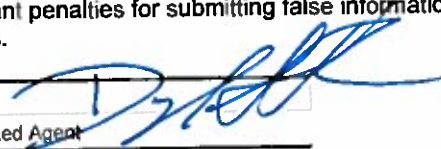




Applicant:	MORGANTOWN, CITY OF	Type:	Electronic Reports
Reference ID:	MS4 Annual Report 2014-2015 (05/07/2015)	Permit ID:	WVR030030
New Module: eRPT Certification			
Status	New	Printed:	May. 08, 2015 9:07 AM

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


Name of Signee:

Doug Smith, PE 
Principal Executive Officer or Authorized Agent

Title:

Assistant General Manager

Date:

5/8/2015 



STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER AND WASTE MANAGEMENT

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		
1. Annual report reporting period: May 10, 2014 to May 9, 2015		
2. Name of MS4: Morgantown Utility Board	3. Registration number: WVR030030	
4. Primary contact: Douglas R. Smith, P.E.	5. Title: Asst. General Manager/Chief Engineer	
6. Mailing address: 278 Greenbag Road, PO Box 852		
7. City: Morgantown	8. Zip code: 26507-0852	9. County: Monongalia
10. Telephone number: (304) 292-8443		
11. Email: dsmith@mub.org		

II. Impaired Waters Information		
12. Does the MS4 discharge into impaired water bodies?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
13. Please provide a description of specific BMPs that were implemented to reduce pollutants of concern in impaired receiving waters and waters in which a TMDL has been developed. (WV MS4 2009 General Permit, p. 25, #12) Per the City of Morgantown's approved Stormwater Management Plan, section 14.a., the only pollutant of concern to be addressed in impaired receiving waters with BMP implementation is Fecal Coliform in the Mon River. The approved SWMP lists two (2) potential sources of Fecal Coliform; pet waste and unknown sanitary and storm sewer system interconnections. The following BMPs were implemented to reduce pet waste introduction into the Mon River BMP 15.h.A- Storm Drain Marking- Project was completed with local Boy Scout Troop 16 and education of storm system and its function of draining to waterways was provided. Please see #28 for details on the event. BMP 15.h.C- Pet Waste Disposal Receptacles- MUB sponsored the purchase and installation of 2 pet waste receptacles. All receptacles are purchased, installed, and maintained by BOPARC. Please see #28 for details on the event. BMP 15.h.D- Participation at Public Events- MUB provided educational materials and discussed the importance of cleaning up after pets during public events that MUB participated in. Please see # 28 for a complete list of events. BMP 16.h.D- Stormwater Hotline- MUB provided a means for the public to report a spill or concern with stormwater at any date and time. BMP 17.i.A- Storm System Mapping- MUB has continued to update the storm and sanitary system mapping as new information is gathered. BMP 17.i.C- Perform Dye Testing of Structures- MUB continues to dye test structures for each stormwater permit and as part of the standard response to any sewer backup complaint.		
14. Has a TMDL been developed since your plan was approved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

III. Fiscal Reporting	
15. 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 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.	\$ 612,579
17. Please provide total operating expenditures for this reporting period.	\$ 422,576

IV. Coordination Efforts and Organization

18. Please provide a description of the coordination efforts with other MS4s, county governments, transportation 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 agreements executed between the permittee(s) and any other entity. (WV MS4 2009 General Permit, p. 24, #9)

WVU voluntarily provided MUB copies of WV DEP approved plans for WVU projects.

MUB attends Technical Review meetings with Morgantown City Planning and Engineering on proposed developments.

MUB is a member of the Municipal Water Quality Association which meets quarterly.

MUB hosted and sponsored the 2014 Monongalia County Household Hazardous Waste Collection Day held September 27, 2014.

MUB was a sponsor of the Friends of Deckers Creek 2014 Decker's Dash held on October 11, 2014.

MUB has agreed to help Friends of Deckers Creek start a rain barrel program by pledging space and manpower for events and workshops to educate the public on rainwater reuse.

19. Please provide name and contact information for individual with overall program management and implementation responsibility, and if different, name and contact information of individuals responsible for each minimum control measure. Please attach a table of organization.

Tim Ball, PE- General Manager, Morgantown Utility Board, 304-292-8443, tball@mub.org

Doug Smith, PE- Asst. General Manager, Morgantown Utility Board, 304-292-8443, dsmith@mub.org

Kenneth Hacker- Staff Engineer, 304-292-8443, khacker@mub.org - Overall Program Management

Kenneth Willis- Engineering Technician, kwillis@mub.org- BMPs 15.h.F, 17.i.D, 18.i.A, 18.i.B, 18.i.D, 19.k.B

Chris Dale- Director of Communications, cdale@mub.org- BMPs 15.h.A-15.h.E, 15.h.G, 16.h.A-16.h.C, 17.i.B, 17.i.D-17.i.F, 18.i.E,

Jim Turner- Construction Stormwater Inspector, jturner@mub.org- BMPs 18.i.C, 18.i.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?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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21. Do you anticipate any planned activities, BMPs, or goals as outlined in your SWMP to change in the upcoming reporting period?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
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22. If anything has changed, please indicate the MCM and performance measure and provide a brief description below, and attach detailed documentation of the changes, schedule of implementation, measurable goals, and overall effect on your program. (WV MS4 2009 General Permit, p. 24, #6 and #7)

Changes have been proposed in the 2015 renewal application and approved changes will be available following approval.

23. Is additional documentation attached?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
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VI. MCM 1: Public Education and Outreach (WV MS4 2009 General Permit, p. 5-6)

24. Did you complete all the proposed activities and performance measures for this MCM for this reporting period?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
25. Contact: Kenneth Hacker	26. Phone: (304) 292-8443	

Performance Measure 1a: Program implementation

27. Were the proposed activities for developing a public education and outreach program implemented?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Partially	<input type="checkbox"/> No
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28. List and briefly describe each of the public education and outreach program development activities undertaken during this reporting period. (WV MS4 2009 General Permit, p. 24, #1)

BMP 15.h.A.- Storm Drain Stenciling- October 11, 2014- Local Boy Scout Troop 52 and 3 volunteers assisted in mapping and stenciling approximately 52 drop inlets in the system.
 BMP 15.h.B.- July 22, 2014- Informational kiosks were cleaned, measured and photographed. September 12, 2014- HHWCD advertisement was installed at 2 of the 3 kiosks and photographs were taken. February 3, 2015- Information was updated in all 3 kiosks and photographs were taken.
 October 11, 2014- MUB assisted Friends of Decker's Creek in helping to sponsor the 5K Decker's Dash.
 BMP 15.h.C.- Pet waste stations- June 6, 2014- 2 Pet waste stations sponsored by MUB have been installed with informational signs. One is located at Dorsey's Knob Park and the other is located at the Good Bridge in Manila Park. They will be installed and maintained by BOPARC.
 BMP 15.h.D. - Participate in public events
 July 19, 2014- MUB set up a booth at "Kids Day" on High Street and distributed 250 educational packets of information and received approximately 100 completed surveys.
 August 24, 2014- MUB participated in "Dog Splash Day" at Manila Park to educate pet owners on cleaning up after pets and distributed 258 educational flyers.
 March 13, 2015 - MUB presentation to Pierpont Elementary School(Confirm with C. Dale)
 April 15, 2015 - MUB participated in Monongalia County 8th Grade Career Day
 BMP 15.h.E.- Participate in Monongalia County Household Hazardous Waste Collection Day- September 27 2014- MUB hosted and provided labor to hold the 2014 Monongalia County Household Hazardous Waste Collection Day at MUB's shop on Greenbag Road. MUB distributed 300 educational packets and received 276 completed surveys.
 BMP 15.h.F.- Participate in City Technical Review Committee Meetings- MUB has attended/participated in 7 City Technical Review Committee Meetings this reporting period.
 BMP 15.h.G.- MUB Internet Website- Stormwater educational material has been made available on MUB.org/stormwater. A survey has been made available on the website. 18 completed surveys have been submitted this reporting period.

