Marshall University MS4 Annual Report 2018 Permit WV R030043

Brandi Jacobs-Jones

Brandi Jacobs-Jones Sr. VP of Operations One John Marshall Drive Huntington, WV 25755 10/11/18

Date

Marshall University

Monitoring Results

October 2017 - March 2018

Date	Permit Requirements	Analyses	Results (mg/L)	Method	Reporting Results (mg/L)
		nitrate	1.82	E300.0	
4/23/18	Total Nitrogen	nitrite	ND	E300.0	11.58
		TKN	9.76	E351.2	
4/23/18	Total Phosphorous	Phosphorous	.99	SM4500-P	.99

April 2018 – September 2018

Date	Permit Requirements	Analyses	Results (mg/L)	Method	Reporting Results (mg/L)
		nitrate	.87	E300.0	
9/26/18	Total Nitrogen	nitrite	ND	E300.0	1.29
		TKN	.42	E351.2	э
9/26/18	Total Phosphorous	Phosphorous	.04	SM4500-P	.04

Marshall University

2017-2018 Recycling vs Waste Comparison

<u>Marshall University Sustainability Department</u>

Productivity Report for 2017-2018

This report provides a general outline of the progress and accomplishments of the MU Sustainability Department during the 2017-2018 fiscal year.

2017/2018	Tons/mixed recyclables
Mixed recyclables	13.19 tons
Shredded Paper	15.5 tons
Scrap Metal	64.5 tons
Cardboard	80 tons

Other efforts through MU's Sustainability Department for 2017/2018...

330 recycled ink cartridges

32,619 lbs. of shredded paper donated to Goodwill

10,000 lbs. of compost donated to a local farmer

10,000 lbs. "estimated weight" of CFL/fluorescent tube recycling





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.

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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									
1.	1. Annual report reporting period: September 30, 2017 to September 30, 2018								
2.	Name of MS4: Marshall University		3.	Registration number: WVR030043					
4.	Primary contact: Mark Buchanan		5.	Title: Environmental Specialist					
6.	Mailing address: One John Marshall Dri	ve							
7.	City: Huntington	8. Zip code: 25755	9.	County: Cabell					
10.	Telephone number: 304-696-3461	71	<u></u>						
11.	Email: Buchanan7@marshall.edu								

II. Impaired Waters Information	- "			-	
12. Does the MS4 discharge into impaired water bodies?	Yes		No	V	
13. Please provide a description of specific BMPs that were implemented to reduce pole receiving waters and waters in which a TMDL has been developed. (WV MS4 2014 of the specific BMPs that were implemented to reduce pole receiving waters and waters in which a TMDL has been developed. (WV MS4 2014 of the specific BMPs that were implemented to reduce pole receiving waters and waters in which a TMDL has been developed. (WV MS4 2014 of the specific BMPs that were implemented to reduce pole receiving waters and waters in which a TMDL has been developed.			n in ir		ed
14. Has a TMDL been developed since your plan was approved?	Yes		No	V	

III. F	III. Fiscal Reporting						
15.	L5. Include or attach a fiscal analysis of capital and operating expenditures to implement the MCMs. The fiscal						
	analysis shall include only those expenditures by the locality seeking covera	age under the WV MS4 2014 General					
	Permit and not those for MCMs implemented by other entities. (WV MS4 2	2014 General Permit, p. 46, #13)					
16.	Please provide total capital expenditures for this reporting period.	\$ 17168.32					
17.	Please provide total operating expenditures for this reporting period.	\$71305.82					

