

APPENDIX C

2020 Survey Questions

National Stormwater and MS4 Needs Assessment Survey 2020

To navigate throughout the survey, please use the survey Previous and Next buttons at the bottom of each page, and not your internet browser navigation.

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MS4 Permittee Program Information

* 1. Your organization:

* 2. Your city and state:

City:

State:

* 3. What best describes your role for this survey?

- Employee of a municipality, agency, or organization with an MS4 permit
- Consultant answering on behalf of MS4 permittee
- Other (please specify)

* 4. What is your organization's MS4 regulatory status?

- Phase I community
- Phase II community
- Phase II non-traditional permittee (e.g., university, prison, special transit district, other non-municipal institution/organization)
- State department of transportation (DOT)

5. Please indicate which of the following describes your organization:

- Flood Control and/or Drainage District
- Stormwater Utility
- Wastewater Utility
- Wastewater and Stormwater Utility
- Water, Wastewater, and Stormwater Utility
- Water, Wastewater, and Stormwater Department (or any combination)
- Public Works Department
- Regional Utility/Authority
- Environmental Services Department
- Planning Department or Agency
- Public Health Department
- Other (please describe)

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6. Please indicate which of the following describes your organization:

- University/College
- Prison/Corrections/Rehabilitation
- Military Base
- School District
- Laboratory/Research Center
- Inland Port/Seaport
- Agricultural District/Association
- Other (please describe)

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* 7. Is your community or organization covered by a statewide or regional general permit?

- Yes
- No, my community or organization is a primary or co-permittee on an individual MS4 permit

* 8. How many co-permittees are there on your community's or organization's MS4 permit?

- My agency is the sole permittee
- Number of co-permittees (including your agency/organization):

* 9. What is the population that your organization serves?

- Less than 10,000
- 10,000 to 49,999
- 50,000 to 99,999
- 100,000 to 499,999
- 500,000 to 999,999
- 1 million to 1,999,999
- 2 million or greater

10. On a scale of 1 to 5, please indicate the extent to which the following factors present a challenge to your stormwater program, 1 being not a challenge and 5 being an extremely significant challenge.

	1	2	3	4	5
Funding or availability of capital	<input type="radio"/>				
Public awareness and support	<input type="radio"/>				
Increasing or expanding regulations	<input type="radio"/>				
Aging infrastructure	<input type="radio"/>				
Aging workforce	<input type="radio"/>				
Technical expertise	<input type="radio"/>				
Political support for program	<input type="radio"/>				
Cross-departmental coordination	<input type="radio"/>				
Permit requirements are unclear	<input type="radio"/>				
Information/training on best practices	<input type="radio"/>				
Other (please rank, and then specify below)	<input type="radio"/>				

Other (please specify)

11. On a scale of 1 to 5, please indicate the importance of the following drivers for your stormwater planning and investment decisions, 1 being not a driver and 5 being an extremely important driver.

	1	2	3	4	5
TMDL compliance	<input type="radio"/>				
Combined sewer overflows	<input type="radio"/>				
Localized street flooding	<input type="radio"/>				
Coastal/riverine/lake flooding	<input type="radio"/>				
Water supply requirements (source water)	<input type="radio"/>				
Sanitary sewer overflows	<input type="radio"/>				
Water quality	<input type="radio"/>				
Habitat restoration	<input type="radio"/>				
Climate change	<input type="radio"/>				
Regional compliance needs	<input type="radio"/>				
Illicit Discharges	<input type="radio"/>				
Aging Infrastructure	<input type="radio"/>				
Land Development	<input type="radio"/>				
Watershed management	<input type="radio"/>				
Other (please rank, and then specify below)	<input type="radio"/>				

Other (please specify)

12. On a scale of 1 to 5, please indicate your level of need for information and/or technical resources for each of the following stormwater topic areas, 1 being no need and 5 being a very high need.

	1	2	3	4	5
Watershed-based stormwater planning. Includes cross-departmental coordination, inter-jurisdictional and long-range planning, integrated planning, and addressing stormwater issues across land uses.	<input type="radio"/>				

1 2 3 4 5

MS4 program planning, administration, and governance. Includes program management, audits and evaluation, performance-based permitting, stormwater utility setup, and building political support.

Asset management. Includes mapping, condition assessment, and prioritization; operations, replacement and maintenance; use of automated technology; and lifecycle cost analysis.

TMDL compliance. Includes tracking/accounting for TMDL compliance and performance and cost-effectiveness of best management practices.

Green infrastructure and other innovative BMPs. Includes innovative policies and incentives; BMP performance, cost, and maintenance requirements; multi-benefit stormwater management; and quantifying BMP effectiveness.

Funding and financing. Includes analysis of funding needs, identification of current funding sources, and innovative financing approaches.

13. Which of the areas identified in the previous question requires the most program resources to operate (labor and capital)?

- Watershed-based stormwater planning
- MS4 program planning, administration, and governance
- Asset Management
- TMDL compliance
- Green infrastructure and other innovative BMPs
- Funding and financing

14. On a scale of 1 to 5, please indicate your level of need for information and/or technical resources related to each of the minimum control measures or other aspects of permit compliance, 1 being no need and 5 being a very high need.

	1	2	3	4	5	N/A
Public education and outreach.	<input type="radio"/>					
Public involvement and participation.	<input type="radio"/>					
Illicit discharge detection and elimination.	<input type="radio"/>					
Construction site stormwater runoff control.	<input type="radio"/>					
Post-construction and new development stormwater runoff control.	<input type="radio"/>					
Good housekeeping and pollution prevention.	<input type="radio"/>					
Industrial and commercial facilities oversight for Phase I municipal permittees.	<input type="radio"/>					
Monitoring and evaluation.	<input type="radio"/>					

15. Do you use watershed-based stormwater planning in your Program?

- Yes
- No
- I don't know

16. On a scale of 1 to 5, indicate your level of need for information and/or technical resources for each of the following, 1 being no need and 5 being a very high need.

