

A. FIRM OVERVIEW

Established in 1899, Weston & Sampson has been providing our clients with cost-effective, innovative solutions to their infrastructure and environmental challenges for well over a century. For 122 years, Weston & Sampson has been providing municipalities, public agencies, and private sector clients with multi-disciplined engineering and environmental services, to clients throughout Connecticut and the Northeast. Weston & Sampson is capable of providing multi-disciplinary services, and we have structured our team for depth of technical competence and the capacity to successfully meet your project requirements.

We have a demonstrated record of committing the resources necessary to meet important MS4 permit deadlines.

Weston & Sampson has also been widely recognized for our excellence in engineering by the American Public Works Association (APWA) and the American Council of Engineering Companies (ACEC), in further testimony of our creativity and performance. All of this has contributed to a consistent company-wide client return rate exceeding 85%.

Regional Office Presence

With our local and regional offices in proximity to CROCG member municipalities, Weston & Sampson is poised to provide timely and responsive stormwater monitoring services. The work will be managed from our Rocky Hill, Connecticut office, which includes a staff of 65+ professionals who hold a variety of registrations and certifications related to projects such as yours. The office has a critical mass of stormwater permitting and sampling, and multidisciplinary professionals.

In addition to the professionals on our team, Weston & Sampson has access to nearly 750 qualified engineering, and environmental/permitting professionals that we can draw upon to support work for your project. Our firm's depth of staff and breadth of expertise ensures the availability of highly qualified personnel to readily meet your project needs.

Our areas of expertise include:

- Environmental Compliance/Permitting
- GIS & Mapping
- Stormwater Management
- Bridges and Structures
- Hydraulics and Drainage
- Transportation Engineering
- Geotechnical
- Construction Engineering & Inspection
- Landscape Architecture
- Planning
- Site/Civil Development
- Wastewater Collection & Treatment
- Infrastructure Design & Construction
- Regulatory & Enforcement Assistance
- Environmental Site Assessment
- Hydrogeological
- Facility Design
- Renewable Energy
- Solid Waste Management
- Water Supply Development & Treatment
- Water Supply Pumping & Distribution
- Watershed Management
- Construction Mitigation
- Land Surveying
- Wetlands Replication & Restoration
- Peer Review



B. AREAS OF EXPERTISE

Weston & Sampson possesses the capabilities, technical expertise, and experience with the MS4 permit and industrial permits to provide CRCOG member municipalities with quality stormwater monitoring services. Our firm has the in-house knowledge and familiarity with the different facets of work, such as those requested under this RFP. In particular, our areas of expertise include the following:

Stormwater Infrastructure

Weston & Sampson is an industry leader in assisting communities impacted by National Pollutant Discharge Elimination System permits for stormwater. We provide a wide range of services, from our technical experts offering simple guidance regarding upcoming permit reissuance or anticipated requirements, to full-service contracts for development and implementation of compliance programs.

In response to your RFP, we provide the following summary of our areas of expertise that would support the needs of member communities to comply with MS4 and Industrial Permit requirements.



Regulatory Guidance

Weston & Sampson has a long history of assisting our clients with development, review, recommendations, and adoption of a full range of local regulatory mechanisms such as bylaws and ordinances, rules and regulations, fees and rates, and design and construction standards. More recently, we have been working with MS4 permit communities to address requirements for regulatory mechanisms governing IDDE, construction site runoff control, and post-construction runoff control for new developments and redevelopment, as well as removing barriers to, and incorporating incentives to encourage low impact development.



Illicit Discharge Detection & Elimination (IDDE) screening and sampling

Having assisted towns in Connecticut and other New England states with enforcement-ordered IDDE programs for over a decade, Weston & Sampson has extensive experience with preparing written IDDE Plans, dry- and wet-weather outfall inspection and sampling, IDDE field investigation methods, and reporting of IDDE activities to regulatory agencies. We are also already providing catchment delineation and prioritization services to MS4 clients.

Stormwater Infrastructure & Retrofits

Weston & Sampson has assisted municipal, agency, and private sector clients with evaluation, planning, design, permitting, and construction of stormwater, wastewater, and water infrastructure for more than a century. Our firm's extensive experience results in proven designs that are not only innovative and effective, but also easily bid, constructed, and maintained. In addition to the design of traditional stormwater infrastructure, such as culverts, pipelines, manholes, and outfalls, our experience includes the evaluation and design of innovative and cost-effective point- and non-point stormwater runoff control and treatment systems, such as retention basins, rain gardens, and particle separators. We also recommend and design sustainable practices/LID and stormwater Best Management Practices (BMPs) for new development and redevelopment.



Stormwater Pollution Prevention Plans (SWPPP)

As part of the requirements of EPA's Multi-Sector General Permit and Construction General Permit, Weston & Sampson has developed SWPPPs for many facilities and assisted with quarterly inspections and semi-annual sampling requirements. In addition, we assisted several communities to audit their municipal facilities for Good Housekeeping and Pollution Prevention.



