



Stantec

BURLINGTON INTERNATIONAL AIRPORT

Annual Report for General Permit 3-9014 (MS-4)

and

Annual Report for Operational Stormwater Discharge Permits

April 1, 2013

National Pollutant Discharge Elimination System (NPDES)
Number: VTR040000 for Stormwater Discharges from Small
Municipal Separate Storm Sewer Systems (MS-4)

and

Operational Stormwater Discharge Permits
including:

- Permit No. 3028-9010.A (BTV's Master Permit)
- Permit No. 1-1391 (South Apron Expansion)
- Permit 1-0839 (Redirect Airfield Drainage to North Outfall)
- Permit No. 3028-INDS.A (Taxiways 'B', 'C', 'J', and 'G')
- Permit No. 3028-INDS.1 (Reconstruct, Mark & Groove Runway 15-33)
- Permit No. 3845-INDS.A (Heritage Flight)

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1.0 CONSOLIDATION OF REPORTING

The City of Burlington, Burlington International Airport (herein referred to as BTV) currently is subject to six operational Stormwater Discharge Permits, a Municipal Separate Storm Sewer System General Permit (3-9014, MS4), a Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (3-9003, MSGP), and a comprehensive *Stormwater Management Program* (SWMP). Two additional operational Stormwater Discharge permits have been issued to BTV in 2011 and 2012, however, neither project has been constructed to date. Permit compliance conditions vary for each permit according to the date of issuance, permitting rules at the time of issuance, number of discharge points, and whether the receiving water is impaired or not.

Reporting requirements, including dates of submission for Annual Reports, have varied widely in the past between the multiple permits. For instance, Annual Reports for four of the six Stormwater Discharge Permits were previously due on July 15 of each year. The Annual Reports for the two remaining Stormwater Discharge Permits were due on January 31 and September 30 of each year. To compound matters further, the Annual Report for General Permit 3-9014 (MS4) was due on February 1 of each year, while the Annual Report for General Permit 3-9003 (MSGP) was due no later than forty five days after completion of the annual Comprehensive Site Inspection.

In order to consolidate BTV's annual reporting requirements, a proposal was developed and subsequently agreed upon by Vermont Agency of Natural Resources, Stormwater Program personnel. The agreement provides for consolidation of Annual Reports including the six operational Stormwater Discharge Permits, General Permit 3-9014 (MS4), and General Permit 3-9003 (MSGP) to all be submitted on April 1 of each year. The first such consolidation occurred with submission of the annual reports for 2011 and dated April 1, 2012. It shall be noted that changes to submission deadline requirements for BTV's existing Underground Injection Control (UIC) Permits were not included under this consolidation.

Additionally, it was initially proposed that in lieu of submitting eight separate Annual Reports (one for each separate permit), BTV was to submit a single comprehensive Annual Report including all required documentation for the eight separate permits. However, during preparation of the initial 2011 report, it became clear that separating the Annual Report for General Permit 3-9003 (MSGP) into a separate report provided for better organization. For future reference purposes, e-mail correspondence related to consolidation of BTV's permit reporting is contained in Appendix A of the 2011 annual report entitled *Annual Report For General Permit 3-9014 (Ms-4) and Annual Report For Operational Stormwater Discharge Permits* dated April 1, 2012.

It is noted that BTV was issued a seventh operational Stormwater Discharge Permit (#3028-INDS.2 as contained in **Appendix E** for reference) on December 7th, 2011 for the Vermont Aviation Center project (formerly entitled the Burlington Aviation Technical Center and Vermont Flight Academy project). At this time, the project has not been constructed and is therefore, not yet subject to permit reporting conditions.

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On November 20th, 2012 an eighth operational Stormwater Discharge Permit was issued to BTV for the Quarry Area Access Road project (#3028-9015.1 as contained in **Appendix D** for reference). At this time, the project has not been constructed and is therefore, also not yet subject to permit reporting conditions.

2.0 ANNUAL REPORT FOR GENERAL PERMIT 3-9014 (MS-4)

2.1 INTRODUCTION

In accordance with Section 5.3 Reporting, contained in General Permit 3-9014, the Burlington International Airport (BTV) is required to submit an annual report overviewing the status of compliance with permit conditions by April 1 of each year of the permit term.

2.1.1 Background

The 1987 Amendment to the Federal Clean Water Act (CWA) of 1972 (CWA 402(p)(5)) directed the Environmental Protection Agency (EPA) to address the problems of flooding, water pollution and public health threats caused as a result of stormwater runoff from developed lands or as commonly termed, urban stormwater runoff. This runoff from roads, rooftops and other impervious surfaces associated with developed lands causes erosion/property damage; endangers or destroys aquatic wildlife and wildlife habitats; causes unhealthy algal blooms; and endangers public health via contact during recreation sports by contaminating source water used for public water supplies.

