

NH Small MS4 Permit - Third Year (Year 3) Requirements – NHLMV & SSC Stormwater Coalitions

Year 3 “To Do” Summary

Category	Requirement	Task	Permit Page	Permit Section	Meeting Agenda & Action Item
	Nitrogen & Phosphorus Messaging	Pick From Table – Industrial	27-29	2.3.2 and Appendix H, Part II.1).a.i.1. Appendix F	Month 2021 DES (Tom Swenson) & Subcommittee
	Bacteria Impaired Messaging	Pick From Table – Industrial	27-29	2.3.2 and Appendix H, Part III.1.a.i.1. Appendix F	Month 2021 NHDES (Tom Swenson) & Subcommittee
	All permittees	Pick From Table – Industrial	27-29	2.3.2	Month 2021 NHDES (Tom Swenson) & Subcommittee
	GENERAL	GENERAL	N/A	N/A	Work on metrics and how to measure effectiveness for all MCM #1
	Public Participation	Provide the public with an opportunity for participation annually.	29	2.3.3	May 2021 Reminder NHDES (Deb) will prepare a list of examples of from municipalities and State public notice requirements

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MCM #3	IDDE	<u>New Permittees:</u> Create adequate legal authority to: prohibit illicit discharges; investigate suspected illicit discharges; eliminate illicit discharges, including discharges from properties not owned by or controlled by the MS4 that discharge into the MS4 system; and implement appropriate enforcement procedures and actions.	29	2.3.4.a	Month 2021 Reminder – <i>New Permittees</i> MS4 Blog, Minimum Control Measure #3 Illicit Discharge and Elimination (IDDE), IDDE Ordinance Template
MCM #3	IDDE	Written procedures for dry weather and interconnection screening and sampling.	34 4 of 22 8 of 14	2.3.4.7.b <u>and</u> Appendix F Bacteria Part II.1.a.ii. <u>and</u> Appendix H Bacteria Part III.1.a.2.	April-June 2020 Month 2021 See NH MS4 Blog MCM #3 Minimum Control Measure #3 Illicit Discharge and Elimination (IDDE), Dry Weather Sampling Guidance and Templates and IDDE Training Videos <i>Continue work on Year 3 NHDES & UNH & Dover To refine procedures, prepare videos, etc.</i>
MCM #3	IDDE	All outfalls/interconnections (excluding Problem and excluded Outfalls) shall be inspected for the presence of dry weather flow within three (3) years of permit effective date. The permittee shall screen all High and Low Priority Outfalls in accordance with their initial ranking developed at Part 2.3.4.7.a	36 4 of 22 8 of 14	2.3.4.7.b Appendix F Bacteria Part II.1.a.ii. Appendix H Bacteria Part III.1.a.2.	July & August 2020 <i>Spring 2021 Reminder</i> <i>Municipal Specific</i>

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<i>Continued from previous page</i>	IDDE	Complete initial catchment delineation (GIS utility and topo information acceptable for initial delineation (ranking was end year 1).		Appendix F, Part II.1.a.ii. and Appendix H, Part III.1.a.2. DEB CONFIRM	Month 2021 Reminder Municipal Specific
MCM #3	IDDE	Begin addressing Problem Catchments by July 1, 2020. Dry weather screening is not required. Proceed directly to source investigations.		Appendix F, Part II.1.a.ii. and Appendix H, Part III.1.a.2.	Month 2021 Reminder Municipal Specific
MCM #3	IDDE	Document presence or absence of System Vulnerability Factors for each catchment investigated, see section 2.3.4.8.c.i for list, and report information in Annual Report.	40-41	2.3.4.8.c.i	Month 2021 Prepare Guidance Document
MCM #3	IDDE	Indicators of IDDE Program Progress. Define or describe indicators for tracking program success and evaluate and report on the overall effectiveness of the IDDE Program.	43 & 44	2.3.4.9 and Appendix F, Part II.1.a.ii. and Appendix H, Part III.1.a.2.	Month 2021 General discussion with members – what indicators are entities observing and how to report in Y3 Annual Report.
MCM #3	IDDE	The permittee shall, at a minimum, annually provide training to employees involved in the IDDE program about the program, including how to recognize illicit discharges and SSOs.	44	2.3.4.11 and Appendix F, Part II.1.a.ii.	Month 2021 NHDES preparing a series of training videos

