



St. Albans Town
Stormwater Management Program 2013

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StormWater Management Program

The following represents the Town of St. Alban's StormWater Management Program, (SWMP) as required by the State of Vermont, Agency of Natural Resources, Department of Environmental Conservation, National Pollutant Discharge Elimination System, (NPDES), General Permit 3-9014 (2012) for Storm Water discharges from Small Municipal Separate Storm Sewer Systems. The SWMP contains measurable goals for the development and implementation of the six minimum measures described in Subparts IV.F and G of the permit, and additional measures necessary to protect water quality described in Part IV of the permit.

WATER QUALITY BASED REQUIREMENTS

Pursuant to Clean Water Act 402(p)(3)(B)(iii), the permit includes provisions which require the permittee to reduce the discharge of pollutants to the maximum extent practicable, protect water quality, and to satisfy the Clean Water Act.

REQUIREMENTS TO MEET WATER QUALITY STANDARDS

Discharges shall not cause or contribute to an exceedance of applicable water quality standards for the receiving water. Applicable water quality standards are the Vermont Water Quality Standards that are in place upon the effective date of the permit.

Except for discharges addressed by part IV.C.1 of the permit, if at any time the Town becomes aware that a discharge causes or contributes to an exceedance of applicable water quality standards, the Town shall within 60 days of becoming aware of the situation eliminate the conditions causing or contributing to the exceedance of water quality standards. If elimination within 60 days is infeasible the Town shall document in its SWMP measures and anticipated timeframes to eliminate the conditions causing or contributing to the exceedance. Within 30 days of eliminating the condition, the Town shall document the measures used to correct the condition in the SWMP. The Town shall include in its annual report a description of any such discharges identified during the reporting period; a description of measures taken to eliminate conditions during the reporting period or the basis of a finding that elimination is infeasible; and a timeframe for completion of all steps necessary to eliminate such discharges. The Town shall comply with any additional requirements or schedules established by the Secretary, including any requirements to submit additional information concerning the potential cause of the exceedance.

DISCHARGES TO IMPAIRED WATERS

The Vermont Agency of Natural Resources has identified both the Stevens and Rugg Brook Watersheds as being impaired by storm water. The Town of St. Albans intends to achieve compliance through the implementation of the Storm Water Management Plan, (SWMP) contained on the following pages, to include specific actions outlined within the six minimum control measures.

The Vermont Agency of Natural Resources considers Stevens and Rugg Brook to be impaired due to non-support of aquatic life. For both watersheds, the source of the impairment from multiple sources is excessive stormwater runoff. For Stevens and Rugg Brook the water quality target is represented by measuring stormwater volume, so the 'loading capacity is actually the greatest volume of stormwater volume they can receive without violating the streams aquatic life criteria.

The Town's SWMP contains several strategies aimed at reducing the flow for both brooks. These strategies include controlling sediment through the implementation of Construction Site Storm Water Runoff Controls, and Post-Construction Storm Water Management in New Development and Redevelopment. The plan also works toward the control of illicit discharges through the implementation of the Town's Illicit Discharge Detection and Elimination Program. The Town also intends to continue existing programs associated with animal control to facilitate the removal of dead animals from the roadway system, and, programs to minimize dog waste in Town parks.

DISCHARGES TO IMPAIRED WATERS WITH AN APPROVED TMDL

Discharges to Stormwater Impaired Waters with an approved TMDL

Flow Restoration Plans - The Town has been working in collaboration with the City of St. Albans to complete a flow restoration plan (FRP) for Stevens Brook; that project is near completion. It is the Town's intention to again partner with St. Albans City for a Rugg Brook FRP, we applied for a VTrans grant to fund a flow restoration plan for Rugg Brook in August 2013. The Town shall submit the FRP's to the Secretary no later than three years after the date of issuance of an authorization to discharge to the Town under this permit. The FRP shall contain the following;

- An identification of the suite of necessary storm water BMP's that will be used to achieve the flow restoration targets.

- A design and construction schedule for the storm water BMP's that has been identified as necessary to achieve the flow restoration targets.
- A financing plan that estimates the cost of implementing the FRP.
- A regulatory analysis that identifies and describes what, if any, additional regulatory authorities will be needed to implement the FRP.
- An identification of regulatory assistance that will be needed to implement the FRP.
- An identification of any third party that is responsible for implementation of the FRP.

Plan to Address Expired Permits – Within six months following the date of issuance of an authorization to discharge, the Town shall submit a plan for addressing expired state permits discharging to the MS4 system to ensure that all permitted facilities demonstrate compliance with the existing expired permit.

Landowner Technical Assistance – Two years after the issuance of an authorization, the Town shall develop a program to identify opportunities for and provide technical assistance to landowners in the implementation by landowners of low impact BMP's.

