

## MS4 ANNUAL REPORT FORM

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

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

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|---|---|---|-----|-----|----|---|----|
|   |   |   |     |     |    |   |    |

BMP = Best Management Practice

IDDE = Illicit Discharge Detection and Elimination

MCM = Minimum Control Measure

SWMP = Storm Water Management Program

TMDL = Total Maximum Daily Load

WV = West Virginia

| I. Sr                                    | I. Small MS4 Operator Information                          |                    |    |                                   |  |  |  |  |  |  |
|--|--|--------------------|----|-----------------------------------|--|--|--|--|--|--|
| 1.                                       | 1. Annual report reporting period: April 2022 - April 2023 |                    |    |                                   |  |  |  |  |  |  |
| 2.                                       | 2. Name of MS4: City of Charleston                         |                    |    | Registration number: WVR030006    |  |  |  |  |  |  |
| 4. Primary contact: Stephen Birurakis    |  |                    | 5. | Title: MS4 General Permit Manager |  |  |  |  |  |  |
| 6. Mailing address: 114 Dickinson Street |  |                    |    |                                   |  |  |  |  |  |  |
| 7.                                       | City: Charleston   | 8. Zip code: 25301 | 9. | County: Kanawha                   |  |  |  |  |  |  |
| 10.                                      | Telephone number: 304-348-8106 E                           | xt 331             |    |                                   |  |  |  |  |  |  |
| 11.                                      | 11. Email: stephen.birurakis@cityofcharleston.org          |                    |    |                                   |  |  |  |  |  |  |
|  |  |                    |    |                                   |  |  |  |  |  |  |
| II. I                                    | II. Impaired Waters Information                            |                    |    |                                   |  |  |  |  |  |  |

| II. Impaired Waters Information   |     |              |    |  |  |  |  |
|---|-----|--------------|----|--|--|--|--|
| 12. Does the MS4 discharge into impaired water bodies?  | Yes | $\checkmark$ | 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 2014 General Permit-p. 46, #12) |     |              |    |  |  |  |  |
| - Dry weather outfall inspections   |     |              |    |  |  |  |  |
| - Drain to River Markers on Inlets  |     |              |    |  |  |  |  |
| - Construction site inspections   |     |              |    |  |  |  |  |
| - Ongoing GIS Mapping   |     |              |    |  |  |  |  |
| <ul> <li>Street Sweepers (street cleaning)</li> <li>Vactor Trucks (inlet trash and debris removal)</li> </ul>   |     |              |    |  |  |  |  |
| - Vactor Trucks (thiet trash and debris removal) - Municipal Training   |     |              |    |  |  |  |  |
| Wallerful Halling   |     |              |    |  |  |  |  |
|   |     |              |    |  |  |  |  |
|   |     |              |    |  |  |  |  |
|   |     |              |    |  |  |  |  |
|   |     | A            |    |  |  |  |  |
| 14. Has a TMDL been developed since your plan was approved?   | Yes | 1            | No |  |  |  |  |

| III. F | III. Fiscal Reporting  |                                      |  |  |  |  |  |  |
|--------|--|--------------------------------------|--|--|--|--|--|--|
| 15.    | 5. 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 2014 General Permit and not those for MCMs implemented by other entities. (WV MS4 2014 General Permit, p. 46, #13) |                                      |  |  |  |  |  |  |
| 16.    | Please provide total capital expenditures for this reporting period.   | \$ 0.00 No Major Purchases This Year |  |  |  |  |  |  |
| 17.    | Please provide total operating expenditures for this reporting period.   | \$\$444,080.81                       |  |  |  |  |  |  |

| 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 2014 General Permit, p. 46, #9)  |
| <ul> <li>Keeping in general contact with other MS4s.</li> <li>Work directly with WVDEP inspectors on tracking and eliminating Illicit discharges.</li> <li>Worked with Capitol Market to display several informational booklets and brochures available for general public to take and consume.</li> <li>Coordination with the Charleston Sanitary Board is ongoing for illicit discharges and the corrective measures</li> </ul> |
| taken to resolve the issues.  - The Stormwater department partnered with Capitol Market to provide watershed and water conservation by hosting 2 rain barrel workshops.   |
| 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.  |
| MCM 1 - 6- Greg Robinson, 304.348.8106, greg.robinson@cityofcharleston.org MCM 1 - 6- Overall Program Management, Stephen Birurakis, 304.348.8106, stephen.birurakis@cityofcharleston.org   |

|      |  |         | <br>   |          |
|------|--|---------|--------|----------|
| V. C | hanges to SWMP   |         |        |          |
| 20.  | Did any of your activities, BMPs, or measurable goals as outlined in your SWMP change during the reporting period?   | Yes     | No [   | <b>√</b> |
| 21.  | Do you anticipate any planned activities, BMPs, or goals as outlined in your SWMP to change in the upcoming reporting period?  | Yes     | No     | <b>√</b> |
| 22.  | If anything has changed, please indicate the MCM and performance measure and provide a brief below, and attach detailed documentation of the changes, schedule of implementation, measure overall effect on your program. (WV MS4 2014 General Permit, p. 24, #6 and #7) |         |        |          |
| 23   | Is additional documentation attached?  | l Yes l | <br>No | ./       |