29. Did you achieve all the goals that you identified in your SWMP related to developing the education and outreach program for this reporting period? (WV MS4 2009 General Permit, p. 24, #3)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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30. 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 2009 General Permit, p. 24, #4)

15.h.C.-MUB is proposing with the 2015 permit renewal to make the pet waste station BMP a component of the website BMP. MUB does not believe that it would be advantageous to continue to install pet waste stations every year. According to BOPARC, this is simply not needed. Instead, MUB will educate the public on the location and use of the existing stations and the importance of cleaning up after one's pets. Changes have been proposed in the 2015 renewal application and approved changes will be available following approval.
 15.h.G.- MUB has not included "Malcolm the Mallard" as a mascot on the stormwater website. Also, information on new developments will not be made available via the website as it is stated in the SWMP. Changes have been proposed in the 2015 renewal application and approved changes will be available following approval.

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 2009 General Permit, p. 24, #2)

The City of Morgantown's approved SWMP states that MUB will evaluate the effectiveness of public education and outreach efforts "via comments documented during outreach events, technical review meetings, and website information requests and comments. In addition, the online survey data will also be evaluated yearly to determine the effectiveness of the program so that adjustments can be made." Despite MUB's attempts to solicit comments both in person and online, no comments have been received. In response, MUB has begun collecting surveys during outreach events in addition to the online survey. Results from the surveys administered at outreach events this reporting period have been attached along with results from the online survey. This is included in the 2015 permit renewal under proposed BMP 15.h.A.

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 effectiveness of outreach.

Upon recent inspection of MUB's MS4 by the WV DEP in May 2014, it was recommended for MUB to revisit all Public Outreach and education BMPs and revise with clear, measurable goals and milestones for each. Changes have been proposed in the 2015 renewal application and approved changes will be available following approval.

Performance Measure 1c: Documentation and tracking of public education and outreach efforts			
35. Did you track and keep records of your outreach activities?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Partially	<input type="checkbox"/> 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)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
37. Are your records available upon request?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> 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)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
<p>39. Please describe any additional or alternative documentation and tracking of public education and outreach activities you are implementing.</p> <p>MUB has been using surveys at public outreach events to gauge the public's understanding of stormwater and stormwater related topics.</p>			

Performance Measure 1c: Documentation and tracking of public education and outreach efforts			
35. Did you track and keep records of your outreach activities?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Partially	<input type="checkbox"/> 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)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
37. Are your records available upon request?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> 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)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
<p>39. Please describe any additional or alternative documentation and tracking of public education and outreach activities you are implementing.</p> <p>MUB has been using surveys at public outreach events to gauge the public's understanding of stormwater and stormwater related topics.</p>			

VII. MCM 2: Public Involvement and Participation (WV MS4 2009 General Permit, p. 6-7)

40. Did you complete all the proposed activities and performance measures for this MCM for this reporting period?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
41. Contact: Kenneth Hacker	42. Phone: (304) 292-8443	

Performance Measure 2a: Opportunities for ongoing public involvement and participation in the SWMP

43. Did you create, or are you in the process of creating, ongoing opportunities for the public to participate in the development, implementation, and updating of your SWMP?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
44. Did you achieve all the goals that you identified in your SWMP related to creating and maintaining ongoing opportunities for public involvement and participation for this reporting period? (WV MS4 2009 General Permit, p. 24, #3)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

45. 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 2009 General Permit, p. 24, #4)

46. List and briefly describe each of the activities undertaken during the reporting period to create ongoing opportunities for the public to participate in your SWMP. (WV MS4 2009 General Permit, p. 24, #1)

16.h.A.- Storm Drain Stenciling- The storm drain marking event was held on October 11, 2014 with Local Boy Scout Troop 52 and 3 volunteers in the Suncrest area. During the event, approximately 52 storm drains were stenciled.
 16.h.B.- Monongalia County Household Hazardous Waste Collections Day- September 27, 2014- MUB hosted and provided labor to hold the 2014 Monongalia County Household Hazardous Waste Collection Day at MUB's shop on Greenbag Road. MUB distributed 300 educational packets and received 278 completed surveys. 303 cars participated in the event. Meeting minutes were taken and kept on file by MUB.
 16.h.C.- Stormwater website- Comments from public received through stormwater@mub.org were documented. Newspaper publications advertising the number to call to report concerns was documented. 243 visits were documented on the MUB Stormwater website this reporting period. 18 completed stormwater surveys were submitted through the MUB stormwater website this reporting period.
 16.h.D.- Stormwater Hot line- MUB currently has the availability to be reached 24 hours a day, 7 days a week. Public notices were issued in the local newspaper on 7/9/2014, 11/13/2014, 2/5/2015, and 4/2/2015. The add only has to be ran yearly after this year. The hot line number is posted on the MUB website under emergency contact information.
 16.h.E.- Partner with local Watershed Groups- MUB contributed \$500 to support the Friends of Deckers Creek "Deckers Dash 10k." MUB also provided educational material and water bottles that were handed out at the event. MUB has also partnered with the Friends of Deckers Creek to start a rain barrel program. FODC has submitted for federal grant money with MUB pledging to provide space and manpower for assembling, instructing and educating on stormwater reuse at an estimated value of \$5,000-\$10,000.00.
 The proposed 2015 SWMP renewal will be made available for public comment following approval from DEP.

47. Describe how you evaluated the effectiveness of your public participation efforts (citizen attendance at public hearings, requests for information on your SWMP, hotline activity, etc.). (WV MS4 2009 General Permit, p. 24, #2)

The City of Morgantown's approved SWMP states that MUB will evaluate the effectiveness of public participation efforts "Via comments documented during events. The number of participants will be tracked to see if the amount of public participation changes during the course of the SWMP. In addition, survey data will be evaluated yearly to determine the effectiveness of the program so that adjustments can be made to the program for continued success."
 Instead of trying to track public comments during events, a measurable goal that is proposed to change with the permit renewal, MUB has used surveys at events to gauge the public's understanding of stormwater and stormwater related issues. Attached are the analyzed results from the surveys MUB collected this reporting period. MUB will continue to use surveys to collect such information. Attendance was documented at the storm drain stenciling project and cars were counted at the HHWCD. Handouts were counted when distributed at events. This information will be compared to the information collected within the next reporting period to determine any trends.

48. Describe the steps taken to ensure that public participation opportunities are ongoing and, if necessary, additional program maintenance activities in future reporting periods to ensure continued participation opportunities. (WV MS4 2009 General Permit, p. 24, #4)

The MUB website provides the public with the opportunity to leave feedback on services or file complaints. The approved SWMP and annual reports have been made available on the MUB website. The proposed SWMP renewal will be made available for public comment once approved by DEP.
 Customers can reach MUB 24 hours a day, 7 days a week with complaints or emergencies through the stormwater hotline.
 Public Involvement and Participation activities will be completed each year as required by MUB's approved Stormwater Management Plan. See #46 for current list of activities.

Performance Measure 2b: Communications with community, watershed, and environmental organizations			
49. Did you establish a program for routine communications with community based watershed groups or other organizations?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> Partially	<input type="checkbox"/> No
50. Describe the steps taken to ensure that your programs for routine communications with community-based watershed groups or other organizations are ongoing, or any additional program activities that you believe may be required to ensure continued communications. (WV MS4 2009 General Permit, p. 24, #4) MUB contributed \$500 to support the FODC for the "Deckers Dash 10K" run held on October 11, 2014. MUB also provided educational material and water bottles to be handed out at the event. MUB has partnered with the Friends of Deckers Creek to start a rain barrel program. FODC has submitted for federal grant money with MUB pledging to provide space and manpower for assembling, instructing and educating on stormwater reuse at an estimated value of \$5,000-\$10,000.00.			
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? (WV MS4 2009 General Permit, p. 24, #3)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Partially	<input type="checkbox"/> 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 2009 General Permit, p. 24, #4) The approved SWMP states that MUB will "Continue partnership with local watershed groups to involve public in trash collection, rain garden creation, and/or other related activities. Active participation will be performed in a minimum of one event per year." April 16, 2014 - MUB attended a meeting with Friends of Deckers Creek to discuss possible collaborative activities. MUB contributed \$500 to support the FODC for the "Deckers Dash 10K" run held on October 11, 2014. MUB also provided educational material and water bottles to be handed out at the event. MUB has partnered with the Friends of Deckers Creek to start a rain barrel program. FODC has submitted for federal grant money with MUB pledging to provide space and manpower for assembling, instructing and educating on stormwater reuse at an estimated value of \$5,000-\$10,000.00. Changes have been proposed in the 2015 renewal application and approved changes will be available following approval.			

