



First in Connecticut. First for its citizens.

December 24, 2015

Stormwater Permit Coordinator  
Water Permitting and Enforcement  
Department of Energy and Environmental Protection  
79 Elm Street  
Hartford, CT 06103

RE: 2015 Annual Report  
Town of Windsor  
GSM #000066

Dear Permit Coordinator:

Enclosed is a copy of the Town of Windsor's 2015 Annual Report prepared in accordance with the General Permit for the Discharge of Stormwater from Small Municipal Separate Stormwater Sewer Systems (MS4 General Permit).

The fee for the annual report review has been forwarded under separate cover.

Sincerely,

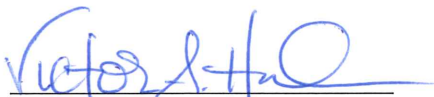
Victoria A. Houle, P.E.  
Project Engineer

c: Peter Souza

## CERTIFICATIONS

Preparer:

*I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute.*

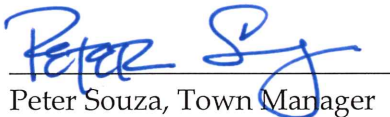


Victoria A. Houle, P.E.

12/24/15  
Date

Principal Executive Officer:

*I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute.*



Peter Souza, Town Manager

12-23-15  
Date

**TOWN OF WINDSOR**  
**STORMWATER MANAGEMENT PLAN**



**2015 Annual Report**

December 24, 2015

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A Stormwater Discharge Monitoring Reports

## **1.0 EXECUTIVE SUMMARY**

In 2004, the Town of Windsor prepared a five-year Phase II Stormwater Management Plan (SWMP) as required by the Connecticut Department of Energy & Environmental Protection's General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4 General Permit). The SWMP has remained in effect since 2004, as the CT DEEP General permit was reissued a number of times.

This document constitutes the Town's Annual Report for 2015 and summarizes the activities conducted to satisfy the permit requirements, modifications to the SWMP, and activities scheduled for the upcoming year, 2016.

## **2.0 PUBLIC EDUCATION AND OUTREACH**

### **2.1 Catch Basin Markers**

To date, more than 750 catch basin markers have been marked with a placard stating "Drains to Waterways and the Long Island Sound, No Dumping!" These markers warn people that discharging harmful contaminants into a catch basin has a negative impact on the local wetlands and waterways as well as the Long Island Sound. Additionally, residents received an educational flyer explaining the purpose of the catch basin markers installed in their neighborhood.

In 2012, the Engineering Department changed the Town Standard for precast concrete catch basin tops to include tops stamped with the words "Drains to Watercourse". The catch basin tops are available locally, and will be used when Public Works replaces catch basin tops throughout Town. New developments have also been requested to use these tops.

### **2.2 Educational Materials Distributed**

Copies of the SWMP and Annual Reports are available for public review at the Windsor Main Library, the Wilson Branch Library, and the Town Clerk's Office. The Town's website also contains a stormwater page which includes links to a copy of the SWMP and Annual Reports. A variety of other media outlets have been used to provide stormwater management information to Windsor residents over the past year. Feature articles and photos were published in local

newspapers regarding Earth Day and Connecticut River community clean-up efforts. These newspapers include the *Hartford Courant*, *Windsor Journal*, and *Reminder News*. Promotional information on these events as well as other stormwater management educational information has also been broadcast on Windsor's Government Access Television Channel, WGTV.

In addition, the Town of Windsor publication, *There's a lot to do in Windsor*, includes many activities throughout the year focused on environmental preservation. Household Hazardous Waste Day, Earth Day, and Connecticut River Clean-up programs were also publicized in the magazine to educate all citizens. This town magazine, published three times per year, is mailed to every household and business in Windsor for a total distribution of 12,500.

Furthermore, this year's annual report and previous annual reports are made available to the public on the Town's website.