Catchment Delineation & Ranking

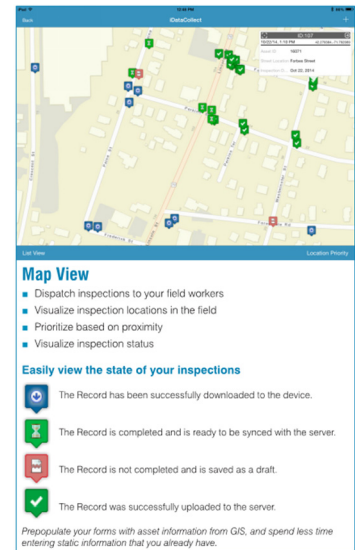
Weston & Sampson is providing catchment delineation and prioritization services to MS4 clients, and as such, we have developed a cost-effective method to provide delineations through use of GIS, coupled with LiDAR data available from state GIS. We initiated evaluating the Directly Connected Impervious Area (DCIA) tracking and LID retrofit programs.



iDataCollect

Weston & Sampson has developed software and hardware solutions to increase efficiencies for field inspections known as iDataCollect. This software

facilitates clients to collect, store, track and report data quickly and accurately. Designed to replace paper-based forms on clipboards with handheld mobile devices, we can assist clients in turning manual field data into a seamless automated process. This software has been used in MS4 related field inspections to digitally record the data and significantly reduce the effort compared to tedious manual field recording. The data can be integrated into a town's/city's existing GIS mapping.



C. SIMILAR PROJECT EXPERIENCE

Weston & Sampson has provided stormwater management services, including MS4 compliance services, for clients in Connecticut and throughout New England. Based on this experience with similar projects utilizing State of Connecticut DEEP guidelines, we have a demonstrated understanding of the scope of services described in your RFP. The monographs at the end of this section provide detailed descriptions of our most similar stormwater permitting projects from the past five years.





D. KEY PERSONNEL




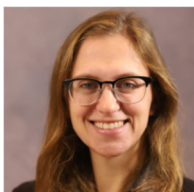
To CRCOG and its member municipalities, Weston & Sampson offers our project team with demonstrated expertise in providing sampling and GIS mapping services as they relate to helping municipalities maintain stormwater permit compliance. These personnel have worked together on a number of similar projects in Connecticut and are further supported by our Rocky Hill office staff of 65+ employees and overall firm's staff of over 650 personnel. We recognize that timing is key and have carefully selected our staff to ensure their availability on your project. With experience related to MS4 and industrial permitting, they are prepared to provide quality services to ensure quick and simple compliance with the stormwater discharge permits.



Our staffing plan has been prepared in consideration of your specific project and the current capacity of our local staff.

Our proposed principal-in-charge, **Christopher Wester, PE**, is experienced in managing teams to respond quickly and effectively to client needs. He will assemble project teams to meet the specific needs of each task, drawing from the key staff identified in the table that follows. Our project manager, **Raju Vasamsetti, PE, CFM**, has specialized experience in providing stormwater permitting and MS4 permit services to municipal clients and as such, he has the specific expertise to manage and successfully complete this project.

On the following pages, we have provided brief overviews of the background and experience of some of our project personnel.

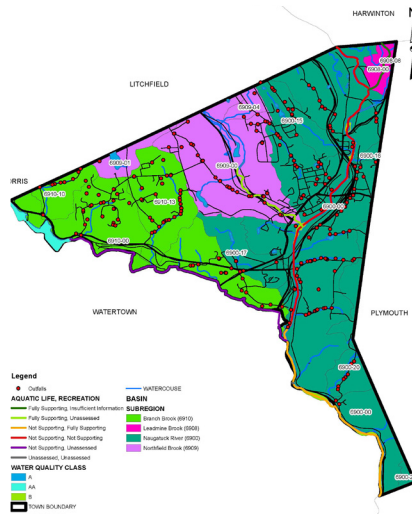
Key Personnel / Role / Years' Experience	Relevant Experience / Expertise
 <p>Christopher Wester, PE (CT)</p> <p>Principal-in-Charge 34 years of experience</p>	<ul style="list-style-type: none"> Principal-in-charge for current stormwater inspection service assignments and MS4 permit in multiple communities including the towns/cities of Branford, New Britain, Orange, Prospect, and Thomaston, Connecticut Principal-in-charge for a variety of municipal infrastructure engineering projects throughout Connecticut
 <p>Raju Vasamsetti, PE (CT), CFM</p> <p>Project Manager 18 years of experience</p>	<ul style="list-style-type: none"> Project manager specializing in stormwater design and permitting Project manager for MS4 permitting services for the communities of Branford, Prospect, Orange and Thomaston, CT involving preparation of annual Report and Illicit Discharge Detection and Elimination (IDDE) report, dry weather prioritization and IDDE inspections, wet weather outfall sampling, stormwater mapping and employee training
 <p>Benjamin Hipsky, EIT</p> <p>Sampling & Field investigations 5 years of experience</p>	<ul style="list-style-type: none"> Provided support to the towns of Wethersfield, Guilford, and Stafford, CT, to help them gain compliance with MS4 permit. Projects involved the MS4 permit registration, SWMP, dry/wet weather screening, and stormwater mapping Provided stormwater engineering services to Philip R. Smith And Eli Terry Elementary Schools in South Windsor, CT, as well as at Francis Walsh Intermediate School in Branford, CT
 <p>Jaurice Schwatz, PE</p> <p>Technical Review 23 years of experience</p>	<ul style="list-style-type: none"> Reviewed the MS4 permit for various Massachusetts communities to outline permit requirements and costs Managed the development of Notices of Intent for multiple Massachusetts communities Managed the stormwater-related tasks to assist the town of Salem, NH in complying with the MS4 General Permit including sampling services.