Performance Measure 2c: Public availability of SWMP and annual report		
53. Did you make your SWMP and annual report available to the public?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
54. If yes, please indicate the web address, or if a physical location, please indicate where it is and the process, if any, required for the public to access it. The SWMP and annual report are available at MUB's office located at 278 Greenbag Road and are available upon request. The SWMP and annual report are available on MUB's website mub.org/stormwater .		

VIII. MCM 3: Illicit Discharge Detection and Elimination (WV MS4 2009 General Permit, p. 7-10)

55. Did you complete all the proposed activities and performance measures for this MCM for this reporting period?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
56. Contact: Kenneth Hacker	57. Phone: (304) 292-8443	

Performance Measure 3a: MS4 map

58. Were your proposed activities for creating and annually updating your MS4 map for the reporting period implemented?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Partially	<input type="checkbox"/> No
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59. List and briefly describe the activities undertaken to either develop or update your MS4 map.
(WV MS4 2009 General Permit, p. 24, #1)

Mapping of the storm sewer system is updated as new information is available.
As-builts from storm projects are added to the system mapping as they are completed.
Stormwater outfalls in the MUB stormwater utility have been added to the system mapping.
All post construction stormwater management systems installed by developers and property owners are located on the stormwater system mapping.

Performance Measure 3b: Illicit Discharge Detection and Elimination (IDDE) ordinance development		
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)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
61. If not, please describe the activities or progress made in adopting or updating an existing ordinance and provide an estimated date for adoption. (WV MS4 2009 General Permit, p. 24, #1) The City of Morgantown's Article 929 serves as MUB's IDDE ordinance.		

Performance Measures 3c and 3e: IDDE program implementation and assessment, and program tracking		
62. Is your IDDE program fully implemented, including visual inspections based on a system of prioritizing outfalls and procedures for characterizing discharges?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
63. If no, please describe obstacles, if any, to implementation, and an estimate of when your program will be fully implemented. The major obstacle has been revising the MUB SWMP, based upon the May 2014 DEP inspection, to be program that could be implemented and measured with clear, obtainable goals. The approved SWMP does not have clear, obtainable goals for many of the BMPs. MUB has reevaluated the program and has submitted a revised SWMP for the 2015 renewal with clear, obtainable goals.		
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)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
65. How many field assessments were conducted during the reporting period?	38	
66. How many illicit discharges were identified during the reporting period?	12	
67. How would you characterize the type of illicit discharges found (sewer cross connections, spills, illegal dumping, unaware residents, etc.)? Four (4) of the illicit discharges were sewer cross connections. Three (3) of the illicit discharges were spills reported to MUB by WV DEP. Two (2) of the illicit discharges were spills reported by the public. Three (3) of the illicit discharges were spills discovered by MUB personnel.		
68. How would you characterize the type of pollutants discovered in illicit discharges (oil and grease, fecal coliform, chlorine, paints, etc.)? Name the top five pollutants discovered or uncovered by your IDDE program. Fecal coliform, oil and grease 1) Fecal coliform 2) Oil and grease 3) Concrete mixer truck washout 4) Glycol Spill 5) NA		
69. How many corrective actions were taken to remove illicit discharges?	12	
70. How many enforcement actions were initiated to eliminate illicit discharges into the storm sewer system?	7	
71. Have you attached additional documentation to better identify the nature and extent of the program activities and accomplishments?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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 2009 General Permit, p. 24, #3)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Partially	<input type="checkbox"/> No
<p>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)</p> <p>BMP 15.h.A.- Storm Drain Stenciling- October 11, 2014- Local Boy Scout Troop 52 and 3 volunteers assisted in mapping and stenciling approximately 52 drop inlets in the system. BMP 15.h.B.- July 22, 2014- Informational kiosks were cleaned, measured and photographed. September 12, 2014- HHWCD advertisement was installed at 2 of the 3 kiosks and photographs were taken. February 3, 2015- Information was updated in all 3 kiosks and photographs were taken. BMP 15.h.C.- Pet waste stations- June 6, 2014- 2 Pet waste stations sponsored by MUB have been installed with informational signs. One is located at Dorsey's Knob Park and the other is located at the Good Bridge in Marilla Park. They will be installed and maintained by BOPARC. BMP 15.h.D. - Participate in public events July 19, 2014- MUB set up a booth at "Kids Day" on High Street and distributed 250 educational packets of information and received approximately 100 completed surveys. August 24, 2014- MUB participated in "Dog Splash Day" at Marilla Park to educate pet owners on cleaning up after pets and distributed 258 educational flyers. October 11, 2014- MUB assisted Friends of Decker's Creek in helping to sponsor the 5K Decker's Dash. March 13, 2015 - MUB presentation to Pierpont Elementary School(Confirm with C. Dale) April 15, 2015 - MUB participated in Monongalia County 8th Grade Career Day BMP 15.h.E.- Participate in Monongalia County Household Hazardous Waste Collection Day- September 27, 2014- MUB hosted and provided labor to hold the 2014 Monongalia County Household Hazardous Waste Collection Day at MUB's shop on Greenbag Road. MUB distributed 300 educational packets and received 276 completed surveys. BMP 15.h.F.- Participate in City Technical Review Committee Meetings- MUB has attended/participated in 7 City Technical Review Committee Meetings this reporting period. BMP 15.h.G.- MUB Internet Website- Stormwater educational material has been made available on MUB.org/stormwater. A survey has been made available on the website. 18 completed surveys have been submitted this reporting period.</p>			
74. Were any of these activities included in the public education and outreach efforts described in MCM 1?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
<p>75. How did you evaluate the effectiveness of the activities described in the list above? (WV MS4 2009 General Permit, p. 24, #2)</p> <p>The City of Morgantown's approved SWMP states that MUB will evaluate the effectiveness of the Illicit Discharge Detection and Elimination program by "tracking both public and staff reported discharges and resolutions. Received comments and reports of discharges will be recorded and evaluated. In addition, the number of spills and correction time will also be evaluated to determine the effectiveness of the program." MUB feels that due to the prompt response of the illicit discharges reported and actions taken either by MUB or other entities to remove such discharges, additional complaints were not received by MUB from the public and therefor the effectiveness of the program this reporting period was good.</p>			
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)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
<p>77. 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 2009 General Permit, p. 24, #4)</p> <p>See Attachment 1 for a full description of BMP implementation for this MCM.</p>			

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? Yes No

80. List and briefly describe the training activities conducted during the reporting period.
(WV MS4 2009 General Permit, p. 24, #1)

August 14, 2014- Illicit Discharge training and Good Housekeeping training was held at the MUB shop training room. Training sessions were held at 7:30 and at 8:30. The 7:30 training was made up of 57 MUB shop employees. The 8:30 training was made up of 12 MUB engineering employees, 30 City maintenance crew employees, and 2 BOPARC employees. The training consisted of showing a video produced by Excal Visual titled "Municipal Stormwater Pollution Prevention" and then a power point presentation defining illicit discharges and what our responsibilities are and how we handle them.

81. How did you evaluate the effectiveness of the training activities? (WV MS4 2009 General Permit, p. 24, #2)

MUB completes inspections and face-to-face training of employees on MUB sites. It was discussed this reporting period that following the training, employees were more receptive of the idea of having to install and maintain E&S controls on job sites. Several photographs were taken and filed showing proper E&S controls in place on MUB sites.