### 2.3 Citizen Groups

Various local citizen groups and organizations have assisted the Town in developing partnerships with the public and increasing stormwater awareness. These groups include VOYA Community Service Volunteers, Griffin Land, Four Seasons Landscaping, United Healthcare, Windsor Independent Living Association, the Rotary Club of Windsor/Windsor Locks, Windsor High School Honors Society, and Sage Park 6<sup>th</sup> grade. These groups continue to provide and/or have the capacity to provide public education resources on stormwater quality issues and continue to exist as support for future stormwater education programs in Windsor.

### 2.4 School and Other Educational Programs

In past years, a number of educational activities have been conducted with Windsor students. A recycling and watershed lesson has historically been given to sixth grade students at Sage Park Middle School by the Town Environmental Planner. Lessons and other projects continue each year. Town staff has also assisted the Loomis Chaffee School's Environmental Science students with their annual recycling unit of study by visiting classes and offering consultation.

Furthermore, Northwest Park continues to offer environmental education for students, families, and adults. These programs focus on engaging the participants in hands on experiences to promote environmental stewardship. Students are taught through the school system and also nature camp during the summer. Solar and geothermal energy, soil study, exploring ponds and vernal pools, geology of Connecticut, habitats, and the utilization of the STARLAB planetarium are some of the many classes offered. There are opportunities for adults to experience the same hands on environmental education through public workshops; Owl Prowl, Feeding Winter Birds, Citizen Science, and Build a Bluebird Box are few workshops that are taking place this year. Special events are offered each season at the Park that focus on environmental education experiences for individuals and families.

## 2.5 Activities Scheduled for Next Year

Activities planned for next year include:

- Continue the installation of new catch basin tops stamped with “Drains to Watercourse”.
- Continue expanding educational resources.
- Continue soliciting assistance from various citizen groups to help with education and outreach.
- Continue participating in school programs.

## 3.0 **PUBLIC PARTICIPATION**

### 3.1 Earth Day

A community Earth Day event was held the week of April 22, 2015. Week long events and programs were held at Northwest Park. A special community event was also held at the town hall. People turned out to learn about gardening, energy efficiency, local farm shares, honey production, recycling and much more. Participants included organizations such as the Farmington River Watershed Association, Newgate Farms, Sessions Woods, Eversource, Horizon’s Birds of Prey and Living Dragons.

3.2 Community Clean-Ups

In conjunction with the Farmington River Watershed Association an annual river cleanup was held in September 2015. Local volunteers along with the American School for the Deaf and Viridian cleaned up the Windsor Riverwalk and the boat launch at Rainbow Reservoir.

3.3 School Programs

Students in Windsor public schools are encouraged to volunteer in environmental activities over the summer vacation, in addition to after-school activities. Some of these ongoing programs include:

- Recycling programs
- Earth Day celebration
- Community clean-up events
- Science fairs

3.4 Stormwater Management Committee

In 2004 the Town established a Stormwater Management Committee to develop and implement the SWMP. Since that time, new members have joined the Committee. The Committee consists of members from a number of departments including Engineering, Planning (including the Environmental Planner), Public Works, Health Department, and Public Relations.

Members and subcommittees of the Stormwater Management Committee meet throughout the year to discuss existing programs and identify improvements or suggest new activities for the upcoming year.

3.5 Public Information

A variety of stormwater pollution prevention information can be found within the Engineering Department's section of the town website. Information includes a copy of the town-wide Stormwater Pollution Prevention Plan; copies of Annual Stormwater Reports; information regarding the town's Erosion & Sediment Control Ordinance and Stormwater Management Ordinance; a copy of the Town of Windsor Stormwater Manual; and guidance documents related to stormwater pollution prevention.



3.6 Activities Planned for Next Year

Activities planned for next year include:

- Conduct community clean-up events in spring and fall.
- Recruit student volunteers and/or interested citizens to assist in the illicit discharge detection and elimination efforts within the Phase II regulated areas.