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MCM #3	IDDE/TMDL Bacteria	Designate catchments draining to bacteria or pathogen impaired segments as “Problem Catchments” or “High Priority”.		Appendix F, Part II.1.a.ii. and Appendix H, Part III.1.a.2.	<p>Month 2021 Reminder</p> <p>See NH MS4 Blog Part II Summary of Receiving Waters 303(d) Online Assessment Viewer</p>
MCM #4	Construction Site Control	<p><i>Modified Permit Language (in red):</i> Written procedures for <i>site plan review</i>, site inspections and enforcement of sediment and erosion control measures <i>by the permittee</i></p> <p>The permittee shall track the number of site reviews, inspections and enforcement actions as part of the annual report.</p> <p>Site plan review procedure shall include:</p> <ul style="list-style-type: none"> • Pre-construction review by the permittee of the site design, the planned operations at the construction site, planned BMPs during the construction phase, and the planned BMPs to be used to manage runoff created after development; • Consideration of potential water quality impacts; • Procedures for receipt and consideration of information submitted by the public; and • Evaluation of the incorporation of LID site planning and design strategies, unless such practices are infeasible 	45	2.3.5.3.b	<p>February 2020 April 2020</p> <p>Month 2021</p> <p>*NEED TO COMPARE TO APPROVED MODIFIED PERMIT*</p> <p>See NH MS4 Blog: Stormwater and Land Disturbance Management Regulations Template</p> <p>See Sections 4.05 Stormwater Management Plan General Performance Criteria and Site Inspections and 4.08 Inspection and Maintenance Responsibility During and After Construction</p> <p><u>OR</u></p> <p>Refer to individual municipal regulations and/or ordinances</p>

Continued from previous page		<p>Site inspection and enforcement procedure shall include:</p> <ul style="list-style-type: none"> • Who is responsible for the site inspections as well as who has the authority to implement enforcement procedures <p>*Note: Moved language from section 2.3.5.3.e and proposed to move here under section 2.3.5.3.b</p>			
MCM #4	Construction Site Control	<p>Requirements to control wastes.</p> <p><i>Modified Permit Language (in red):</i></p> <p>*Note: Proposed to eliminate this section and move it to Section 2.3.5.3.c</p>	45	2.3.5.3.d	<p>February 2020 April 2020</p> <p>Month 2021</p> <p>*NEED TO COMPARE TO APPROVED MODIFIED PERMIT*</p> <p>See NH MS4 Blog: NH Resources, MCM #4 Stormwater and Land Disturbance Management Regulations Template</p> <p>See Section 4.07 Stormwater Management During Construction</p> <p><u>OR</u></p> <p>Refer to individual municipal regulations and/or ordinances</p>

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MCM #4	Construction Site Control	<p>Written procedures for site plan review. See permit for all requirements.</p> <p><i>Modified Permit Language (in red):</i> Proposed to eliminate this section and move it to Section 2.3.5.3.b</p>	45 & 46	2.3.5.3.e	<p>February 2020 April 2020</p> <p>Month 2021</p> <p>*NEED TO COMPARE TO APPROVED MODIFIED PERMIT*</p> <p>See NH MS4 Blog: NH Resources, MCM #4 Stormwater and Land Disturbance Management Regulations Template</p> <p>See Sections 4.03 Design Standards for Stormwater Management for New Development,</p> <p>4.05 Stormwater Management Plan General Performance Criteria and Site Inspections and</p> <p><u>OR</u></p> <p>Refer to individual municipal regulations and/or ordinances</p> <p>Municipal procedures</p> <p>Asset Management Program</p>

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MCM #4	Construction Site Control	Perform pre-construction peer reviews	?	?	<p>February 2020 Month 2021</p> <p>*NEED TO COMPARE TO APPROVED MODIFIED PERMIT*</p> <p>Completed – See NH MS4 Blog MCM #4</p>
MCM #4	Construction Site Control	Perform construction inspections	?	?	<p>February 2020 Month 2021</p> <p>*NEED TO COMPARE TO APPROVED MODIFIED PERMIT*</p> <p>Provide example templates</p>

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MCM #5	Post Construction Site Control	<p><i>Modified Permit Language (in red):</i> *Propose to eliminate a-f and replace narrative with the following noted in red.</p> <p>Following permittees (Danville, Dover, Durham, Exeter, Greenland, Hampton, Kingston, Milton, New Castle, Newmarket, Noth Hampton, Portsmouth Raymond, Rye, Rochester, Rollinsford, Sandown, Seabrook, Somersworth, Stratham)</p> <p>...within 3 years...Permittees shall consider the adoption of the SWA Model Standards. At a minimum, the ordinance or other regulatory mechanism must include water quality requirements as least as stringent as the requirements contained in Section 4 Element C.1, C.3.b, C.3.e, C.3.h and Section 4 Element D of the SWA Model Standards.</p> <p>Permittees note listed above shall develop or modify, as appropriate, an ordinance or other regulatory mechanism within 3 years of the effective date consistent with the requirements above except for the Total Nitrogen removal requirement of Section 4 Element C.3.h of the SWA Model Standards.</p>	46-48	2.3.6.a.ii and Appendix H, Part II.1).a.i.2.	<p>February 2020 April 2020</p> <p>Month 2021</p> <p>*NEED TO COMPARE TO APPROVED MODIFIED PERMIT*</p> <p>See NH MS4 Blog: NH Resources, MCM #4 Stormwater and Land Disturbance Management Regulations Template</p> <p>See entire document and Sections 4.03 Design Standards for Stormwater Management for New Development, 4.04 Design Standards for Stormwater Management for Redevelopment, 4.05 Stormwater Management Plan General Performance Criteria and Site Inspections</p> <p><u>OR</u></p> <p>See NH MS4 Blog: NH Resources, MCM #5 Southeast Watershed Alliance (SWA) Standards Draft 2019 Section 4, Elements C, D & E</p> <p><u>OR</u></p> <p>Refer to individual municipal regulations and/or ordinances</p>