The CWA required that the EPA address urban stormwater runoff in a phased approach starting with the largest urban areas in the United States based on population census data. In November 1999, the EPA issued new federal stormwater regulations known as the Phase II Stormwater Rule for metropolitan areas of less than 100,000 people.

Under the Phase II Rule, nine municipalities in Vermont with municipal separate storm sewer systems (MS4) are required to seek coverage under the MS4 General Permit or apply for an individual permit. These are Burlington, South Burlington, Colchester, Milton, Winooski, Essex, Essex Junction, Williston and Shelburne. In addition to these municipalities, three publicly owned, non-traditional separate storm sewer systems have also been designated and are required to seek coverage. These systems are owned or operated by the University of Vermont, Burlington International Airport (BTV) and the Vermont Agency of Transportation.

The MS4 General Permit is a National Pollutant Discharge Elimination System (NPDES) permit and has a five-year permit term. The requirements of this MS4 General Permit apply to areas served by each MS4 that are located within either the U.S. Census Bureau designated urban area (UA) or watersheds that are principally impaired by stormwater and so classified by the Vermont Agency of Natural Resources, Department of Environmental Conservation (DEC).

As a permit condition, each MS4 must develop, implement and enforce a Stormwater Management Program (SWMP) designed to reduce the discharge of pollutants from the MS4 to the maximum extent practicable (MEP), to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act. Implementation of best management practices consistent with the provisions of the

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SWMP required pursuant to this permit constitutes compliance with the standard of reducing pollutants to the "maximum extent practicable".

The SWMP must be developed and implemented by the expiration date of the MS4 permit, and must include information for the minimum control measures as described in the permit.

There are six minimum control measures required of each designated permittee under the MS4 General Permit: (1) *Public Education and Outreach*, (2) *Public Participation/Involvement*, (3) *Illicit Discharge Detection and Elimination*, (4) *Construction Site Runoff Control*, (5) *Post-Construction Runoff Control*, and (6) *Pollution Prevention/Good Housekeeping*.

Each MS4 must also comply with certain special conditions, including: *Water Quality Controls for Discharges to Impaired Water bodies*, *Consistency with Total Maximum Daily Load (TMDL) Requirements and Source Water Protection requirements*.

In June 2003, BTV filed a Notice of Intent for General Permit 3-9014. The Notice of Intent (NOI) included a narrative that outlined how BTV planned to comply with the six minimum control measures and special conditions noted above. Subsequently, BTV submitted an updated NOI and complete SWMP in April, 2008. Since submittal of the 2008 NOI, BTV has implemented or is in the process of implementing many of the Best Management Practices (BMP's) proposed under the six minimum measures.

In accordance with Section 5.3 Reporting, of General Permit 3-9014, BTV is required to submit an annual report discussing the status of compliance with the permit by April 1 of each year as noted above. Conditions set forth in Section 5.3 Reporting, are listed below with descriptions of the current status of each requirement noted in **bold type**.

The Vermont Department of Environmental Conservation (DEC) issued General Permit 3-9014 (2012) for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (MS4) on December 5, 2012. Designed to address pollution from stormwater runoff, the re-issued MS4 permit applies to thirteen municipalities and three institutional entities in the Lake Champlain watershed. Communities already subject to the 2003 MS4 General Permit include Burlington, Colchester, Essex, Essex Junction, Milton, Shelburne, South Burlington, Williston and Winooski, as well as the non-municipal or non-traditional entities including the Burlington International Airport, the University of Vermont, and the Vermont Agency of Transportation within the geographical boundaries of these municipalities.

In addition to the communities noted above, which need to meet the new requirements of the updated permit, the DEC has designated Rutland town and city, and St. Albans town and city as new MS4s subject to the requirements of the newly issued General Permit 3-9014 (2012). The primary additional condition of General Permit 3-9014 (2012) is the requirement to develop and submit a Flow Restoration Plan (FRP) for the portion of each stormwater – impaired watershed located within a permittee's boundaries.

General Permit 3-9014 (2012) requires permit holders to implement the required stormwater control and flow restoration practices as soon as possible, but no later than twenty years from December 5, 2012.

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2.2 REPORTING CONDITION 5.3.1.

The 2011 Annual Report includes the status of BTV's compliance with permit conditions, an assessment of the appropriateness of the identified BMP's, progress toward achieving the statutory goal of reducing the discharge of pollutants to the MEP, and the measurable goals for each of the minimum control measures and special conditions.

2.2.1 Six Minimum Control Measures

2.2.1.1 Minimum Measure #1 - Public Education and Outreach

1) BMP # 1: BTV will continue to work with the Chittenden County Regional Stormwater Education Program (RSEP) in the continuing pursuit to educate the public as it relates to water quality issues.

