

Town of Williston
Stormwater Management Program



The following Stormwater Management Program is prepared in accordance with requirements put forth in General Permit 3-9014 (2018) for stormwater discharges from regulated small municipal separate stormwater systems (MS4s)

General Permit Number: 3-9014

NPDES Permit Number: VTR040000

Submitted: December 28, 2018

Updated: January 17, 2019

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Table of Contents

Table of Contents	i
Executive Summary	1
<i>MS4 Discharge Watersheds</i>	1
Part 4: Discharge Requirements	3
4.1 Discharges.....	3
4.2 Discharges to Impaired Waters.....	3
4.3 Discharges to High Quality Waters; anti-degradation	4
Part 6: Minimum Control Measures	4
6.2 Minimum Control Measures.....	4
1. PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS	4
2. PUBLIC INVOLVEMENT/PARTICIPATION	4
3. ILLICIT DISCHARGE DETECTION AND ELIMINATION	4
4. CONSTRUCTION SITE STORMWATER RUNOFF CONTROL	5
5. POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND RE-DEVELOPMENT AREAS.....	5
6. POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS	5
Part 7: Assumption of Responsibility for Previously Permitted Stormwater Systems.....	6
Part 8: TMDL Implementation.....	6
8.1 Stormwater Flow Restoration Plan (FRP).....	6
8.2 Lake Champlain Phosphorus Control Plan (PCP) Requirements	6
8.3 Municipal Road Requirements	7
Plan Certification.....	8

Executive Summary

The newly signed Small Municipal Separate Storm Sewer System (MS4) General Permit (3-9014) went into effect on December 5th, 2017 and was administratively continued until its final issuance date of Friday, July 27th, 2018. The permit authorized MS4s to discharge pollutants to water of the State and the United States. MS4's must develop, implement and enforce a Stormwater Management Program (SWMP) to reduce the discharge of pollutants to the Maximum Extent Practicable (MEP) using Best Management Practices (BMPs) to protect water quality and to satisfy requirements of the 1972 Clean Water Act.

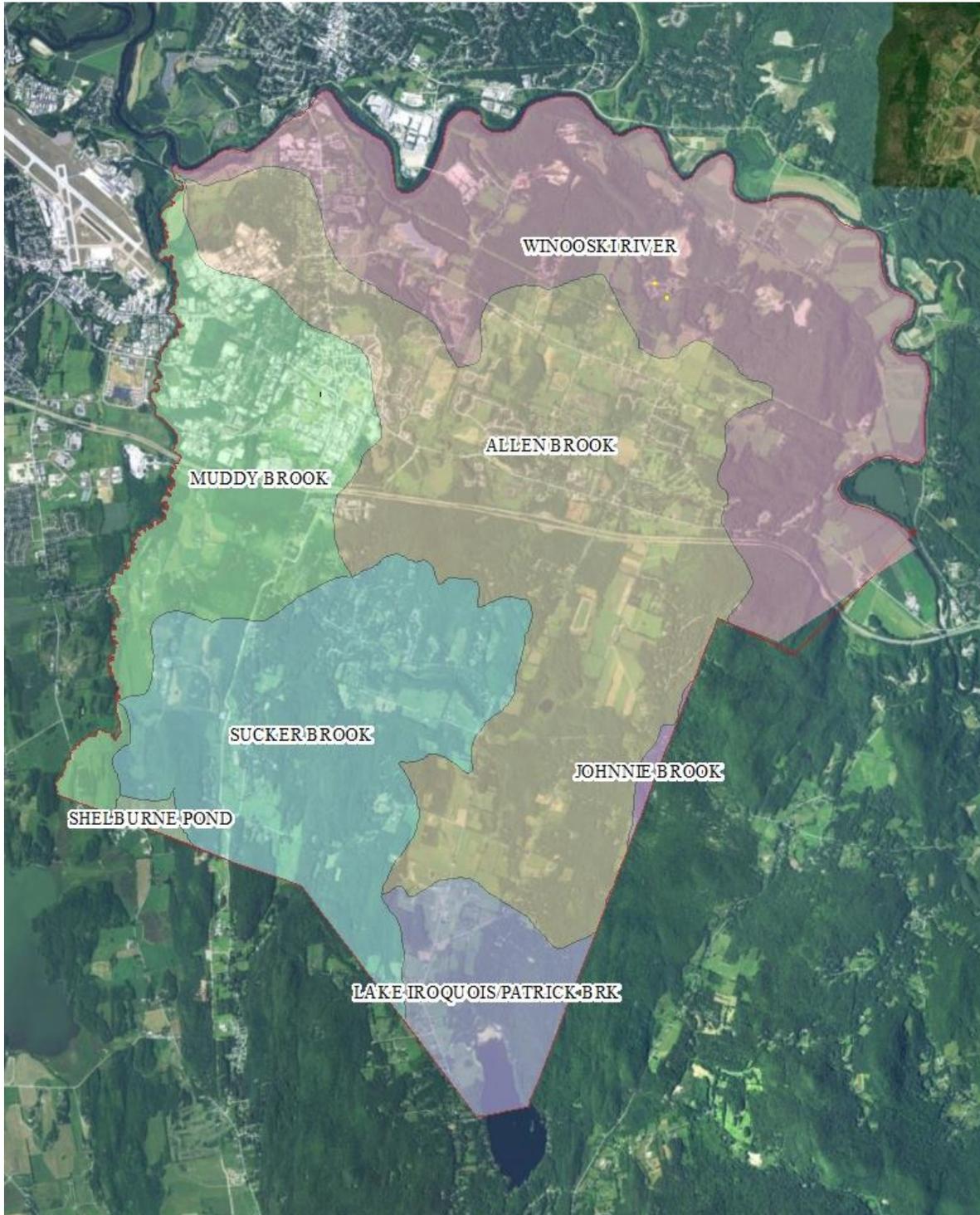
This SWMP corresponds to the many sections within the MS4 Permit to allow the reader to better understand the Town of Williston Stormwater Management Program and the MS-4 Permit. This will also ensure that the Town covers all the new mandates within the new Permit.