Protection and Regulation of Development in Stream Corridors – The Town has previously developed and submitted a plan to the VANR outlining options for enhanced protection of stream corridors of storm water impaired waters. The plan includes a map of stream corridors depicting areas that have been converted to impervious surface and areas that are undeveloped or have not been converted to impervious surface, (updated for this application), a Stream Corridor Buffer Ordinance and other applicable Zoning Regulations, and the development and adoption of Storm Water Control Ordinances. The preparation of the plan was developed after review of the riparian buffer and stream fluvial geomorphological information provided by the VANR as a result of the Agency's preparation of TMDL's as set forth in 10 V.S.A § 1264 (f)(3).

Flow and Precipitation Monitoring Program – The Town shall implement or otherwise fund a flow and precipitation monitoring program, subject to approval by the Secretary, within its watersheds impaired by storm water.

Six Minimum Control Measures – The Town has developed a SWMP which contains the required Six Minimum Control Measures to reduce pollutants to the Maximum Extent Practical.

DISCHARGES TO IMPAIRED WATERS WITHOUT AN APPROVED TMDL

If a small MS4 discharges to an impaired water that is without an approved TMDL, the permittee shall comply with Part IV of this permit and address in its SWMP and annual reports how any discharges that have the potential to cause or contribute to the impairment will be controlled so that they do not cause or contribute to the impairment. A small MS4 may achieve an increased level of control through additional BMPs or enhancement of existing BMPs. If elimination of such discharges is impossible within 60 days, then the permittee shall submit to the secretary a

plan for eliminating or controlling its discharges. The plan shall include an assessment of whether MS4 discharges are potential contributors to the identified impairment and identify the sources of the discharge and, unless available information indicates that the permittees discharges are not a potential contributor to impairment, a response plan that identifies additional or modified BMPs to be implemented. This plan shall be designed as an iterative process. The content of the response plan should reflect the magnitude and complexity of the impairment and the permittees potential to contribute to the impairment.

Erosion Controls - Within the Town's SWMP, erosion controls have been adopted. Past efforts have included the design and construction of a storm water outfall treatment structure which collects sediment before storm water is discharged to Stevens and Rugg Brook, a unique diversion structure was constructed in the last few years to mitigate flow.

Road Maintenance - The Town has also completed several erosion control projects along roads to reinforce roadside ditches to minimize erosion of the ditch lines and the edge of the roadways during periods of high runoff. As a part of new development, the Town's design review process includes assessing the adequacy of storm water culverts, both public and private to avoid flood damage due to high runoff. The Town also cleans roadside ditches of debris and buildup on an as needed basis to ensure that blockages do not result in washouts within the drainage system. Finally, the Town's road system serves primarily agricultural areas, where the Town has taken deliberate steps to preserve this land use, which generally prevents high density development within these areas.

Buffers - Several years ago, the Town of St. Albans included buffers, or stream bank protection in its bylaws. Generally, the bylaw does not allow development within 75 feet of the center of named streams throughout the community. All new development in St. Albans subject to Site Plan Approval is required to submit for review and approval, a vegetation and landscape plan.

Impervious Surface Minimization - The Town shall adopt revisions to its Technical Roadway Standards. The revised standards will allow for most roadways to be constructed at a narrower width, and as well, allow increased options for open drainage systems to promote pre-treatment of storm water runoff. Standards have been developed to support High Density Mixed-Use Development, which requires that front yards contain a minimum of 50% green space unless in a designated area of growth that allows more compact development to maintain the more rural surrounding areas. The Town Zoning regulations require at least 30% green space on all development within its commercial areas and 40% within its light industrial/commercial areas. PUD's are allowed waivers to reduce parking areas unless more parking is warranted by actual need and shared parking is encouraged to reduce impervious areas where appropriate.

MINIMUM CONTROL MEASURES (1 – 6)

1. Public Education and Outreach on Storm Water Impacts (Best Management Practice –BMP)

- BMP 1-1 *Maintain Storm Water Web Site* - The Town of St. Albans will create & maintain a stormwater tab on their website which will contain stormwater information. The Town will update it periodically to keep the general and regional stormwater information accurate. The Town’s website is www.stalbanstown.com
- BMP 1-2,3,4 *Participate in RSEP* - The Town, in collaboration with the City of St. Albans will develop and participate in a regional stormwater education program (RSEP) that will be managed thru Northwest Regional Planning Commission (NWRPC). The Town will continue to participate in regional stormwater education and outreach thru the RSEP, which has tentatively been named Franklin County Clean Streams (FCCS). A memo of understanding is being drafted and will be submitted upon execution.
- BMP 1-5a-b *Develop & Distribute Informational Brochures* – The Town will develop and distribute brochures thru the participation in the regional RSEP at least twice in the first year and once a year thereafter.
- BMP 1-5c *News Media Feature Stories* – The RSEP will coordinate with the local newspaper, the St. Albans Messenger to run at least two stories per year on stormwater related issues.
- BMP 1-5d *For municipalities: Develop school materials and teacher trainings* - The RSEP will develop or acquire existing materials and provide teacher training.