Status: **Implemented.** Appendix A contains the RSEP Annual Review for 2012-2013.

BTV has also provided an environmental page on the airport website. Links to the MS4 annual reports, the RSEP website and the City of Burlington stormwater management websites are included on the environmental page of the website. The environmental page address is <http://www.btv.aero/index.php/airport-guide/community-connection>

Timeframe: Not applicable.

Measurable Goals: Stormwater behavior changes in the public. This change will be assessed through a behavior survey conducted by the RSEP approximately every 5 years. The contractor responsible for conducting the survey will report findings to the RSEP. Appendix A contains the **RESP Annual Review for 2012-2013.**

Person(s) Responsible for BMP: The RSEP.

Rationale for Selection: With an ever increasing number of people utilizing the internet on a daily basis, a website is a cost effective way to reach the public and educate them about water quality related issues.

2.2.1.2 Minimum Measure #2 - Public Participation/Involvement

1) BMP # 1: The Chittenden County Regional Planning Commission (CCRPC) is in the process of creating a Chittenden County Stream Team (CCST). This Team will become the community outreach of the CCRPC related to stormwater issues.

Status: **In the fall of 2009, the MS4 communities began to explore a collaborative approach to fulfilling their Minimum Control Measure #2 (MCM) permit requirement. At the request of these MS4s, the Chittenden County Regional Planning Commission (CCRPC) applied for and received two grants totaling \$22,500. Using these grants, CCRPC assisted the MS4s**

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in developing a regional pilot project called the Chittenden County Stream Team (CCST). In its pilot year, CCST created a logo, launched a website and Facebook page, surveyed local residents, hosted a number of workshops, and completed a variety of local projects. The success of the pilot project led to the formal adoption of the CCST program in 2011 by eleven of the MS4 communities including Burlington, South Burlington, Williston, Winooski, Shelburne, Milton, Essex, Essex Junction, the University of Vermont, VTrans and the Burlington Airport. The program was put out to bid and awarded to the Winooski Natural Resources Conservation District (WNRCD), a regional entity focused on natural resource protection and management. Under the guidance of the participating MS4s, the WNRCD completed a second successful year in fulfilling MCM2 requirement.

In 2012, the CCST template evolved to focus activities on three target towns per year. This year, they included Shelburne, Winooski, and Milton. A targeted approach aims to strengthen relationships in select areas and inspire greater involvement and capacity by volunteers. Similarly, they focused volunteer opportunities on four main categories in order to increase quality. They include: stream clean ups, Adopt-a-Rain Garden programming, water quality monitoring, and flow monitoring. Numbers of participants in activities were low in two of the targeted towns for 2012, Milton and Shelburne, though their participation in outreach was high. The time spent in 2012 doing much-needed outreach and cultivating community connections is paying off for the planning period of 2013 as they have already heard from a number of contacts in both Milton and Shelburne about an interest in partnering on stream clean-ups, water quality monitoring and rain garden installations. Hence, they believe that town focus may be best achieved over a two-year rolling basis with the first year dedicated to general outreach and building connections and the second year allowing time to implement identified projects with a stronger volunteer base. Using this model, CCST would move into hands-on project phase with Milton and Shelburne in 2013 and increase outreach and community connections in Essex and Essex Junction in preparation for on-the-ground project implementation in those towns in 2014.

The Summary of Activities completed by the CCST for 2012 is contained in Appendix B.

Timeframe: Contingent on the goals and timeframes of those goals by the organization.

Measurable Goals: The program will engage citizens across an eight-town area in implementing programs to reduce non-point source pollution and stormwater volume at the local level to enable compliance by these MS4 permittees with MM#2. The program will utilize social networking tools to form a cadre of concerned citizens and professionals interested in hands-on activities to reduce the harmful effects of stormwater. The program will then organize a series of events and workshops to engage the Stream Team members and citizens at large in discussion and use of key Best Management Practices designed to address the negative effects of stormwater. The scope of services for the CCST is as follows:

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1. Regular Tasks:
 - Maintain Facebook page with regular postings;
 - Maintain website with up to date information on stormwater related workshops and projects sponsored by CCST as well as other partners;
 - Recruit and maintain volunteers from member communities, recruit neighborhood leaders to help spread the word and build esprit de corps by articulating the mission and vision of CCST, staying in touch with volunteers and keeping it fun!
 - Organize quarterly Steering Committee meetings and communicate with members between meetings.
 - Build relationships with and leverage expertise from other organizations working on water quality issues (i.e. Friends of the Winooski, Winooski Natural Resources Conservation District, Lake Champlain Committee, Green Up Day, Lake Champlain Basin Program) including potential joint sponsorship of workshops and projects.