The coverage for permit 3-9014 is based on the entire public area and public right of way within the Town of Williston being determined as a small MS4 urbanized area and a limited number of incorporated individual permits.

MS4 Discharge Watersheds

The Town of Williston is comprised of 7 separate watersheds including one major river three major streams, one minor stream, one lake, and one pond: the Winooski River, Sucker Brook, Allen Brook, Muddy Brook, Johnnie Brook, Lake Iroquois, and Shelburne Pond (Figure 1). The Muddy Brook fails State water quality standards for toxics, nutrients, and temperature and an individual tributary fails water quality standards for excess chloride. Portions of the Allen Brook fail State water quality standards for stormwater and *E. coli*.

Figure 1 Williston's Watersheds



Part 4: Discharge Requirements

4.1 Discharges

The Town of Williston implements and enforces a program to reduce the discharge of pollutants to waterways throughout the municipality through multiple approaches including, but not limited to, the following ordinances and bylaws;

- [Ordinance Regulating the Use of Public and Private Stormwater Systems](#)
- [Chapter 29 of the Unified Development Bylaws: Watershed Health](#)
- [Public Works Standards and Specifications](#)

4.2 Discharges to Impaired Waters

Williston actively manages all discharge covered by this permit to impaired waters with an approved TMDL. The Town controls discharges consistent with the assumptions and requirements of any wasteload allocation (WLA) applicable to the permittee in the TMDL.

See Sections 8.1 Stormwater Flow Restoration Plan (FRP) and 8.2 Lake Champlain Phosphorus Control Plan (PCP) Requirements for additional details regarding these TMDLs.

Watershed Body ID VT08-02, Muddy Brook Tributary #4 and Tributary to Tributary is impaired due to elevated instream Chloride Levels.

The town of Williston will implement, to the best of our ability, the BMP and tracking requirements for the municipally maintained surfaces listed in the Final chloride guidance titled “Guidance for Developing Response Plans Pursuant to Part 4.2.B of the MS4 GP: Discharges to Impaired Waters without an Approved TMDL” and dated 1/10/19. Additionally, for the privately owned facilities within our municipal boundaries, Williston DPW will both prepare public education documentation to private applicators and work with the Town Selectboard to consider implementing an ordinance, bylaw, or other regulatory mechanism requiring measures to prevent exposure of any salt stockpiles to precipitation and runoff at all commercial and industrial properties within the regulated area.