82. How many municipal employees were trained to identify and report illicit discharges?
(WV MS4 2009 General Permit, p. 24, #2)

101

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 2009 General Permit, p. 24, #3)

Yes No

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 2009 General Permit, p. 24, #4)

IX. MCM 4: Construction Site Runoff Control (WV MS4 2009 General Permit , p. 10-12)

85. Did you complete all proposed activities and performance measures for this MCM for this reporting period?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
86. Contact: Kenneth Hacker	87. Phone: (304) 292-8443	

Performance Measures 4a and 4b: Develop and implement an ordinance to address stormwater runoff from construction sites one acre or greater

88. Has your municipality adopted a construction site runoff control ordinance in accordance with the requirements of the WV MS4 2009 General Permit (Part II Section C.b.4.a)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Partially	<input type="checkbox"/> No
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89. If a program ordinance has not been adopted, have the proposed activities for developing and implementing an ordinance to address stormwater runoff from construction sites been implemented?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Partially	<input type="checkbox"/> No
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90. Please indicate the anticipated ordinance adoption schedule. (WV MS4 2009 General Permit, p. 24, #1)			
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91. Has your construction site ordinance been reviewed and/or updated to include any new criteria during the reporting period?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> Partially	<input type="checkbox"/> No
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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 keeping and reporting?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Partially	<input type="checkbox"/> No
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93. Please indicate the number of plan approvals during the reporting period.	150
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94. Please indicate the number of construction site inspections during the reporting period.	2,386
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95. Please indicate the number of enforcement actions during the reporting period (can attach document).	15
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96. Are enforcement records maintained and available upon request?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Partially	<input type="checkbox"/> No
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97. Is there adequate funding to fulfill the program implementation requirements required by the WV MS4 2009 General Permit?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Partially	<input type="checkbox"/> No
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98. Briefly list and describe any activities outlined in your SWMP completed during the past permit year related to construction site operator and/or permittee site inspector training. (WV MS4 2009 General Permit, p. 24, #1)

MUB has compiled Morgantown specific stormwater management material into a stormwater training packet. MUB has distributed a MUB Stormwater Training Packet to 50 individuals/companies this reporting period. A verification sheet has been signed and returned for each of the training packets. This information is kept on file in the MUB stormwater department. Revisions have been proposed in the 2015 permit renewal to include the MUB Stormwater Training packet as a component to BMP 18.i.C.

99. Did you achieve all the goals that you identified in your SWMP related to developing or implementation and assessment of a construction site runoff control program for this reporting period? (WV MS4 2009 General Permit, p. 24, #3)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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100. 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 2009 General Permit, p. 24, #4)

BMP 18.i.A- Participate in City Technical Review Meetings- MUB attended City Technical Review Meetings and provided guidance to owners and developers on stormwater regulations and erosion and sediment control requirements. Erosion and sediment control techniques discussed were not documented. This is not a practical goal for this BMP and is proposed to be changed with the 2015 permit renewal. Instead, MUB uses this time to distribute the MUB Stormwater Training Packet. Discussion of site specific designs take place during the latter stages of the project's application process.

BMP 18.i.B- Site Plan Review- Corrections to submitted plans were not documented. MUB has learned that this is not a practical goal for this BMP and is proposed to be changed with the 2015 permit renewal.

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 for this reporting period?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
102. Contact: Kenneth Hacker	103. Phone: (304) 292-8443	

Performance Measure 5a: Develop, implement, and enforce a program to protect water resources by addressing stormwater discharges from regulated new and redevelopment projects

104. Has your municipality adopted a stormwater management ordinance in accordance with WV MS4 2009 General Permit (Part II Section C.5.a.ii.A)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> Partially	<input type="checkbox"/> No
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105. If your ordinance has not been adopted, please describe the progress made towards final ordinance adoption during this reporting period, and expected date of final adoption. (WV MS4 2009 General Permit, p. 24, #1)

MUB currently has a stormwater management ordinance in place. The ordinance is currently being reviewed and updated to reference the MUB Stormwater Design Manual that will include the requirements of the General Permit. The 2015 permit renewal proposes that the manual will be completed within 18 months of the approval date. The ordinance review and update will be completed following the completion of the manual.

106. Does your (proposed) ordinance include language incorporating the development incentives described in the WV MS4 2009 General Permit (Part II Section C.5.a.ii.A.3)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
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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 the WV MS4 2009 General Permit (Part II Section C.5.a.ii.A.4)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
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108. Have you developed a process for reviewing and updating your ordinance and program implementation to address the adequacy of provisions for: i) requiring runoff volume reduction on new and redevelopment sites, ii) plan review, iii) BMP construction and maintenance inspections, iv) enforcement, v) inventory and tracking, and vi) record keeping and reporting?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
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109. How many projects were reviewed during the reporting period?	150
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110. What types of projects were reviewed (residential, commercial, industrial, etc.)? (WV MS4 2009 General Permit, p. 18, #2)

MUB approved 106 residential projects this reporting period.
MUB approved 44 commercial projects this reporting period.

111. Provide a summary of the number and types of stormwater BMPs approved in new and redevelopment projects during the reporting period. Please list the BMPs according to the BMP specification number from the WV Stormwater Management Manual (2012). (WV MS4 2009 General Permit, p. 18, #3)

BMP 4.2.2- Impervious Surface Disconnection- Thirteen (13) projects utilized underground storage pipe systems to achieve flow reduction and infiltration. They were comprised of five (5) commercial projects and eight (8) residential projects.

BMP 4.2.3- Bioretention- Seven (7) projects utilized bioretention/raingardens to achieve flow reduction and infiltration. They were comprised of three (3) commercial projects and four (4) residential projects.

<p>112. Provide a summary of the number and type of projects that qualified for each of the development incentives described in the WV MS4 2009 General Permit (Part II Section C.5.a.ii.A.3) during the reporting period. Please indicate if you have attached additional documentation. (WV MS4 2009 General Permit, p. 18, #3)</p> <p>MUB's stormwater ordinance has not yet been revised to include the Development Incentives as described in the WV MS4 2009 General Permit.</p> <p>Review and revision of MUB's current stormwater ordinance will be completed following the MUB Stormwater Design Manual being finalized. The manual will include much of the information that is required by the General Permit.</p>		
<p>113. Provide a summary of the number of projects that qualified for any offsite mitigation or payment in lieu options described in the WV MS4 2009 General Permit (Part II, Section C.b.5.a.ii.A.4) during the reporting period. Please indicate if you attach additional documentation. (WV MS4 2009 General Permit, p. 18, #3)</p> <p>No projects qualified for offsite mitigation or payment in lieu of stormwater management for this reporting period.</p> <p>MUB's stormwater ordinance is currently under review to include an offsite mitigation or payment in lieu program.</p>		
<p>114. How many maintenance agreements were approved during the reporting period? (WV MS4 2009 General Permit, p. 18, #4)</p>	<p>1</p>	
<p>115. Were any maintenance agreements recorded at the county courthouse?</p>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<p>116. Provide a summary of the number and type of stormwater BMP inspections conducted by MS4 personnel or contracted agents (construction as-built, ongoing operation and maintenance audits, complaint driven, etc.). Include (or attach) a summary of: i) the type and number of BMPs requiring maintenance or repair, ii) the number brought into compliance, and iii) the number of enforcement actions taken. (WV MS4 2009 General Permit, p. 18, #5)</p> <p>MUB has completed forty-two (42) permanent BMP inspections this reporting period. Thirty-one (31) of the systems inspected required maintenance to be completed. MUB is in the process of issuing letters to the system owners requiring the maintenance to be completed. Any system that MUB inspects and is in need of maintenance will receive a letter from MUB stating what corrections need to be made and a time frame in which they are to be completed.</p>		
<p>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? (WV MS4 2009 General Permit, p. 24, #3)</p>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<p>118. 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 2009 General Permit, p. 24, #4)</p> <p>The review of the Morgantown City Stormwater ordinance is underway. Revisions will reference the MUB Stormwater Manual which will include the requirements of the 2014 General Permit. Revisions to the ordinance will take place following the finalization of the MUB Stormwater Design Manual. The MUB Stormwater Design Manual is in draft form and is proposed to be completed within 18 months of approval of the 2015 permit renewal.</p>		

Performance Measure 5b: Long-term watershed protection elements			
119. Does a local ordinance or equivalent document incorporate the watershed protection elements described in WV MS4 2009 General Permit (Part II Section C.5.a.i.A)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> Partially	<input type="checkbox"/> No
120. If yes, please describe how the permittee's legal authority addresses the following watershed protection elements: (WV MS4 2009 General Permit, p. 18, #1)			
121. Minimize impervious cover.	Morgantown Stormwater Ordinance- Stormwater fee is based on the total impervious cover		
122. Preserve, protect, create, and restore ecologically sensitive areas.	Proposed to be addressed with BMP 19.k.A in the 2015 permit renewal		
123. Implement practices that prevent or reduce thermal impacts to streams.	Morgantown Stormwater Ordinance- Requires all new and redevelopment projects to implement stormwater management BMPs		
124. Seek to avoid or prevent hydromodification of water bodies caused by development.	Morgantown Stormwater Ordinance- Requires all new and redevelopment projects to implement stormwater management BMPs		
125. Minimize impacts to existing vegetation (especially trees).	Proposed to be addressed with BMP 19.k.A in the 2015 permit renewal		
126. Minimize impacts to native undisturbed soils.	Proposed to be addressed with BMP 19.k.A in the 2015 permit renewal		
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) MUB is proposing BMP 19.k.A.-"Restore and Protect Ecologically sensitive areas" in the 2015 permit renewal to address the elements not addressed by Morgantown City Code as described above.			