| MCM 1: Public Education and Outreach (WV MS4 2014 General Permit,)  |  |  |   |  |  |  |  |
|---|--|--|---|--|--|--|--|
| Did you complete all the proposed activities and performance meas   | ures   | for this MC  | M for this  | Ves  | 7  | No [   |  |
| reporting period?   |  |  |   | 1.0.17   | <u></u>  | ······ L   |  |
| Contact: Stephen Birurakis, Greg Robinson   | 26.  | Phone: 30  | 4-348-8106  |  |  |  |  |
|   |  |  |   |  |  |  |  |
|   |  |  |   |  |  |  |  |
| Were the proposed activities for developing a public education and  | outre  | each   | Vas 🚺   | Partially  |  | No [   |  |
|   |  |  |   | ´L   |  | L  |  |
| List and briefly describe each of the public education and outreach I   | orogr  | am develop   | ment activ  | ities und  | dert   | aken   |  |
| during this reporting period. (WV MS4 2014 General Permit, p. 46, ‡   | ‡1)  |  |   |  |  |  |  |
| Municipal Training and High traffic area: River Proud application, Cigarette Butts, Clean Water, Commercial Stormwater Brochure, Construction of Small Building Sites, Homeowners Guide to Clean Water, How to Build & Install a Rain Barrel, How to Paint a Rain Barrel, Pet Waste Brochure. (Ongoing)  Stormwater Marking & Stenciling Program – Marking storm drains with 'No Dumping Drains to River' discs and rectangle. Created a new rectangle storm drain marker that is designed to fit directly on Drain Inlet, and placed in places where the round disc will not work. 648 Drain Inlets were tagged. (Ongoing)  IDDE Reporting – Boxes placed in various locations around the city for anonymous reporting. (Ongoing) Phone number posted on website to report illicit discharges, new hire training covers what is an illicit discharge, and how you report it. (Ongoing)  Public Exhibits:  Toxic Trash Placard in Charleston's Engineering office: (Ongoing)  Construction Site BMPs – On the wall of the Building Permit Department is a large exhibit banner of construction site BMPs for contractors, developers, and residents. Addresses proper installation of silt fencing, drain protection, construction entrances, etc.  The Clean Water Act – The Clean Water Act, How Charleston became an MS4 timeline continued to be an exhibit in the City Service Center. It outlines the history of water legislation from 1920 to present day, including how Charleston became an MS4, what that means, and what has been accomplished in our city. Social Media:  Facebook – (http:\\www.facebook.com\\charlestonstormwater.org) Platform to inform the public of Stormwater programs, our permit information, the Stormwater Guidance Manual, Annual Perports Reportures atc. (Ongoing) |  |  |   |  |  |  | er<br>,<br>ts.   |
| Did you achieve all the goals that you identified in your SWMP relat  | ed to  | developing   | g the   |  |  |  |  |
| education and outreach program for this reporting period? (WV MS  | 4 201  | L4 General I   | Permit, p.  | Yes  |  | No   |  |
| 46, #3)   |  |  |   |  |  |  |  |
| solutions such as revised implementation schedules or revised mea   | surab  | le goals. If   | ·-  |  |  | ssible   | e  |
|   | Contact: Stephen Birurakis, Greg Robinson  Ormance Measure 1a: Program implementation  Were the proposed activities for developing a public education and program implemented?  List and briefly describe each of the public education and outreach public this reporting period. (WV MS4 2014 General Permit, p. 46, forces – 2558 brochures were distributed; in City Service Center by elevators, Capitol Market informal Training and High traffic area: River Proud application, Cigarette Butts, Clean Water, Commense Guide to Clean Water, How to Build & Install a Rain Barrel, How to Paint & Airn Barrel, Horst Power of the designed to fit directly on Drain Inlet, and placed in places where the round disc will not work. 64 Reporting – Boxes placed in various locations around the city for anonymous reporting. (Ongoing the training covers what is an illicit discharge, and how you report it. (Ongoing)  Exhibits: Trash Placard in Charleston's Engineering office: (Ongoing)  Function Site BMPs – On the wall of the Building Permit Department is a large exhibit banner of consess proper installation of silt fencing, drain protection, construction entrances, etc. ean Water Act – The Clean Water Act, How Charleston became an MS4 timeline continued to be egislation from 1920 to present day, including how Charleston became an MS4 timeline continued to be egislation from 1920 to present day, including how Charleston became an MS4, what that mean Media:  Dok – (http:\\www.facebook.com\charlestonstormwaterprogram) Post information regarding program e (www.charlestonstormwater.org) Platform to inform the public of Stormwater programs, our ps., Brochures, etc. (Ongoing)  Did you achieve all the goals that you identified in your SWMP related education and outreach program for this reporting period? (WV MS 46, #3)  If not, please describe the progress you did make towards achieving solutions such as revised i | Did you complete all the proposed activities and performance measures reporting period?  Contact: Stephen Birurakis, Greg Robinson  26.  Ormance Measure 1a: Program implementation  Were the proposed activities for developing a public education and outreprogram implemented?  List and briefly describe each of the public education and outreach program implemented?  List and briefly describe each of the public education and outreach program implemented?  List and briefly describe each of the public education and outreach program implemented?  List and briefly describe each of the public education and outreach program implemented?  List and briefly describe each of the public education and outreach program implemented?  List and briefly describe each of the public education and outreach program implemented?  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List and briefly describe each of the public education and outreach program develop during this reporting period. (WV MS4 2014 General Permit, p. 46, #1)  In res – 2558 brochures were distributed; in City Service Center by elevators, Capitol Market information board, Building loal Training and High traffic area: River Proud application, Cigarette Butts, Clean Water, Commercial Stormwater Brood water Marking & Stenciling Program — Marking storm drains with "No Dumping Drains to River' discs and rectangle. Createsing to fit directly on Drain Inlet, and placed in places where the round disc will not work 48 Drain Inlets were tag Reporting — Boxes placed in various locations around the city for anonymous reporting. (Ongoing) Phone number poste re training covers what is an illicit discharge, and how you report it. (Ongoing)  Luction Site BMPs — On the wall of the Building Permit Department is a large exhibit banner of construction site BMPs for sees proper installation of silt fencing, drain protection, construction entrances, etc.  Lean Water Act — The Clean Water Act, How Charleston became an MS4 timeline continued to be an exhibit in the City egislation from 1920 to present day, including how Charleston became an MS4, what that means, and what has been a Media:  Look — (http:\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | Did you complete all the proposed activities and performance measures for this MCM for this reporting period?  Contact: Stephen Birurakis, Greg Robinson  26. Phone: 304-348-8106  ormance Measure 1a: Program implementation  Were the proposed activities for developing a public education and outreach program implemented?  List and briefly describe each of the public education and outreach program development active during this reporting period. (WV MS4 2014 General Permit, p. 46, #1)  res – 2558 brochures were distributed; in City Service Center by elevators, Capitol Market information board, Building Department, Roal Training and High traffic area: River Proud application, Cigarette Butts, Clean Water, Commercial Stormwater Brochure, Construct worsers Guide to Clean Water, How to Build & Install a Rain Barrel, How to Paint a Rain Barrel, Pet Waste Brochure, Construct worsers Guide to Clean Water, How to Build & Install a Rain Barrel, How to Paint a Rain Barrel, Pet Waste Brochure, Construct water Marking & Stenciling Program – Marking storm drains with 'No Dumping Drains to River' discs and rectangle. Created a new rec designed to fit directly on Drain Inlet, and placed in places where the round disc will not work. 648 Drain Inlets were tagged. (Ongoing Reporting – Boxes placed in various locations around the city for anonymous reporting. 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(Ongoing)  Exhibits:  Trash Placard in Charleston's Engineering office: (Ongoing)  uction Site BMPs – On the wall of the Building Permit Department is a large exhibit banner of construction site BMPs for contractors, developers, itses proper installation of silt fencing, drain protection, construction entrances, e | Did you complete all the proposed activities and performance measures for this MCM for this reporting period?  Contact: Stephen Birurakis, Greg Robinson  Z6. Phone: 304-348-8106  Ormance Measure 1a: Program implementation  Were the proposed activities for developing a public education and outreach program implemented?  List and briefly describe each of the public education and outreach program development activities undert during this reporting period. (WV MS4 2014 General Permit, p. 46, #1)  res = 258 brochures were distributed; in City Service Center by elevators, Capitol Market information board, Building Department, Rain Barrel works all Training and High Taffic area: River Proud application, Cigaretts Butts, Clean Water, Commercial Stormwater Brochure, Construction of Small Build water Marking a Stenciling Program — Marking storm drains with 'No Dumping Drains to River' discs and rectangle. Created a new rectangle storm draid designed to it directly on Drain hilet, and placed in places where the round disc will not work. 648 Drain Inlets were tagged. (Ongoing) Reporting — Boxes placed in various locations around the city for anonymous reporting, (Ongoing) Phone number posted on website to report illicit disclares, and how you report it. 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Phone: 304-348-8106  ormance Measure 1a: Program implementation  Were the proposed activities for developing a public education and outreach program implemented?  List and briefly describe each of the public education and outreach program development activities undertaken during this reporting period. (WV MS4 2014 General Permit, p. 46, #1)  List and briefly describe each of the public education and outreach program development activities undertaken during this reporting period. (WV MS4 2014 General Permit, p. 46, #1)  List and briefly describe each of the public education and outreach program development activities undertaken during this reporting period. (WV MS4 2014 General Permit, p. 46, #1)  List and briefly describe each of the public education and outreach program development activities undertaken during this reporting period. 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| 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    | <b>/</b> | Part | ially |  | No [ |          |  |
| 32.  | <ol> <li>How did you evaluate the effectiveness of the public education and outreach program in this reporting period?<br/>(WV MS4 2014 General Permit, p. 46, #2)</li> </ol>   |        |          |      |       |  |      |          |  |
| 1) 2) 3) 4) lowe 5) 6)   | Brochures - The number of brochures taken from kiosk locations. Record of replacement numbers and dates. Social Media - Website: (www.charlestonstormwater.org) Using posting and commenting, we direct citizens to our website via signage and/or Stormwater marking program. Measure effectiveness by number of IDDE calls we get. Dublic/Municipal comments/IDDE reporting boxes are evaluated by participation, number of comments that are left. This seems to be getting ower, as other forms of communication become more mainstream such as facebook, website, and e-mail. DDE reporting - We document calls on IDDE, we also post the Stormwater Hotline, and keep track of all reports. |        |          |      |       |  |      |          |  |
| 33.  | Regardless of your answer to the previous question, have you identified new or bet evaluate the public's understanding of your program and water quality issues?  | ter wa | ays t    | O Y  | es    |  | No   | <u> </u> |  |
| 34.  | 34. If yes, please describe any changes you would like to consider to improve your evaluation of effectiveness of outreach.   |        |          |      |       |  |      |          |  |
| for t  | we do plan to keep the River Proud Program, we also plan to make som<br>wo reasons. The program has not taken off as well as hoped and due t<br>ger have a dedicated position / person that handles public education an   | o city | bu bu    | dget |       |  |      |          |  |