Key Personnel / Role / Years' Experience	Relevant Experience / Expertise
 <p>Kenneth Cusano, PE (CT) Dry/Wet Weather Sampling 6 years of experience</p>	<ul style="list-style-type: none"> Assisting with stormwater inspection and monitoring for renovations to the Francis Walsh Intermediate School in Branford, CT and Dillon Stadium renovations in Hartford, CT Conducted drainage analysis and the design of the associated improvements along Barnum Avenue, Bruce Avenue, and Oronoque Village in Stratford, CT
 <p>Patrick Bateman, EIT Dry/Wet Weather Sampling 5 years of experience</p>	<ul style="list-style-type: none"> Provided stormwater engineering services to Chamberlain Elementary Schools in New Britain, CT Assisted with MS4 and industrial permitting for Naugatuck and Branford, CT Performed dry/wet weather sampling for Wethersfield, CT
 <p>Brad Walden Dry/Wet Weather Sampling 3 years of experience</p>	<ul style="list-style-type: none"> Assisted with stormwater monitoring for CT Water and New London, CT Assisted with MS4 and industrial permitting for Naugatuck, Orange, Prospect, Stamford, Thomaston, and Branford, CT Performed dry/wet weather sampling for Wethersfield, CT
 <p>Gina Cortese, EIT Stormwater Field Investigations 6 years of experience</p>	<ul style="list-style-type: none"> Experienced with stormwater outfall inspection, sampling, and reporting, including MS4 Permit compliance services Provided MS4 permit compliance services to the communities of Chelsea and Revere, Massachusetts Reviewed existing ordinances and other regulatory mechanisms for multiple communities in support of compliance with requirements of the MS4 Permit

Key Personnel / Role / Years' Experience	Relevant Experience / Expertise
 <p>Daryoush Koopaei</p> <p>Routine Inspections 21 years of experience</p>	<ul style="list-style-type: none"> Performed stormwater construction inspection for South Windsor, CT Conducted routine stormwater inspections and monitoring services for Francis Walsh Intermediate School in Branford, CT Engineer for MS4 permit registrations and stormwater management plans for Wethersfield, Guilford, and Orange, CT
 <p>Andrew Wojciak, EIT</p> <p>Stormwater Field Investigations 3 year of experience</p>	<ul style="list-style-type: none"> Experienced with assisting communities with stormwater permit compliance including the MS4 Permit He has conducted field work including mapping, infrastructure inspections, sampling and investigations Provided review of the existing stormwater regulator mechanisms to identify any updates needed to bring communities in Massachusetts, New York, and New Hampshire into compliance with the MS4 permit

MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4) PERMIT SERVICES

town of thomaston, connecticut



Weston & Sampson prepared MS4 permit registration and SWMP as required by the 2016 Connecticut General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4) Reissuance with Modifications.

- Prepare registration documents to update the town's MS4 permit to comply with CTDEEP regulations effective July 1st, 2018
- Update the town's existing SWMP to comply with the above mentioned regulations
- To outline a timeline of the key tasks (Sampling, IDDE, Mapping, Inventory, DCIA) for the next three years

Weston & Sampson has been assisting the town with various MS4 permit related services since 2016 and these tasks include:

Programs & Procedures

- General Permit Registration
- Stormwater Management Plans
- Site Plan Review/Inspection/Enforcement Procedures
- Stormwater Pollution Prevention Plans (SWPPPs)
- TMDL Compliance
- Annual Reports

Education & Participation

- Brochures, Mailers, Posters, and Videos
- Website Postings
- Public Participation Activities
- Training for Municipal Employees

Contract cost: \$85,000

Status: ongoing

Field Services

- Program Development & Written Plans
- Drainage Mapping, Inventory and Evaluation
- MS4 Outfall Inspection & Sampling
- MSGP/SWPP Inspection & Sampling
- Illicit Discharge Detection & Elimination (IDDE) Investigations
- Source Identification & Removal Design