**4.0 ILLICIT DISCHARGE DETECTION AND ELIMINATION**

4.1 Outfall Mapping

In 2005, the Town completed the mapping of all stormwater outfalls of 12” or greater throughout town. The outfall maps include information on over 550 outfalls. The outfall maps include:

- Type, material, and size of the conveyance, outfall or channelized flow; and
- The name of the watershed in which the discharge is located.

In 2015 these maps were updated to include additional structures installed and/or upgraded since the original mapping. Additionally, the name and Surface Water Quality Classification of surface waterbodies and wetlands were also added to the maps.

The maps are available for review at Town Hall in the Engineering Department.

4.2 Illicit Discharge Detection Ordinance

An Illicit Discharges and Connections Ordinance was adopted by Town Council on April 6, 2009 and became effective on April 20, 2009. The objectives of the ordinance are:

- To regulate the contribution of pollutants to the MS4 by stormwater discharges by any user.
- To prohibit illicit connection and discharges to the MS4.
- To establish legal authority to carry out all inspection, surveillance and monitoring procedures necessary to ensure compliance with the ordinance.

The Town is also in the process of developing and implementing a formal plan to detect and address future non-stormwater discharges, including illegal dumping, to the MS4. In conjunction with the existing mosquito-control program conducted throughout Town, town investigate instances of visible discharges during dry weather.

#### 4.3 Activities Planned for Next Year

Activities planned for next year include:

- Update outfall mapping to include new outfall locations.
- Develop and implement a formal plan to detect and address future non-stormwater discharges, including illegal dumping, to the MS4.
- Train employees to help them identify illicit discharges and properly report and address such discharges.

### 5.0 **CONSTRUCTION SITE RUNOFF CONTROL**

#### 5.1 Erosion and Sediment Control Ordinance

An ordinance on Erosion and Sediment Control was adopted by Town Council and became effective on February 2, 2009. The objectives of this ordinance are to safeguard persons, protect property, and prevent damage to the environment in the Town of Windsor by guiding, regulating, and controlling the design, construction, use, and maintenance of any development or other activity that involves land disturbing activities of greater than 0.5-acre. The ordinance formalizes the previous Town staff review of erosion and sediment control measures by requiring an Erosion & Sediment Control Permit to be required for all sites disturbing greater than 0.5-acre. Approval of this permit must be received prior to the commencement of any land disturbing activity.

In addition to the Erosion & Sediment Control Ordinance, a Stormwater Manual was developed and became effective on February 4, 2009 to provide guidance on the requirements of an Erosion & Sediment Control Permit application as well as preferred appropriate erosion and sediment control measures and the design parameters for each type of erosion and sediment control measures.

In 2015, there were eleven (11) Erosion & Sediment Control Permits received and reviewed by Engineering.

## 5.2 Development Reviews

Approximately thirty three (33) applications for new development or redevelopment projects town-wide were reviewed and approved in 2015. Twenty nine (29) of these applications were site plan revisions and reviewed by Town staff, the remaining four (4) were reviewed by the Planning & Zoning Commission. Town staff reviews all proposed developments with respect to stormwater quantity and quality impacts. Erosion and sediment control plans are required to be submitted for all development applications greater than 0.5-acre. The Town's Zoning Regulations require the approval of an Erosion & Sediment Control Permit prior to the approval of the pending application. This practice will continue in following years.

## 5.3 Activities Planned for Next Year

Activities planned for next year include:

- Continue the review of development and redevelopment applications with respect to stormwater impacts and erosion and sediment control measures.

## **6.0 POST-CONSTRUCTION STORMWATER MANAGEMENT**

### 6.1 Stormwater Management Ordinance

An ordinance on Stormwater Management was adopted by Town Council and became effective on February 2, 2009. The objectives of this ordinance are to:

- Establish decision-making processes surrounding land development activities that protect the integrity of the watershed and preserve the health of water resources;
- Require that new development and redevelopment maintain the pre-development hydrologic response in their post-development state as nearly as practicable in order to reduce flooding, streambank erosion, non-point source pollution and increases in stream temperature, and to maintain the integrity of stream channels and aquatic habitats;