	1	2	3	4	5
Planning across municipal departments	<input type="radio"/>				
Regional planning/coordination	<input type="radio"/>				
Incorporating co-benefits of stormwater controls into decision-making	<input type="radio"/>				
Connecting stormwater investments to other community priorities and plans	<input type="radio"/>				
Conducting watershed scale assessments	<input type="radio"/>				
Integrated water supply planning that includes stormwater capture	<input type="radio"/>				
Design of flood management projects to include water quality considerations	<input type="radio"/>				
Water quality trading programs	<input type="radio"/>				
Public private partnership	<input type="radio"/>				
Other (please rank, and then specify below)	<input type="radio"/>				

Other (please specify)

Asset Management is defined as a management approach and body of practices applied to the portfolio of [stormwater] assets at all levels of the organization to minimize the total cost of acquiring,

operating, maintaining and renewing the asset at an acceptable level of business risk to the organization.

17. Do you have a stormwater asset management plan?

- Yes
- No
- I don't know

18. Please provide us with your information needs related to operations & maintenance and stormwater asset management. On a scale of 1 to 5, indicate your level of need for information and/or technical resources for each of the following, 1 being no need and 5 being a very high need.

	1	2	3	4	5
Mapping your storm sewer system	<input type="radio"/>				
Mapping private stormwater control structures	<input type="radio"/>				
Creating an inventory/database of stormwater assets	<input type="radio"/>				
Prioritizing stormwater asset maintenance and replacement	<input type="radio"/>				
Developing a condition assessment of stormwater assets	<input type="radio"/>				
Evaluating life-cycle costs of stormwater control measures	<input type="radio"/>				
Using automated information technology to monitor and control operations and maintenance	<input type="radio"/>				
Cost estimating/cash flow analysis for capital expenditure/system improvement	<input type="radio"/>				
Asset management software and tools	<input type="radio"/>				
Other (please rank, and then specify below)	<input type="radio"/>				

Other (please specify)

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19. Please provide us with your information needs related to green infrastructure and other innovative BMPs. On a scale of 1 to 5, indicate your level of need for information and/or technical resources for each of the following, 1 being no need and 5 being a very high need.

	1	2	3	4	5
BMP performance data	<input type="radio"/>				
BMP maintenance requirements	<input type="radio"/>				
BMP life-cycle costs analysis	<input type="radio"/>				
Analyzing and valuing stormwater management on a multi-benefit basis	<input type="radio"/>				
Policies and incentives to encourage green infrastructure on private property	<input type="radio"/>				
Development standards and incentives that encourage innovative BMPs/green infrastructure	<input type="radio"/>				
Need for certification requirements for workers that install, construct, inspect, and maintain green infrastructure	<input type="radio"/>				
Stormwater volume credit trading programs	<input type="radio"/>				
Opportunities to encourage innovation	<input type="radio"/>				
Other (please rank, and then specify below)	<input type="radio"/>				

Other (please specify)

20. Do you have TMDL requirements you are responsible for under your NPDES Permit?

- Yes
- No
- I don't know

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21. Please provide us with more detail on your TMDL compliance. On a scale of 1 to 5, indicate your level of need for information and/or technical resources for each of the following, 1 being no need and 5 being a very high need.

	1	2	3	4	5
Integrating TMDL requirements into stormwater planning	<input type="radio"/>				
Cost and effectiveness of available treatment (structural) BMPs	<input type="radio"/>				
Cost and effectiveness of source control (non structural) BMPs	<input type="radio"/>				
Tracking and accounting for TMDL compliance	<input type="radio"/>				
Water quality modeling	<input type="radio"/>				
Compliance methods for permit load allocations.	<input type="radio"/>				
Other (please rank, and then specify below)	<input type="radio"/>				

Other (please specify)

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22. What is your most recent annual stormwater program budget including approximate expenditures for programmatic, capital, operations, and maintenance activities? (please enter a dollar amount)

23. Is there additional money being spent in your jurisdiction on the stormwater program from other sources not quantified in the previous answer?

No

Yes, please estimate a dollar amount:

24. Do you have an annual budget gap for your stormwater program. In other words, are you deferring some expenditures due to lack of funding?

Yes

No

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25. To be fully funded to meet stormwater goals our agency needs approximately \$_____ MORE per year (please enter a dollar amount that represents the additional funding needed):

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26. In general, do you think the overall federal stormwater program is sufficient to meet clean water goals in the long term?

Yes

No

Not sure

27. What is the most innovative element you have seen in any stormwater program?

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Results of the needs assessment survey will be available by summer of 2020. Please make sure we have your name and email address so that we can share a summary of the findings with you. Additionally, please include your name and email address if you would like to be entered into the drawing for a \$50 Visa gift card.

28. Your name (optional):

29. Your email (optional):

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We would love to learn more about your stormwater program. Please fill in the following optional questions to tell us about the most innovative and well-developed aspects of your program, or those areas that may need more work.

30. What is the most well-developed part of your stormwater program?

31. What is the least-developed part of your stormwater program?

Thank you for your participation in the Stormwater and MS4 Needs Assessment Survey! If you are also interested in the National Municipal Stormwater and Green Infrastructure Awards, please visit www.wef.org/ms4awards. We appreciate your time and look forward to your nomination.