Marshall University MS4 Annual Report 2015

Permit WVR030043

Brandi Jacobs-Jones
Sr. VP of Operations
One John Marshall Drive

Huntington, WV 25755

9/23/15

					27
					4 6
					5
					0
					1000



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.

Λ.	L	L		_		:	_	•	:	_			_
Αl	n	D	r	e	v	ı	а	τ	D	O	ſ	1	S
•	_	_	-	_	_	-	_	_	-	_	-	-	_

4.

BMP = Best Management Practice

IDDE = Illicit Discharge Detection and Elimination

Annual report reporting period: September 30, 2014 - September 29, 2015

MCM = Minimum Control Measure

I. Small MS4 Operator Information

Name of MS4: Marshall University

Primary contact: Travis M. Bailey Mailing address: One John Marshall Drive SWMP = Storm Water Management Program TMDL = Total Maximum Daily Load

3.

5.

9

\$0 \$68,000

Registration number: WVR030043

Title: Environmental Specialist

County: Cabell

WV = West Virginia

7.	City: Huntington	8.	Zip code: 25755	9.	County: Cabell	
10.	Telephone number: (304) 696-3032					
11.	Email: Bailey53@marshall.edu					
II. In	npaired Waters Information					
12.	Does the MS4 discharge into impai	red	water bodies?		Yes	☐ No
13.	Please provide a description of spe	cific	BMPs that were implemented to re	educe	e pollutants of conce	ern in impaired
	receiving waters and waters in whi	ch a	TMDL has been developed. (WV N	1S4 20	009 General Permit,	p. 25, #12)
Bac	teria and iron are the paramet	ers	of impairment.			
	·					
Bac	teria-The actions Marshall has	tal	en to reduce this pollutant of	con	cern are pet was	te education
	sletters, website information,					
	e occurred.					
Iron	- An assessment has revealed	d the	e only source of iron on camp	us w	ould be from cor	nstruction
site	s and all procedures are follow	/ed	that are required in the gener	al co	onstruction storm	water permit
	the WV Erosion & Sediment (
14.	Has a TMDL been developed since	vou	r plan was approved?		☐ Yes	■ No
	1		•		34.1	
III. F	iscal Reporting					
	Include or attach a fiscal analysis o	f car	pital and operating expenditures to	impl	ement the MCMs. T	he fiscal

analysis shall include only those expenditures by the locality seeking coverage under the WV MS4 2009 General Permit and not those for MCMs implemented by other entities. (WV MS4 2009 General Permit, p. 25, #13)

16. Please provide total capital expenditures for this reporting period.

Please provide total operating expenditures for this reporting period.

IV. Coordination Efforts and Organization		
18. Please provide a description of the coordination efforts with other MS4s, county governments agencies, colleges, universities, correctional facilities, prisons, and any other entities regarding implementation of the MCMs, including the status of any memoranda of understanding or oth executed between the permittee(s) and any other entity. (WV MS4 2009 General Permit, p. 24 There are no current coordination of efforts. Marshall University is an MS4 within ar of Huntington).	the er agreeme , #9)	ents
Both entities will attend trainings organized by the other entity for support.		
Dear strates will attend trainings organized by the other charty for support.		
19. Please provide name and contact information for individual with overall program managemen implementation responsibility, and if different, name and contact information of individuals reminimum control measure. Please attach a table of organization.		or each
N/A		
V. Ch. and L. Challe D.		
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
21. Do you anticipate any planned activities, BMPs, or goals as outlined in your SWMP to change in the upcoming reporting period?	■ Yes	□ No
22. If anything has changed, please indicate the MCM and performance measure and provide a bribelow, and attach detailed documentation of the changes, schedule of implementation, measure overall effect on your program. (WV MS4 2009 General Permit, p. 24, #6 and #7)	ef descripti Irable goals	on , and
MCM 2- The university was to hold two contests (page 14 of SWMP), the first was open to studer slogans/phrases to make people aware how their actions could cause pollution in stormwater runcontest was to create posters for the winning slogans. This component (slogan and poster contest and will be discontinued due to lack of participation.	off. The se	cond
MCM 3- MU's SWMP notes conducting outfall/manhole reconnaissance twice/month in order to method better validity and to observe any illicit discharges that may be occurring. This component of MCI so reconnaissance was done once/month.	ap the syst И 3 is unfea	tem for asible
MCM 6- The university's SWMP notes all municipal facilities will be inspected quarterly. The WVI report states "the facilities listed in the SWMP with industrial activity exposed to stormwater have stormwater exposure and should be removed from this listing in the SWMP." Upon this recommer quarterly inspections under MCM 6 has and will be discontinued.	no activities	tion s with