- Establish minimum post-development stormwater management standards and design criteria for the regulation and control of stormwater runoff quantity and quality;
- Establish design and application criteria for the construction and use of structural stormwater control facilities that can be used to meet the minimum post-development stormwater management standards;
- Encourage the use of non-structural stormwater management and stormwater best site design practices, such as the preservation of greenspace and other conservation areas, to the maximum extent practicable, coordinate site design plans, which include greenspace, with the Town's Open Space and Agricultural Preservation Plans;
- Establish provisions for the long-term responsibility for and maintenance of structural stormwater control facilities and non-structural stormwater management practices to ensure that they continue to function as designed, are maintained, and pose no threat to public safety; and
- Establish administrative procedures for the submission, review, approval and disapproval of stormwater management plans, for the inspection of approved active projects, and for long-term follow-up.

The ordinance formalizes the previous Town staff review of stormwater management by requiring a Stormwater Management Permit for all sites creating greater than 5,000 SF of impervious area or that involves other land development activities of 1.0 acre or more. Approval of this permit must be received prior to the commencement of any land disturbing activity. The main requirements of a Stormwater Management Permit are:

1. To demonstrate compliance with the established post-development performance criteria.
2. To execute an Inspection & Maintenance Agreement which identifies the person(s) responsible for inspection and maintenance as well as a schedule for routine inspection and maintenance to ensure proper function of all stormwater management facilities and/or practices. The Inspection and Maintenance Agreement must be recorded in the Land Records maintained by the Windsor Town Clerk.

Additionally, applicants required to obtain a Stormwater Management Permit are also required to conduct inspections of the post-development stormwater management systems throughout construction and to submit “as-built” plans of the system after final inspection by the Town Engineer.

The Town Stormwater Manual provides guidance on the requirements of a Stormwater Management Permit as well as the post-development stormwater management performance criteria applicable to all stormwater management plans.

In 2015, eight (8) Stormwater Management Permit Applications were reviewed. To date, there have been twenty-six (26) post-construction Inspection & Maintenance Agreements in accordance with the Town’s Stormwater Management Ordinance recorded on land records.

#### 6.2 Development Reviews

Approximately thirty three (33) applications for new development or redevelopment projects town-wide were reviewed and approved in 2015. Twenty nine (29) of these applications were site plan revisions and reviewed by Town staff, the remaining four (4) were reviewed by the Planning & Zoning Commission. Town staff reviews all proposed developments with respect to proposed stormwater management. The Town’s Zoning Regulations require the approval of a Stormwater Management Permit prior to the approval of the pending application. This practice will continue in following years.

#### 6.3 Best Management Practices

The Town of Windsor currently utilizes guidance from the 2004 Connecticut Stormwater Quality Manual for evaluating and selecting both structural and non-structural stormwater management measures. The Town’s Stormwater Manual includes the specifications and standards for post-construction stormwater management. Additionally, town staff continue to evaluate the use of new Low Impact Development Practices and their suitability at various locations in town.

6.4 Activities Planned for Next Year

Activities planned for next year include:

- Continue the review of development and redevelopment applications with respect to proposed post-construction stormwater management design.
- Continue to evaluate the suitability of Low Impact Development Practices for implementation at various sites in town.

**7.0 POLLUTION PREVENTION/GOOD HOUSEKEEPING**

7.1 Employee Training

Approximately 25 Department of Public Works (DPW) staff (representing administrative and highway staff) received environmental-related training this year. The training included Chemical Hazard and Emergency Response and Right-to-Know training.

Select members of town staff also attended additional environmental seminars held by the CT DEEP, CT Floodplain Manager’s Association, and various watershed associations.

7.2 Street Sweeping

All Town-owned roadways and parking areas were swept at least once during this year. Visual inspections and historical knowledge of roadways are used to identify streets within Town that require sweeping more than once per year. In addition, the use of sand during snow and ice removal activities in the winter was significantly reduced. This resulted in reduced quantities of sand being swept up during spring street sweeping and will have an ongoing impact on the amount of material requiring removal during catch basin cleaning.