<p><i>Continued from previous page</i></p>		<p>Develop or update bylaw or other regulatory mechanism. Must be consistent with Section 4 of the SWA Model (Section 4 Element C and Element D) OR contain provisions that are at least stringent as items a-f</p> <ul style="list-style-type: none"> a) LID used to maximum extent feasible b) Salt storage areas on commercial and industrial new and redevelopment sites shall be covered and maintained c) Selection and design for treatment and infiltration practices shall follow guidance in Volume 2 of the NH Stormwater Manual d) Post construction stormwater runoff from new development shall be controlled. e) Post construction from redevelopment shall be controlled. f) Redevelopment that disturbs greater than 1 acre and is exclusively maintenance and improvement of roadways shall be exempt from 2.3.6.a.ii.e <p>Appendix H. Require that new development and redevelopment stormwater management BMPs be optimized for phosphorus removal.</p>	<p>46-48</p>	<p>2.3.6.a.ii and Appendix H, Part II.1).a.i.2.</p>	
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MCM #5	Post Construction Site Control	The new development/redevelopment program shall have procedures to ensure adequate long-term operation and maintenance of stormwater management practices that remain in place after the completion of a construction project. (see permit for remaining language)	49	2.3.6.b	<p>February 2020 April 2020</p> <p>December 2020 – SSC approved use of pooled funds for this effort.</p> <p>Month 2021</p> <p>*NEED TO COMPARE TO APPROVED MODIFIED PERMIT*</p> <p>Develop procedures, forms and checklists. Work collaboratively with NHDES AoT Program</p>
MCM #5	Post Construction Site Control	Permittee shall report in the annual report on the measures that the permittee has utilized to meet this requirement (for above – see permit language)	49	2.3.6.b	<p>Month 2021</p> <p>December 2020 – SSC approved use of pooled funds for this effort.</p> <p>*NEED TO COMPARE TO APPROVED MODIFIED PERMIT*</p> <p>Develop procedures, forms and checklists. Work collaboratively with NHDES AoT Program</p>

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MCM #6	Operation & Maintenance Buildings and Facilities	Provide employee training	51	2.3.7.1.b	<p>October 2019 November 2019 December 2019 SSC & NHLMV</p> <p>Month 2021</p> <p>Preparation of videos (NHDES) and/or courses through UNH T2</p>
MCM #6	Operation & Maintenance Infrastructure Operations and Maintenance	The permittee shall keep a log of catch basins cleaned or inspected	52	2.3.7.1.d.ii	<p>Month 2021 Reminder</p> <p>Share sample forms from municipalities. Presentation from 1-2 municipalities.</p>
MCM #6	Operation & Maintenance Infrastructure Operations and Maintenance	Proper storage of catch basin cleanings and street sweepings prior to disposal or reuse.	53	2.3.7.1.d.iv	<p>May 2019 June 2019 SSC & NHLMV</p> <p>Month 2021</p> <p>Completed in Year 1 and incorporated into the SWMP template. See NH MS4 Blog MCM #6 Good Housekeeping and Pollution Prevention Template Year 1 & 2</p> <p>Prepare procedures and/or SOPs</p>

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MCM #6	Operation & Maintenance Infrastructure Operations and Maintenance	Establish procedures and implement procedures for winter road maintenance.	53	2.3.7.1.d.v	<p>May 2019 June 2019 SSC & NHLMV</p> <p>July 2020 August 2020</p> <p>December 2020</p> <p>See NH MS4 Blog Winter Maintenance Templates and resources</p> <p>NH Municipal Green SnowPro Legislation 2021</p>
MCM #6	Operation & Maintenance Infrastructure Operations and Maintenance	<p>Establish and implement inspection and maintenance frequencies and procedures for storm drain systems and for all stormwater treatment structures (water quality swales, retention/detention basins, infiltration and other)</p> <p>Storm drain systems and treatment structures (excluding catch basins) inspected annually at a minimum</p>	53	2.3.7.1.d.vi	<p>May 2019 June 2019 SSC & NHLMV February 2020 SSC</p> <p>Month 2021</p> <p>Completed in Year 1 and incorporated into the SWMP template. See NH MS4 Blog MCM #6 Good Housekeeping and Pollution Prevention Template Year 1 & 2</p> <p>Prepare a “how to” video and reference templates on the NH MS4 Blog</p>