Stormwater Management Implementation

- Best Management Practices
- Low Impact Development

client contact

Ed Mone
First Selectman
Town of Thomaston
860-283-4263
emone@thomastonct.org

MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4) PERMIT SERVICES

town of prospect, connecticut

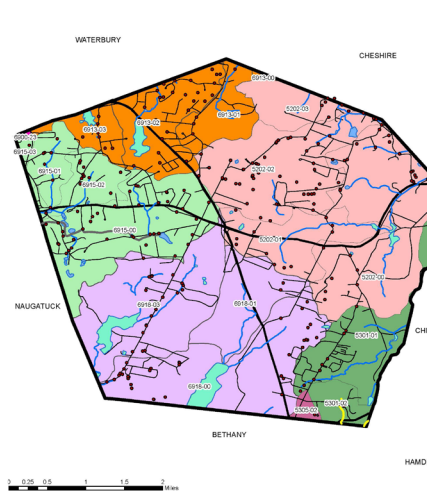


FIGURE 5
WATER QUALITY & OUTFALLS

STORMWATER
MANAGEMENT PLAN
2017



Weston & Sampson

213 Chestnut Street
Prospect, CT 06712
Tel: 203-758-4461

REPORT

April 1, 2017

TOWN OF
Prospect
CONNECTICUT

Stormwater Management Plan



Weston & Sampson prepared MS4 permit registration and SWMP as required by the 2016 Connecticut General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4) Reissuance with Modifications.

- Prepare registration documents to update the town's MS4 permit to comply with CTDEEP regulations effective July 1st, 2018
- Update the town's existing SWMP to comply with the above mentioned regulations
- To outline a timeline of the key tasks (Sampling, IDDE, Mapping, Inventory, DCIA) for the next three years

Weston & Sampson has been assisting the town with various MS4 permit-related services since 2016 and these tasks include:

Programs & Procedures

- General Permit Registration
- Stormwater Management Plans
- Site Plan Review/Inspection/Enforcement Procedures
- Stormwater Pollution Prevention Plans (SWPPPs)
- TMDL Compliance
- Annual Reports

Education & Participation

- Brochures, Mailers, Posters, and Videos
- Website Postings
- Public Participation Activities
- Training for Municipal Employees

Contract cost: \$95,000

Status: ongoing

Field Services

- Program Development & Written Plans
- Drainage Mapping, Inventory and Evaluation
- MS4 Outfall Inspection & Sampling
- MSGP/SWPP Inspection & Sampling
- Illicit Discharge Detection & Elimination (IDDE) Investigations
- Source Identification & Removal Design

Stormwater Management Implementation

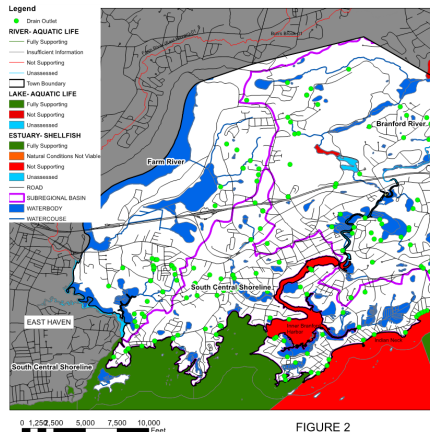
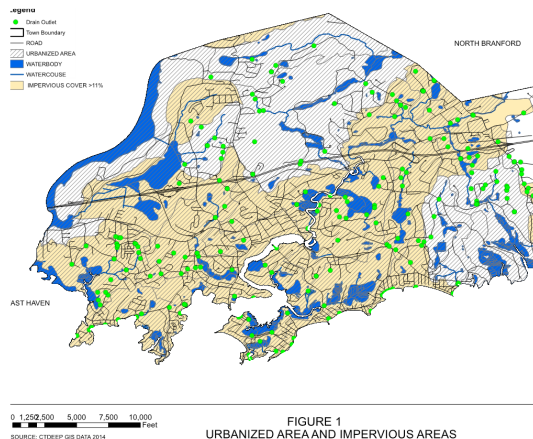
- Best Management Practices
- Low Impact Development

client contact

Robert Chatfield
Mayor | Director of Public Works
36 Center Street
Prospect, Connecticut 06712
203-758-4461

MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4) PERMIT SERVICES

town of branford, connecticut



Weston & Sampson is preparing the permit registration and SWMP as required by the 2016 Connecticut General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4) Reissuance with Modifications. Specifically, this involves completing the following items:

- Prepare documents to update the town's MS4 permit to comply with CTDEEP regulations effective July 1, 2018.
- Outline a timeline of the key tasks (Sampling, IDDE, Mapping, Inventory, DCIA) for the next three years.