Performance Measure 5c: Street and parking design assessments		
128. Were the proposed activities for assessing the current street design guidelines and parking requirements implemented?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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 General Permit, p. 19-21)

130. Did you complete all the required performance measures for this MCM for this reporting period?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
131. Contact: Kenneth Hacker	132. Phone: (304) 292-8443	

Performance Measures 6a and 6b: Develop and implement an operation and maintenance program for all municipal facilities that includes prevents or reduces the discharge of polluted runoff

133. Were the proposed activities for developing a pollution prevention and good housekeeping program for municipal operations implemented?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> Partially	<input type="checkbox"/> No
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134. List and briefly describe the activities outlined in your SWMP for the development of a pollution prevention and good housekeeping program for municipal operations undertaken during this reporting period.

BMP 20.i.A. - Maintenance Activities- MUB conducted a detailed inspection of the MUB Shop Facility and the City of Morgantown Maintenance Facility. All required maintenance at the MUB shop facility was completed. MUB is working with the City of Morgantown to complete all required maintenance at their facility.

BMP 20.i.B.- Waste Disposal- MUB continued to dispose of waste material from maintenance activities at proper locations. All excess material from maintenance activities is brought back to MUB's permitted fill area for disposal.

BMP 20.i.C.- Employee Training- MUB trained municipal employees illicit discharge recognition and reporting and good housekeeping practices on August 14, 2014. 101 municipal employees were trained this date.

20.i.D - Develop Comprehensive Pollution Prevention Plan- A Comprehensive Pollution Prevention Plan has been developed for the six (6) different municipal properties and submitted in the 2015 permit renewal. See attachment 1 for the list.

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)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
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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)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
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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)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
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138. If you answered no to any of the previous three questions, please indicate your proposed schedule for implementing the requirements of the WV MS4 2009 General Permit (Part II Section C.b.6.a).

MUB has developed a comprehensive pollution prevention plan for each of the municipal facilities as required by the general permit.

139. How many inspections were conducted at each municipal facility during the reporting period?	1
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140. List the top three problems that you have found while conducting inspections at municipal facilities.

Upon completion of the inspections for the municipal facilities, the top three problems were;

- 1) Improper labeling and storage of containers exposed to stormwater.
- 2) Improper storage of vehicles that are no longer in service.
- 3) Lack of secondary containment on petroleum products.

141. Were these problems corrected? (WV MS4 2009 General Permit, p. 24, #1)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
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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 2009 General Permit, p. 24, #3)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
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 2009 General Permit, p. 24, #4) See attachment 1 for explanation of BMPs 20.i.A and 20.i.B.		

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 2009 General Permit (Part II, Section C.b.6.c)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Partially	<input type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Partially	<input type="checkbox"/> No
146. Did municipal employees receive training in accordance with the guidelines described in the WV MS4 2009 General Permit (Part II, Section C.b.6.c)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Partially	<input type="checkbox"/> No
147. How many employees received training during the reporting period? (WV MS4 2009 General Permit, p. 24, #1)	101		
148. Are you maintaining records of all municipal training activities (including training agendas, learning objectives, instructor qualifications, sign in sheets, etc.)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
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 2009 General Permit, p. 24, #2) 101 municipal employees were trained this reporting period. When compared to last years report of 67 municipal employees trained, this years training was approximately 51% more effective. Deficiencies noted during inspections of the MUB shop and City Facility were mostly corrected. Two issues noted, location of city street sweeper debris and MUB vacuum truck dewatering station, will require larger projects to completely address the problems. MUB will continue to work on getting these items corrected. 3 of the 5 municipal facilities inspected showed very minor to no deficiencies. With these results, MUB considers the training provided effective.			
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 2009 General Permit, p. 24, #3)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> 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 2009 General Permit, p. 24, #4) Please see Attachment 1 for explanation of BMPs.			

MUB Stormwater Department O&M

April 1, 2014 to April 1, 2015

Apr-14	\$	32,893
May-14	\$	32,629
Jun-14	\$	41,465
Jul-14	\$	37,141
Aug-14	\$	37,923
Sep-14	\$	32,728
Oct-14	\$	51,481
Nov-14	\$	26,937
Dec-14	\$	22,872
Jan-15	\$	37,986
Feb-15	\$	32,457
Mar-15	\$	36,064
Total	\$	422,576

CWIP Activity for Current Month (Excluding Plant)