| Performance Measure 1c: Documentation and tracking of public education and outreach efforts  |                  |             |      |  |  |  |
|--|------------------|-------------|------|--|--|--|
| 35. Did you track and keep records of your outreach activities?  | Yes x            | Partially   | No   |  |  |  |
| 36. For print, radio, and television media activities, did you keep records that incl 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 tin publication? (WV MS4 2014 General Permit, p. 46, #1)  | Ves 🗍            | No          | NA 🗸 |  |  |  |
| 37. Are your records available upon request?   | Yes <b>√</b>     | No          | NA   |  |  |  |
| 38. For pamphlets, brochures, and other finite printed products, did you keep red that include: i) a description of the content or theme; ii) the date of completic the materials; iii) the date of release or distribution; iv) the location or placen of the materials; and v) date of follow up visits to replenish or transition to the next outreach product? (WV MS4 2014 General Permit, p. 46, #1) | on of hent Yes   | No          | NA   |  |  |  |
| 39. Please describe any additional or alternative documentation and tracking of pactivities you are implementing.  | oublic education | and outreac | h    |  |  |  |

| VII. MCM 2: Public Involvement and Participation (WV MS4 2014 General Permit)   |   |
|---|---|
| 40. Did you complete all the proposed activities and performance measures for this MCM for th   |   |
| reporting period?   | Yes No V  |
| 41. Contact: Stephen Birurakis, Greg Robinson 42. Phone: 304-348-8106   |   |
|   |   |
| 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?   | Yes 🚺 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 2014 General Permit, p. 46, #3)   |   |
| 45. If not, please describe the progress you did make towards achieving your goal(s), and any obsolutions such as revised implementation schedules or revised measurable goals. If you are proceedings to your SWMP goals or schedule, please include them in Section V above. (WV MS4 2014 General Permit, p. 46, #4)  |   |
| Goal not achieved: The River Proud Program has not taken off as well as hoped. Due to city budget cuts we also no longer have a dedicated position / person that handles puoutreach. We will have to create a new approach for better program success.  |   |
| 46. List and briefly describe each of the activities undertaken during the reporting period to creat opportunities for the public to participate in your SWMP. (WV MS4 2014 General Permit, p. Social Media - Opportunities for comments & suggestions, which we receive from time to time. Website - Charleston Stormwater Program website was updated. We welcome comments. Facebook - posts: Rain Barrel Workshop schedule and events the Stormwater Dept. participate in. These are normally advertised on social mon 24/7 for the public. Public Events- worked with Dawn Lemie Urban AgSoil Conservationist for USGA. Small presentation at Dixie Street Community Garden discurrence Rain Barrel Workshops – These were a Stormwater management opportunity for the public, at a reduced cost which made it very easy for per to participate. Each participant of the workshop received a rain barrel, diverter kit, and information on the benefits of disconnecting down spouts from the sew water. Also, the importance of managing stormwater so that runoff is reduced, and therefore polluted runoff is reduced. (This was the 9th year) | edia and commenting is turned ussing harvesting rain water. ople of all socio-economic levels wer system and harvesting |
| 47. Describe how you evaluated the effectiveness of your public participation efforts (citizen att hearings, requests for information on your SWMP, hotline activity, etc.).  | endance at public   |
| (WV MS4 2014 General Permit, p. 46, #2)   |   |
| 1) Social Media: The city has used comments received on the website, Facebook comment sections, numerice received and general phone calls to evaluate the effectiveness of the city's efforts.  Website - Ability to count the number of answers to questions or voting opportunities, etc.  Facebook - The number reached, which appears on every post. Some posts receive a higher number of r 2) Rain Barrel Workshops — The number of citizens that register for/ participate in workshops is used to every effectiveness. Also a survey is completed by participants at the end of each workshop. We also have calls for rain barrels and receive referrals to our department for information on rain barrels and their usage. The of barrels, so we are no longer having to go out of state   | eaches than others.<br>valuate the<br>s from citizens looking<br>ere is now a WV dealer                                 |
| 48. Describe the steps taken to ensure that public participation opportunities are ongoing and, i   | • .   |
| additional program maintenance activities in future reporting periods to ensure continued p   | articipation  |
| opportunities. (WV MS4 2014 General Permit, p. 46, #4)  |   |
| 1) Rain Barrel Workshops – Workshops have been very successful, this year completed 9th year of RBWs. As long as there is WVDEP was unable to partner with us this past year, so we worked with the Capitol Market to host the workshops. We predict to continue and hope to also re-partner with the DEP if they become available to do so again.  2) We reestablished and collaborated with other MS4's and had a training / meeting with Huntington, Barboursville, Winfield, Market NVDEP. Another is planned this year to incorporate more MS4's.  3) In General – We keep relationships with civic, public and municipal organizations in good standing so we can be involved in 4) Employee/Citizen comment boxes were installed permanently and are maintained on a regular basis.  | this workshop partnership will arshall University MS4 and   |