Weston & Sampson has been assisting the town with various MS4 permit related services since 2018 and these tasks include:

Programs & Procedures

- Site Plan Review/Inspection/ Enforcement Procedures
- Stormwater Pollution Prevention Plans (SWPPPs)
- TMDL Compliance
- Annual Report

Education & Participation

- Brochures, Mailers, Posters, and Videos
- Website Postings
- Public Participation Activities
- Training for Municipal Employees

Field Services

- Program Development & Written Plans
- Drainage Mapping, Inventory and Evaluation
- MSGP/SWPP Inspection & Sampling
- Illicit Discharge Detection & Elimination (IDDE) Investigations
- Source Identification & Removal Design

Stormwater Management Implementation

- Best Management Practices
- Low Impact Development

Contract Cost: \$80,000

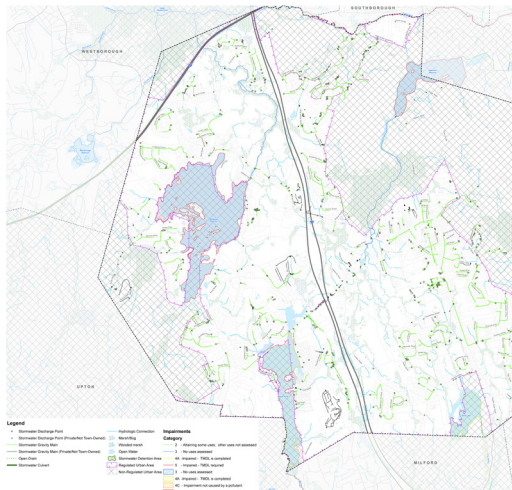
Status: ongoing

client contact

John Hoefferle
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203-488-8394
engineering@branford-ct.gov

MS4 GENERAL PERMIT COMPLIANCE

town of hopkinton, massachusetts



Weston & Sampson is assisting the Town of Hopkinton, Massachusetts in complying with the 2016 General Permit for Stormwater Discharges from its Municipal Separate Storm Sewer System (MS4 Permit). Weston & Sampson prepared the town's Notice of Intent (NOI) to assist the town in obtaining coverage under the MS4 permit, and developed the town's Stormwater Management Plan (SWMP), which provides a more in-depth summary of the town's proposed efforts to comply with the 2016 MS4 permit.

Additionally, Weston & Sampson assisted the Town of Hopkinton in fulfilling Year 1 MS4 compliance initiatives, including:

- Developing a stormwater public education program
- Creating and implementing an Illicit Discharge Detection and Elimination (IDDE) Plan
- Updating the town's drainage GIS to include comprehensive mapping of all drainage infrastructure within regulated areas, including structural BMPs, swales, and interconnections
- Reviewing and updating the town's stormwater regulations to comply with construction and post-construction stormwater runoff requirements
- Presenting a training session for municipal employees on IDDE
- Inspecting municipally owned and maintained BMPs
- Delineating and ranking regulated catchments for follow-up IDDE investigations
- Preparing the town's Year 1 Annual Report
- Developing a catch basin inspection and cleaning form, and associated dashboard to assist with catch basin cleaning optimization planning

Completion Date: September 30, 2019

Total Contract Amount: \$155,900

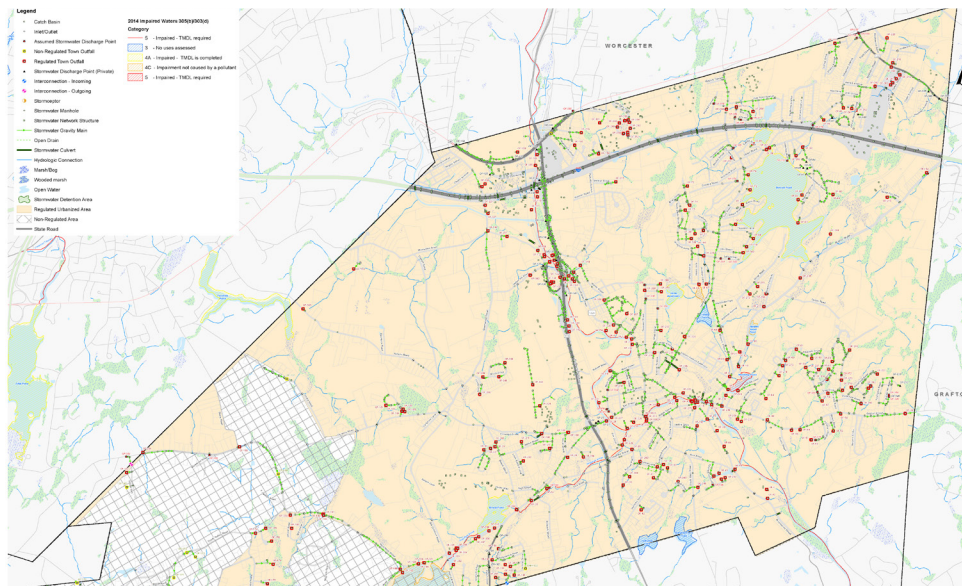
- 2016 MS4 general permit compliance
- IDDE plan creation/implementation
- GIS update
- stormwater regulations update/review
- municipal training & public education
- annual report preparation

client contact

John Westerling, PE
Director of Public Works
Hopkinton, Massachusetts
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JWesterling@hopkintonma.gov

MS4 GENERAL PERMIT COMPLIANCE

town of millbury, massachusetts



Weston & Sampson has been assisting the Town of Millbury, Massachusetts in complying with the 2016 General Permit for Stormwater Discharges from its Municipal Separate Storm Sewer System (MS4 permit). Weston & Sampson prepared a five-year implementation plan for the town to outline the permit requirements and provide estimated costs to comply.