From: 4/1/2014

To: 3/31/2015

S4.109	NEW SERVICES	4,262.26	4 100 3000
S4.110	ADDITION TO SERVICES	14,097.61	4 100 3000
S4.209	RENEWAL SERVICES	6,075.62	4 100 3000
ST-028	85' STORM LINE @ 71 WILSON AVE	46.43	4 100 3000
ST-200	REPAIR-BRAEWICK WOODS STRM SYS	6,181.38	4 100 3000
ST-209	HARTMAN RUN/RT 7 IMPROVMENTS	1,298.64	4 100 3000
ST-218	6TH ST-1 MH-STM TAP-SENECA CTR	77.11	4 100 3000
ST-227	MONTROSE (NEAR 917) IN.12" PVC	711.00	4 100 3000
ST-232	JOHNSON AV-TYPE B NLET&12"PIPE	266.29	4 100 3000
ST-242	SABRATON AVE -22' OF 8" STORM	3,794.27	4 100 3000
ST-245	MILFRD-RE 800' CLAY WTH 12"PVC	26,079.02	4 100 3000
ST-252	TACOMA/PATTESN-70'CNCRETE CURB	64.75	4 100 3000
ST-253	SNIDER-2 INLTS&REPAIR 100'DTCH	825.81	4 100 3000
ST-262	REL. 24"STORM PIPE-UNIV. PLACE	1,907.42	4 100 3000
ST-267	12"PVC&STRM MANHOLE-AUGUSTA	195.93	4 100 3000
ST-279	POPONO-DRAIN. IMP- WILLOWDALE	54.91	4 100 3000
ST-281	SUBURBAN LN DRAIN SYS.IMPROVE.	242,620.75	4 100 3000
ST-282	RT7 CHANNEL RESTORATN-DUG HILL	11,068.96	4 100 3000
ST-287	18"ST.PIPE,2 NLTS-W.MINISTER	36,303.05	4 100 3000
ST-290	TYP B NLET,12"HDPE-FAIRVIEW AV	140.88	4 100 3000
ST-293	SYS.UPGRADE-HOLIDAY INN-PNVIEW	55,132.14	4 100 3000
ST-294	REP.40'-8"PVC NEAR TREMONT AVE	642.42	4 100 3000
ST-295	94'-12" HDPE-239 WAITMAN	13,454.76	4 100 3000
ST-296	451 LEWIS-2TYP B NLTS & 12"HDPE	-245.11	4 100 3000
ST-297	RE.DITCH LINE&3 CULV-LIONS AVE	9,766.39	4 100 3000
ST-298	1 TYP B NLT&23"PVC-SPRINGFIELD	5,929.86	4 100 3000
ST-299	CULVRT& DITCH WRK-NORTHWESTERN	4,136.27	4 100 3000
ST-300	REP. 63'-15" ON 8TH STREET	12,351.97	4 100 3000
ST-301	TYP B NLT&12"PVC-740 UNION AVE	9,448.18	4 100 3000
ST-302	REPAIR DTCH-WAYNE TO CURTIS AV	2,486.06	4 100 3000
ST-304	CARLISLE-CULVERT& 1 BRICK NLET	5,622.55	4 100 3000
ST-305	8"PVC STRM-3461 COLLINS FERRY	862.75	4 100 3000
ST-306	IN INLET CLINTON/DAYTON STS	2,384.90	4 100 3000
ST-307	IN.CHANNEL-REP.CMP-BURROUGH/VV	438.56	4 100 3000
ST-308	12"PVC&1 NLET NR STEWART&RILEY	148.40	4 100 3000
ST-309	12"PVC& 1 TYPE B INLET-LASHLEY	3,301.77	4 100 3000
ST-310	INSTALL STORM CULVERT-BRETZ AV	568.84	4 100 3000
ST-311	VILLAGE DR STORM ACQUISITION	151.88	4 100 3000
ST-312	IN 1 INLET/35' LN- TYSON ST	730.54	4 100 3000
ST-313	IN 1 INLET/1 HEADWALL-DOYLE ST	240.84	4 100 3000
ST-314	IN INLET @ JONES AVENUE	5,443.33	4 100 3000
ST-315	IN 2 INLET/RE PIPE APOLLO DR	550.59	4 100 3000
ST-316	INSTALL DROP ON VANDALIA ROAD	1,806.14	4 100 3000
ST-317	DI-BTWN HARDYS&SMITYS-EARLCORE	105.58	4 100 3000
ST-318	CULVERT-JERSEY AND JEROME ST.	353.36	4 100 3000
ST-319	TYP B NLT&STRM TAP-344CHARLSTN	521.48	4 100 3000
ST-320	WINDSOR EST-STRM SWR ACQUISITN	527.77	4 100 3000
ST-322	B NLT&12" STRM LN-PRIDE&JONES	6,686.18	4 100 3000
ST-323	2-B NLTS&12"STRM LN-KROGER	26,537.74	4 100 3000
ST-324	IN. NLET&HEADWALL@VALLY CROSS.	13,798.47	4 100 3000
ST-325	STRM UPGRADE @ UNIV. & OVERHIL	36,306.82	4 100 3000
ST-326	IN 12' -15" LN- TAP FOUNDRY ST	0.00	4 100 3000

ST-327	12" HDPE ALONG CHARLESTON AVE	269.40	4 100 3000
ST-328	15"PVC STRM-OVERHILL TO QUAY	7,507.26	4 100 3000
ST-329	1 TYP B NLET-LEGION ST&KIWANIS	190.16	4 100 3000
ST-330	TYP B NLT&12"HDPE-DECKERS CRK	769.59	4 100 3000
ST-331	REP.12"WTH12SDR-35-HILLWOOD DR	1,491.43	4 100 3000
ST-332	UNIV.AVE.-52'-8" STORM CULVERT	1,796.37	4 100 3000
ST-333	TYP B NLT&4X6 SWALE-RICHARD AV	682.71	4 100 3000
ST-334	INSTALL RIP RAP-816 WHITE AVE.	0.00	4 100 3000
ST-335	STRM UPGRD-400 BLOCK-MORGAN ST	541.39	4 100 3000
ST-336	REP.12"STORM-MARYLAND STREET	1,838.38	4 100 3000
ST-337	1 INLET, 12"HDPE-WILBOURNE ST	79.23	4 100 3000
STB0062	12" TP UNIV. PL-3RD ST- NORTH	15,904.48	4 100 3000
STB0064	12" TAP 407 WILLEY STREET	5.20	4 100 3000
STB0067	ST TAP- 432 ELYSIAN AVENUE	725.93	4 100 3000
STB0068	IN 6" ST SER 383 ROTARY STREET	947.55	4 100 3000
STB0069	TAP OVERHILL ST/QUAY ALLEY	388.95	4 100 3000
STB0070	IN 1 B INLET/TAP PRIDE/JONES	0.00	4 100 3000
STB0071	TAP-UNIVERSITY AVE/COLLINS FE	0.00	4 100 3000
STB0072	IN SER @ 55 LINCOLN AVENUE	1,776.64	4 100 3000
STB0073	TAP- FOUNDRY STREET	1,400.63	4 100 3000
		\$612,578.82	

Morgantown MS4

2015 Annual Report

Attachment 1

Below is a summary of the activities this reporting period for the BMPs approved in the 2009-2014 SWMP with the note of proposed changes to the BMPs and their location in the proposed 2014-2019 SWMP renewal.

MCM 1- Public Outreach and Education

BMP 15.h.A- Storm Drain Marking- Satisfied 100%

- The storm drain marking event was held on October 11, 2014 with Local Boy Scout Troop 52 and 3 volunteers in the Suncrest area. During the event, approximately 52 storm drains were stenciled.
 - This is proposed as BMP 16.h.A. in the 2015 permit renewal. Changes will be available upon approval and will be reported in annual report following the approval.

BMP 15.h.B- Informational Kiosks- Satisfied 100%

- April 16, 2014- Cleaned kiosks and sprayed for insects
- June 26, 2014- Cleaned and measured kiosks for replacing displays
- July 22, 2014- Informational kiosks were cleaned, measured and photographed.
- September 12, 2014- HHWCD advertisement was installed at 2 of the 3 kiosks and photographs were taken.
- October 2, 2014- Removed HHWCD signage
- February 3, 2015- Information was updated in all 3 kiosks and photographs were taken.
 - This is included in BMP 15.h.C. in the 2015 permit renewal. Changes will be available upon approval and will be reported in annual report following the approval.

BMP 15.h.C- Pet Waste Disposal Receptacles- Satisfied 100%

- June 6, 2014- 2 Pet waste stations sponsored by MUB have been installed with informational signs. One is located at Dorsey's Knob Park and the other is located at the Good Bridge in Marilla Park. They will be maintained by BOPARC.
 - This is included in BMP 15.h.C. in the 2015 permit renewal. Changes will be available upon approval and will be reported in annual report following the approval.

BMP 15.h.D- Participation in Public Events- Satisfied 100%

- July 19, 2014- MUB set up a booth at "Kids Day" on High Street and distributed 250 educational packets of information and received approximately 100 completed surveys.
- August 24, 2014- MUB participated in "Dog Splash Day" at Marilla Park to educate pet owners on cleaning up after pets and distributed 258 educational flyers.

- October 11, 2014- MUB assisted Friends of Decker's Creek in helping to sponsor the 10K Decker's Dash.
- March 23, 2015 - MUB presentation to Pierpont Elementary School.
- April 15, 2015 - MUB participated in Monongalia County 8th Grade Career Day and distributed 185 stormwater educational flyers and received 32 completed stormwater surveys.
 - This is proposed as BMP 15.h.A. in the 2015 permit renewal. Changes will be available upon approval and will be reported in annual report following the approval.

BMP 15.h.E- Participate in Monongalia County Household Hazardous Waste Collection Day- Satisfied 100%

- September 27, 2014- MUB hosted and provided labor to hold the 2014 Monongalia County Household Hazardous Waste Collection Day at MUB's shop on Greenbag Road. MUB distributed 300 educational packets and received 276 completed surveys. 303 cars participated in the event. Meeting minutes were taken and kept on file by MUB.
 - This is proposed as BMP 16.h.B. in the 2015 permit renewal. Changes will be available upon approval and will be reported in annual report following the approval.

BMP 15.h.F- Participate in City Technical Review Committee Meetings- Satisfied 95%- MUB did not "document stormwater management techniques discussed and potential problems identified." MUB has learned that at the point of having City Technical Review Committee Meetings, projects are not in the stages necessary to discuss specific issues with the project. These discussions come more through the design and plan review stages. Instead of documenting these items, MUB has compiled a stormwater educational packet of information that is being distributed at the meetings. It is documented who has received the informational packet.