Last updated: September 18, 2017

|   | ormance Measure 2b: Communications with community, watershed, and environme  | ntal organ   | izations     |          |  |  |  |  |
|---|--|--------------|--------------|----------|--|--|--|--|
| 49.   | Did you establish a program for routine communications with community based  | Yes 🗸        | Partially    | No 🗍     |  |  |  |  |
|   | watershed groups or other organizations?   | LV.          |              |          |  |  |  |  |
| 50.   | Describe the steps taken to ensure that your programs for routine communications   | with comn    | nunity-based |          |  |  |  |  |
|   | watershed groups or other organizations are ongoing, or any additional program act   | ivities that | you believe  | may      |  |  |  |  |
|   | be required to ensure continued communications. (WV MS4 2014 General Permit, p. 46, #4)  |              |              |          |  |  |  |  |
| 2) Our contact Conse 3) The state I 4) The the pu                                   | 1) Social Media serves as a way to see, communicate, share ideas, and accomplishments or events presented by organizations locally and nationally. 2) Our Rain Barrel Workshops Program is an annual program and brings a lot of attention to rain water harvesting. Organizations around the area contact us or the DEP to learn about the benefits of rain barrels and how to use one. In addition, worked with Dawn Lemle Urban AgSoil Conservationist for USGA. Small presentation at Dixie Street Community Garden discussing harvesting rain water. 3) The MS4 Collaborative operates as a small e-mail forum on which we can share ideas, find answers, ask questions and communicate with other state MS4s. A meeting is planned for middle of year. 4) The Charleston Stormwater Department and the Charleston Sanitary Board (CSB) are sharing GIS data as well as assisting each other in educating the public during projects or resolving discharge issues, etc. 5) We participate in events hosted by local organizations such as, Rain Barrel Workshops (WV DEP). |              |              |          |  |  |  |  |
| 51.   | Did you achieve all the goals that you identified in your SWMP related to creating   |              |              |          |  |  |  |  |
|   | and maintaining ongoing communications with community based watershed  |              |              | 🗂        |  |  |  |  |
|   | groups or other organizations for this reporting period?   | Yes 🗸        | Partially    | No       |  |  |  |  |
|   | (WV MS4 2014 General Permit, p. 46, #3)  |              |              |          |  |  |  |  |
| 52.   | If not, please describe the progress you did make towards achieving your goal(s), and  | d any obst   | acles and po | ssible   |  |  |  |  |
|   | solutions such as revised implementation schedules or revised measurable goals. If y   | ou are pro   | posing any   |          |  |  |  |  |
|   | changes to your SWMP goals or schedule, please include them in Section V above.  | ·            |              |          |  |  |  |  |
|   | (WV MS4 2014 General Permit, p. 46, #4)  |              |              |          |  |  |  |  |
|   |  |              |              |          |  |  |  |  |
|   |  |              |              |          |  |  |  |  |
|   |  |              |              |          |  |  |  |  |
|   |  |              |              |          |  |  |  |  |
|   |  |              |              |          |  |  |  |  |
|   |  |              |              |          |  |  |  |  |
|   |  |              |              |          |  |  |  |  |
|   |  |              | ***          |          |  |  |  |  |
| Perf  | ormance Measure 2c: Public availability of SWMP and annual report  |              |              |          |  |  |  |  |
|   | Did you make your SWMP and annual report available to the public?  |              | Yes 🗸        | No T     |  |  |  |  |
| •   | If yes, please indicate the web address, or if a physical location, please indicate when   | re it is and |              | if any   |  |  |  |  |
| J 1.  | required for the public to access it.  | ic it is and | the process, | ii arry, |  |  |  |  |
| wwv   | v.charlestonstormwater.org   |              |              |          |  |  |  |  |
| Engineering/Stormwater Department,<br>114 Dickinson Street,<br>Charleston, WV 25301 |  |              |              |          |  |  |  |  |

| VIII.  | MCM 3: Illicit Discharge Detection and Elimination (WV MS4 2014 Ge   | neral Permit |                  |           |     |  |  |
|--|--|--------------|------------------|-----------|-----|--|--|
| 55.  | his MCM for this   | Yes 🗸        | No               |           |     |  |  |
| 56.  | reporting period? Contact:Steve Birurakis, Greg Robinson   | 57. Pho      | ne: 304-348-8106 |           |     |  |  |
|  |  |              |                  |           | 112 |  |  |
| Perf   | ormance Measure 3a: MS4 map  |              |                  |           |     |  |  |
| 58.  | Were your proposed activities for creating and annually updating y for the reporting period implemented?                                   | our MS4 n    | nap Yes 🗸        | Partially | No  |  |  |
| 59.  | 59. List and briefly describe the activities undertaken to either develop or update your MS4 map.  (WV MS4 2014 General Permit, p. 46, #1) |              |                  |           |     |  |  |
| GIS<br>Utilii<br>is co<br>Also<br>IDD<br>MS <sup>2</sup><br>MS <sup>2</sup><br>Lab | ,  |              |                  |           |     |  |  |
|  |  |              |                  |           |     |  |  |