2. Event-driven tasks
 - Host a Spring kickoff event to get neighborhood leaders in touch with one another and excited about the upcoming field season;
 - Hold outreach events at spring farmers' markets or other spring/early summer events in three municipalities per year to continue to reach new volunteers;
 - Complete three workshops or projects in each year with at least one event in each of the areas of the full members over the five year permit period;
 - Provide guidance to volunteers on techniques and materials they can use to host their own projects or workshops.

3. Annual Tasks
 - Prepare an annual summary including the number of events, number of participants and other measureable quantities showing how CCST met the MM-#2 requirements that members can use in their annual reports to Vermont ANR.

Person(s) Responsible for BMP: The CCST.

Rationale for Selection: The CCRPC is creating a program to support and extend the stormwater mitigation efforts in the County's impaired waters. The CCRPC believes that their pilot project implemented from Spring 2010 through Spring 2011 was a success. They feel they can carry that momentum with a designated stormwater program.

2.2.1.3 Minimum Measure #3 – Illicit Discharge Detection and Elimination

- 1) **BMP # 1:** A plan to detect and eliminate all illicit discharges will be developed, implemented and enforced as part of the SWMP.

Status: Completed. A complete SWMP was submitted in April, 2008 for Vermont Agency of Natural Resources (VT. ANR) review, and subsequently approved.

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Timeframe: The SWMP will be reviewed and updated (as required) by December 31st of each year.

Measurable Goals: Measurable goals of this BMP as outlined in the 2003 NOI, and status of these goals are as follows:

- 1) BTV will review and update the SWMP each year.

The Stormwater Pollution Prevention Plan (SWPPP), which is a component of the BTV's SWMP, was updated on April 1, 2012 to reflect re-authorization of General Permit 3-9003 (MSGP) dated August 4, 2012 and submitted for DEC review.

The SWPPP was again updated on April 1, 2013 to reflect the construction of one new BMP covered under Underground Injection Control (UIC) Permit #6-0117 (Aircraft Deicing Fluid Treatment System, 890 Ramp).

No major revisions to the SWMP other than updating the SWPPP were required for 2012.

- 2) BTV will complete outfall monitoring as outlined in the monitoring schedule contained in the SWPPP (see SWMP – Volume 2).

BTV has completed outfall monitoring in accordance with the SWPPP for the 2012 – 2013 de-icing season.

- 3) BTV will conduct annual trainings for airport staff and tenants.

BTV sent three (3) employees to the municipal employee training workshop held on September 27, 2012.

- *Person(s) Responsible for BMP:* The Burlington International Airport's illicit discharge detection and elimination plan, and each of the associated activities, will be implemented and overseen by the **Stormwater Management Program Manager**, who is responsible for the overall coordination of the storm water management program at the airport. BTV's Stormwater Management Program Manager is Heather Kendrew, P.E., Director of Maintenance, Engineering & Environmental Compliance.

Rationale for Selection: Development and implementation of a plan to detect and eliminate illicit discharges, as well as continuation of the ongoing BTV stormwater study program, are paramount to meeting and achieving the goals outlined in the MS4 General Permit.

- 2) **BMP # 2: Attendees at weekly BTV security badging training sessions will be provided educational information, provided by the BTV Operation's staff, on stormwater pollution awareness and water quality issues as they affect the BTV facility. In prior**

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MS4 Annual Reports, BMP #2 proposed to distribute an educational stormwater related survey/questionnaire to all employees and tenants during the annual security re-badging process. It has been determined that distribution of the survey/questionnaire is not feasible. The educational training on stormwater pollution awareness and water quality issues is proposed to fulfill BMP#2 goals in lieu of the survey/questionnaire.

Status: The educational information content including slide(s) and discussion have not been developed to date.

Timeframe: The educational information content including slide(s) and discussion will be developed by the end of the second quarter in 2013. The additional educational information will be incorporated into the training content beginning in July of 2013.

Measurable Goals: BTV will document the number of newly badged individuals who have received the educational information.

Person(s) Responsible for BMP: The Burlington International Airport's illicit discharge detection and elimination program and each of the associated activities will be implemented and overseen by the **Stormwater Management Program Manager**, who is responsible for the overall coordination of the storm water management program (SWMP) at the airport.

Rationale for Selection: Providing education on stormwater pollution awareness and water quality issues affords prospective employees and tenants with knowledge of how the BTV site is interconnected with the surrounding environment, and in what way can their actions have a direct impact on that environment.

2.2.1.4 Minimum Measure #4 – Construction Site Runoff Control

- 1) BMP # 1:** A plan to prevent or reduce pollutants in construction site runoff will be developed, implemented and enforced as part of the SWMP.

Status: Completed. The Construction Site Runoff Control Plan is contained in SWMP, Volume 1 – Section 5.