23. Is additional documentation attached?

Yes

■ No

VI. I	MCM 1: Public Education and Outreach (WV MS4 2009 General Permit, p. 5	5-6)				
	Did you complete all the proposed activities and performance meas		for this MO	M for this		F
	reporting period?				Yes	□ No
25.	Contact: Travis M. Bailey	26.	Phone: (3	04) 696-3032		
	ormance Measure 1a: Program implementation			, ,		
27.	Were the proposed activities for developing a public education and	outre	each	■ Yes	☐ Partially	□ No
	program implemented?					
28.	List and briefly describe each of the public education and outreach public this reporting period. (WV MS4 2009 General Permit, p. 24, #	_	am develo	pment acti	vities under	taken
impa 2. St 3. St Tree storr Non- 4. Pt prev 5. Illi susp 6. Ce	cormwater Webpage-MU created a webpage to provide information to acts of stormwater run-off and what students, faculty, staff, and the put cormwater Curriculum-MU incorporated stormwater pollution and its incudent Organizations-MU staff has joined multiple student organization. Committee, Green Trail Committee, Environmental Collaboration Comwater pollution and the impacts. -Campus Organizations/Meetings-WVMS4 Collaboration and Local Mublic Awareness-MU will encourage and support articles in the student ention, recycling, and sustainability. -cit Discharges-MU will publicize the physical plant telephone number sected illicit discharges or other pollution concerns. -contract Work-Educate contractors by placing an "educational stormwater."	ublic ompactors (Gommitted MS4 Control of the MS4 C	can do to rets as part of Greening Mattee, etc.) the Collaboration was paper retailed by studies age "in the Collaboration of the Colla	educe storrof the curric larshall, Ea o improve to on egarding sto lents and s e contract o	mwater polluculum. Inth Day Conthe awarene ormwater, po	ution. nmittee, ess of ollution
29.	Did you achieve all the goals that you identified in your SWMP relateducation and outreach program for this reporting period? (WV MS 24, #3)				■ Yes	□ No
	If not, please describe the progress you did make towards achieving solutions such as revised implementation schedules or revised meast changes to your SWMP goals or schedule, please include them in Se (WV MS4 2009 General Permit, p. 24, #4)	surab ection	le goals. If V above.	you are pr	oposing any	
	projects with earth disturbing requirements were started fo cated on stormwater concerns.	or this	s reportir	ng so no d	contractors	s were

Performance Measure 1b: Evaluation of effectiveness of public education and outreach efforts		
		□ No
32. How did you evaluate the effectiveness of the public education and outreach program in this repo	orting per	iod?
(WV MS4 2009 General Permit, p. 24, #2)		
Marshall University evaluates the effectiveness of the program by the amount of:		
1. Visits to website-843		
2. Surveys taken-15		
Stormwater curriclum-51 students		
4. Meetings attended-19		
5. Articles distributed-7		
6. Illicit discharges discovered-2		
7. Contract workers-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?	■ Yes	☐ No
34. If yes, please describe any changes you would like to consider to improve your evaluation of effect	tiveness (of
outreach.		
Marshall University created a new website		
(http://www.marshall.edu/greentrail/2015/06/08/green-trail/) that discusses all of the greentrail/	reen	
initiatives that are being implemented across campus. This will make it easier for individ		
understand the impacts of stormwater. This should increase the amount of visits on the		
increasing the understanding of stormwater pollution.		

Performance Measure 1c: Documentation and tracking of public education and outreach	efforts		
35. Did you track and keep records of your outreach activities?	■ Yes	☐ Partially	☐ 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 publication? (WV MS4 2009 General Permit, p. 24, #1)	■ Yes	□ No	□ NA
37. Are your records available upon request?	Yes	☐ No	□ 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 2009 General Permit, p. 24, #1)	■ Yes	□ No	□ NA
39. Please describe any additional or alternative documentation and tracking of public e activities you are implementing.	education	and outread	h
The Environmental Health and Safety department purchased carabiners and during public participation. The department purchased 500 of each and disduring the 2014-2015 reporting period.			

	MCM 2: Public Involvement and Participation (WV MS4 2009 General F				
40.	Did you complete all the proposed activities and performance meareporting period?	sure	s for this MCM for this	■ Yes	□ No
41.	Contact: Travis M. Bailey	42.	Phone: (304) 696-3032		
Perf	formance Measure 2a: Opportunities for ongoing public involvement	nt and	participation in the SW	/MP	
	Did you create, or are you in the process of creating, ongoing oppoparticipate in the development, implementation, and updating of y	rtuni	ties for the public to	■ Yes	□ No
	Did you achieve all the goals that you identified in your SWMP relamaintaining ongoing opportunities for public involvement and part period? (WV MS4 2009 General Permit, p. 24, #3)	ted t	o creating and tion for this reporting	■ Yes	□ No
	If not, please describe the progress you did make towards achievin solutions such as revised implementation schedules or revised meaninges to your SWMP goals or schedule, please include them in S (WV MS4 2009 General Permit, p. 24, #4)	asura ectio	ble goals. If you are prop n V above.	oosing any	ossible
1. Th 2. Stu in dev 3. Ma	opportunities for the public to participate in your SWMP. (WV MS4 e SWMP is posted to the webpage along with a comment section for individual udents will be used as time and opportunity allows. Marshall has previously veloping the inventory of campus' stormwater system. In what is a stormwater system and website pages.	2009 uals to used	General Permit, p. 24, and their input and a sur- students to assist	#1) /ey to be co	·
47.	Describe how you evaluated the effectiveness of your public partic hearings, requests for information on your SWMP, hotline activity, (WV MS4 2009 General Permit, p. 24, #2)			ance at pu	blic
web 2. M to us	the website and survey both have a counter on them so a tastite for the 2014-2015 year is 843. The total surveys taken arshall has met the one year time limit to implement the gose students as much as possible in the future. One studence slogan and poster contest was not performed so tracking	n for bal b it has	the past year is 15. ut does have intentio s been used for this r	ns to con eporting	tinue period.
The site	Describe the steps taken to ensure that public participation opport additional program maintenance activities in future reporting period opportunities. (WV MS4 2009 General Permit, p. 24, #4) website will be updated and new surveys will be posted, and potentially increase the amount of surveys taken and and Water Festival events will continue to take place on	ds to This I cor	ensure continued parti s will help with more nments left on the si	cipation visits to	the Earth