Weston & Sampson also prepared the town's Notice of Intent (NOI) to assist in obtaining coverage under the MS4 permit, and developed the town's Stormwater Management Plan (SWMP), which provides a more in-depth summary of their proposed efforts to comply with the 2016 MS4 permit.

Additionally, the Town of Millbury retained Weston & Sampson to assist in fulfilling Year 1 MS4 compliance initiatives, as well as selected Year 2 requirements, including:

- Developing a stormwater public education program
- Creating and implementing an Illicit Discharge Detection and Elimination (IDDE) Plan
- Updating the town's drainage GIS to include comprehensive mapping of all drainage infrastructure within regulated areas, including structural BMPs, swales, and interconnections
- Reviewing and updating the town's stormwater regulations to comply with construction and post-construction stormwater runoff requirements
- Presenting a training session for municipal employees on IDDE
- Delineating and ranking regulated catchments for follow-up IDDE investigation
- Performing dry weather outfall/interconnection screening and sampling
- Developing Stormwater Pollution Prevention Plans (SWPPPs) for the town's DPW Facility and Recycling/Transfer Station
- Developing Good Housekeeping/Pollution Prevention Procedures for permittee-owned operations
- Preparing the town's Year 1 Annual Report

Status: The contract for this project covered Year 1 and Year 2 services, therefore work is still ongoing.

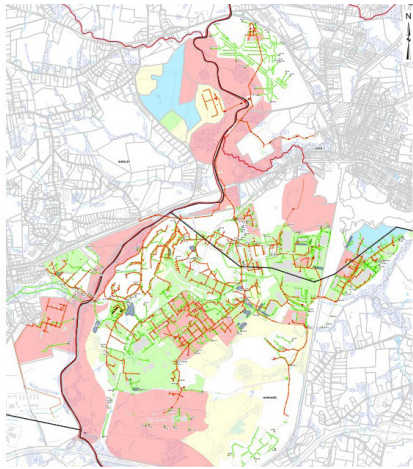
Total Contract Amount: \$261,500

client contact

Keith Caruso
DPW Supervisor
508-865-9143

NPDES MS4 PERMIT COMPLIANCE & CONSULTING SERVICES

massachusetts development finance agency



**DEVENS
MS4 GENERAL PERMIT REVIEW - ENTIRE PERMIT - DRAFT FOR REVIEW**
Breakdown of Permit Requirements & Estimated Costs (Based on 2016 Final Massachusetts MS4 General Permit)

Item No.	Requirement	Deadline	Needs Specific to Devens	Estimated Cost to Comply
SECTION 1 - INTRODUCTION				
1.7.2	Complete Notice of Intent (NOI)	90 days from effective date	Prepare and Submit Notice of Intent.	
1.9.1	Endangered Species Determination (complete review; certify in Notice of Intent)	90 days from effective date	Review location of stormwater discharges relative to endangered species and ensure no adverse impact (Part of NOI) or develop BMPs to reduce impact.	
1.9.2	Historic Properties Determination (complete review; certify in Notice of Intent)	90 days from effective date	Provide location of stormwater discharges relative to historic properties and ensure no adverse impact (Part of NOI) or develop BMPs to reduce impact.	\$15,000 - \$20,000
1.10	Develop written Stormwater Management Plan (SWMP)	1 year from effective date	Develop written plan outlining activities and measures to be implemented to meet the conditions of the permit. The SWMP will be developed in Year 1 and then will need to be updated on an ongoing basis throughout the permit term. Required contents of the SWMP are outlined in Section 1.10.2 of the 2016 Final MA MS4 General Permit.	
1.10.1	Maintain copy of SWMP, make available to public	1 year from effective date	Make the SWMP available on the website for or at the office of the Devens Enterprise Commission.	-
1.10.2	Update written SWMP	3 years from effective date	Update the SWMP to include those items that are required to be included in the SWMP within three years of the permit effective date as identified in Section 1.10.2.	Costs for specific items included under 2.3.5, 2.3.6 a.i, 2.3.7 a.i, and 2.3.7 a.ii.
1.10.2	Update written SWMP	4 years from effective date	Update the SWMP to include those items that are required to be included in the SWMP within four years of the permit effective date as identified in Section 1.10.2.	Costs for specific items included under 2.3.4 a, 2.3.4 b, 2.3.4 c and 2.3.4.7 a.
1.10.2	Update written SWMP	5 years from effective date	Update the SWMP to include those items that are required to be included in the SWMP within five years of the permit effective date as identified in Section 1.10.2.	Costs for specific items included under 2.3.4.5.
1.10.2	Update written SWMP	6 years from effective date	Update the SWMP to include those items that are required to be included in the SWMP within six years of the permit effective date as identified in Section 1.10.2.	Costs for specific items included under 2.3.6.b.
1.10.2	Update written SWMP	As Necessary	Update the SWMP as needed on an annual basis.	Assume updates to the SWMP after Year 1 will be made in conjunction with preparation of the Town's Annual Report.
SECTION 2 - NON-NUMERIC EFFLUENT LIMITATIONS				
2.1 - Water Quality Based Effluent Limitations				
2.1.1.b	For MS4 discharges to a water body with an approved TMDL identified in Part 2.2.1, comply with Part 2.2.1 and see Appendix F of the 2016 Final MA MS4 General Permit.		Devens does not currently have any water bodies with approved TMDLs that are regulated by the permit.	-
2.1.1.c	For MS4 discharges to a water body that is water quality limited and not subject to an approved TMDL, or for municipalities located within Part 2.2.2a-b, comply with Part 2.2.2 and Appendix H of the Permit.	see Appendix H of the 2016 Final MA MS4 General Permit	Per Part 2.2.2.b, Devens has stormwater discharges to water bodies that are impaired due to phosphorus and/or bacteria, and is therefore subject to the requirements of Appendix H. For the purposes of the Nashua River (MA-91-05) which Devens is subject to, the requirements of Appendix H are not applicable.	Costs included under 1.7.2, 1.10, H.II and H.III.