7.3 Catch Basin Cleaning

The Town’s current catch basin cleaning schedule is designed so that each catch basin is cleaned at least once during a three-year period. Additionally, the Health Department treats town-owned catch basins for mosquito’s two to three times per year. If it is found that a catch basin is found to

be in need of cleaning, this information is forwarded to the Public Works Department. Typically, approximately 1,500 catch basins are cleaned per year.

#### 7.4 Preventative Maintenance

Routine preventative maintenance on the Town's fleet of equipment and vehicles is performed at the town's maintenance garage.

#### 7.5 Activities Planned for Next Year

Activities planned for next year include:

- Continue providing environmental-related and stormwater management training to DPW and other Town staff.
- Continue sweeping Town-owned streets in spring after snowmelt.
- Continue cleaning catch basins.

### **8.0 STORMWATER QUALITY TESTING**

In accordance with the requirements of the MS4 General Permit, the following locations have been sampled annually since 2004. The outfall locations represent different land use types, geographic locations, watersheds, and receiving waters.

- 800 Marshall Phelps Road (Industrial)
- 615 Day Hill Road (Industrial)
- 1075 Kennedy Road (Commercial)
- 555 Day Hill Road (Commercial)
- 124/128 Harvest Lane (Residential)
- 21-27 Philip Henry Circle (Residential)

Stormwater sampling was conducted on August 11, 2015. Stormwater discharge monitoring reports for the event are included in Appendix A.

**APPENDIX A**

**Stormwater Discharge Monitoring Reports  
August 11, 2015**





# General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems

## Stormwater Monitoring Report Form

Please send completed form to: STORMWATER GROUP  
 BUREAU OF MATERIALS MANAGEMENT & COMPLIANCE ASSURANCE  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 79 ELM STREET  
 HARTFORD, CT 06106-5127

### PERMITTEE INFORMATION

Town: <u>Windsor</u>	
Mailing Address: <u>275 Broad Street, Windsor, CT 06095</u>	
Contact Person: <u>Robert Jarvis</u>	Title: <u>Town Engineer</u>
Phone: <u>860-285-1804</u>	Permit Registration #GSM: <u>000066</u>

### SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): <u>W-2 - 1075 Kennedy Road</u>	
Please check the appropriate area description: <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Residential	
Receiving Water (name, basin): <u>Farmington River</u>	
Time of Start of Discharge: <u>08:30</u>	
Date/Time Collected: <u>8/11/15 9:50</u>	Water Temperature: <u>66 F</u>
Person Collecting Sample: <u>James Treacy (ESS Group, Inc.)</u>	
Storm Magnitude (inches): <u>1.08</u>	Storm Duration (hours): <u>5</u>
Date of Previous Storm Event: <u>8/4/15</u>	

### MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM 4500-H+B	6.83 pH units	Phoenix Labs - Manchester, CT
Rain pH	Field	6.5 pH units	NA
Hardness	200.7	5.1 mg/L	Phoenix Labs - Manchester, CT
Conductivity	SM2510B	19 umhos/cm	Phoenix Labs - Manchester, CT
Oil & Grease	1664A	< 1.4 mg/L	Phoenix Labs - Manchester, CT
COD	SM5220-D	27 mg/L	Phoenix Labs - Manchester, CT
Turbidity	SM2130B	9.12 NTU	Phoenix Labs - Manchester, CT
TSS	SM2540D	37 mg/L	Phoenix Labs - Manchester, CT
TP	SM4500PE	0.14 mg/L	Phoenix Labs - Manchester, CT
Ammonia	350.1	0.18 mg/L	Phoenix Labs - Manchester, CT
TKN	351.1	0.44 mg/L	Phoenix Labs - Manchester, CT
NO <sub>3</sub> +NO <sub>2</sub>	353.2	0.07 mg/L	Phoenix Labs - Manchester, CT
E. coli	SM9223B	160 MPN/100 mL	Phoenix Labs - Manchester, CT

### STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.	
Authorized Official: <u>Victoria Houle</u>	
(Print Name)	
Signature: <u><i>Victoria Houle</i></u>	Date: <u>12/15/15</u>



## General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems

### Stormwater Monitoring Report Form

Please send completed form to: STORMWATER GROUP  
 BUREAU OF MATERIALS MANAGEMENT & COMPLIANCE ASSURANCE  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 79 ELM STREET  
 HARTFORD, CT 06106-5127

#### PERMITTEE INFORMATION

Town: <u>Windsor</u>	
Mailing Address: <u>275 Broad Street, Windsor, CT 06095</u>	
Contact Person: <u>Robert Jarvis</u>	Title: <u>Town Engineer</u>
Phone: <u>860-285-1804</u>	Permit Registration #GSM: <u>000066</u>

#### SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): <u>W-3 - 555 Day Hill Road</u>	
Please check the appropriate area description: <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Residential	
Receiving Water (name, basin): <u>Mill Brook</u>	
Time of Start of Discharge: <u>08:30</u>	
Date/Time Collected: <u>8/11/15 10:15</u>	Water Temperature: <u>66 F</u>
Person Collecting Sample: <u>James Treacy (ESS Group, Inc.)</u>	
Storm Magnitude (inches): <u>1.08</u>	Storm Duration (hours): <u>5</u>
Date of Previous Storm Event: <u>8/4/15</u>	

#### MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM 4500-H+B	6.18 pH units	Phoenix Labs Manchester, CT
Rain pH	Field	6.5 pH units	NA
Hardness	200.7	1.7 mg/L	Phoenix Labs Manchester, CT
Conductivity	SM2510B	< 5 umhos/cm	Phoenix Labs Manchester, CT
Oil & Grease	1664A	< 1.4 mg/L	Phoenix Labs Manchester, CT
COD	SM5220-D	14 mg/L	Phoenix Labs Manchester, CT
Turbidity	SM2130B	5.78 NTU	Phoenix Labs Manchester, CT
TSS	SM2540D	23 mg/L	Phoenix Labs Manchester, CT
TP	SM4500PE	0.18 mg/L	Phoenix Labs Manchester, CT
Ammonia	350.1	0.1 mg/L	Phoenix Labs Manchester, CT
TKN	351.1	0.48 mg/L	Phoenix Labs Manchester, CT
NO <sub>3</sub> +NO <sub>2</sub>	353.2	0.04 mg/L	Phoenix Labs Manchester, CT
E. coli	SM9223B	2,250 col/100 mL	Phoenix Labs Manchester, CT

#### STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.	
Authorized Official: <u>Victoria Houle</u>	
(Print Name)	
Signature: <u><i>Victoria Houle</i></u>	Date: <u>12/15/15</u>



# General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems

## Stormwater Monitoring Report Form

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 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 79 ELM STREET  
 HARTFORD, CT 06106-5127

### PERMITTEE INFORMATION

Town: Windsor

Mailing Address: 275 Broad Street, Windsor, CT 06095

Contact Person: Robert Jarvis Title: Town Engineer

Phone: 860-285-1804 Permit Registration #GSM: 000066

### SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): W-4 - 615 Day Hill Road

Please check the appropriate area description:  Industrial  Commercial  Residential

Receiving Water (name, basin): Mill Brook

Time of Start of Discharge: 8:30

Date/Time Collected: 8/11/15 10:35 Water Temperature: 66 F

Person Collecting Sample: James Treacy (ESS Group, Inc.)