IV. Coordination Efforts and Organization						
18. Please provide a description of the coordination efforts with other MS4s, county govern agencies, colleges, universities, correctional facilities, prisons, and any other entities regimplementation of the MCMs, including the status of any memoranda of understanding executed between the permittee(s) and any other entity. (WV MS4 2014 General Permittee)	garding the g or other agreements t, p. 46, #9)					
During the 2017/2018 program year, Marshall University coordinated with mul-	tiple partners across					
the region. Activities included outreach at the Dogwood Festival with the City of Huntington, a						
rain-barrel workshop/stormwater presentation with the Fourpole Creek Waters						
the ongoing stormwater harvesting project that includes the following partners						
Schools (Explorer Academy), WVU Extension Service, and WV American Wat	ter.					
19. Please provide name and contact information for individual with overall program mana	gement and					
implementation responsibility, and if different, name and contact information of individual minimum control measure. Please attach a table of organization.	_					
N/A						
V. Changes to SWMP						
20. Did any of your activities, BMPs, or measurable goals as outlined in your SWMP change	during					
the reporting period?	Yes No V					
21. Do you anticipate any planned activities, BMPs, or goals as outlined in your SWMP to ch	ange Yes No 🗸					
in the upcoming reporting period?						
22. If anything has changed, please indicate the MCM and performance measure and provide below, and attach detailed documentation of the changes, schedule of implementation,	-					
overall effect on your program. (WV MS4 2014 General Permit, p. 24, #6 and #7)						
N/A						

23. Is additional documentation attached?

Yes

No 🗸

	MCM 1: Public Education and Outreach (WV MS4 2014 General Permit,)		Y	1000		
24.	Did you complete all the proposed activities and performance meas	sures	for this MC	M for this	Yes 🗸	No T
	reporting period?				163 🛕	
25.	Contact: Mark Buchanan	26.	Phone: 30)4-696-3461		
Per	formance Measure 1a: Program implementation					
27.	Were the proposed activities for developing a public education and	outre	each	V [7]		
	program implemented?			Yes 🗸	Partially	No L
28.	List and briefly describe each of the public education and outreach	progr	am develo	oment activi	ties undert	aken
	during this reporting period. (WV MS4 2014 General Permit, p. 46, ‡	1 1)				
	ormwater webpage - MU maintains a stormwater web page providing information	on to s	tudents, facu	ılty, staff and t	he general p	oublic
	ding stormwater impacts. ident Organizations - MU staff has joined multiple student organizations (Earth	Day C	Committee T	· C:#-	. C T	
Comr	nittee, Environmental Collaboration Committee) to bring awareness to stormwa	ater iss	sues. Non ca	mpus Organiz	ation Meetir	nas - WV
MS4	Collaboration and local MS4 Collaboration.					
3. Pu	blic Awareness - MU will encourage and support articles in the student newspa inability.	per re	garding stor	mwater, water	quality and	
	it discharges - MU will publicize the physical plant telephone numbers for use t	by stud	dents and sta	aff to report illi	cit discharge	es or
other	pollution concerns.					
5. Co	ntractor outreach/education - Make contractors aware by placing an educational ebsite/Social Media - MU's Sustainability Department maintains a robust preser	al stori	mwater page	in the contract	ting docume	ents.
enviro	onmental/sustainable activities undertaken on Marshall's Campus including stor	rmwat	er outreach/	education post	s. current ar	nd
upcor	ning projects.				,	.
29.	Did you achieve all the goals that you identified in your SWMP relat	ed to	developing	g the		
	education and outreach program for this reporting period? (WV MS	4 201	l4 General	Permit, p.	Yes 🚺	Nd
	46, #3)			•		ш
30.	If not, please describe the progress you did make towards achieving	your	goal(s), an	d any obstac	les and po	ssible
	solutions such as revised implementation schedules or revised measurements					
	changes to your SWMP goals or schedule, please include them in Se	ction	V above.			
	(WV MS4 2014 General Permit, p. 46, #4)					
N/A						
						- 1

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 V 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							
by the amount of:							
1. Visits to the website: 814							
2. Social Media engagement: 5136 (post reach)							
1. Visits to the website: 814 2. Social Media engagement: 5136 (post reach) 791 (post engagements) 3. Meetings attended: 6 847 (total "Likes")							
4. Illicit discharges discovered: 1							
5. Total # of interactions: 1204							
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							