	ormance Measure 2b: Communications with community, watershed, and environme	ntal organ	izations	
49.	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	d
	watershed groups or other organizations are ongoing, or any additional program act			
	be required to ensure continued communications. (WV MS4 2009 General Permit, p			
Mee	etings are being attended to ensure routine communications are ongoing	ı. Seme	ster event	s such
28.2	Water Festival for the fall semester and Earth Day Celebrations for the	spring s	emester a	re
	ined.	- 5		
piai				
51.	Did you achieve all the goals that you identified in your SWMP related to creating			
	and maintaining ongoing communications with community based watershed	Yes	☐ Partially	□ No
	groups or other organizations for this reporting period?	_		_
	(WV MS4 2009 General Permit, p. 24, #3)			
52.	If not, please describe the progress you did make towards achieving your goal(s), an			ossible
	solutions such as revised implementation schedules or revised measurable goals. If y	you are pr	oposing any	
	changes to your SWMP goals or schedule, please include them in Section V above.			
	(WV MS4 2009 General Permit, p. 24, #4)			
Dout	Same and annual report			
	ormance Measure 2c: Public availability of SWMP and annual report 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 whe	re it is and	the process	s, ii any,
	required for the public to access it.			
http	://www.marshall.edu/stormwater/			

	. MCM 3: Illicit Discharge Detection and Elimination (WV MS4 2009 Ge					
55.	Did you complete all the proposed activities and performance mea	sures	for this MC	M for this	E v.	
	reporting period?				■ Yes	□ No
56.	Contact: Travis M. Bailey	57.	Phone: (304)) 696-3032		
Per	formance Measure 3a: MS4 map					
58.	Were your proposed activities for creating and annually updating y for the reporting period implemented?	our N	1S4 map	☐ Yes	Partially	□ No
59.	List and briefly describe the activities undertaken to either develop (WV MS4 2009 General Permit, p. 24, #1)	or up	odate your N	ЛS4 map.		
bett stru flow Add dire	has been conducting outfall/manhole reconnaissance on ter validity and to observe any illicit discharges that may be actures are also being documented in addition to incoming to. The information is then entered into the campus mapping ditional information entered into the mapping systems included in the projects, areas for potential green projects, stormwater contraction, areas for potential green projects, stormwater contraction until the mapping has been completed.	oe oco g pipe ing sy udes	curring. T es, size of ystem and all priority	he charae pipes, an saved or areas, b	cteristics of direction a server oundaries	of the n of : s, flow

Perf	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 2009 General Permit (Part II Section C.b.3.b)?	■ Yes	□ No
61.	If not, please describe the activities or progress made in adopting or updating an existing ordinal an estimated date for adoption. (WV MS4 2009 General Permit, p. 24, #1)	nance and p	rovide
Perf	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
	If no, please describe obstacles, if any, to implementation, and an estimate of when your programplemented.	ram will be	fully
64.	Were all your measurable goals met for implementing and evaluating an IDDE program during this reporting period? (WV MS4 2009 General Permit, p. 24, #3)	■ Yes	□ No
65.	How many field assessments were conducted during the reporting period?	31	
	How many illicit discharges were identified during the reporting period?	2	
The f cause The s of die spill. to the	How would you characterize the type of illicit discharges found (sewer cross connections, spill, unaware residents, etc.)? irst one reported was about used clay from the art warehouse that had been discarded outside. Rain fell of the clay sediment to run into a storm drain. The problem was recognized and fixed within the same rain second illicit discharge reported was a contract garbage truck puncturing its fuel tank and discharging appropriate into the storm drain that drains to the combined sewer system. The Huntington Sanitary Board and HI All three entities worked together to capture as much diesel as possible. The event occurred on a dry day www. WWTP for treatment. No diesel entered the Ohio River. How would you characterize the type of pollutants discovered in illicit discharges (oil and great chlorine, paints, etc.)? Name the top five pollutants discovered or uncovered by your IDDE pro-	over the clay ver	vhich gallons I to the I drained
	sediment and diesel	, scann.	
	How many corrective actions were taken to remove illicit discharges?	2	
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

