSD attends regularly scheduled meeting on campus and in Huntington regarding storm	water issues.				
4. The MU EHSD samples semi-annually for nitrogen and phosphorous and posts the results in	the annual report				
on the website.					
5. MU EHSD routinely updates the website with information regarding stormwater issues on cam	pus as well as				
the surrounding Huntington community.	rmuotor				
6. An online quiz was offered on our social media page that tested participant's knowledge of sto	rmwater				
management and general water quality.					
74. Were any of these activities included in the public education and outreach efforts described in	Ves 🔽 Na 🗀				
MCM 1?	Yes No No				
75. How did you evaluate the effectiveness of the activities described in the list above?	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
(WV MS4 2014 General Permit, p. 46, #2)					
Sign in sheets were offered for annual staff training efforts. The success of the effort is measured by the number of	of contacts the office				
receives from staff regarding spills and potential environmental hazards. These numbers are recorded throughout	the reporting				
period. During the 2018/2019 program year, 3 notifications were made to the EH&S office:					
1. Three separate issues regarding sinkholes developing in various locations around campus potentially caused b	y the City of				
Huntington's failing infrastructure.					
 A quiz is given at the end of the chemical/biological training and results reported to professors of students attende	es or the managers				
of staff members.	oo or ano managero				
We also count the number of visitors to the website as well as social media parameters.					
Beauth from the online quir effected through our appial modic page are legged as well					
Results from the online quiz offered through our social media page are logged as well.					
76. Did you achieve all the goals that you identified in your SWMP related to educating the public					
on hazards of illegal discharges for this reporting period?	Yes V No No				
(WV MS4 2014 General Permit, p. 46, #3)					
77. If not, please describe the progress you did make towards achieving your goal(s), and any obstac					
solutions such as revised implementation schedules or revised measurable goals. If you are prop	osing any				
changes to your SWMP goals or schedule, please include them in Section V above.					
(WV MS4 2014 General Permit, p. 46, #4)					
N/A					

Performance Measure 3f: Training for municipal staff on identification, reporting, and elimination of illicit discharges			
78. Have you developed a program to train municipal employees on illicit discharges? Yes 🗸 Partially 🔲 No			
79. Did you conduct any municipal employee training during this reporting period?			
80. List and briefly describe the training activities conducted during the reporting period. (WV MS4 2014 General Permit, p. 46, #1)			
MU EHSD conducts an annual training on multiple environmental health and safety topics for all campus staff. Stormwater was recently added as part of the presentation. The MU environmental specialist presented multiple discussions/trainings during the annual training period. Topics included: MS4 Basics, TMDLs, Illicit discharges, and green infrastructure.			
MU Environmental Specialist conducts annual chemical/biosafety training to all research staff/students. A portion of the training highlights proper disposal practices utilized on MU's Campus. A quiz is given at the end of the chemical/biological training and results reported to professors of students attendees or the managers of staff members We also count the number of visitors to the website as well as social media parameters.			
81. How did you evaluate the effectiveness of the training activities? (WV MS4 2014 General Permit, p. 46, #2)			
Sign in sheets were created for annual staff training efforts. The success of the effort is measured by the number of contacts the office receives from staff regarding spills and potential environmental hazards. These numbers are recorded throughout the reporting period.			
82. How many municipal employees were trained to identify and report illicit discharges?			
(WV MS4 2014 General Permit, p. 46, #2) 55 83. Did you achieve all the goals that you identified in your SWMP related to training municipal			
employees on IDDE procedures for this reporting period? (WV MS4 2014 General Permit, p. 46, #3)			
84. If not, please describe the progress you did make towards achieving your goal(s), and any obstacles and possible solutions such as revised implementation schedules or revised measurable goals. If you are proposing any changes to your SWMP goals or schedule, please include them in Section V above. (WV MS4 2014 General Permit, p. 46 #4)			
N/A			