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	formance Measure 1c: Documentation and tracking of public education and outreach	ето	irts				
35.	Did you track and keep records of your outreach activities?	Yes		Parti	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	Voc	\Box	No			
	materials; iii) the date of release or distribution, and iv) the duration of air time or	1 165	Yes			INA	V
	publication? (WV MS4 2014 General Permit, p. 46, #1)						
37.	Are your records available upon request?	Yes	$\overline{\mathbf{V}}$	No		NA	I
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	Yes		No		NA	/
	of the materials; and v) date of follow up visits to replenish or transition to the		ш		\Box		A
	next outreach product? (WV MS4 2014 General Permit, p. 46, #1)						
39.	Please describe any additional or alternative documentation and tracking of public e	duca	ition a	and o	utreacl	n	
	activities you are implementing.						
MU	EH&S Department distributed approximately 200 "After the Storm A C	itize	n's C	3uid ₆	e to		
	derstanding Stormwater" pamphlets during the 2017/2018 reporting cycl						
	5 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5						

VII.	MCM 2: Public Involvement and Participation (WV MS4 2014 General P	Permit)	
40.	Did you complete all the proposed activities and performance mea	sures for this MCM for this	V. [7] N. [
	reporting period?		Yes No No
41.	Contact: Mark Buchanan	42. Phone: 304-696-3491	
		1.	
Peri	formance Measure 2a: Opportunities for ongoing public involvemer	nt and participation in the SW	MP
43.	Did you create, or are you in the process of creating, ongoing oppo	ortunities for the public to	
	participate in the development, implementation, and updating of y	our SWMP?	Yes V No
44.	Did you achieve all the goals that you identified in your SWMP rela	ited to creating and	
	maintaining ongoing opportunities for public involvement and part	ticipation for this reporting	Yes / No
	period? (WV MS4 2014 General Permit, p. 46, #3)		
45.	If not, please describe the progress you did make towards achievin	ng your goal(s), and any obstac	les and possible
	solutions such as revised implementation schedules or revised mea		
	changes to your SWMP goals or schedule, please include them in S	_ , ,	,
	(WV MS4 2014 General Permit, p. 46, #4)		
N/A			
,,			
			28
46.	List and briefly describe each of the activities undertaken during th	ne reporting period to create o	ongoing
	opportunities for the public to participate in your SWMP. (WV MS4	4 2014 General Permit, p. 46,	#1)
2 Student	vMP is posted to the webpage. Feedback is received through a survey link, as are used to help execute basic tasks with the plan when the opportunity is presented community.		
Spring Ho	community me show in conjunction with City of Huntington - Spoke with residents about stormwater issues and harvesting rainwater at the area's largest home an locial Media - MU's Sustainability Department maintains a robust presence on social media sharing information about all environmental/sustainabile aci	id garden show. (30 contacts) hvities undertaken on Marshall's Campus including stormwater ou	treach and projects (520 contacts)
Outreach Earth Day	Events: Celebration at Marshall University - Vendors, program information and green roof tours for students, staff and the general public to celebrate Earth Da stival at Marshall University - Eight Elementary Schools rolate through 12 different workstations each with a lesson regarding water quality taught by a v	sy (51 contacts)	Poor 140/ DNR and 140/ DED (250
contacts) Davis Cre	ek Elementary "Hands On Water Quality" Lesson - Public Outreach beyond campus to engage elementary students in water quality and the impacts of	stormwater on a near-by stream (29 contacts)	
Rain-barre	t Marshall University - Twelve elementary schools rolate through eighteen different workstations covering a variety of science themed topics. Sessions et Workshop with Fourpole Creek Watershed Association - Public Outreach for campus and beyond engaging participants in a general discussion of we rainbarrel and received all components to build one (25 contacts)	are lead by MU staff, and volunteers from a variety of state and fi ater quality and stormwater's impacts on local water resources. At	ederal agencies (350 contacts) tendees were also treated to a demo on
	The state of the s		
47.	Describe how you evaluated the effectiveness of your public partic	ipation efforts (citizen attend	ance at public
	hearings, requests for information on your SWMP, hotline activity,	etc.).	
	(WV MS4 2014 General Permit, p. 46, #2)		
	ctiveness is measured by tracking the number of contacts mad	le through each activity.	
	otal visits to the website in 2017/2018 program year was 962.		
	he Sustainability Department maintains a strong social media p		
	rersity ES shares articles and posts regarding stormwater topic		
	sured with Page Insights. Posts reach a monthly average of 41	150 people and provide 520	engagements.
3. E	vents/Activities at MU engaged 1204 contacts		
48.	Describe the steps taken to ensure that public participation opport		• •
	additional program maintenance activities in future reporting period	ods to ensure continued partic	cipation
	opportunities. (WV MS4 2014 General Permit, p. 46, #4)		
	website is updated throughout the year. New surveys are		
as v	vell. MU Environmental Specialist and staff will continue t	to promote and support a	number of
	vities that ensure continued participation opportunities inc		
	tacts, Earth Day Celebration, & the Fall Water Festival.	2	