Timeframe: The SWMP will be reviewed and updated (as required) by December 31st of each year.

Measurable Goals: All new projects will be covered by the applicable State stormwater permit and/or conform to BTV policy.

BTV submitted two Construction General Permit 3-9020 applications during the reporting period. Authorization of Notice of Intent #3028-9020.5 for the Quarry Area Access Road project was issued on July 31, 2012 and Authorization of Notice of Intent

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#3028-9020.5 for the Aircraft Deicing Fluid Treatment System, 890 Ramp project was issued on July 31, 2012.

The Authorization of Notice of Intent, Notice of Authorization, and the NOI for both permits is contained in Appendix C for reference. Construction for the Quarry Area Access Road project has not begun to date. The Aircraft Deicing Fluid Treatment System, 890 Ramp project is complete with the exception of miscellaneous punch list items of work.

BTV did not conduct any projects under one acre that required reporting per BTV policy.

Person(s) Responsible for BMP: The Burlington International Airport's construction site runoff control plan and each of the associated policies will be implemented and overseen by the **Stormwater Management Program Manager**, who is responsible for the overall coordination of the storm water management program at the airport.

Rationale for Selection: Development and implementation of a plan to prevent or reduce pollutants in construction site runoff, including compliance with the ANR CGP, is the most effective way to ensure appropriate protection of waters of the state during construction activities.

2.2.1.5 Minimum Measure #5 – Post-Construction Runoff Control

- 1) BMP # 1:** A plan to prevent or reduce pollutants in post-construction site runoff will be developed, implemented and enforced as part of the SWMP.

Status: Completed. The Post-Construction Runoff Control Plan is contained in SWMP, Volume 1 – Section 6.

Timeframe: The SWMP will be reviewed and updated (as required) by December 31st of each year.

Measurable Goals: 1) All new projects will be covered by the applicable State stormwater permit and/or conform to BTV policy.

In order to identify projects that may require an operational Stormwater Discharge Permit, the following processes have been followed:

- Meet with VT ANR Stormwater Section personnel to discuss and review the project during design phase.**
- Follow direction or finding(s) provided by VT ANR Stormwater Section personnel as to whether or not an operational Stormwater Discharge Permit is required.**

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- Document direction or finding(s) in meeting notes or meeting minutes.

BTV submitted one operational Stormwater Discharge Permit application during the reporting period. Permit #3028-9015.1 for the Quarry Area Access Road project was issued on November 20, 2012.

See Appendix D for the approved permit for this project. Additionally, a copy of all previously issued operational Stormwater Discharge Permits is provided in Appendix E for reference purposes.

A Post-construction site inspection was completed in 2012 for the BTV Reconstruct, Mark & Groove Runway 15-33; AIP No. 3-50-005-2010 project (Permit #3028-INDS.1) as part of the annual permit inspections.

A Post-construction site inspection will be completed in 2012 for the following project:

- Aircraft Fluid Deicing Treatment System, 890 Ramp project (UIC #6-0117)

Person(s) Responsible for BMP: The Burlington International Airport's post construction runoff control plan and each of the associated policies will be implemented and overseen by **Stormwater Management Program Manager**, who is responsible for the overall coordination of the storm water management program at the airport.

Rationale for Selection: Development and implementation of a plan to prevent or reduce pollutants in post-construction site runoff, including compliance with the ANR Stormwater Rule, is the most effective way to ensure appropriate protection of waters of the state following the completion of construction activities.

2.2.1.6 Minimum Measure #6 – Pollution Prevention/Good Housekeeping

1) BMP # 1: A plan to ensure good housekeeping practices and pollution prevention will be developed, implemented and enforced as part of the SWMP. The plan will be developed and implemented such that is also meets the requirements of the SWPPP as outlined in the MSGP.

Status: **Completed.** The Burlington International Airport is a non-traditional MS4 and it has coverage under the NPDES Phase II Multi Sector General Permit (MSGP). One condition under the MSGP is development of a Storm Water Pollution Prevention Plan (SWPPP) that includes measures for pollution prevention and good housekeeping. BTV has included the SWPPP as Volume 2 of the SWMP to meet the requirements of this BMP. As previously discussed, the SWPPP was revised and updated by Stantec in 2011 and 2012.

Timeframe: The SWMP will be reviewed and updated (as required) by December 31st of each year.

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Measurable Goals: Annually, all catch basins will be inspected and cleaned if necessary. In the event that a catch basin with a standard sump depth of 24" is inspected and found to contain greater than 12" depth of sediment, a recommendation will be made to clean out the sump.

All catch basins were inspected in Summer/Fall 2012. A listing of catch basins requiring maintenance is presented in Appendix F.