Storm Magnitude (inches): 1.08 Storm Duration (hours): 5

Date of Previous Storm Event: 8/4/15

### MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM 4500-H+B	6.29 pH units	Phoenix Labs - Manchester, CT
Rain pH	Field	6.5 pH units	NA
Hardness	200.7	1.9 mg/L	Phoenix Labs - Manchester, CT
Conductivity	SM2510B	6 umhos/cm	Phoenix Labs - Manchester, CT
Oil & Grease	1664A	< 1.4 mg/L	Phoenix Labs - Manchester, CT
COD	SM5220-D	< 10 mg/L	Phoenix Labs - Manchester, CT
Turbidity	SM2130B	3.67 NTU	Phoenix Labs - Manchester, CT
TSS	SM2540D	16 mg/L	Phoenix Labs - Manchester, CT
TP	SM4500PE	0.11 mg/L	Phoenix Labs - Manchester, CT
Ammonia	350.1	0.12 mg/L	Phoenix Labs - Manchester, CT
TKN	351.1	0.37 mg/L	Phoenix Labs - Manchester, CT
NO <sub>3</sub> +NO <sub>2</sub>	353.2	0.06 mg/L	Phoenix Labs - Manchester, CT
E. coli	SM9223B	190 MPN/100 mL	Phoenix Labs - Manchester, CT

### STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: Victoria Houle  
 (Print Name)

Signature: *Victoria Houle* Date: 12/15/15





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Phone: <u>860-285-1804</u>	Permit Registration #GSM: <u>000066</u>

### SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): <u>W-5 - 800 Marshall Phelps Road</u>	
Please check the appropriate area description: <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Residential	
Receiving Water (name, basin): <u>Mill Brook</u>	
Time of Start of Discharge: <u>8:30</u>	
Date/Time Collected: <u>8/11/15 10:45</u>	Water Temperature: <u>66 F</u>
Person Collecting Sample: <u>James Treacy (ESS Group, Inc.)</u>	
Storm Magnitude (inches): <u>1.08</u>	Storm Duration (hours): <u>5</u>
Date of Previous Storm Event: <u>8/4/15</u>	

### MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM 4500-H+B	6.56 pH units	Phoenix Labs - Manchester, CT
Rain pH	Field	6.5 pH units	NA
Hardness	200.7	2.1 mg/L	Phoenix Labs - Manchester, CT
Conductivity	SM2510B	21 umhos/cm	Phoenix Labs - Manchester, CT
Oil & Grease	1664A	< 1.4 mg/L	Phoenix Labs - Manchester, CT
COD	SM5220-D	< 10 mg/L	Phoenix Labs - Manchester, CT
Turbidity	SM2130B	8.76 NTU	Phoenix Labs - Manchester, CT
TSS	SM2540D	19 mg/L	Phoenix Labs - Manchester, CT
TP	SM4500PE	0.16 mg/L	Phoenix Labs - Manchester, CT
Ammonia	350.1	0.14 mg/L	Phoenix Labs - Manchester, CT
TKN	351.1	0.39 mg/L	Phoenix Labs - Manchester, CT
NO <sub>3</sub> +NO <sub>2</sub>	353.2	0.08 mg/L	Phoenix Labs - Manchester, CT
E. coli	SM9223B	880 MPN/100mL	Phoenix Labs - Manchester, CT

### STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.	
Authorized Official: <u>Victoria Houle</u>	(Print Name)
Signature: <u><i>Victoria Houle</i></u>	Date: <u>10/15/15</u>



# General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems

## Stormwater Monitoring Report Form

Please send completed form to: STORMWATER GROUP  
 BUREAU OF MATERIALS MANAGEMENT & COMPLIANCE ASSURANCE  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 79 ELM STREET  
 HARTFORD, CT 06106-5127

### PERMITTEE INFORMATION

Town: Windsor

Mailing Address: 275 Broad Street, Windsor, CT 06095

Contact Person: Robert Jarvis Title: Town Engineer

Phone: 860-285-1804 Permit Registration #GSM: 000066

### SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): W-6 - 21/27 Philip Henry Circle

Please check the appropriate area description:  Industrial  Commercial  Residential

Receiving Water (name, basin): Decker's Brook/Connecticut River

Time of Start of Discharge: 8:30

Date/Time Collected: 8/11/15 11:15 Water Temperature: 69 F

Person Collecting Sample: James Treacy (ESS Group, Inc.)