0	M 21 C 21					
Performance Measure 2b: Communications with community, watershed, and environmental organizations						
	Did you establish a program for routine communications with community based 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 be required to ensure continued communications. (WV MS4 2014 General Permit, p.		you believe	may		
MU Environmental Specialist supports the efforts of a local watershed association by offering technical assistance when requested. MUES receives routine notifications of meetings and activities. Efforts during the past program year include meeting attendance and conducting a stormwater education/rainwater harvesting project. Future efforts will include attending meetings of environmental groups on MU campus to become involved with their activities.						
i	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? (WV MS4 2014 General Permit, p. 46, #3)	Yes 🗸	Partially	No 🔲		
52. 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						
Dorfo	Magazza Je Dublic availability of SWAAD and amount was art					
	Did you make your SWMP and annual report available to the public?		Yes 🗸	No T		
54.	If yes, please indicate the web address, or if a physical location, please indicate wher required for the public to access it.	e it is and				
https://www.marshall.edu/stormwater/ Interested individuals need only to visit the website to view.						

VIII. MCM 3: Illicit Discharge Detection and Elimination (WV MS4 2014 General Permit)				
55	55. Did you complete all the proposed activities and performance measures for this MCM for this Yes No			
	reporting period?	163 V NO		
56	Contact: Mark Buchanan	57. Phone: 304-696-3461		
-	rformance Measure 3a: MS4 map			
58	Were your proposed activities for creating and annually updating for the reporting period implemented?	your MS4 map Yes Partially No No		
59	List and briefly describe the activities undertaken to either develo	p or update your MS4 map.		
ins	pping of the existing system is mostly complete. We are pection areas as well as siting potential areas for stormweation of a green project priority list.			

	ormance Measure 3b: Illicit Discharge Detection and Elimination (IDDE) ordinance development	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. N/A	If not, please describe the activities or progress made in adopting or updating an existing ordin an estimated date for adoption. (WV MS4 2014 General Permit, p. 46, #1)	nance and pr	rovide
	ormance Measures 3c and 3e: IDDE program implementation and assessment, and program tr	acking	
62.	Is your IDDE program fully implemented, including visual inspections based on a system of prioritizing outfalls and procedures for characterizing discharges?	Yes 🗸	No
63. N/A	If no, please describe obstacles, if any, to implementation, and an estimate of when your programplemented.	ram will be 1	fully
64.	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
65.	How many field assessments were conducted during the reporting period?		
	How many illicit discharges were identified during the reporting period?	1	
67.	How would you characterize the type of illicit discharges found (sewer cross connections, spills unaware residents, etc.)?		
inlet MU con	al dumping. A contractor emptied an unknown gel-type of construction adhesive on the east side of the Henderson Center. The inlet was rather shallow and east Environmental Specialist used an absorbent and properly bagged and disposed aminant. The vast majority of the material was removed. A small amount of resine side walls of the basin. The next rain event followed five days after the incide	sily access of the pot dual rema	ible. ential
68.	How would you characterize the type of pollutants discovered in illicit discharges (oil and grea chlorine, paints, etc.)? Name the top five pollutants discovered or uncovered by your IDDE pro		form,
	only had the one reported incident which would be best characterized as construesive/mastic.	_	
69.	How many corrective actions were taken to remove illicit discharges?	1	
70.	How many enforcement actions were initiated to eliminate illicit discharges into the storm sewer system?	0	
71.	Have you attached additional documentation to better identify the nature and extent of the program activities and accomplishments?	Yes	No 🗸