| Perf | ormance Measure 3b: Illicit Discharge Detection and Elimination (IDDE) ordinance developmen  | t          |              |          |
|------|--|------------|--------------|----------|
|      | Has your municipality adopted an IDDE ordinance in accordance with the requirements of   |            |              |          |
| 00.  | the WV MS4 2014 General Permit (Part II Section C.7.c.10 &11)?   | Yes        | $\checkmark$ | No       |
| 61   | If not, please describe the activities or progress made in adopting or updating an existing ordin  | ance       | and nr       | ovide    |
| 01.  | an estimated date for adoption. (WV MS4 2014 General Permit, p. 46, #1)  | arrec      | una pi       | Ovide    |
|      | all estimated date for adoption. (WV 19154 2014 General Fermit, p. 40, #1)   |            |              |          |
|      |  |            |              |          |
|      |  |            |              |          |
|      |  |            |              |          |
|      |  |            |              |          |
|      |  |            |              |          |
| -    |  |            |              |          |
| Perf | formance Measures 3c and 3e: IDDE program implementation and assessment, and program tra   | acking     | J            |          |
|      | Is your IDDE program fully implemented, including visual inspections based on a system of  |            | ,            | r        |
| 02.  | prioritizing outfalls and procedures for characterizing discharges?  | Yes        | lacksquare   | No       |
| 63   | If no, please describe obstacles, if any, to implementation, and an estimate of when your prog   | ram w      | ill he f     | ully     |
| 05.  | implemented.   | i ai i i v | in be i      | any      |
|      | implemented.   |            |              |          |
|      |  |            |              |          |
|      |  |            |              |          |
|      |  |            |              |          |
|      |  |            |              |          |
|      |  |            |              |          |
|      | W. II. II. II. II. II. II. II. II. III. I |            |              |          |
| 64.  | Were all your measurable goals met for implementing and evaluating an IDDE program   | Yes        |              | No       |
|      | during this reporting period? (WV MS4 2014 General Permit, p. 46, #3)  |            |              |          |
|      | How many field assessments were conducted during the reporting period?   | 5          |              |          |
|      | How many illicit discharges were identified during the reporting period?   | 5          |              |          |
| 67.  | How would you characterize the type of illicit discharges found (sewer cross connections, spills   | s, illeg   | al dum       | iping,   |
|      | unaware residents, etc.)?  |            |              |          |
|      | The number listed on question 65 does not count any dry weather screenings.  |            |              |          |
|      | City had various types of illicit discharges from spills and illegal dumping.<br>CSB reports illicit discharges solely to the DEP hot-line when they detect a spill or cross connection from their sanitary se   | wer svs    | stem.        |          |
|      |  | -          |              |          |
|      | / River Monitor: April 5, 2023 Kanawha and Elk Rivers the full length if city limits. Also went beyond city limits up the Elk I<br>ican Water (drinking water) intake location and observing as far upstream as possible via the boat. River monitor observa   |            |              |          |
|      | rent abnormal flows, sheens, and or smells, etc. from outfalls or in stream. None of which where found on this monitor se  |            | aroming      | ioi arry |
|      |  |            |              |          |
| 68.  | How would you characterize the type of pollutants discovered in illicit discharges (oil and grea   | se, fe     | cal coli     | form,    |
|      | chlorine, paints, etc.)? Name the top five pollutants discovered or uncovered by your IDDE pro   | gram       |              |          |
| Lea  | ves / yard waste   |            |              |          |
|      | e / Adhesive Material  |            |              |          |
|      | itary Sewer  |            |              |          |
| Odi  | mary covor   |            |              |          |
|      |  |            |              |          |
| 69   | How many corrective actions were taken to remove illicit discharges?   | 5          |              |          |
|      | How many enforcement actions were initiated to eliminate illicit discharges into the storm   |            |              |          |
| , 0. | sewer system?  | 0          |              |          |
| 71   | Have you attached additional documentation to better identify the nature and extent of the   |            |              |          |
| , 1. | program activities and accomplishments?  | Yes        |              | No 🗸     |
|      | program detailed and decompositions.   | 1          |              |          |

| Performance Measure 3d: Public education on hazards of illegal discharges and improper disposal of   | f waste                            |               |
|--|------------------------------------|---------------|
| 72 Did you conduct any activities for educating the public on hazards of illegal   |                                    |               |
| discharges for this reporting period? (WV MS4 2014 General Permit, p. 46, #3)  | Partially                          | No            |
| 73. List and briefly describe each of the education and outreach activities undertaken during this re  | porting per                        | iod.          |
| (WV MS4 2014 General Permit, p. 46, #1)  |                                    |               |
| <ol> <li>Brochures were distributed covering IDDE, oil recycling, composting, etc. (Ongoing)</li> <li>Social Media - Website: updated downloads of brochures, posts of current stormwater events, and (www.charlestonstormwater.org) posted stormwater hot-line, videos, links to stormwater related informations of the stormwater marking program. Labeled 648 Drain Inlets with "No Dumping Drains to River". (Ongoing 4) Construction Site BMP exhibit: Educating contractors, etc. and general public on responsible constructions of the stormwater marking program.</li> <li>Covered IDDE at Municipal Employee Training secessions.</li> <li>IDDE discussions at rain barrel workshops.</li> </ol> | mation (Ong<br>ing)                | going)        |
| 74. Were any of these activities included in the public education and outreach efforts described in  | Yes 🗸                              | No            |
| MCM 1?  75. How did you evaluate the effectiveness of the activities described in the list above?  |                                    |               |
| (WV MS4 2014 General Permit, p. 46, #2)  |                                    |               |
| <ol> <li>Brochures were distributed covering IDDE, oil recycling, composting, etc. 2558 brodistributed at Capitol Market, CSC, Building Department, Rain barrel workshops and opportunities. Number of brochures taken were used to evaluate effectiveness. (Ong 2) Social Media - Website: updated downloads of brochures, post of stormwater relat documents. (www.charlestonstormwater.org) and Facebook: current events.</li> <li>Stormwater marking program: Does dumping continue to be apparent or has it stormarking?</li> </ol>   | other trair<br>going)<br>ed events | ning<br>s and |
| on hazards of illegal discharges for this reporting period?  | Yes 🗸                              | No            |
| (WV MS4 2014 General Permit, p. 46, #3)  |                                    |               |
| 77. If not, please describe the progress you did make towards achieving your goal(s), and any obsta solutions such as revised implementation schedules or revised measurable goals. If you are progress to your SWMP goals or schedule, please include them in Section V above. (WV MS4 2014 General Permit, p. 46, #4)  |                                    | ssible        |
|  |                                    |               |

| Performance Measure 3f: Training for municipal staff on identification, reporting, and elimination of illicit disc  | harges      |
|---|-------------|
| 78. Have you developed a program to train municipal employees on illicit discharges? Yes V Partially  | l No        |
| 79. Did you conduct any municipal employee training during this reporting period?   | No          |
| 80. List and briefly describe the training activities conducted during the reporting period. (WV MS4 2014 General Permit, p. 46, #1)  | <u></u>     |
| <ul> <li>Brochures distributed to city employees and new hires that may come in contact with IDDE situations. 188 Municipal employees and 236 new hires trained on IDDE.</li> <li>Protecting storm drains during municipal activities on good housekeeping while city crews a performing street repairs, beautification projects etc. Identify oil related spills and dumping an where to take oil to recycle.</li> </ul> |             |
| 81. How did you evaluate the effectiveness of the training activities? (WV MS4 2014 General Permit, p. 46, #2   | <u>'</u> )  |
| - Calls, and e-mails received from Vactor Truck drivers were measures of effectiveness.   |             |
| - Public Works and Fire Departments are recognizing and reporting illicit discharges to Storm   | ıwater      |
| department.   |             |
| - Public Works is now an active participant in the Engineering Department Drainage Complai  | nt and      |
| IDDE review and progress meetings.  |             |
|   |             |
|   |             |
| 82. How many municipal employees were trained to identify and report illicit discharges?  |             |
| (WV MS4 2014 General Permit, p. 46, #2)   |             |
|   |             |
| 424 Total   |             |
|   |             |
|   | •           |
|   |             |
|   |             |
|   |             |
|   |             |
| 83. Did you achieve all the goals that you identified in your SWMP related to training municipal  |             |
| employees on IDDE procedures for this reporting period?  (WV MS4 2014 General Permit, p. 46, #3)  | No          |
| 84. If not, please describe the progress you did make towards achieving your goal(s), and any obstacles and p   | <br>ossible |
| solutions such as revised implementation schedules or revised measurable goals. If you are proposing any  |             |
| changes to your SWMP goals or schedule, please include them in Section V above.   |             |
| (WV MS4 2014 General Permit, p. 46 #4)  |             |
|   |             |
|   |             |
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|   |             |
|   |             |