- MUB has participated in 7 City Technical Review Committee meetings.
 - MUB has record of sign in sheets from meetings
 - MUB distributed stormwater training packets at meetings
 - This is proposed as BMP 15.h.B. in the 2015 permit renewal. Changes will be available upon approval and will be reported in annual report following the approval.

BMP 15.h.G- MUB Internet Website- Satisfied 90%- The approved SWMP states that MUB will use "Malcolm the Mallard as MUB's stormwater mascot" on the MUB website. MUB is not currently using "Malcolm Mallard" as the stormwater mascot and is not planning on using it with the current public outreach activities proposed.

- MUB has made educational material available at mub.org/stormwater. City ordinances are available on the website. Customer responsibilities are available on the website.
 - Changes to the website are being documented in a table.
 - The number of visits to the website are being tracked. 243 visits this reporting period.
 - An online survey has been made available and is being collected.
 - This is proposed as BMP 15.h.C in the 2015 permit renewal. Changes will be available upon approval and will be reported in annual report following the approval.

MCM 2- Public Involvement and Participation

BMP 16.h.A- Storm Drain Marking- Satisfied 100%

- The storm drain marking event was held on October 11, 2014 with Local Boy Scout Troop 52 and 3 volunteers in the Suncrest area. During the event, approximately 52 storm drains were stenciled.
 - Boy Scout Troop 52 and 3 University High volunteers
 - MUB personnel- Ken Hacker, Chris Dale, and Jim Turner
 - Items of discussion were documented
 - Event was held October 11, 2014
 - Storm drains marked were noted on the MUB stormwater system mapping.
 - Event photos were added to the website mub.org/stormwater
 - This is proposed as BMP 16.h.A. in the 2015 permit renewal. Changes will be available upon approval and will be reported in annual report following the approval.

BMP 16.h.B- Participate in Monongalia County Household Hazardous Waste Collection Day- Satisfied 100%.

- September 27, 2014- MUB hosted and provided labor to hold the 2014 Monongalia County Household Hazardous Waste Collection Day at MUB's shop on Greenbag Road. MUB distributed 300 educational packets and received 276 completed surveys. 303 cars participated in the event. Meeting minutes were taken and kept on file by MUB.
 - HHWCD meeting minutes were maintained by MUB and kept on file
 - Number of participants was determined from counting cars, 303 total. Types and amounts of items collected is described on the invoice from the hazardous waste company.
 - Event photos were added to the website mub.org/stormwater.
 - This is proposed as BMP 16.h.B. in the 2015 permit renewal. Changes will be available upon approval and will be reported in annual report following the approval.

BMP 16.h.C- MUB Internet Website- Satisfied 100%

- Comments from public received through stormwater@mub.org were documented
- Number of visits to mub.org/stormwater was tracked. 243 visits this reporting period.
- Online survey was made available. 17 surveys were completed this reporting period. See attached analysis of results for the online survey.
- This is proposed as BMP 15.h.C. in the 2015 permit renewal. Changes will be available upon approval and will be reported in annual report following the approval.

BMP 16.h.D- Stormwater Hotline- Satisfied 100%

- Public notice advertisements were ran in the local newspaper on July 9, 2014, November 13, 2014, February 5, 2015 and April 2, 2015 to notify the public where spills and suspected illicit discharges can be reported. This add has to only be ran once in the next reporting period.
 - This is proposed as BMP 17.i.E. in the 2015 permit renewal. Changes will be available upon approval and will be reported in annual report following the approval.

BMP 16.h.E- Partner with Local Watershed Groups- Satisfied 100%

- MUB contributed \$500 to support the FODC for the “Deckers Dash 10K” run held on October 11, 2014. MUB also provided educational material and water bottles to be handed out at the event.
- MUB has partnered with the Friends of Deckers Creek to start a rain barrel program. FODC has submitted for federal grant money with MUB pledging to provide space and manpower for assembling, instructing and educating on stormwater reuse at an estimated value of \$5,000-\$10,000.00.
 - This is proposed as BMP 16.h.D. in the 2015 permit renewal. Changes will be available upon approval and will be reported in annual report following the approval.

MCM 3- Illicit Discharge Detection and Elimination

BMP 17.i.A- Storm System Mapping- Satisfied 100%

- New storm sewer connections were mapped along with new system components and privately owned stormwater management systems. An electronic map of the storm system components is maintained by MUB.
 - This is proposed as BMP 17.i.B. in the 2015 permit renewal. Changes will be available upon approval and will be reported in annual report following the approval.

BMP 17.i.B- Participate in Monongalia County Household Hazardous Waste Collection Day- Satisfied 100%

- September 27, 2014- MUB hosted and provided labor to hold the 2014 Monongalia County Household Hazardous Waste Collection Day at MUB's shop on Greenbag Road. MUB distributed 300 educational packets and received 276 completed surveys. 303 cars participated in the event. Meeting minutes were taken and kept on file by MUB.
 - HHWCD meeting minutes were maintained by MUB and kept on file
 - Number of participants was determined from counting cars, 303 total. Types and amounts of items collected is described on the invoice from the hazardous waste company.

- Event photos were added to the website mub.org/stormwater.
- This is proposed as BMP 16.h.B. in the 2015 permit renewal. Changes will be available upon approval and will be reported in annual report following the approval.

BMP 17.i.C- Perform Dye Testing of Structures- Satisfied 100%

- MUB has completed 38 dye tests this reporting period.
- Address and findings of dye testing has been documented.
- Corrections completed were documented.
- This is proposed to be included in BMP 17.i.C. in the 2015 permit renewal. Changes will be available upon approval and will be reported in annual report following the approval.

BMP 17.i.D- Conduct Public and Staff Training- Satisfied 100%

- Public Training, public education, was completed at the public events listed in 15.h.D. Municipal staff training on IDDE was completed on August 14, 2014.
 - Dates of public trainings are documented in 15.h.D. and was accomplished through stormwater educational material handouts.
 - Reports of illicit discharges were and subsequent investigations were documented
 - 101 municipal staff was trained on August 14, 2014
 - In the 2015 Permit renewal, MUB will continue to present educational information to the public during public events as described in BMP 15.h.A and municipal staff will be trained as described in BMP 20.i.B.

BMP 17.i.E- Business Community Informational Brochure- Satisfied 100%

- The MUB Spill Prevention/IDDE Brochure was distributed to local businesses in the MS4 during October 2014 and again in April 2015. Reports of spills and follow up investigations were documented.
 - It is proposed in the 2015 permit renewal that the information on the brochure will be placed on the MUB Stormwater website as part of BMP 15.h.C.

BMP 17.i.F- MUB Internet Website-Satisfied 100%

- Webpage pertaining to illicit discharges has been created and linked to mub.org/stormwater.
 - There were 243 visits to the MUB Stormwater website this reporting period.
 - 17 Online surveys have been completed during this reporting period. See attached analysis of results for the online survey.
 - This is proposed as BMP 15.h.C. in the 2015 permit renewal. Changes will be available upon approval and will be reported in annual report following the approval.

MCM 4- Construction Site Run-off Control

BMP 18.i.A- Participate in City Technical Review Committee Meetings- Satisfied 95%- MUB did not “document stormwater management techniques discussed and potential problems identified.” MUB has learned that at the point of having City Technical Review Committee Meetings, projects are not in the stages necessary to discuss specific issues with the project. These discussions come more through the design and plan review stages. Instead of documenting these items, MUB has compiled a stormwater educational packet of information that is being distributed at the meetings. It is documented who has received the informational packet.

- MUB has participated in 7 City Technical Review Committee meetings.
 - MUB has record of sign in sheets from meetings
 - MUB distributed stormwater training packets at meetings
 - This is proposed as BMP 15.h.B. in the 2015 permit renewal. Changes will be available upon approval and will be reported in annual report following the approval.