Shelburne Pond is listed as impaired due to phosphorus contributions. While Williston does contain a portion of the Shelburne Pond watershed within our municipal boundaries, the only municipal town highway contribution is for a portion of South Brownell Road that is approximately 0.2 mi in length and 25 ft wide resulting in a total impervious area of 26,400 ft² (0.6 ac) of impervious. Due to the de minimus nature of the town’s contribution to this impairment we plan no direct action towards the Shelburne Pond’s Response Plan.

4.3 Discharges to High Quality Waters; anti-degradation

As applicable, all waters shall be managed in accordance with the Anti-Degradation Implementation Procedure to protect, maintain, and improve water quality

Part 6: Minimum Control Measures

See Attachment A for a summary table of the minimum control measures (MCMs) requirements including the names of responsible parties, other entities implementing the MCMs, measurable goals, timeframe, and the rationale for each BMP.

6.2 Minimum Control Measures

1. PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS

The Town of Williston in partnership with the Chittenden County Regional Planning Commission (see Attachment B) is a participant in Rethink Runoff Program <http://rethinkrunoff.org/>. The Town of Williston stormwater page will be periodically updated with permit required reports as well as appropriate local, regional and state information as deemed necessary for compliance https://www.town.williston.vt.us/index.asp?Type=B_BASIC&SEC={ACC6B21E-0FDB-497F-8A5A-62CDDFF871272}.

2. PUBLIC INVOLVEMENT/PARTICIPATION

Through the Rethink Runoff program (See Attachment B), the Chittenden County Stream Team (CCST) facilitates our public involvement/participation efforts <http://rethinkrunoff.org/the-stream-team/>.

3. ILLICIT DISCHARGE DETECTION AND ELIMINATION

The Public Works department has a comprehensive record and maintenance of storm infrastructure. Staff and citizen reporting will remain the primary method of reporting of illegal dumping of waste materials into storm drainage systems. Residents readily report suspect activity. Staff investigates all events reported.

Periodic screening of outfalls will occur a minimum of once per permit cycle. Methods used to test will include both physical and chemical means.

Local businesses are presently educated about proper waste disposal practices by the Chittenden Solid Waste District (CSWD). The Town of Williston will continue to explore additional education partnerships to reinforce the hazards associated with the illegal and improper disposal of wastes.

The Town of Williston utilizes an outreach brochure on an as needed basis in neighborhoods where illicit discharges are discovered.

4. CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

The Town of Williston Bylaws and Public Works Standards and Specifications already regulate construction disturbing less than 1 acre and for project sites disturbing from 1 to 5 acres as required. Williston has incorporated the State's Low Risk Site Handbook for Erosion Prevention and Sediment Control by reference as part of the above mentioned regulatory documents. Construction monitoring activity is conducted by the Town of Williston staff as normal procedure. Inspection activity will be reported annually each April.

5. POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND RE-DEVELOPMENT AREAS

Williston developed a Post-Construction Stormwater Runoff from New Development and Redevelopment projects during the last permit cycle. Expired permits will be addressed as required in compliance with the permit schedule.

As part of the Town of Williston design review processes, long-term maintenance of any proposed infrastructure is considered as part of the design review and approval process. Any utilities or infrastructure designed for turn over to the Town of Williston shall meet or exceed Town and State standards in order to be accepted as Town infrastructure and are taken under the MS4 permit compliance. The same design requirements are required for private infrastructure as well.

All Projects constructed within the community are subject to engineers' inspection and periodic staff inspection as part of the existing permit structure.

The Town of Williston Bylaws already contains language that encourages use of low impact design "to the maximum extent practical given the sites soil characteristics, slope and other relevant factors" (Section 513D of LDC). These provisions will be reviewed and improved as deemed necessary in compliance with permit requirements.

6. POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

Williston operates and maintains their stormwater collection infrastructure with necessary repairs, continuous upgrades, and utilizes asset management processes to best focus limited resources. In compliance with the requirements of the General Permit 3-9014 process, the Town performs the following actions;

- maintaining oil/water separator are currently in place for all garage spaces and other areas with floor drains at both Public Works and Wastewater facilities,
- maintaining CEG (Conditionally Exempt Generator) status at Public Works,
- street sweeping and catch basin cleaning in compliance with BMP's/operating standards, and
- proper and authorized disposal of catch basin and street sweeping materials.
- Street Sweeping: Twice annually (spring and fall) sweeping of Williston's curbed town highway streets to remove silt and sediment: Sweeping activity does not include non-curbed town highway, private streets, state or Federal property or Right of Way.

- Catch Basins: Twice annually (spring and fall), a portion of Williston’s catch basins are inspected and cleaned according to a rotating schedule. Additionally, a portion of catch basins are inspected to ascertain when the functional volume of the sump approaches or exceeds 50% of its rated capacity. If the functional volume is exceeded, these catch basins are cleaned on an as needed basis.

All materials collected during street sweeping and catch basin cleanings are disposed in compliance with applicable rules and regulations.

Part 7: Assumption of Responsibility for Previously Permitted Stormwater Systems

The Town of Williston will incorporate valid individual stormwater permits on an as needed basis, including projects contained within the state Approved Allen Brook Flow Restoration Plan (FRP). As of the date this document was last updated (see footer) the list of incorporated permits are shown in Table 1.

Table 1: Permits Incorporated into the Town of Williston General Permit

Permit #	Permit Name	Year Incorporated
5593-9010	Blair Park	2016
4201-9010	Marshall Ave Ext	2016

Part 8: TMDL Implementation

8.1 Stormwater Flow Restoration Plan (FRP)

Allen Brook is currently on the State's list of [Impaired Waters of the State](#) as impaired due to stormwater. The accepted FRP was prepared to identify stormwater treatment practices (including retrofits to existing practices) that will be implemented in an effort to achieve established EPA approved Total Maximum Daily Load (TMDL) Targets for Allen Brook and eventually allow Allen Brook to be removed from the State’s Stormwater Impaired List.

2016 FINAL FRP

The 2016 Final [Allen Brook Flow Restoration Plan](#) is available along with the following Appendices: [A- Watershed Map](#), [B - Expired Permits](#), [C - Town Sites](#), [D - VTrans Sites](#), [E - VTDEC Model Run Summary](#), [F - Tetra Tech Memo](#), [G - Stormwater Agreements](#), [H - VTrans MOU](#).

8.2 Lake Champlain Phosphorus Control Plan (PCP) Requirements

Williston will develop and implement a PCP, for approval by the Secretary, for developed land consistent with the Lake Champlain TMDLs. At a minimum, the PCP shall be designed to achieve a level of phosphorus reduction equivalent to the percent reduction target for developed land in the associated TMDL lake segment(s) as applied to municipally-owned developed lands.

In general, the creation of the PCP will consist of a planning process that:

- includes a review of PCP requirements and phosphorus reduction targets for Williston,
- classifies the sources of phosphorus loading in our community using TMDL guidance,
- identifies projects that have the potential to result in reductions in phosphorus loading,
- evaluates which projects will result in significant reductions in phosphorus loading,
- considers improvements that strike the appropriate balance between cost and efficiency,
- selects the projects most suited to Williston,
- estimates the cost of full compliance with permit requirements based on selected projects, and
- considers updates to bylaws and ordinances that includes the treatment of non-municipally-owned developed lands.

8.3 Municipal Road Requirements

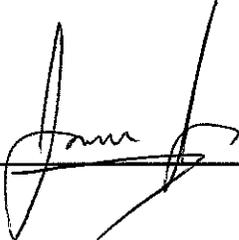
With support from the Chittenden County Regional Planning Commission the Town of Williston has completed and continues to revise and update a Road Erosion Inventory (REI) of all hydrologically-connected road segments within the municipality. All segments found to be out of compliance with road stormwater management standards will be upgraded in order of priority utilizing the appropriate BMPs laid out in the General Permit.

Plan Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

 _____ Date 1/17/19

Bruce Hoar
Public Works Director
Town of Williston

 _____ Date 1/17/19

James Sherrard
Stormwater Coordinator
Town of Williston