| IV F | ACM 4: Construction Site Runoff Control (WV MS4 2014 General Per                                   | rmit n 10 22)          |               |               |         |
|------|--|------------------------|---------------|---------------|---------|
|      |  | <u> </u>               | w +bio        |               |         |
| 05.  | Did you complete all proposed activities and performance measures                                  | S TOT LITTS IVICIVI TO | or unis       | Yes 🗸         | No      |
| 96   | reporting period?  | 87. Phone: 30          | 4 040 0400    |               |         |
| ٥٥.  | Contact: Steve Birurakis, Greg Robinson  | 87. Phone:30           | 4-348-8106    |               |         |
| Dod  | armones Massures As and Ab. Davalan and insulament an ardinana                                     | . +                    |               | off from      |         |
|      | ormance Measures 4a and 4b: Develop and implement an ordinance struction sites one acre or greater | e to address stor      | mwater rur    | ion irom      |         |
|      |  | di                     |               |               |         |
| 00.  | Has your municipality adopted a construction site runoff control ord                               |                        |               |               | . —     |
|      | accordance with the requirements of the WV MS4 2014 General Per                                    | rmit (Part II          | Yes 🗸         | Partially     | No      |
|      | Section C.7.d.2 and 4)   |                        |               |               |         |
| 89.  | If a program ordinance <u>has not</u> been adopted, have the proposed ad                           |                        | l., 🖂         |               |         |
|      | developing and implementing an ordinance to address stormwater                                     | runon from             | Yes           | Partially     | No      |
|      | construction sites been implemented?   | 454 2044 6             | 10 :          | 45 4 \4\      |         |
| 90.  | Please indicate the anticipated ordinance adoption schedule. (WV N                                 | /IS4 2014 Genera       | il Permit, p. | 46, 4.a)1)    |         |
|      |  |                        |               |               |         |
|      |  |                        |               |               |         |
|      |  |                        |               |               |         |
| 91.  | Has your construction site ordinance been reviewed and/or updated                                  | d to include           | Yes 🗸         | Partially     | No 🗌    |
|      | any new criteria during the reporting period?  |                        |               |               |         |
| 92.  | Is your construction site program being fully implemented to include                               | •                      |               |               |         |
|      | for: i) plan review, ii) routine site inspections, iii) enforcement, and i                         | iv) record             | Yes 🗸         | Partially     | No      |
|      | keeping and reporting?   |                        |               |               |         |
| 93.  | Please indicate the number of plan approvals during the reporting p                                | eriod.                 |               | see notes ir  | า 98    |
| 94.  | Please indicate the number of construction site inspections during t                               | he reporting per       | iod.          | see notes in  | า 98    |
| 95.  | Please indicate the number of enforcement actions during the repo                                  | rting period (can      | attach        | 1             | 1       |
|      | document).   |                        |               | 1             | 1       |
| 96.  | Are enforcement records maintained and available upon request?                                     |                        | Yes 🗸         | Partially     | No      |
| 97.  | Is there adequate funding to fulfill the program implementation req                                | uirements              | V [7]         | ا بالمنصم     | N- [    |
|      | required by the WV MS4 2014 General Permit?  |                        | Yes 🗸 F       | Partially     | No      |
| 98.  | Briefly list and describe any activities outlined in your SWMP comple                              | eted during the        | oast permit   | year relate   | d to    |
|      | construction site operator and/or permittee site inspector training.                               | (WV MS4 2014 (         | General Per   | mit, p. 46, 4 | l.a)1)  |
| 13 ( | Commercial job sites / 33 job site inspections / 10 Correct  |                        |               |               |         |
|      | ew Residential plans approved / 10 Stormwater inspection   |                        | •             | s Require     | 2d      |
|      | struction site contractors are given copies of each site ins                                       |                        |               |               | Ju      |
|      | ussed with them.   | pection and c          | OH COUVE      | actions       |         |
| uioc | ussed with them.   |                        |               |               |         |
|      |  |                        |               |               |         |
| 99   | Did you achieve all the goals that you identified in your SWMP relat                               | ed to developing       | or            |               |         |
| 55.  | implementation and assessment of a construction site runoff control                                |                        | •             | Yes 🗸         | No      |
|      | reporting period? (WV MS4 2014 General Permit, p. 46, #3)  | or program for the     | 13            | 'es <b> V</b> |         |
| 100  | If not, please describe the progress you did make towards achieving                                | vour goal(s) an        | d any obsta   | cles and no   | cciblo  |
| 100  | solutions such as revised implementation schedules or revised measurements                         |                        |               | •             | 1331016 |
|      | changes to your SWMP goals or schedule, please include them in Se                                  | -                      | you are pro   | positig arry  |         |
|      | (WV MS4 2014 General Permit, p. 46, #4)  | ction v above.         |               |               |         |
|      | (VV V 11137 ZOIT General Letting, p. 40, #4)   |                        |               |               |         |
|      |  |                        |               |               |         |
|      |  |                        |               |               |         |
|      |  |                        |               |               |         |
|      |  |                        |               |               |         |

| X. MCM 5: Controlling Runoff from New Development and Redevelopment  | <b>ent</b> (WV MS4 2014              | General Perm | it, p. 22-33) |        |
|--|--------------------------------------|--------------|---------------|--------|
| 101. Did you complete all proposed activities and performance measures reporting period?   | for this MCM fo                      | or this      | Yes           | No 🗸   |
| 102. Contact: Steve Birurakis, Greg Robinson   | 103. Phone: 30                       | 4-348-8106   |               |        |
|  |                                      |              |               |        |
| Performance Measure 5a: Develop, implement, and enforce a program to   | protect water                        | resources b  | y addressir   | ng     |
| stormwater discharges from regulated new and redevelopment projects  |                                      | 1            | T             |        |
| 104. Has your municipality adopted a stormwater management ordinance   |                                      | Yes F        | Partially     | No     |
| accordance with WV MS4 2014 General Permit (Part II Section C.7e.8   |                                      |              |               |        |
| 105. If your ordinance has not been adopted, please describe the progress during this reporting period, and expected date of final adoption. (W  |                                      |              | •             |        |
| After previous in depth review, the Subdivision Ordinance covers residential sites as well.  The Subdivision Ordinance does reference the Stormwater Guidance Manual that make a separate Ordinance to encompass Commercial Sites a little more clearly  | at covers comme                      |              |               | •      |
| 106. Does your (proposed) ordinance include language incorporating the described in the WV MS4 2014 General Permit (Part II Section C.7.e.   | L3)?                                 |              | Yes 🚺         | No     |
| 107. Does your (proposed) ordinance include language incorporating the<br>in lieu alternatives to on-site BMP implementation as described in the<br>Permit (Part II Section C.7.e.16)  | •                                    |              | Yes           | No 🕢   |
| 108. Have you developed a process for reviewing and updating your ordin implementation to address the adequacy of provisions for: i) requiring reduction on new and redevelopment sites, ii) plan review, iii) BMP of maintenance inspections, iv) enforcement, v) inventory and tracking, and reporting?  | ng runoff volume<br>construction and | e<br>J       | Yes 🚺         | No     |
| 109. How many projects were reviewed during the reporting period?  |                                      |              | see notes ir  | 110    |
| 110. What types of projects were reviewed (residential, commercial, indu (WV MS4 2014 General Permit, p. 32, (u)(ii))  | strial, etc.)?                       |              |               |        |
| Projects reviewed:   |                                      |              |               |        |
| 13 - Commercial<br>9 - Residential   |                                      |              |               |        |
| <ul> <li>111. Provide a summary of the number and types of stormwater BMPs apduring the reporting period. Please list the BMPs according to the BMS stormwater Management Manual (2012). (WV MS4 2014 General Performment)</li> <li>Commercial Sites:</li> <li>Bio-retention with under-drains</li> <li>Structural BMP's</li> <li>Underground Storage</li> <li>NA (Non Impervious Surface Addition)</li> </ul> | /IP specification                    | number fro   |               | ojects |