BMP 18.i.B- Site Plan Review- Satisfied 95%- MUB is not “Documenting corrections to submitted plans.” In the 2015 permit renewal, MUB is proposing that only the correspondence between MUB and the applicant need to be retained for this purpose. There is no formal write up of corrections to plans. MUB does retain the originally submitted plans as well as the final design, but with the volume of work, it would be a hindrance to MUB to have to write up a summary of every plan reviewed

- MUB has reviewed and approved 142 site plans during this reporting period
- As of March 2015, permit application review sheets are now being used to document the review and the personnel completing the review
- This is proposed as BMP 18.i.A in the 2015 permit renewal and will only be included in MCM 4.

BMP 18.i.C- Construction Site Inspections- Satisfied 100%

- MUB has completed 2,386 construction site inspections this reporting period and documented such with MUB site inspection forms and any photos taken.
 - This is proposed as BMP 18.i.B. in the 2015 permit renewal.

BMP 18.i.D- Stormwater Permit Database and GIS Tools- Satisfied 100%

- MUB has continued to add stormwater permit applications to the stormwater system mapping.
- Stormwater permits, inspection reports, and any follow up letters are filed in the MUB Stormwater Permit Database.
- This is proposed as BMP 17.i.B. in the 2015 permit renewal. Changes will be available upon approval and will be reported in annual report following the approval.

BMP 18.i.E- Public Comments- Satisfied 100%

- MUB has developed a method for tracking and investigating public comments on construction sites within the MS4
- MUB received public comments on 13 different construction sites this reporting period. MUB inspection forms were completed and documented as part of the follow up investigation to the comments.
 - This is proposed as BMP 18.i.B. in the 2015 permit renewal. Changes will be available upon approval and will be reported in annual report following the approval.

BMP 18.i.F- Contractor/Engineer/Architect Training- Satisfied 100%

- MUB has developed a method for providing stormwater training to contractors, engineers, and architects. The training consists of distributing an informational packet consisting of an Erosion and Sediment Control BMP brochure, a copy of the Morgantown City Code Article 929, a blank construction site inspection form, a sample MUB Notice of Violation form, various details on the proper installation of erosion and sediment control BMPs, and a MS4 map showing sub-watersheds in the MS4 and streams with TMDLs established.
- 50 individuals and/or companies have received the MUB Stormwater training packet this reporting period.
 - Verification sheets have been completed by those that received the packet and kept on file in the MUB Stormwater Department.
 - This is proposed as BMP 18.i.C. in the 2015 permit renewal. Changes will be available upon approval and will be reported in annual report following the approval.

MCM 5- Controlling Runoff from New Development and Redevelopment

BMP 19.k.A-Ordinance Development and Update – Satisfied 50%- MUB has completed a review of the Morgantown City Stormwater ordinance but has not yet revised the ordinance. Once the 2015 permit renewal is approved, MUB will carry out the revision of the ordinance.

- The Morgantown Stormwater Ordinance currently addresses the “Watershed Protection Elements” 1, 3, and 4. The proposed SWMP submitted to DEP on 4/10/2015 for approval includes a BMP to address “Watershed Protection Elements” 2, 5, and 6. The Morgantown Stormwater Ordinance is currently under review and will be amended following the finalization of the MUB Stormwater Design Manual in order to reference the completed manual.
 - In the 2015 Permit renewal, this will be BMP 19.k.C.

BMP 19.k.B- Site Design Standards- Satisfied 50%- The MUB Stormwater Design Manual is in draft form. MUB has proposed in the 2015 permit renewal that the design manual will be completed within 18 months of the approval date.

- The MUB Stormwater Design Manual has been drafted and plans to finalize the manual have been made. The manual will include design information needed to complete a stormwater management plan for construction sites within the MS4.

- In the 2015 Permit renewal, this will be BMP 19.k.B.

MCM 6- Pollution Prevention and Good Housekeeping for Municipal Operations

BMP 20.i.A- Maintenance Activities- 100% Satisfied*

- Maintenance activities completed by MUB are tracked daily by employee's time. A breakdown of the cost of projects is included in the fiscal report.
 - In the 2015 Permit renewal, this will be BMP 17.i.B.

BMP 20.i.B- Waste Disposal- 100% Satisfied*

- MUB has renewed the NPDES permit for the waste disposal area that is used for excess material from daily maintenance activities.

*** MUB is proposing revisions to this section of the SWMP in the 2015 permit renewal. Although MUB believes that the intentions of the BMPs are being met, the current BMPs do not have clear measurable goals which make it difficult to prove compliance.**

BMP 20.i.C- Employee Training- 99% Satisfied- BMP states that MUB will "Conduct training for all municipal field employees by fourth quarter of 2012." The 2015 permit renewal proposes more obtainable measurable goals for this BMP.

- Good Housekeeping and Illicit Discharge training was held for municipal employees at the MUB shop conference room on August 14, 2014. 101 municipal employees were trained on selecting proper BMPs, the importance of good housekeeping, and recognizing and reporting illicit discharges.
 - In the 2015 Permit renewal, this will be BMP 20.i.B.

BMP 20.i.D.- Develop Comprehensive Pollution Prevention Plan- 100% Satisfied

- MUB has developed comprehensive Stormwater Pollution Prevention Plans (SWPPPs) for all 6 municipal facilities.
 1. MUB Shop Area
 2. City Facility
 3. BOPARC Facility
 4. Waste Water Treatment Plant
 5. Water Treatment Plant
 6. Morgantown Municipal Airport
- Inspections were completed on all facilities except for the airport. This was due to scheduling with the airports daily activities.
- Municipal facility SWPPPs have been submitted with the 2015 MS4 permit application.
- In the 2015 Permit renewal, this will be BMP 20.i.A.

8th Grade career Day Survey Results

Number of surveys completed: 32

- Age: 94% were 13 or 14 years of age
- 53% are aware that stormwater impacts their drinking water
- 78% know that local drinking water comes from local creeks and rivers
- 50% are aware of what they can do to protect stormwater
- 66% own a pet and 56% pick up after their pet
- No survey participants belong to a group that may be interested in stormwater

Take-away: We need to extent our outreach to local middle schools to improve understanding of the threats to our water and the impact those threats have on stormwater.

2014 Kids Day Survey Results

Number of surveys completed: 101

- **Ages**
 - **7-10 30%**
 - **10-15: 15%**
 - **4-6: 7%**
 - **Older or not provided: 49%**
- **55% are aware that stormwater impacts their drinking water**
- **68% understood what qualifies as household hazardous waste**
- **61% understand what they can do to protect stormwater**

Take-away: The older the participant, the more knowledgeable they became of how stormwater impacts their drinking water. The survey also demonstrated the need for continuing to conduct stormwater outreach.

2014 Household Hazardous Collection Day Survey Results

Number of surveys completed: 276

- 70% of all event participants learned of the event via newspaper (35%), radio (21%) and Facebook (14%)
- 42% of all participants brought paint, 35% brought automotive waste and 28% brought batteries
- Only 13% brought garden chemicals and fertilizers
- 82% of all participants report that they would prefer if the event was held more than once per year
- 94% would like to have a permanent site for disposing of household hazardous waste
- 97% found the location easy to find and convenient
- Half of all respondents reported that this was their first household hazardous waste collection day

Take-away: The location was excellent. The desire for a permanent site should be investigated. We will also focus on advertising on the media that produced the greatest results.

mub.org Stormwater Survey Results

Number of surveys completed: 17

- Ages
 - 56-75: 12%
 - 46-55 24%
 - 18-25: 18%
 - 35-45: 18%
 - 12 or less: 12%
- 65% of all respondents were male
- 65% see the role of protecting our water environment as everyone's role. 35% view it solely as MUB's responsibility
- 41% view fracking as the greatest threat to our water resources
- 53% responded that local stormwater goes directly to our local rivers and streams, 30% believes it goes directly to the sewage treatment plant
- 53% report not knowing who to call if they saw a threat to our local water
- 71% report having witnessed our local water being polluted
- 53% believe our local water is being protected average to well
- 29% believe our water is being poorly to very poorly protected
- 53% know that our local water comes from the river while 24% do know
- 76% report having washed a car in their driveway or on a street
- 59% report having a dog as a household pet

Take-away: We need to ask additional questions related to pet waste. We also need to do more outreach to educate on our stormwater system, how the public can protect our water, how to spot water pollution, and who to contact when they see our water resources being polluted.