 72. Did you conduct any activities for educating the public on hazards of illegal discharges for this reporting period? (WV MS4 2009 General Permit, p. 24, #3) 73. List and briefly describe each of the education and outreach activities undertaken during this reporting period. (WV MS4 2009 General Permit, p. 24, #1) 1 MIL has developed a stormwater website that explains what an illigit discharge is and who should have a possible that explains what an illigit discharge is and who should have a possible that explains what an illigit discharge is and who should have a possible that explains what an illigit discharge is and who should have a possible that explains what are illigit discharge in and who should have a possible that explains the conditions of the education and outreach activities undertaken during this reporting period. 	
73. List and briefly describe each of the education and outreach activities undertaken during this reporting period. (WV MS4 2009 General Permit, p. 24, #1)	No
(WV MS4 2009 General Permit, p. 24, #1)	
1 MIL has developed a stargewater website that explains what an illigit discharge is and who should be	1.
1.MU has developed a stormwater website that explains what an illicit discharge is and who should to contacted if one has been observed.	be
MU has placed a page on the website discussing the negative impact pet waste has on stormwate	ter
3. The Environmental Health & Safety (EHS) department attends regularly scheduled meetings to	
discuss contaminants in stormwater and its impact on the receiving body.	
4. EHS samples semi-annually for total nitrogen and phosphorous and posts the results in the annual	ıal
report on the website.	
5. EHS performs annual training to staff to ensure everyone is familiar with the appropriate reporting	g
procedure for illicit discharges.	
74. Were any of these activities included in the public education and outreach efforts described in MCM 1?	No
75. How did you evaluate the effectiveness of the activities described in the list above? (WV MS4 2009 General Permit, p. 24, #2)	
1. There have been two (2) illicit discharges during this reporting period.	
2. The website has a counter on it and within this reporting period there have been 843 visits.	l l
- The treatment and a country of it and that in the reporting period after have been one violes.	
3. The EHS department has attended 19 meetings within this reporting period.	
3. The EHS department has attended 19 meetings within this reporting period.4. The results of the samplings are posted on the website with a comments section and no	
3. The EHS department has attended 19 meetings within this reporting period.4. The results of the samplings are posted on the website with a comments section and no	
3. The EHS department has attended 19 meetings within this reporting period.4. The results of the samplings are posted on the website with a comments section and no	
3. The EHS department has attended 19 meetings within this reporting period.4. The results of the samplings are posted on the website with a comments section and no	
3. The EHS department has attended 19 meetings within this reporting period.4. The results of the samplings are posted on the website with a comments section and no	
3. The EHS department has attended 19 meetings within this reporting period.4. The results of the samplings are posted on the website with a comments section and no	
 The EHS department has attended 19 meetings within this reporting period. The results of the samplings are posted on the website with a comments section and no comments have been received concerning the analysis. 	
 The EHS department has attended 19 meetings within this reporting period. The results of the samplings are posted on the website with a comments section and no comments have been received concerning the analysis. Did you achieve all the goals that you identified in your SWMP related to educating the public 	No
 3. The EHS department has attended 19 meetings within this reporting period. 4. The results of the samplings are posted on the website with a comments section and no comments have been received concerning the analysis. 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? 	No
 3. The EHS department has attended 19 meetings within this reporting period. 4. The results of the samplings are posted on the website with a comments section and no comments have been received concerning the analysis. 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 2009 General Permit, p. 24, #3) 	
 3. The EHS department has attended 19 meetings within this reporting period. 4. The results of the samplings are posted on the website with a comments section and no comments have been received concerning the analysis. 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 2009 General Permit, p. 24, #3) 77. If not, please describe the progress you did make towards achieving your goal(s), and any obstacles and possib 	
 3. The EHS department has attended 19 meetings within this reporting period. 4. The results of the samplings are posted on the website with a comments section and no comments have been received concerning the analysis. 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 2009 General Permit, p. 24, #3) 	
 3. The EHS department has attended 19 meetings within this reporting period. 4. The results of the samplings are posted on the website with a comments section and no comments have been received concerning the analysis. 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 2009 General Permit, p. 24, #3) 77. If not, please describe the progress you did make towards achieving your goal(s), and any obstacles and possib solutions such as revised implementation schedules or revised measurable goals. If you are proposing any 	
 3. The EHS department has attended 19 meetings within this reporting period. 4. The results of the samplings are posted on the website with a comments section and no comments have been received concerning the analysis. 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 2009 General Permit, p. 24, #3) 77. If not, please describe the progress you did make towards achieving your goal(s), and any obstacles and possib 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. 	
 3. The EHS department has attended 19 meetings within this reporting period. 4. The results of the samplings are posted on the website with a comments section and no comments have been received concerning the analysis. 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 2009 General Permit, p. 24, #3) 77. If not, please describe the progress you did make towards achieving your goal(s), and any obstacles and possib 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. 	
 3. The EHS department has attended 19 meetings within this reporting period. 4. The results of the samplings are posted on the website with a comments section and no comments have been received concerning the analysis. 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 2009 General Permit, p. 24, #3) 77. If not, please describe the progress you did make towards achieving your goal(s), and any obstacles and possib 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. 	
 3. The EHS department has attended 19 meetings within this reporting period. 4. The results of the samplings are posted on the website with a comments section and no comments have been received concerning the analysis. 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 2009 General Permit, p. 24, #3) 77. If not, please describe the progress you did make towards achieving your goal(s), and any obstacles and possib 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. 	
 3. The EHS department has attended 19 meetings within this reporting period. 4. The results of the samplings are posted on the website with a comments section and no comments have been received concerning the analysis. 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 2009 General Permit, p. 24, #3) 77. If not, please describe the progress you did make towards achieving your goal(s), and any obstacles and possib 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. 	
 3. The EHS department has attended 19 meetings within this reporting period. 4. The results of the samplings are posted on the website with a comments section and no comments have been received concerning the analysis. 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 2009 General Permit, p. 24, #3) 77. If not, please describe the progress you did make towards achieving your goal(s), and any obstacles and possib 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. 	
 3. The EHS department has attended 19 meetings within this reporting period. 4. The results of the samplings are posted on the website with a comments section and no comments have been received concerning the analysis. 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 2009 General Permit, p. 24, #3) 77. If not, please describe the progress you did make towards achieving your goal(s), and any obstacles and possib 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. 	
 3. The EHS department has attended 19 meetings within this reporting period. 4. The results of the samplings are posted on the website with a comments section and no comments have been received concerning the analysis. 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 2009 General Permit, p. 24, #3) 77. If not, please describe the progress you did make towards achieving your goal(s), and any obstacles and possib 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. 	