The catch basins will be inspected again in late summer/early fall of 2013 and maintenance of these catch basins will be performed during the spring of 2013.

Person(s) Responsible for BMP: The Burlington International Airport's pollution prevention and good housekeeping plan and each of the associated policies will be implemented and overseen by **Stormwater Management Program Manager**, who is responsible for the overall coordination of the storm water management program at the airport.

Rationale for Selection: Development and implementation of a plan to prevent or reduce pollutants in site runoff and encourage good housekeeping and pollution prevention practices is the most effective way to ensure appropriate protection of waters of the state.

2.2.2 Special Conditions

2.2.2.1 Water Quality Controls for Discharges to Impaired Water Bodies

Under Section 3.1.2 of the MS4 General Permit, each MS4 discharging to a 303(d) listed (impaired) water body must control to the maximum extent practicable the discharge of the pollutants of concern to those waters, and be in compliance with all requirements of any applicable TMDL's or watershed general permits issued for those waters. BTV has discharges to two such water bodies: Potash Brook (4 outfalls) and Muddy Brook (1 outfall).

Potash Brook is principally impaired due to collected stormwater runoff. Pollutants of concern include sediment, pathogens, toxics, organic enrichment and temperature. As of April 1, 2012, a TMDL dated December 19, 2006 has been issued by ANR for Potash Brook. Once covered under the new MS4 permit (General Permit 3-9014 (2012) as issued on December 5, 2012), BTV will provide ANR with necessary information to determine waste load allocations for Potash Brook.

General Permit 3-9030 for Designated Discharges to the Bartlett, Centennial, Englesby, Morehouse, and Potash Brook Watersheds was issued on November 19, 2009 by ANR. However, the General Permit 3-9030 is not applicable to BTV since coverage is provided under the airport's existing MS4 General Permit and the Multi Sector General Permit (MSGP) permit.

The Vermont 2010 303(d) List of Waters, Part A – Impaired Surface Waters In Need Of TMDL dated August 2010 identifies the Muddy Brook from the mouth to 7 miles upstream as having pollutants including "Toxics, Nutrients, Temperature" and surface water quality problems including "Lack of Buffer, Land Development, Erosion". Stormwater runoff is not noted for the Muddy Brook as it is for the Potash Brook. No TMDL has been issued by ANR to date for Muddy Brook. In addition, no

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watershed general permit similar to that of General Permit 3-9030 has been issued to date for the Muddy Brook watershed.

2.2.2.2 Consistency with Total Maximum Daily Load (TMDL) Requirements

Under Section 3.1.3 of the MS4 General Permit, each MS4 must be consistent with applicable recommendations in the implementation section of the Lake Champlain TMDL and any future TMDLs for impaired waters affected by the MS4 established or approved by EPA pursuant to section 303(d) of the federal Clean Water Act. The Lake Champlain Phosphorous TMDL recommendations include: Erosion and Sediment Control at Construction Sites; Better Back Roads; and, Local Municipal Actions (including promotion of riparian buffers and impervious surface minimization).

A. Erosion and Sediment Control at Construction Sites:

This recommendation in the TMDL is designed to minimize the amount of soil erosion during construction such that minimal amounts of soil move offsite or into waters of the state. BTV activities are consistent with following this recommendation. **BTV will continue to comply with conditions of the MS4 General Permit, the Multi Sector General Permit, and the ANR General Permit for Stormwater Runoff from Construction Sites, all of which require substantial consideration for erosion prevention and sediment control.**

Goals of all future BTV development will include: fitting the development plan to the site where possible; preserving existing natural drainage ways and vegetation to the maximum extent practicable; minimizing areas of disturbed soils; minimizing the duration of soil disturbance; prevent erosion by managing stormwater runoff; and, installing sediment control measures to prevent sedimentation of receiving waters.

B. Better Back Roads:

This recommendation in the TMDL is designed to prevent sediment and phosphorous due to road erosion from polluting waters of the state. It includes planning that considers the potential and adequacy of infrastructure, upgrade of infrastructure to reduce flash flood susceptibility, and employing good driveway access standards and methods to reduce road length in developments.

Because of the nature of the BTV site, and the fact that its infrastructure consists primarily of paved roads, parking areas, runways, buildings and hangars, the “Better Back Roads” TMDL recommendation is not applicable.

C. Local Municipal Actions:

This recommendation in the TMDL is designed to encourage municipalities to develop additional policies and actions to protect riparian buffer zones and reduce the creation of impervious surfaces by new development.