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 discharges for this reporting period? (WV MS4 2014 General Permit, p. 46, #3)						
73. List and briefly describe each of the education and outreach activities undertaken during this reporting period. (WV MS4 2014 General Permit, p. 46, #1)						
1. Marshall University Environmental Health and Safety Department (MU EHSD) conducts	s annua	l staff				
training to ensure that everyone is familiar with reporting procedures for illicit discharges.	1.					
2. 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						
3 MU FHSD attends regularly scheduled meeting on campus and in Huntington regarding						
issues.	a-suman	water—				
4. The MU EHSD samples semi-annually for nitrogen and phosphorous and posts the resannual report on the website.	sults in t	the				
5. MU EHSD routinely updates the website with information regarding stormwater issues of well as the surrounding Huntington community.	on cam	ous as				
74. Were any of these activities included in the public education and outreach efforts described in MCM 1?	es 🚺	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 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. During the 2017/2018 program year five notifications were made to the EH&S office: 1. The illegal dumping into the inlet adjacent to the Henderson Center as previously mentioned in this report. 2. A heavily corroded metal 5 gallon container adjacent to the floor drain of the Henderson Center Building. 3. Three separate issues regarding sinkholes developing in various locations around campus potentially caused by 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 a managers of staff members. We also count the number of visitors to the website as well as social media parameters.	attendee:	s or the				
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? (WV MS4 2014 General Permit, p. 46, #3)	'es 🚺	No				
77. If not, please describe the progress you did make towards achieving your goal(s), and any obstacles solutions such as revised implementation schedules or revised measurable goals. If you are proposi changes to your SWMP goals or schedule, please include them in Section V above. (WV MS4 2014 General Permit, p. 46, #4)		ssible				
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)				
42				
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				

IX.	MCM 4: Construction Site Runoff Control (WV MS4 2014 General Perr	nit n 19-22)			
	Did you complete all proposed activities and performance measures		or this		
	reporting period?	ioi tilis ivicivi i	51 (1115	Yes 🗸	No
86.		87. Phone: 30	04-696-6431		
		or. Thome.or	J+ 030-0401		
Per	formance Measures 4a and 4b: Develop and implement an ordinance	to address stor	mwater rur	off from	0 2 7 1
	struction sites one acre or greater		utci iui	ion nom	
	Has your municipality adopted a construction site runoff control ordi	nance in			
	accordance with the requirements of the WV MS4 2014 General Perr		Yes 🗸	Partially	No
	Section C.7.d.2 and 4)	(. =			
89.	If a program ordinance has not been adopted, have the proposed act	ivities for			
	developing and implementing an ordinance to address stormwater ru		Yes 🗍	Partially	No
	construction sites been implemented?				
90.	Please indicate the anticipated ordinance adoption schedule. (WV MS	S4 2014 Genera	l Permit. p.	46, 4,a)1)	
N/A			, , , , ,	,	
, ,,,					
91.	Has your construction site ordinance been reviewed and/or updated	to include			[7
	any new criteria during the reporting period?		Yes	Partially	No 🗸
92.	Is your construction site program being fully implemented to include	provisions			
	for: i) plan review, ii) routine site inspections, iii) enforcement, and iv) record	Yes 🚺	Partially	No 🗌
	keeping and reporting?				
	93. Please indicate the number of plan approvals during the reporting period.				
94.	94. Please indicate the number of construction site inspections during the reporting period. 26				
95.	Please indicate the number of enforcement actions during the report	ing period (can	attach	1	
	document).				
	Are enforcement records maintained and available upon request?		Yes 🗸 F	Partially	No
97.	Is there adequate funding to fulfill the program implementation requ	irements	Yes 🚺 P	Partially	No 🗍
	required by the WV MS4 2014 General Permit?			·	
98.	Briefly list and describe any activities outlined in your SWMP complet		•	-	
	construction site operator and/or permittee site inspector training. (\	NV MS4 2014 (General Perr	mit, p. 46, 4	l.a)1)
Dur	ing the 2017/2018 program year, Marshall University begar	n construction	n on a nev	v pharma	су
sch	pol and adjacent dorm facilities. MU Environmental Special	ist reviewed	all sedime	ent and er	osion
con	trol plans and conducted 26 routine inspections of S/E cont	rols at both s	ites. This	project w	/ill
	end well into the following reporting period.				
99.	Did you achieve all the goals that you identified in your SWMP related				
	implementation and assessment of a construction site runoff control	program for th	is	Yes 🗸	No
	reporting period? (WV MS4 2014 General Permit, p. 46, #3)				
100	If not, please describe the progress you did make towards achieving y				ssible
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 Sect	ion V above.			
	(WV MS4 2014 General Permit, p. 46, #4)				
N/A					