Storm Magnitude (inches): 1.08 Storm Duration (hours): 5

Date of Previous Storm Event: 8/4/15

### MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM 4500-H+B	6.8 pH units	Phoenix Labs - Manchester, CT
Rain pH	Field	6.5 pH units	NA
Hardness	200.7	6.3 mg/L	Phoenix Labs - Manchester, CT
Conductivity	SM2510B	40 umhos/cm	Phoenix Labs - Manchester, CT
Oil & Grease	1664A	< 1.4 mg/L	Phoenix Labs - Manchester, CT
COD	SM5220-D	18 mg/L	Phoenix Labs - Manchester, CT
Turbidity	SM2130B	10.2 mg/L	Phoenix Labs - Manchester, CT
TSS	SM2540D	12 mg/L	Phoenix Labs - Manchester, CT
TP	SM4500PE	0.24 mg/L	Phoenix Labs - Manchester, CT
Ammonia	350.1	0.12 mg/L	Phoenix Labs - Manchester, CT
TKN	351.1	0.51 mg/L	Phoenix Labs - Manchester, CT
NO <sub>3</sub> +NO <sub>2</sub>	353.2	0.17 mg/L	Phoenix Labs - Manchester, CT
E. coli	SM9223B	12,030 MPN/100mL	Phoenix Labs - Manchester, CT

### STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: Victoria Houle  
 (Print Name)

Signature: *Victoria Houle* Date: 12/15/15





# General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems

## Stormwater Monitoring Report Form

Please send completed form to: STORMWATER GROUP  
 BUREAU OF MATERIALS MANAGEMENT & COMPLIANCE ASSURANCE  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 79 ELM STREET  
 HARTFORD, CT 06106-5127

### PERMITTEE INFORMATION

Town: <u>Windsor</u>	
Mailing Address: <u>275 Broad Street, Windsor, CT 06095</u>	
Contact Person: <u>Robert Jarvis</u>	Title: <u>Town Engineer</u>
Phone: <u>860-285-1804</u>	Permit Registration #GSM: <u>000066</u>

### SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): <u>W-1 - 124/128 Harvest Lane</u>	
Please check the appropriate area description: <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential	
Receiving Water (name, basin): <u>Farmington River</u>	
Time of Start of Discharge: <u>8:30</u>	
Date/Time Collected: <u>8/11/15 9:00</u>	Water Temperature: <u>66 F</u>
Person Collecting Sample: <u>James Treacy (ESS Group, Inc.)</u>	
Storm Magnitude (inches): <u>1.08</u>	Storm Duration (hours): <u>5</u>
Date of Previous Storm Event: <u>8/4/15</u>	

### MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM4500-H+B	6.85 pH units	Phoenix Labs - Manchester, CT
Rain pH	Field	6.5 pH units	NA
Hardness	200.7	24.6 mg/L	Phoenix Labs - Manchester, CT
Conductivity	SM2510	97 umhos/cm	Phoenix Labs - Manchester, CT
Oil & Grease	1664A	< 1.4 mg/L	Phoenix Labs - Manchester, CT
COD	SM5220-D	36 mg/L	Phoenix Labs - Manchester, CT
Turbidity	SM2130B	13.1 NTU	Phoenix Labs - Manchester, CT
TSS	SM2540D	38 mg/L	Phoenix Labs - Manchester, CT
TP	SM4500PE	0.22 mg/L	Phoenix Labs - Manchester, CT
Ammonia	350.1	0.2 mg/L	Phoenix Labs - Manchester, CT
TKN	351.1	1.01 mg/L	Phoenix Labs - Manchester, CT
NO <sub>3</sub> +NO <sub>2</sub>	353.2	0.67 mg/L	Phoenix Labs - Manchester, CT
E. coli	SM9223B	>24,200 MPN/100 mL	Phoenix Labs - Manchester, CT

### STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.	
Authorized Official: <u>Victoria Houle</u>	
(Print Name)	
Signature: <u></u>	Date: <u>10/15/15</u>