Performance Measure 3f: Training for municipal staff on identification, reporting, and elimination of	illicit disch	arges
		☐ No
79. Did you conduct any municipal employee training during this reporting period?	■ Yes	□ No
80. List and briefly describe the training activities conducted during the reporting period.		
(WV MS4 2009 General Permit, p. 24, #1)		
The EHS department performs safety trainings on different safety concerns. Stormwater has been rotation and has been performed during this reporting period. This training will continue on an annumer employees were informed that MU has received a MS4 permit and what that means to the university.	ual basis. ˈ	The
work habits. They were told the goals and requirements of the permit and how the university was wachieve those goals. Illicit discharges were stressed because the campus service workers are the every day and need to know how to recognize and report illicit discharges if they should come upon have the responsibility to prevent them by altering their past practices and now making a conscious with any type of water flow on campus. They now have a better understanding of how MU's storms system and their actions have the potential to impact the Ohio River.	working to ones on ca n one. Also s effort to d water collec	ampus o, they leal ction
81. How did you evaluate the effectiveness of the training activities? (WV MS4 2009 General Permit	, p. 24, #2)	
Effectiveness was evaluated by the questions asked at the end of the presentations a of calls received from campus workers asking if their procedures were correct or if the department would review the procedures to ensure everything was within compliance	e EHS	mount
82. How many municipal employees were trained to identify and report illicit discharges?		
(WV MS4 2009 General Permit, p. 24, #2)		
440		- 1
110		j
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?	T Yes	□ No
(WV MS4 2009 General Permit, p. 24, #3)		
84. If not, please describe the progress you did make towards achieving your goal(s), and any obsta- solutions such as revised implementation schedules or revised measurable goals. If you are proportion to your SWMP goals or schedule, please include them in Section V above.		ssible
(WV MS4 2009 General Permit, p. 24, #4)		