X. MCM 5: Controlling Runoff from New Development and Redevelopment (WV MS4 2014 General Permit, p. 22-33)					
101. Did you complete all proposed activities and performance measures for this MCM for this					
reporting period?		Les [A]	МС		
102. Contact: Mark Buchanan	103. Phone: 304-696-3461				
Performance Measure 5a: Develop, implement, and enforce a program		y addressir	ıg		
stormwater discharges from regulated new and redevelopment projects					
104. Has your municipality adopted a stormwater management ordinan	I Voc I /	Partially	No		
accordance with WV MS4 2014 General Permit (Part II Section C.7e	.8, 11(d))		ட		
105. If your ordinance has not been adopted, please describe the progre					
during this reporting period, and expected date of final adoption. (WV MS4 2014 General Permi	t, р. 46, 4.а)1)		
N/A					
106. Does your (proposed) ordinance include language incorporating the	e develonment incentives				
described in the WV MS4 2014 General Permit (Part II Section C.7.6		Yes	No 🗸		
107. Does your (proposed) ordinance include language incorporating the	•				
in lieu alternatives to on-site BMP implementation as described in t	_	Yes	No 🚺		
Permit (Part II Section C.7.e.16)			V		
108. Have you developed a process for reviewing and updating your ord	inance and program				
implementation to address the adequacy of provisions for: i) requir					
reduction on new and redevelopment sites, ii) plan review, iii) BMP		Yes 🚺	No \square		
maintenance inspections, iv) enforcement, v) inventory and trackin		<u> • </u>	ш		
and reporting?	3, , ,				
109. How many projects were reviewed during the reporting period?		2			
110. What types of projects were reviewed (residential, commercial, ind	ustrial, etc.)?				
(WV MS4 2014 General Permit, p. 32, (u)(ii))	,				
Pharmacy School and Dorms					
111. Provide a summary of the number and types of stormwater BMPs a	unproved in new and redevel	nment nr	piects		
during the reporting period. Please list the BMPs according to the B	• •		ojecis		
Stormwater Management Manual (2012). (WV MS4 2014 General F		III LIIC VV V			
Redevelopment:	erinit, p. 32, (a)(iii)				
4.2.4 - Three permeable paver projects (890 square feet total) to provide an increase of i					
4.2.3.B1 - Stormwater planter project for the rear of Old Main, the most recognizable buil demonstration/experimental project that will help capture the first inch of precipitation from		•			
action of action to the control of t	ir the real comer of Old Main's 1001	•			
New Development	armany Cahaal				
4.2.3.B1 - Underground retention structure is planned at the new Marshall University Ph. 4.2.3.B - A large raingarden is planned at the new Marshall University Pharmacy Dorm.	annacy ocnobi.				
,					

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 reportion 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 reporting Please indicate if you attach additional documentation. N/A	
114. How many maintenance agreements were approved during the reporting period?	none
(*** ***** 1 2 2 * * *******************	
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 repart brought into compliance, and iii) the number of enforcement actions taken. (WV MS4 2014 General Permit, p. 32, (u)(v)) 0 117. Did you achieve all the goals that you identified in your SWMP related to developing and/or 	friven, etc.).
	Yes / No
(WV MS4 2014 General Permit, p. 46, #3) 118. If not, please describe the progress you did make towards achieving your goal(s), and any obstacl	

Performance Measure 5b: Long-term v	vatershed protection elements				
119. Does a local ordinance or equivalent document incorporate the watershed					
	WV MS4 2014 General Permit (Part II Section	Yes Partially No			
C.7.e.8))					
l · · · · ·	rmittee's legal authority addresses the following w	atershed 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 protection elements program are satisfied			
122. Preserve, protect, create, and restore ecologically sensitive areas.	All contractors are informed that the project will not progress until all elements of the watershed protection elements program are satisfied.				
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 will not progress until all elements of the watershed protection elements program are satisfied.				
125. Minimize impacts to existing vegetation (especially trees).	All contractors are informed that the project will not progress until all elements of the v	vatershed protection 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 v	vatershed protection 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 parki	ng 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 P	ermit, p. 46, #8)		