Breakdown of NPDES MS4 Permit Requirements & Estimated Costs

MassDevelopment selected **Weston & Sampson** to provide consulting services in support of compliance with the National Pollutant Discharge Elimination System (NPDES) Phase II Permit for discharges from the Municipal Separate Storm Sewer System (MS4) at the Devens Regional Enterprise Zone (regulated areas within the towns of Ayer, Harvard, and Shirley) (Devens). As the agency tasked with providing municipal services for Devens, MassDevelopment is the owner and operator of the MS4 within these regulated areas. Devens is a new MS4 based on 2010 census data, and was not previously regulated under the 2003 MS4 Permit.

Our team worked with MassDevelopment's Engineering and Public Works Departments to develop an implementation plan. With this plan, MassDevelopment can develop a complete understanding of the permit requirements and costs, allocate resources appropriately, and better assess their ability to accelerate the schedule outlined in the MS4 permit. Weston & Sampson facilitated a roundtable discussion with representatives from MassDevelopment who are responsible for administering, monitoring, and enforcing stormwater management control measures to review the requirements of the MS4 Permit. At this meeting, we also explored the ongoing and future efforts that MassDevelopment will undertake to comply with the permit requirements.

In addition, Weston & Sampson assisted MassDevelopment with the preparation of a Notice of Intent (NOI) for submission to EPA and DEP so that Devens could obtain coverage under the 2016 MS4 Permit. The NOI outlines the Best Management Practices that Devens will implement to meet the conditions of the MS4 Permit.

More recently, Weston & Sampson has been working with MassDevelopment to complete the following services, as required by the MS4 Permit:

- Prepare a Stormwater Management Plan
- Prepare an Illicit Discharge Detection & Elimination (IDDE) Plan
- Develop a Public Education Program
- Delineate and rank catchments for IDDE Investigation
- Provide municipal employee training for IDDE
- Review and update existing regulatory mechanisms
- Develop Good Housekeeping/Pollution Prevention Procedures
- Develop Stormwater Pollution Prevention Plans for waste handling facilities
- Develop the Year 1 Annual Report

The contract for this project included services for multiple years and therefore work is still ongoing.

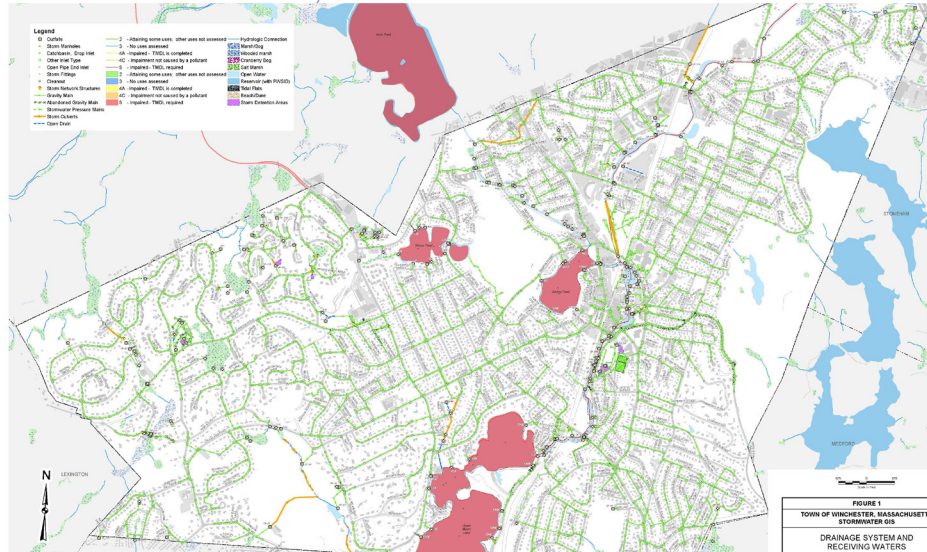
Total Contract Amount: \$136,130

client contact

John Marc-Aurele, PE
Director of Engineering
MassDevelopment
978-784-2926
jmarc-aurele@massdevelopment.com