| 112. Provide a summary of the number and type of projects that qualified for each of the development described in the WV MS4 2014 General Permit (Part II Section C.7.e.16.(u)(iii)) during the reportion   |                |              |  |  |  |  |
|---|----------------|--------------|--|--|--|--|
| Please indicate if you have attached additional documentation.  |                |              |  |  |  |  |
| No projects qualified for incentives during this report period.   |                |              |  |  |  |  |
|   |                |              |  |  |  |  |
|   |                |              |  |  |  |  |
|   |                |              |  |  |  |  |
| 113. Provide a summary of the number of projects that qualified for any offsite mitigation or paymen  |                | •            |  |  |  |  |
| described in the WV MS4 2014 General Permit (Part II, Section C.7.e.16(u)(iii)) during the reporti Please indicate if you attach additional documentation.  | ng period      | •            |  |  |  |  |
| ricase maleate ii you attacii additional documentation.   |                |              |  |  |  |  |
| No projects were permitted any offsite mitigation or payment in lieu.   |                |              |  |  |  |  |
|   |                |              |  |  |  |  |
|   |                |              |  |  |  |  |
|   |                |              |  |  |  |  |
| 114 Have many manipulation and a company of the comp |                |              |  |  |  |  |
| 114. How many maintenance agreements were approved during the reporting period? (WV MS4 2014 General Permit, p. 32, (u)(iv))  | (See notes     | section 116) |  |  |  |  |
| 115. Were any maintenance agreements recorded at the county courthouse?   | Yes            | No ✓         |  |  |  |  |
| 116. Provide a summary of the number and type of stormwater BMP inspections conducted by MS4 p  | ersonnel       | or           |  |  |  |  |
| contracted agents (construction as-built, ongoing operation and maintenance audits, complaint   | driven, et     | c.).         |  |  |  |  |
| Include (or attach) a summary of: i) the type and number of BMPs requiring maintenance or repa  | air, ii) the   | number       |  |  |  |  |
| brought into compliance, and iii) the number of enforcement actions taken.  |                |              |  |  |  |  |
| (WV MS4 2014 General Permit, p. 32, (u)(v))   |                |              |  |  |  |  |
| Notes about Maintenance Agreements: The original building permit granted by the Building Department counts as a maintenance agreem the original design plans. The Building Department has the authority to enforce this to be repaired and or maintained for functionality. This pertaining to old subdivisions unless they have a Home Owners Association that would be responsible. If one does not exist the city may a system if no other solution can be found.  | can still be o | difficult    |  |  |  |  |
| 3 additional LID systems have been located in the City of Charleston and mapped in GIS this period.   |                |              |  |  |  |  |
| The GIS data includes geographic positions of LID's, owner and address, type of LID, photos of LID.  16 Inspections were performed on LID's.  |                |              |  |  |  |  |
| 5 Site Corrections Needed   |                |              |  |  |  |  |
| 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 2014 General Permit, p. 46, #3)   | Yes            | No  ✓        |  |  |  |  |
| 118. If not, please describe the progress you did make towards achieving your goal(s), and any obstac   | les and no     | <u> </u><br> |  |  |  |  |
| solutions such as revised implementation schedules or revised measurable goals. If you are prop   | •              |              |  |  |  |  |
| changes to your SWMP goals or schedule, please include them in Section V above.   | 55g uy         |              |  |  |  |  |
| (WV MS4 2014 General Permit, p. 46, #4)   |                |              |  |  |  |  |
| Goal not achieved:  |                |              |  |  |  |  |
| Have not found a mitigation program that will seem to work for our situations. Thus just holding s  | ites to the    | e 1"         |  |  |  |  |
| capture.  |                | - •          |  |  |  |  |
|   |                |              |  |  |  |  |
|   |                |              |  |  |  |  |

| 119. Does a local ordinance or equivale  | ent document incorporate the watershed                                      |   |  |   |  |  |  |
|--|---|---|--|---|--|--|--|
|  | WV MS4 2014 General Permit (Part II Section                                 | Yes V Partially No                          |  |   |  |  |  |
| C.7.e.8))  |   |   |  |   |  |  |  |
| 120. If yes, please describe how the permittee's legal authority addresses the following watershed protection elements: (WV MS4 2014 General Permit, p. 32,(u)(i))   |   |   |  |   |  |  |  |
| 121. Minimize impervious cover.  | Topic addressed in Stormwater Management Guide Section 3.4.3 Reduction in I | Impervious Cover/Impervious Cover Managemen |  |   |  |  |  |
| <ul> <li>122. Preserve, protect, create, and restore ecologically sensitive areas.</li> <li>123. Implement practices that prevent or reduce thermal impacts to streams.</li> <li>124. Seek to avoid or prevent hydromodification of water bodies caused by development.</li> <li>125. Preserve, protect, create, and restore addressed in Stormwater Management Guidance Manual section 3.4.1 Conservation of Natural Features and Resources and WVDEP Stormwater Management and Design Guidance Manual.</li> <li>126. Topic addressed in the Stormwater Management Guidance Manual section 3.4.3 Reduction in Impervious Cover/Impervious Cover Management Guidance Manual section 3.4.3 Reduction 3.4.3 Low Impact Site Design Techniques</li> </ul> |   |   |  |   |  |  |  |
|  |   |   |  | 125. Minimize impacts to existing vegetation (especially trees).  Topic addressed in the Stormwater Management Guidance Manual section 3.4.1 Conservation of Natural Features and Resource. |  |  |  |
|  |   |   |  | 126. Minimize impacts to native undisturbed soils.  | Topic addressed in the Stormwater Management Guidance Manual section 3.4.1 Utiliza | ation of Natural Features for Stormwater Managemer |  |
| 127. If the watershed protection elements have not yet been incorporated into a planning document or ordinance, please describe the actions to be taken to incorporate these elements. ( WV MS4 2014 General Permit, p. 23, # 10)  |   |   |  |   |  |  |  |

| Performance Measure 5c: Street and parking design assessments | Performance | Measure | <b>5c:</b> Street | and parking | design | assessments |
|---|-------------|---------|-------------------|-------------|--------|-------------|
|---|-------------|---------|-------------------|-------------|--------|-------------|