					
	WCM 4: Construction Site Runoff Control (WV MS4 2009 General Per				
85.	Did you complete all proposed activities and performance measures reporting period?	for this MCM f	or this	Yes	□ No
0.6		07 01 /			
80.	Contact: Travis M. Bailey	87. Phone: (3	804) 696-3032		
Dor	Saymonee Massayree As and Ale Daviden and involunt at the			CC C	
	formance Measures 4a and 4b: Develop and implement an ordinance struction sites one acre or greater	to address sto	rmwater rui	noff from	
88.	Has your municipality adopted a construction site runoff control ordi	inance in			
	accordance with the requirements of the WV MS4 2009 General Peri		■ Yes	Partially	□ No
	Section C.b.4.a)?	(3			
89.	If a program ordinance has not been adopted, have the proposed act	tivities for			
	developing and implementing an ordinance to address stormwater ru	unoff from	☐ Yes	Partially	□ No
	construction sites been implemented?				
90.	Please indicate the anticipated ordinance adoption schedule. (WV M	S4 2009 Genera	al Permit, p.	24, #1)	
			. •	, ,	
91.	Has your construction site ordinance been reviewed and/or updated	to include	Yes [7 Doublelly	□ No
	any new criteria during the reporting period?		res [Partially	□ N0
92.	Is your construction site program being fully implemented to include				
	for: i) plan review, ii) routine site inspections, iii) enforcement, and iv) record	Yes [] Partially	□ No
	keeping and reporting?				
	Please indicate the number of plan approvals during the reporting pe			0	
94.	Please indicate the number of construction site inspections during th	e reporting per	iod.	108	
95.	Please indicate the number of enforcement actions during the report	ing period (car	attach		
	document).			0	
	Are enforcement records maintained and available upon request?		• Yes	Partially	☐ No
97.	Is there adequate funding to fulfill the program implementation requ	irements	Yes	7 Doublelle	El Na
	required by the WV MS4 2009 General Permit?			Partially	☐ No
98.	Briefly list and describe any activities outlined in your SWMP complet				
	construction site operator and/or permittee site inspector training. (\				#1)
1. Ver	ify that each construction project disturbing one (1) acre of land has an approved site	registration prior t	o the commen	cement of	
	uction. will review WVDEP stormwater requirements with contractors at the beginning of pro	iects and perform	a follow-up rev	view will be co	anducted
on a y	rearly basis.				
3. MU 4. MU	will prepare language for the contract documents describing the stormwater manage will train staff on site review, inspection, and enforcement procedures.	ment responsibiliti	es that the cor	tractor must	abide by.
5. MU	will develop lines of communication with contractors in case of spills or releases. ML	J will aid the contra	actor with reso	urces needed	l to
contai	n the spills or releases.				
99.	Did you achieve all the goals that you identified in your SWMP related	d to developing	or		
	implementation and assessment of a construction site runoff control	program for th	is	 Yes	□ No
	reporting period? (WV MS4 2009 General Permit, p. 24, #3)				
100.	If not, please describe the progress you did make towards achieving y	our goal(s), an	d any obsta	cles and po	ssible
	solutions such as revised implementation schedules or revised measu				
	changes to your SWMP goals or schedule, please include them in Sect				
	(WV MS4 2009 General Permit, p. 24, #4)				′

X. MCM 5: Controlling Runoff from New Development and Redevelopment (WV MS4 2009 General Permit, p. 12-19)						
101. Did you complete all proposed activities and performance measures	for this MCM f	or this	■ Yes	□ No		
reporting period?			E 103	L 140		
102. Contact: Travis M. Bailey	103. Phone: (3	04) 696-3032				
Performance Measure 5a: Develop, implement, and enforce a program t	o protect water	resources b	oy addressi	ng		
stormwater discharges from regulated new and redevelopment projects						
104. Has your municipality adopted a stormwater management ordinance		Yes	☐ Partially	□ No		
accordance with WV MS4 2009 General Permit (Part II Section C.5.a						
105. If your ordinance has not been adopted, please describe the progres						
during this reporting period, and expected date of final adoption. (V	VV MS4 2009 G	eneral Permi	it, p. 24, #1	.)		
100 Dans very (avanced) and increasingly de language incomparating the	dayalanmant ir	acontinuos				
106. Does your (proposed) ordinance include language incorporating the		icentives	☐ Yes	■ No		
described in the WV MS4 2009 General Permit (Part II Section C.5.a.		ion or foo				
107. Does your (proposed) ordinance include language incorporating the			☐ Yes	■ No		
in lieu alternatives to on-site BMP implementation as described in the	ile VV V IVI34 200	9 General	☐ res			
Permit (Part II Section C.5.a.ii.A.4)?	nance and prog	ram				
108. Have you developed a process for reviewing and updating your ordi						
implementation to address the adequacy of provisions for: i) requiri reduction on new and redevelopment sites, ii) plan review, iii) BMP			■ Yes	□ No		
maintenance inspections, iv) enforcement, v) inventory and tracking			le res	II NO		
and reporting?	s, and vi) record	reching				
109. How many projects were reviewed during the reporting period?			0			
110. What types of projects were reviewed (residential, commercial, indi	ustrial etc \2		10			
(WV MS4 2009 General Permit, p. 18, #2)	ustriai, etc./:					
N/A						
111. Provide a summary of the number and types of stormwater BMPs a						
during the reporting period. Please list the BMPs according to the B	•		om the WV	'		
Stormwater Management Manual (2012). (WV MS4 2009 General P	ermit, p. 18, #3)					
N/A						
1						