11/	1001 1 C	it 10 22)		
IX. I	MCM 4: Construction Site Runoff Control (WV MS4 2014 General Per			
85.	Did you complete all proposed activities and performance measures	for this MCM fo	or this	Yes No No
	reporting period?	07 01		
86.	Contact: Mark Buchanan	87. Phone: 30	14-696-3461	
	formance Measures 4a and 4b: Develop and implement an ordinance	e to address stor	mwater run	off from
	struction sites one acre or greater			
88.	Has your municipality adopted a construction site runoff control ord			
	accordance with the requirements of the WV MS4 2014 General Per	mit (Part II	Yes 🗸	Partially No
	Section C.7.d.2 and 4)			
89.	If a program ordinance has not been adopted, have the proposed ac	ctivities for		
	developing and implementing an ordinance to address stormwater i	runoff from	Yes	Partially No
	construction sites been implemented?		.==-	
90.	Please indicate the anticipated ordinance adoption schedule. (WV N	1S4 2014 Genera	al Permit, p.	46, 4.a)1)
N/A				
91.	Has your construction site ordinance been reviewed and/or updated	d to include	V [Partially No 🗸
	any new criteria during the reporting period?		Yes	Partially No V
92.	Is your construction site program being fully implemented to include	e provisions		
	for: i) plan review, ii) routine site inspections, iii) enforcement, and i		Yes 🗾	Partially No
	keeping and reporting?			
93.	Please indicate the number of plan approvals during the reporting p	eriod.		1
94. Please indicate the number of construction site inspections during the reporting period.				
95.	Please indicate the number of enforcement actions during the repo	rting period (car	attach	2
	document).			2
96.	Are enforcement records maintained and available upon request?		Yes 🗸	Partially No
97.	Is there adequate funding to fulfill the program implementation req	uirements	V [7]	Na Maria III.
	required by the WV MS4 2014 General Permit?		Yes 🗸	Partially No No
98.	Briefly list and describe any activities outlined in your SWMP comple	eted during the	past permit	year related to
	construction site operator and/or permittee site inspector training.			
Duri	ng the 2018/2019 program year, Marshall University was wrapping up o	construction on a	a new pharm	nacy school and
	cent dorm facilities. The MU Environmental Specialist conducted 16 ro			
l				
	ine of 2019, the MU Environmental Specialist reviewed drainage plans ted along 5th Avenue and continues to work with engineers from the er			
	agement on a challenging parcel of property.	igineering iiini k	auuless si	Ulliwater
IIIaii	agement on a challenging parcer of property.			
99	Did you achieve all the goals that you identified in your SWMP relat	ed to developing	g or	
33.	implementation and assessment of a construction site runoff control			Yes No
	reporting period? (WV MS4 2014 General Permit, p. 46, #3)			
100	. If not, please describe the progress you did make towards achieving	your goal(s), ar	d any obsta	cles and possible
	solutions such as revised implementation schedules or revised measurements			
	changes to your SWMP goals or schedule, please include them in Se			. 5 ,
	(WV MS4 2014 General Permit, p. 46, #4)			
N/A				
13//-				

X. MCM 5: Controlling Runoff from New Development and Redevelopment	ent (WV MS4 2014 General Perm	it, p. 22-33)	
101. Did you complete all proposed activities and performance measures reporting period?	for this MCM for this	Yes 🗸	No
102. Contact: Mark Buchanan	103. Phone: 304-696-3461		
	<u> </u>		
Performance Measure 5a: Develop, implement, and enforce a program to	protect water resources b	y addressir	ng
stormwater discharges from regulated new and redevelopment projects			4.72
104. Has your municipality adopted a stormwater management ordinance	Voc I. /	Partially	No
accordance with WV MS4 2014 General Permit (Part II Section C.7e.8			ر سا
105. If your ordinance has not been adopted, please describe the progress during this reporting period, and expected date of final adoption. (W		•	
	v M34 2014 General Permi	ι, μ. 40, 4.α) 1)
N/A			
106. Does your (proposed) ordinance include language incorporating the	development incentives		
described in the WV MS4 2014 General Permit (Part II Section C.7.e.1		Yes	No 🗸
107. Does your (proposed) ordinance include language incorporating the	off-site mitigation or fee-		
in lieu alternatives to on-site BMP implementation as described in th	e WV MS4 2014 General	Yes 🔲	No 📝
Permit (Part II Section C.7.e.16)			•
108. Have you developed a process for reviewing and updating your ordin	ance and program		
implementation to address the adequacy of provisions for: i) requiring	g runoff volume		
reduction on new and redevelopment sites, ii) plan review, iii) BMP c	onstruction and	Yes 🗸	No
maintenance inspections, iv) enforcement, v) inventory and tracking,	and vi) record keeping		
and reporting?			
109. How many projects were reviewed during the reporting period?		1	
110. What types of projects were reviewed (residential, commercial, industrial)	strial, etc.)?		
(WV MS4 2014 General Permit, p. 32, (u)(ii))			
MU Baseball Stadium			
111. Provide a summary of the number and types of stormwater BMPs ap	proved in new and redevelop	opment pro	ojects
during the reporting period. Please list the BMPs according to the BM			•
Stormwater Management Manual (2012). (WV MS4 2014 General Pe			
Redevelopment:			
4.2.3.B1 - (Completed) Stormwater planter project for the rear of Old Main			
The planter is a demonstration/experimental project that will help capture t	he first inch of precipitation	from the re	ear
corner of Old Main's roof.			
New Development			
4.2.3.B1 - (Completed) Underground retention structure at the new Marsh	all University Pharmacy So	hool.	
4.2.3.B - (Completed) A large raingarden at the new Marshall University Pl			