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1) Riparian Buffers: The TMDL recommends adoption in the zoning bylaws of a minimum setback and buffer requirement on all rivers, streams, lakes and ponds. **Regulations for these buffers are controlled by the City of South Burlington Land Development Regulations. Because the airport is located in South Burlington, BTV is required to comply with these regulations.**

2) Impervious Surface Minimization: The TMDL recommends alteration or development of zoning codes and development standards which encourage minimization of impervious surfaces and use of open vegetated channels for stormwater runoff. **These regulations are controlled by the City of South Burlington. Because the airport is located in South Burlington, BTV is required to comply with these regulations.**

A majority of the BTV impervious area is treated by disconnection of impervious surfaces and infiltrated into the highly permeable sandy soils on-site. Any future development will be concurrent with the goals of maximizing overland flow, maximizing open space and minimizing impervious area to the maximum extent practicable.

2.2.2.3 Source Water Protection Requirements

Under Section 4.1.4 of the MS4 General Permit, if applicable, each MS4 must describe the process for consultation with and involvement of public water suppliers with source water protection zones within the MS4.

BTV has four such outfalls discharging to Potash Brook, which is in the headwaters of Shelburne Bay. Shelburne Bay is the drinking water watershed for the Champlain Water District (CWD). **BTV will notify CWD of future projects that discharge to Potash Brook and any future problems with existing outfalls that discharge to Potash Brook.**

2.2.2.4 Stormwater Management Program (SWMP)

As a permit condition, each MS4 must develop, implement and enforce a Stormwater Management Program (SWMP) designed to reduce the discharge of pollutants from the MS4. The SWMP will promote construction site runoff control, post construction runoff control and pollution prevention and good house keeping.

BTV has developed a SWMP to meet these requirements, and will continue to review and update the plan annually if necessary. The Stormwater Pollution Prevention Plan (SWPPP) was revised and updated by Stantec in 2011 and 2012. No major updates to the SWMP other than updating the SWPPP were required for 2012.

As a condition of the newly issued General Permit 3-9014 (2012) for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (MS4) as issued on December 5, 2012 BTV is required to update the SWMP and submit a new NOI with 270 days of the issue date or

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September 1, 2013. BTV will submit a new NOI requesting coverage under the newly issued General Permit 3-9014 (2012) and an updated SWMP by September 1, 2013 for DEC review.

2.3 REPORTING CONDITION 5.3.2.

The 2012 Annual Report will include results of information collected and analyzed, if any, during the reporting period, including monitoring data used to assess the success of the program at reducing the discharge of pollutants to the MEP.

The Stormwater Pollution Prevention Plan (SWPPP) was revised and updated by Stantec in 2011 and 2012. No major updates to the SWMP other than updating the SWPPP were required for 2012.

2.4 REPORTING CONDITION 5.3.3.

The 2012 Annual Report will include a summary of the stormwater activities BTV plans to undertake during the next reporting cycle including an implementation schedule.

Current status and anticipated schedules for the next reporting cycle are as follows:

- a) **BTV Taxiway 'B' Intersection Reconstruction Project**
 - **Construction of this project is anticipated to commence in 2013 depending on availability of FAA funding. The work for this project was included in the Construction General Permit application for the BTV Taxiway 'B', 'C', 'J', and 'G' Reconstruction projects. Since more than two years will have passed since authorization, re-application will be necessary prior to commencing construction activities. This project is also covered under a previously issued operational Stormwater Discharge Permit (ref. Permit No. 3028-INDS.A (Taxiways 'B', 'C', 'J', and 'G')).**

- b) **Vermont Aviation Center Project**
 - **This project remains in the design phase. Commencement of construction is contingent of funding and it is unknown at this time when funding will become available. Stormwater Discharge Permit #3028-INDS.2 and the Authorization of Notice of Intent #3028-9020.4 have both been issued for this project.**

- c) **New Aircraft Sewage Receiving Station Project**
 - **This project is currently in the design phase. Construction of this project is anticipated to commence in 2013 depending on availability of FAA funding. It is anticipated that the project will require a Construction General Permit and an operational Stormwater Discharge Permit.**

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- d) **890 Ramp Reconstruction Project**
- **This project is currently in the design phase. The first of several contracts for the overall 890 Ramp reconstruction project is anticipated to commence in 2013. . It is anticipated that the project will require a Construction General Permit. The overall project involves removing and replacing the existing portland cement concrete pavement on the approximately 10 acre cargo ramp. It is anticipated that the overall project, even though phased over several construction contracts, may require an operational Stormwater Discharge Permit since 20% of the redeveloped portion of the overall 890 Ramp may exceed 1 acre.**

See Appendix E for a copy of the above referenced permits.

2.5 REPORTING CONDITION 5.3.4.

The 2012 Annual Report will include proposed changes to BTV's SWMP, including changes to any BMP's or any identified goals that apply to the program elements.