MS4 GENERAL PERMIT COMPLIANCE

town of winchester, massachusetts



Weston & Sampson has been assisting the Town of Winchester in complying with the 2016 General Permit for Stormwater Discharges from its Municipal Separate Storm Sewer System (MS4 Permit). Weston & Sampson prepared a 5-year implementation plan for the town to outline the permit requirements and provide estimated costs for compliance.

Weston & Sampson also prepared the town's Notice of Intent to assist the town in obtaining coverage under the MS4 Permit and developed the town's Stormwater Management Plan (SWMP), which provides a more in-depth summary of the town's proposed efforts to comply with the 2016 MS4 Permit.

Additionally, Weston & Sampson was retained by the Town of Winchester to assist in fulfilling year 1 and year 2 MS4 compliance initiatives, including:

- Creating an Illicit Discharge Detection and Elimination (IDDE) Plan
- Updating the town's drainage GIS to include comprehensive mapping of all drainage infrastructure within regulated areas, including structural BMPs, swales, and interconnections
- Reviewing and updating the town's stormwater regulations to comply with construction and post-construction stormwater runoff requirements
- Presenting a training session for municipal employees on IDDE
- Delineating and ranking regulated catchments for follow-up IDDE investigations
- Developing a catch basin optimization plan
- Developing winter road maintenance procedures
- Preparing the town's Year 1 Annual Report
- Performing dry weather outfall/interconnection screening and sampling
- Developing Stormwater Pollution Prevention Plans (SWPPPs) for the town's DPW Facility and Recycling/Transfer Station
- Developing Good Housekeeping/Pollution Prevention Procedures for permittee-owned operations
- Performing IDDE investigations

Completion Date: September 30, 2019

Total Contract Amount: \$156,600

- 2016 MS4 general permit compliance
- GIS updates
- stormwater management plan (SWMP) development
- IDDE plan creation
- annual report preparation

client contact

Beth Rudolph, PE
Town Engineer
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NPDES PHASE II SMALL MS4 GENERAL PERMIT COMPLIANCE

town of salem, new hampshire



Weston & Sampson has been assisting the Town of Salem in complying with its General Permit for Stormwater Discharges from its municipal separate storm sewer system (MS4 General Permit). Since 2009, Weston & Sampson has completed the town's annual reports in compliance with the 2003 MS4 General Permit. Weston & Sampson also completed an implementation plan, which included a detailed assessment of what it will cost the town to comply with the requirements of the 2017 New Hampshire MS4 Permit. In addition, Weston & Sampson has been helping the town to implement best management practices (BMPs) to meet the requirements of the 2003 and 2017 MS4 Permits. In particular, Weston & Sampson has provided assistance with:

- Development of a public education program, with emphasis on providing educational information regarding the impact of stormwater discharges on water quality limited water bodies and water bodies with an approved total maximum daily load (TMDL)
- Stormwater bylaw review and revision in addition to the development of bylaws to meet the permit requirements related to illicit discharge detection and elimination (IDDE), construction stormwater runoff control, and post-construction stormwater management in new development and redevelopments, as outlined in the 2003 and 2017 MS4 Permits
- Development of operations and maintenance procedures for municipal activities and facilities, including parks and open space, municipal buildings and facilities, vehicles and equipment, and municipal drainage infrastructure
- Development of a Stormwater Pollution Prevention Plan (SWPPP) for the town's DPW facility
- Municipal employee training regarding IDDE and good housekeeping procedures for municipal operations
- Update of the town's drainage GIS to incorporate drainage information collected from the town, and to include information required to meet the 2017 MS4 permit
- Delineation, classification, and ranking of catchments to assess their illicit discharge potential and to assist in prioritization of future IDDE investigation work
- Development of the Town's Notice of Intent for coverage under the 2017 MS4 Permit
- Development of a Stormwater Management Plan in compliance with the 2017 MS4 Permit
- Development of an IDDE plan, including catchment investigation procedures
- Development of a Chloride Reduction Plan to achieve chloride reduction on municipal roads and facilities, and on private facilities, that drain to the MS4 within the Policy - Porcupine Brook Watershed

Status: completed September 30, 2019

Total Contract cost is \$308,700 for the most recent work completed

client contact

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Town of Salem
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