128. Were the proposed activities for assessing the current street design guidelines and parking requirements implemented (WV MS4 2014 General Permit, page 33 (v)?

| Yes 🗸 No | Yes | <b>√</b> | No |
|----------|-----|----------|----|
|----------|-----|----------|----|

129. If this is your third-year report, please attach your report assessing the current street and parking design requirements, and recommendations and proposed schedules for incorporating policies and standards to maximize vegetation and minimize impervious cover where possible. (WV MS4 2014 General Permit, p. 46, #8)

## Reference:

Stormwater Guidance Manual, Chapter 3, "Site Planning and Low Impact Developement".

www.charlestonstormwater.org

|   | -                     |                 |                |          |  |
|---|-----------------------|-----------------|----------------|----------|--|
| XI. MCM 6: Pollution Prevention & Good Housekeeping for Municipal   | Operations (WV MS     | 4 2014 Gene     | ral Permit, p. | 33-38)   |  |
| 130. Did you complete all the required performance measures for this N period?  | ЛСМ for this repor    | ting            | Yes 🗸          | No 🔙     |  |
| 131. Contact: Steve Birurakis, Greg Robinson  | 132. Phone: 304.3     | 48.8106         |                |          |  |
|   |                       |                 |                |          |  |
| Performance Measures 6a and 6b: Develop and implement an operation facilities that includes prevents or reduces the discharge of polluted run   |                       | e program       | for all mun    | nicipal  |  |
| 133. Were the proposed activities for developing a pollution prevention   |                       |                 |                |          |  |
| housekeeping program for municipal operations implemented?  | ana good              | Yes 🗸           | Partially      | No       |  |
| 134. List and briefly describe the activities outlined in your SWMP for the   | e develonment of      | a pollution     | nreventio      | n and    |  |
| good housekeeping program for municipal operations undertaken   |                       |                 | prevention     | ii aiia  |  |
| The City currently receives quarterly tonnage reports from the Charleston Lan   |                       |                 | star truck on  | orations |  |
| <ol> <li>The City has pro-actively cleaned inlets to combat maintenance issues.</li> <li>The City currently uses a professional disposal service for proper disposal of a used gasoline, antifreeze, and other hazardous materials.</li> <li>The City currently uses a database system that uses work orders, tracks materials public works.</li> <li>SWPPPs and SOPs have been completed and placed in city facilities.</li> </ol> | automotive fluids suc | ch as oils, tra | ansmission fl  | luids,   |  |
| 135. Do you have a pollution prevention plan for each of your municipa  | l facilities as requi | red by the      |                |          |  |
| WV MS4 2014 General Permit (Part II Section C.7.f)1)?   | ·                     | •               | Yes 🗸          | No L     |  |
| 136. Do you have an inspection schedule for conducting inspections at y   | our municipal faci    | ilities as      |                |          |  |
| required by the WV MS4 2014 General Permit (Part II Section C.7.f   |                       | intics as       | Yes 🗸          | No       |  |
| 137. Are you tracking and maintaining records of inspection and mainte<br>municipal facility as required by the WV MS4 2014 General Permit  | nance activities fo   |                 | Yes 🗸          | No No    |  |
| 138. If you answered no to any of the previous three questions, please  | <u> </u>              |                 |                | <u> </u> |  |
| implementing the requirements of the WV MS4 2014 General Perr   | nit (page 46, 4.a)1   | ).              | uie ioi        |          |  |
| 139. How many inspections were conducted at each municipal facility d   |                       |                 | 138            |          |  |
| 140. List the top three problems that you have found while conducting   | inspections at mur    | nicipal facil   | ities.         |          |  |
| 1) Litter and trash dumped by constitutes by dumpsters and along property. (continuous clean up) 2) Oil and fluid leaks in parking areas (cleaned up immediately) 3) Organic debris (leaf blowing and yard waste clogging drains)   |                       |                 |                |          |  |
| 141. Were these problems corrected? (WV MS4 2014 General Permit, p  | ), 46, 4.a)1)?        |                 | Yes 🗸          | No T     |  |

| 142. Did you achieve all the goals that you identified in your SWMP related to developing   | а              |                  |              |
|---|----------------|------------------|--------------|
| pollution prevention and good housekeeping program for municipal operations for this  |                |                  | No           |
| reporting period? (WV MS4 2014 General Permit, p. 46, 4.a)3)?   |                |                  |              |
| 143. If not, please describe the progress you did make towards achieving your goal(s), and  | d any obst     | tacles and po    | ssible       |
| 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 2014 General Permit, p. 46, 4.a)4)  |                |                  |              |
| (11.7 11.0 / 202 / 001101.0 / 11.0 / |                |                  |              |
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|   |                |                  |              |
| 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  | Yes 🗸          | Partially        | No           |
| described in the WV MS4 2014 General Permit (Part II, Section C.7.f.8)10)?  |                |                  |              |
| 145. Were the proposed activities for implementing a pollution prevention and good  |                |                  |              |
| housekeeping training program for municipal employees implemented as  | Yes 🚺          | Partially        | No           |
| described in the WV MS4 2014 General Permit (Part II, Section C.7.f.8)9)10)?  |                | _                |              |
| 146. Did municipal employees receive training in accordance with the guidelines   | [7]            |                  |              |
| described in the WV MS4 2014 General Permit (Part II, Section C.7.f)8)?   | Yes 🗸          | Partially        | No           |
| 147. How many employees received training during the reporting period?  |                | <u>'</u>         |              |
| (WV MS4 2014 General Permit, p. 46, 4.a)1)?   |                | 102 (see notes   | section 149) |
| 148. Are you maintaining records of all municipal training activities (including training age   | <br>endas.     |                  |              |
| learning objectives, instructor qualifications, sign in sheets, etc.)?  | ,              | Yes 🗸            | No           |
| 149. Explain how the effectiveness of the training activities was evaluated (number of em   | plovees t      | rained and/o     | r            |
| certified in specific good housekeeping skills, measurable improvements in cost or p  |                |                  |              |
| maintenance activities, or as outlined in your SWMP). (WV MS4 2014 General Permi  |                |                  |              |
| The stormwater department has implemented new hire stormwater training and it is handled during new hire orientati  |                |                  | new hire     |
| who work outside or in maintenance get a general overview of stormwater pollution.  |                |                  | ·            |
| Pertaining to existing employees, we have in the past partnered up with the City safety training meetings and that gav  | ve us better r | esults of number | of           |
| employees trained. The safety meetings where reduced and hence it affected our ability to gather departments together   |                |                  |              |
| this in some way to reach the numbers as we have in the past.   |                |                  |              |
|   |                |                  |              |
|   |                |                  |              |
| 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   | 15             | Yes 🗸            | No           |
| (WV MS4 2014 General Permit, p. 46, 4.a)3)?   |                |                  |              |
| 151. If not, please describe the progress you did make towards achieving your goal(s), an   | •              | •                | ssible       |
| 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 20149 General Permit, p. 46, 4.a)4)   |                |                  |              |
|   |                |                  |              |
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