112	. Provide a summary of the number and type of projects that qualified for each of the developmed described in the WV MS4 2009 General Permit (Part II Section C.5.a.ii.A.3) during the reporting indicate if you have attached additional documentation. (WV MS4 2009 General Permit, p. 18, #	period. Ple	
NA			
112	Describe - common of the combant of		
113	Provide a summary of the number of projects that qualified for any offsite mitigation or paymer		
	described in the WV MS4 2009 General Permit (Part II, Section C.b.5.a.ii.A.4) during the reporting indicate if you attach additional documentation. (WV MS4 2009 General Permit, p. 18, #3)	g period. I	Please
N I A	mulcate if you attach additional documentation. (WV 19154 2009 General Permit, p. 18, #3)		
NA			
114	. How many maintenance agreements were approved during the reporting period?		
	(WV MS4 2009 General Permit, p. 18, #4)	0	
115	Were any maintenance agreements recorded at the county courthouse?	☐ Yes	■ No
	Provide a summary of the number and type of stormwater BMP inspections conducted by MS4		
	contracted agents (construction as-built, ongoing operation and maintenance audits, complaint		
	Include (or attach) a summary of: i) the type and number of BMPs requiring maintenance or rep		
	brought into compliance, and iii) the number of enforcement actions taken.	,,	
	(WV MS4 2009 General Permit, p. 18, #5)		
0			
•			
117.	Did you achieve all the goals that you identified in your SWMP related to developing and/or		
	implementing and assessing a stormwater management program for this reporting period?	Yes	□ No
	(WV MS4 2009 General Permit, p. 24, #3)		
118.	If not, please describe the progress you did make towards achieving your goal(s), and any obstact		ssible
	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 2009 General Permit, p. 24, #4)		

Performance Measure 5b: Long-term v	vatershed protection elements			
	nt document incorporate the watershed			
•	WV MS4 2009 General Permit (Part II Section	Yes	☐ Partially	∏ No
C.5.a.i.A)?				
	itt/- a.uth - uitu addraa-a tha fallawing u	unto valo ad	protection	
	mittee's legal authority addresses the following v	vatersneu	protection	
elements: (WV MS4 2009 General				
121. Minimize impervious cover.	The contractor will be told to cease their activities until they come into compliance	with MU's Waters	shed Protection Elem	ents Program.
122. Preserve, protect, create, and	The contractor will be told to cease their activities until they come into compliance with MU's Watershed Protection Elements Progra			
restore ecologically sensitive				
areas.				
123. Implement practices that	The contractor will be told to cease their activities until they come into compliance with MU's Watershed Protection Elements Program			
prevent or reduce thermal				
impacts to streams.	Thito compliance with wo s watershed i for	LCCIIOII L	icincinto i i	ogrami
124. Seek to avoid or prevent	The contractor will be told to cease their activities until they come			mo
hydromodification of water	into compliance with MU's Watershed Protection Elements Program			
bodies caused by development.	into compliance with MO's Watershed Pro	lection E	iements Fr	ogram
125. Minimize impacts to existing				
vegetation (especially trees).	The contractor will be told to cease their activities until they come into compliance v	with MU's Waters	hed Protection Eleme	ents Program
126. Minimize impacts to native				
undisturbed soils.	The contractor will be told to cease their activities until they come into compliance versions.	with MU's Waters	hed Protection Eleme	nts Program.
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 2009 General Permit, p. 24, #1) MU has implemented a Watershed Protection Element Program but has little legal authority. MU does have the ability to tell a contractor to comply with the program or be dismissed from their duties.				

Performance Measure 5c: Street and parking design assessments		,			
128. Were the proposed activities for assessing the current street design guidelines and parking requirements implemented?	T 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 2009 General Permit, p. 24, #8)					

XI. MCM 6: Pollution Prevention & Good Housekeeping for Municipal Operations (WV MS4 2009 Gener	al Permit, p.	19-21)
130. Did you complete all the required performance measures for this MCM for this reporting	Yes	□ No
period?	— 163	L 140
131. Contact: Travis M, Bailey 132. Phone: (304) 696-3032		
Performance Measures 6a and 6b: Develop and implement an operation and maintenance program	for all mui	nicipal
facilities that includes prevents or reduces the discharge of polluted runoff		
133. Were the proposed activities for developing a pollution prevention and good] Partially	☐ No
nousekeeping program for municipal operations implemented?		
134. List and briefly describe the activities outlined in your SWMP for the development of a pollution	preventio	n and
good housekeeping program for municipal operations undertaken during this reporting period.		
1. Review current activities performed by maintenance crews and the materials and methods utilized to ide	ntify opera	tions on
campus with the potential to cause pollution of surface water. 2. Review existing policies and guidelines needed to ensure compliance.		
3. Educate and train employees on policies. 3. Educate and train employees on policies.		
4. Prioritize and/or develop new guidelines where needed, update guidelines and procedures as necessary	<i>1</i> .	
5. Currently annual stormwater management training is provided to all trade supervisors and employees. A	All lab pers	onnel
and medical students are given training specifically addressing proper disposal methods and management	of chemica	ls.
135. Do you have a pollution prevention plan for each of your municipal facilities as required by the	_	
WV MS4 2009 General Permit (Part II Section C.b.6.a)?	Yes	☐ No
136. Do you have an inspection schedule for conducting inspections at your municipal facilities as		
required by the WV MS4 2009 General Permit (Part II Section C.b.6.a)?	Yes	□ No
137. Are you tracking and maintaining records of inspection and maintenance activities for each		
municipal facility as required by the WV MS4 2009 General Permit (Part II Section C.b.6.a)?	☐ Yes	■ No
138. If you answered no to any of the previous three questions, please indicate your proposed schedules.	ula for	
implementing the requirements of the WV MS4 2009 General Permit (Part II Section C.b.6.a).	lie for	
,		
No inspections have been done at this time due to construction just ending. Inspection the 2015 2016 reporting ported.	ns will be	egin in
the 2015-2016 reporting period		
120 H		
	0	
140. List the top three problems that you have found while conducting inspections at municipal facilit	ies.	
No inspections occurred.		
141. Were these problems corrected? (WV MS4 2009 General Permit, p. 24, #1)	Yes	☐ No