XI. MCM 6: Pollution Prevention & Good Housekeeping for Municipal	Operations (WV M	S4 2014 Gene	eral Permit, p.	33-38)
130. Did you complete all the required performance measures for this	MCM for this repo	rting	. [7]	
period?			Yes 🗸	No
131. Contact: Mark Buchanan	132. Phone: 304-6	596-3461		
Performance Measures 6a and 6b: Develop and implement an operation	on and maintenand	ce program	for all mu	nicipal
facilities that includes prevents or reduces the discharge of polluted ru		I British I'm		Mana .
133. Were the proposed activities for developing a pollution prevention	n and good	v. [7]	S [. 🗀
housekeeping program for municipal operations implemented?		Yes 🗸	Partially	No
134 List and briefly describe the activities outlined in your SWMP for t			n preventio	n and
good housekeeping program for municipal operations undertaken				
 Review current activities performed by maintenance crews and the ma 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 5. Currently annual stormwater management training is provided to all tra and medical students are given training to address proper disposal method 	procedures as nece de supervisors and	essary. I employee:	s. All lab pe	
135. Do you have a pollution prevention plan for each of your municipa WV MS4 2014 General Permit (Part II Section C.7.f)1)?	al facilities as requi	red by the	Yes 🗸	No 🗌
136. Do you have an inspection schedule for conducting inspections at required by the WV MS4 2014 General Permit (Part II Section C.7.f.	f)5)?		Yes	No 🗸
137. Are you tracking and maintaining records of inspection and mainte municipal facility as required by the WV MS4 2014 General Permit			Yes	No 🗸
138. If you answered no to any of the previous three questions, please implementing the requirements of the WV MS4 2014 General Peri			lule for	
It has been determined by the WV DEP that we do not have	any municipal f	acilities.		
139. How many inspections were conducted at each municipal facility d			0	
140. List the top three problems that you have found while conducting	inspections at mur	nicipal facili	ties.	
No inspections were conducted.				
141. Were these problems corrected? (WV MS4 2014 General Permit, r	. 46 4 a\1\?		Voc 🗍	No.

142. Did you achieve all the goals that you identified in your SWMP related to developing a			/2		
pollution prevention and good housekeeping program for municipal operations for this reporting period? (WV MS4 2014 General Permit, p. 46, 4.a)3)?			No		
143. If not, please describe the progress you did make towards achieving your goal(s), and any solutions such as revised implementation schedules or revised measurable goals. If you ar 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			ssible		
Performance Measure 6c: Municipal employee good housekeeping training					
144. Were the proposed activities for developing a pollution prevention and good	71				
housekeeping training program for municipal employees implemented as described in the WV MS4 2014 General Permit (Part II, Section C.7.f.8)10)?	✓ '	Partially	No		
145. Were the proposed activities for implementing a pollution prevention and good					
housekeeping training program for municipal employees implemented as Yes	7 11	Partially	No 🔲		
described in the WV MS4 2014 General Permit (Part II, Section C.7.f.8)9)10)?	~				
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)?	✓	Partially	No 🗌		
147. How many employees received 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.)?		Yes 🗸	No		
149. Explain how the effectiveness of the training activities was evaluated (number of employe	es tra	ined and/o	r		
certified in specific good housekeeping skills, measurable improvements in cost or perform					
maintenance activities, or as outlined in your SWMP). (WV MS4 2014 General Permit, p. 4					
Marshall University Environmental Health and Safety Office provided training to the various trade she Effectiveness is measured by the number of staff engaged in the presentation; participating with que Effectiveness is also measured by counting the number of contacts made to the EH&S Office regard on campus.	ops in	the physica	ents.		
MUEH&S also tracks the total yearly weight of Hazardous waste diverted and properly disposed of. program year MU properly disposed of 1055.54 pounds of unwanted chemical and hazardous waste	During throuç	the 2017/2 gh Clean Ha	018 arbors.		
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)?	al	Yes 🗸	No		
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) N/A					

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