Last updated: September 18, 2017

112. Provide a summary of the number and type of projects that qualified for each of the development described in the WV MS4 2014 General Permit (Part II Section C.7.e.16.(u)(iii)) during the reportional Please indicate if you have attached additional documentation.		
N/A		
113. Provide a summary of the number of projects that qualified for any offsite mitigation or payment described in the WV MS4 2014 General Permit (Part II, Section C.7.e.16(u)(iii)) during the reportional Please indicate if you attach additional documentation.		
N/A		
114. How many maintenance agreements were approved during the reporting period? (WV MS4 2014 General Permit, p. 32, (u)(iv))	none	
115. Were any maintenance agreements recorded at the county courthouse?	Yes	No 🗸
 116. Provide a summary of the number and type of stormwater BMP inspections conducted by MS4 p contracted agents (construction as-built, ongoing operation and maintenance audits, complaint of Include (or attach) a summary of: i) the type and number of BMPs requiring maintenance or repair brought into compliance, and iii) the number of enforcement actions taken. (WV MS4 2014 General Permit, p. 32, (u)(v)) The new raingarden at the pharmacy dorm was inspected upon completion of construction. The following parameters were examined: Evidence of erosion from concentrated flows from impervious surfaces (Minor concern noted) Siltation/sedimentation (from construction activities) (no concerns noted) Plant health and stress (no concerns noted) Inspected the under-drain connections and gate valve operation (no concerns noted) Quarterly inspections will follow. 117. Did you achieve all the goals that you identified in your SWMP related to developing and/or	driven, etc	:.).
implementing and assessing a stormwater management program for this reporting period? (WV MS4 2014 General Permit, p. 46, #3)	Yes 🗸	No
118. If not, please describe the progress you did make towards achieving your goal(s), and any obstact solutions such as revised implementation schedules or revised measurable goals. If you are proportion changes to your SWMP goals or schedule, please include them in Section V above. (WV MS4 2014 General Permit, p. 46, #4) N/A		ossible

Performance Measure 5b: Long-term watershed protection elements					
119. Does a local ordinance or equivale	ent document incorporate the watershed WV MS4 2014 General Permit (Part II Section	Yes 🗸	Partially	No 🗌	
	120. If yes, please describe how the permittee's legal authority addresses the following watershed protection elements: (WV MS4 2014 General Permit, p. 32,(u)(i))				
121. Minimize impervious cover.	All contractors are informed that the project will not progress until all elements of the v	watershed protect	tion elements progran	n are satisfied,	
122. Preserve, protect, create, and restore ecologically sensitive areas.	All contractors are informed that the project elements of the watershed protection elements				
123. Implement practices that prevent or reduce thermal impacts to streams.	All contractors are informed that the project elements of the watershed protection elements		_		
124. Seek to avoid or prevent hydromodification of water bodies caused by development.	All contractors are informed that the project elements of the watershed protection elements		_		
125. Minimize impacts to existing vegetation (especially trees).	All contractors are informed that the project will not progress until all elements of the w	watershed protect	ion elements program	are satisfied	
126. Minimize impacts to native undisturbed soils.	All contractors are informed that the project will not progress until all elements of the w	vatershed protect	ion elements program	are satisfied	
127. If the watershed protection elements have not yet been incorporated into a planning document or ordinance, please describe the actions to be taken to incorporate these elements. (WV MS4 2014 General Permit, p. 23, # 10)					
MU has little legal authority for enforcement of the watershed protection elements. However, MU has the ability to require contractors to comply with program guidelines or be removed from the project.					