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MCM #6	Operation & Maintenance	Employees who may cause, detect, or respond to a spill or leak shall be trained in these procedures and have necessary spill response equipment available. If possible, one of these individuals shall be a member of the Pollution Prevention Team	55	2.3.7.2.b.iv	Month 2021 Develop employee training (NHDES and/or UNH T2)
MCM #6	Operation & Maintenance	The permittee shall regularly train employees who work in areas where materials or activities are exposed to stormwater, or who are responsible for implementing activities identified in the SWPPP (e.g. inspectors, maintenance personnel) including all members of the Pollution Prevention Team.	56	2.3.7.2.b.iv	Month 2021 Develop employee training (NHDES and/or UNH T2)

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Appendix F	Appendix F (Derry, Londonderry, Salem, Windham)	Chloride Reduction Plan may include annual training requirement for municipal staff or contractors engaged in winter maintenance activities.	1 of 22	Appendix F, I.1.a.ii.	July, November & December 2020 Month 2021 See NH MS4 Blog Winter Maintenance Templates and resources NH Municipal Green SnowPro Legislation 2021 Green SnowPro and other training
Appendix F	Appendix F (Derry, Londonderry, Salem, Windham)	Track the amount of salt applied to all municipally-owned and maintained surfaces and reporting of salt use using the UNHT2 online tool beginning in the Year 2 Annual Report	1 of 22	Appendix F, I.1.a.i.	July, November & December 2020 Month 2021 See NH MS4 Blog Winter Maintenance , Refer to “General (Winter Maintenance) Resources for “how to” videos NH Salt Management “Online” System http://www.roadsalt.unh.edu/Salt/ Utilize pollutant loading maps and tools to address 10 or more parking spaces criteria.
Appendix F	Appendix F (Amherst, Bedford, Derry, Hollis, Hudson, Kingston, Manchester, Merrimack, Newton, Raymond Sandown,)	Funding Source Assessment	16 of 22		Month 2021 Inquire with municipalities to see how addressing and need for assistance

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Appendix H	Appendix H (Danville, Derry, Dover, Durham, Exeter, Greenland, Hampstead, Hampton, Kingston, Milton, New Castle, Newmarket, North Hampton, Portsmouth, Raymond, Rochester, Rollinsford, Rye, Sandown, Somersworth, Stratham) Note: communities may be added based on most currently approved 303(d) list	Any structural BMPs listed in Attachment 3 to Appendix F installed in the regulated area by the permittee or its agents shall be tracked and the permittee shall estimate the nitrogen removal by the BMP consistent with Attachment 3 to Appendix F. The permittee shall document the BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated nitrogen removed in mass per year by the BMP in each annual report.	4 of 14		<p>Month 2021</p> <p>December 2020 – NHLMV approved use of pooled funds for this effort to expand effort to NHLMV communities.</p> <p>UNH (Jamie Houle) and NHDES (Sally Soule) finalizing Pollutant Load Maps (aka Hot Spot Maps).</p> <p>Conduct workshops for municipalities</p>
Appendix H	Appendix H (Bedford, Derry , Durham, Exeter, Goffstown, Greenland, Hooksett, Londonderry , Manchester, Nashua, Portsmouth, Rye, Salem , Seabrook and Stratham) Note: communities may be added based on most currently approved 303(d) list	Develop Salt Reduction Plan	11 of 14	Appendix H IV.2	<p>July, November & December 2020</p> <p>Month 2021</p> <p>See NH MS4 Blog Winter Maintenance</p> <p>Templates and resources</p> <p>NH Municipal Green SnowPro Legislation 2021</p> <p>Utilize pollutant loading maps and tools to address 10 or more parking spaces criteria.</p> <p>Green SnowPro and other training</p>

Appendix H	Requirement	Task	Permit Page	Permit Section	Meeting Agenda
Appendix H	Appendix H See communities above	Track the amount of salt applied to all municipally-owned and maintained surfaces and reporting of salt use using the UNHT2 online tool beginning in the Year 2 Annual Report	10 of 14	Appendix H IV.3.i	<p>July, November & December 2020</p> <p>Month 2021 Reminder</p> <p>See NH MS4 Blog Winter Maintenance, Refer to “General (Winter Maintenance) Resources for “how to” videos</p> <p>NH Salt Management “Online” System http://www.roadsalt.unh.edu/Salt/</p>

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