142. Did you achieve all the goals that you identified in your SWMP related to developing			
pollution prevention and good housekeeping program for municipal operations for t reporting period? (WV MS4 2009 General Permit, p. 24, #3)	his	Yes	☐ No
143. If not, please describe the progress you did make towards achieving your goal(s), and solutions such as revised implementation schedules or revised measurable goals. If y changes to your SWMP goals or schedule, please include them in Section V above. (WV MS4 2009 General Permit, p. 24, #4)			
Performance Measure 6c: Municipal employee good housekeeping training			
144. Were the proposed activities for developing a pollution prevention and good		1	
housekeeping training program for municipal employees implemented as described in the WV MS4 2009 General Permit (Part II, Section C.b.6.c)?	■ Yes] Partially	□ No
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 2009 General Permit (Part II, Section C.b.6.c)?	■ Yes] Partially	☐ No
146. Did municipal employees receive training in accordance with the guidelines	■ Yes	7	
described in the WV MS4 2009 General Permit (Part II, Section C.b.6.c)?] Partially	□ No	
147. How many employees received training during the reporting period? (WV MS4 2009 General Permit, p. 24, #1)		110	
148. Are you maintaining records of all municipal training activities (including training age	endas,	Yes	□ No
learning objectives, instructor qualifications, sign in sheets, etc.)?			
149. Explain how the effectiveness of the training activities was evaluated (number of emcertified in specific good housekeeping skills, measurable improvements in cost or possible intervention of the maintenance activities, or as outlined in your SWMP). (WV MS4 2009 General Permit EHS provided training to various trades throughout the year. The effectiveness evident by the number of employees contacting EHS following the training to following proper protocol when performing job duties that may impact stormwowthat to do with mop water or cleaning products? This raised awareness that	erformance t, p. 24, #2) ss of the tr ensure the ater. Exar there was	of facility raining wa by were nple ques confusio	as stions:
between sanitary drains and storm drains so further discussion was necessar	y and pen	ormea.	
150. Did you achieve all the goals that you identified in your SWMP related to training mu employees on pollution prevention and good housekeeping for this reporting period (WV MS4 2009 General Permit, p. 24, #3)	l? 	■ Yes	□ No
151. If not, please describe the progress you did make towards achieving your goal(s), and solutions such as revised implementation schedules or revised measurable goals. If you changes to your SWMP goals or schedule, please include them in Section V above. (WV MS4 2009 General Permit, p. 24, #4)			

Marshall University

MONITORING RESULTS

October 2014-March 2015

Date	Permit Requirements	Analyses	Results (mg/L)	Method	Reporting Results (mg/L)
		Nitrate	0.18	E300.0	
3/4/15	Total	Nitrite	ND	E300.0	0.93
	Nitrogen	TKN	0.75	E351.2	
3/4/15	Total Phosphorous	Phosphorous	0.19	E365.4	0.19

April 2015-September 2015

	Date	Permit Requirements	Analyses	Results (mg/L)	Method	Reporting Results (mg/L)
			Nitrate	0.27	E300.0	
	8/10/15	Total	Nitrite	ND	E300.0	0.81
		Nitrogen	TKN	0.54	E351.2	
	8/10/15	Total Phosphorous	Phosphorous	0.04	E365.4	0.04

			1 22 1
			9
			704 00
			14 14
			ś

Marshall University 2014-2015 RECYCLING VS WASTE COMPARISON

	2014			2015		
	Waste	Recycling	Percentage	Waste	Recycling	Percentage
January	55.5	5.7	9.3%	32.16	6.96	17.8%
February	18.78	6.78	26.5%	39.3	3.735	8.7%
March	35.5	6.58	15.6%	36.71	8.485	18.8%
April	48.78	19.27	28.3%	49.43	15.868	24.3%
May	7.28	6.79	48.3%	25.09	5.8445	18.9%
June	15.53	8.7	35.9%	22.2	8.301	27.2%
July	45.15	12.7	22.0%	8.08	3.758	31.7%
August	28.53	6.42	18.4%	31.35	17.02	35.2%
September	53.41	7.89	12.9%			
October	62.57	9.76	13.5%			
November	22.82	6.855	23.1%			
December	40.25	5.91	12.8%			
1st Quarter	109.78	19.06	14.8%	108.17	19.18	15.1%
2nd Quarter	71.59	34.76	32.7%	96.72	30.0135	23.7%
3rd Quarter	127.09	27.01	17.5%	39.43	20.778	34.5%
4th Quarter	125.64	22.525	15.2%	0	0	
Total	434.1	103.355	19.2%	244.32	69.9715	22.3%

	e	
		9
		9