Performance Measure 5c: Street and parking design assessments				
128. Were the proposed activities for assessing the current street design guidelines and parking requirements implemented (WV MS4 2014 General Permit, page 33 (v)?	Yes	No 🗸		
129. If this is your third-year report, please attach your report assessing the current street and parking design				
requirements, and recommendations and proposed schedules for incorporating policies and standards to maximize vegetation and minimize impervious cover where possible. (WV MS4 2014 General Permit, p. 46, #8)				

XI. MCM 6: Pollution Prevention & Good Housekeeping for Municipal Op	perations (WV MS	4 2014 Gene	al Permit, p. 3	33-38)
130. Did you complete all the required performance measures for this MC	CM for this repor	ting	Yes 🗸	No 🔲
period?	100 01			
131. Contact: Mark Buchanan	132. Phone: 304-6	96-3461		
Performance Measures 6a and 6b: Develop and implement an operation		e program	for all mun	icipal
facilities that includes prevents or reduces the discharge of polluted runor				
133. Were the proposed activities for developing a pollution prevention a	nd good	Yes 🖊	Partially	No 🗍
housekeeping program for municipal operations implemented?		1c3 🔽	rai tiany 🔲	М
134. List and briefly describe the activities outlined in your SWMP for the	development of	a pollution	prevention	n and
good housekeeping program for municipal operations undertaken du	uring this reporti	ng period.		
 Review current activities performed by maintenance crews and the materials and methods utilized to identify operations on campus with the potential to cause pollution of water resources. Review existing policies and guidelines needed to ensure compliance. Educate and train employees on policies. Prioritize or find new guidelines where needed, update guidelines and procedures as necessary. Currently annual environmental management training is provided to all trade supervisors and employees. All lab personnel and medical students are given training to address proper disposal methods and management of chemicals. 				
135. Do you have a pollution prevention plan for each of your municipal f WV MS4 2014 General Permit (Part II Section C.7.f)1)?	acilities as requi	red by the	Yes 🗸	No 🔲
136. Do you have an inspection schedule for conducting inspections at yo required by the WV MS4 2014 General Permit (Part II Section C.7.f)5	•	ilities as	Yes	No 🗸
137. Are you tracking and maintaining records of inspection and maintenamunicipal facility as required by the WV MS4 2014 General Permit (P			Yes	No 🗸
138. If you answered no to any of the previous three questions, please inc implementing the requirements of the WV MS4 2014 General Permi It has been determined by the WV DEP that we do not have a	t (page 46, 4.a)1).	ule for	
139. How many inspections were conducted at each municipal facility dur	ring the reportin	g period?	0	
140. List the top three problems that you have found while conducting in			ities.	
No inspections were conducted.				
141. Were these problems corrected? (WV MS4 2014 General Permit, p. 4	46, 4.a)1)?		Yes	No 🗸

142. Did you achieve all the goals that you identified in your SWMP related to developing a pollution prevention and good housekeeping program for municipal operations for this reporting period? (WV MS4 2014 General Permit, p. 46, 4.a)3)? 143. If not, please describe the progress you did make towards achieving your goal(s), and any obstacles and possible solutions such as revised implementation schedules or revised measurable goals. If you are proposing any changes to your SWMP goals or schedule, please include them in Section V above. (WV MS4 2014 General Permit, p. 46, 4.a)4) N/A Performance Measure 6c: Municipal employee good housekeeping training 144. Were the proposed activities for developing a pollution prevention and good housekeeping training program for municipal employees implemented as described in the WV MS4 2014 General Permit (Part II, Section C.7.f.8)10)? 145. Were the proposed activities for implementing a pollution prevention and good housekeeping training program for municipal employees implemented as described in the WV MS4 2014 General Permit (Part II, Section C.7.f.8)910)? 146. Did municipal employees receive training in accordance with the guidelines described in the WV MS4 2014 General Permit (Part II, Section C.7.f.8)910)? 147. How many employees receive training during the reporting period? (WV MS4 2014 General Permit, p. 46, 4.a)1)? 148. Are you maintaining records of all municipal training activities (including training agendas, learning objectives, instructor qualifications, sign in sheets, etc.)? 149. Explain how the effectiveness of the training activities (including training agendas, learning objectives, instructor qualifications, sign in sheets, etc.)? 149. Explain how the effectiveness of the training activities was evaluated (number of employees trained and/or certified in specific good housekeeping skills, measurable improvements in cost or performance of facility maintenance activities, or as outlined in your SWMP). (WV MS4 2014 General Permit, p. 46, 4.a)4) Ma					
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150. Did you achieve all the goals that you identified in your SWMP related to training municipal					
employees on pollution prevention and good housekeeping for this reporting period?					
(WV MS4 2014 General Permit, p. 46, 4.a)3)?					
151. If not, please describe the progress you did make towards achieving your goal(s), and any obstacles and possible					
solutions such as revised implementation schedules or revised measurable goals. If you are proposing any					
changes to your SWMP goals or schedule, please include them in Section V above.					
(WV MS4 20149 General Permit, p. 46, 4.a)4)					
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