Rationale Development of a regional stormwater program seemed the best approach to educating our unique impaired stormwater area since stormwater fails to recognize municipal boundaries.

Person Responsible Northwest Regional Planning Commission (NWRPC) will be managing the RSEP, allowing the program to grow and providing regional education and outreach to everyone choosing to work, play or live in Franklin County.

Measurable Goals The MOU for the RSEP will be submitted upon execution. The brochures and a copy of news articles will be forwarded to VANR at least once a year.

2. Public Involvement and Participation (choose 3 or BMP 2-9)

BMP 2-4 Catch Basin Stenciling, Marking – The Town intends to work towards annual marking or stenciling of catch basins in prominent areas.

BMP 2-5 Maintain Signage – The town will maintain watershed signage, raising awareness.

BMP 2-9 Participate in the Franklin County Clean Stream RSEP - The town will continue to develop and participate in regional stormwater education.

Rationale The best management practices under this minimum measure are intended to educate the community with the goal of changing behavior by improving the level of awareness surrounding water pollution. Our goal – “it’s our water, our solution” hopefully becomes a household buzz word.

Person Responsible NWRPC will be managing this effort.

Measurable Goals The RSEP plans to initiate a baseline survey, results to be reported within one year.

3. Illicit Discharge Detection and Elimination

BMP 3-1 Develop and enforce a program to detect and eliminate illicit discharges – The state department of environmental conservation initiated a contract with Aldrich and Elliott to perform an illicit discharge detection and elimination report (IDDE – contract #24481 signed 6/21/13).

BMP 3-2 Develop and maintain a storm sewer GIS layer on the town tax maps – Town will develop a stormwater layer on its town tax maps.

BMP 3-3 Develop and implement an Illicit Discharge Ordinance – The town will initiate an IDDE ordinance with plans to implement within 2 years.

BMP 3-4 Develop and implement an illicit discharge detection plan, focus on impaired waters and random dumping –

BMP 3-5 *Inform public of illicit discharge and disposal hazards –*

BMP 3-6 *Address specific categories of Illicit Discharges, if necessary –*

BMP 3-7 *Prepare annual report of monitoring and corrective actions taken -*

Rationale

Person Responsible

Measurable Goals

4. Construction Site Storm Water Runoff Control

- BMP 4-1 Develop and implement procedures to ensure MS4 construction activities are properly permitted -
- BMP 4-2 Review existing MS4 regulations for effectiveness in managing construction related E & S and consistency with state construction permits -
- BMP 4-2a Adopt E & S requirements that are at least as stringent as state requirements –
- BMP 4-3 Develop and implement an erosion control ordinance that regulates development not subject to state permitting –

Rationale

Person Responsible

Measurable Goals

5. Post-Construction Storm Water Management in New Development and Redevelopment.

- BMP 5-1 Review existing MS4 regulations for effectiveness in managing storm water runoff and consistency with state operational permits -
- BMP 5-1a Assess changes to regulations to support LID –
- BMP 5-1b Assess changes to regulations to minimize impervious surfaces through street & parking design –
- BMP 5-1c Adopt requirements that are at least as stringent as state requirements –
- BMP 5-2 Develop and implement procedures to identify projects that disturb >1 acre –
- BMP 5-3 Adopt an ordinance, planning, zoning and subdivision reg, or other regulatory mechanism for post-construction runoff –
- BMP 5-4 Develop and implement inspection procedures for development -

BMP 5-5 *Develop and implement procedures to ensure MS4 development activities are properly permitted.* -

Rationale

Person Responsible

Measurable Goals

6. Pollution Prevention/ Good Housekeeping for Municipal Operations

- BMP 6-1 Describe operation and maintenance program for reducing pollutant runoff from MS4 operations. –
- BMP 6-1a New construction and land disturbance -
- BMP 6-1b Maintenance of fleet and buildings, all municipal garages, parks, open space, construction and maintenance practices for gravel roads, snow disposal and storm water systems –
- BMP 6-1c Training, maintenance schedules, and inspection procedures for long-term structural controls -
- BMP 6-1d For municipal facilities where fertilizers are applied, prohibit the use of fertilizers containing phosphorus unless warranted by a soil test -
- BMP 6-2 For municipal garages, an MS4 may participate in ANR’s Municipal Compliance Assistance Program -
- BMP 6-3 Provide a list of all industrial facilities that the MS4 owns or operates that are subject to the MSGP –

Rationale