BTV's SWPPP, including site map and listing of BMP's, were updated in 2011 for the following reasons:

- **To reflect re-authorization of General Permit 3-9003 (MSGP) dated August 4, 2011.**
- **To reflect the construction of several new BMP's covered under newly acquired operational Stormwater Discharge Permits since the previous SWPPP was developed in 2008.**

BTV's SWPPP, including site map and listing of BMP's, was updated in 2012 for the following reason:

- **To reflect the construction of one new BMP covered under Underground Injection Control (UIC) Permit #6-0117 (Aircraft Deicing Fluid Treatment System, 890 Ramp).**

No changes to the SWMP other than updating the SWPPP dated April 1, 2012 and as amended on April 1, 2013 were required for 2012.

2.6 REPORTING CONDITION 5.3.5.

The 2012 Annual Report will include notice that BTV is relying on another entity to satisfy some of the permit obligations, if applicable.

This condition is not applicable at this time.

End of BTV Annual Report for General Permit 3-9014 (MS-4) dated April 1, 2013

3.0 Annual Report for Operational Stormwater Discharge Permits

3.1 INTRODUCTION

As previously discussed, BTV currently is subject to six operational Stormwater Discharge Permits. The permits are listed as follows:

- Permit No. 3028-9010.A (BTV's Master Permit)
- Permit No. 1-1391 (South Apron Expansion)
- Permit No. 1-0839 (Redirect Airfield Drainage to North Outfall)
- Permit No. 3028-INDS.A (Taxiways 'B', 'C', 'J', and 'G')
- Permit No. 3028-INDS.1 (Reconstruct, Mark, and Groove Runway 15-33)
- Permit No. 3845-INDS.A (Heritage Flight)

Copies of each Stormwater Discharge Permit are presented in **Appendix E** for reference purposes.

In addition, BTV was issued a seventh operational Stormwater Discharge Permit on December 7th, 2011. Permit No. 3028-INDS.2 was issued for the Vermont Aviation Center project (formerly entitled the Burlington Aviation Technical Center and Vermont Flight Academy project). At this time, the project has not been constructed and therefore is not subject to permit reporting conditions at this time. A copy of the Stormwater Discharge Permit is presented in **Appendix E** for reference.

On November 20th, 2012 an eighth operational Stormwater Discharge Permit was issued to BTV for the Quarry Area Access Road project (#3028-9015.1 as contained in **Appendix D** for reference). At this time, the project has not been constructed and is therefore, also not yet subject to permit reporting conditions.

Permit Nos. 3028-9010.A, 3028-INDS.A, 3028-INDS.1, and 3845-INDS.A each require an annual inspection to evaluate and document the operation, maintenance, and condition of the stormwater collection, treatment, and control systems. Stantec personnel performed these annual on-site inspections during the period September 28 to October 29, 2012.

Permit Nos. 1-1391 and 1-0839 require quarterly inspections to be performed. Stantec personnel performed these quarterly on-site inspections on March 19, April 25, September 28, and October 22, 2012, as well as on February 26, 2013.

In accordance with the reporting conditions for each permit, an Annual Inspection Report is to be completed and submitted to the Vermont Agency of Natural Resources, DEC, Stormwater Program by April 1 of each year for review. Annual Inspection Reports are presented below.

In addition, a *Designer's Restatement of Compliance, General Permit 3-9010* is provided below for Permit No. 3028-9010.A (BTV's Master Permit) for DEC review.

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3.2 DESIGNER'S RESTATEMENT OF COMPLIANCE

Per conditions contained in Permit No. 3028-9010.A (BTV's Master Permit), every three years the permittee shall submit to the DEC a written statement signed by a designer that the stormwater collection, treatment and control system authorized is properly operating and maintained. A *Designer's Restatement of Compliance, General Permit 3-9010* is provided below for Permit No. 3028-9010.A (BTV's Master Permit) for DEC review.

3.2.1 Permit No. 3028-9010.A (BTV's Master Permit)

**DESIGNER'S RESTATEMENT OF
COMPLIANCE GENERAL PERMIT 3-9010**

For existing or previous permittees, authorized under a General Permit (3-9010 or 3-9015).
This form should be completed by a qualified stormwater designer

1. Permittee: **City of Burlington, Burlington International Airport**
2. Permit Number: **3028-9010.A**
3. Description/Name of Project: **Burlington International Airport's Master Permit
(S/N 001 thru S/N 009)**
4. Designer's Certification: Check only one of the following:

I hereby certify to the best of my knowledge and in the exercise of my reasonable professional judgment that:

The most recently issued authorization is valid and construction has not yet commenced. *If this is checked, this form may be completed by the Owner.

The stormwater collection, treatment and control system authorized by the permit described in #2 above is properly operating and maintained in accordance with the requirements of the permit.

The stormwater collection, treatment and control system authorized by the permit described in #2 above is not operating properly and/or is not being maintained in accordance with the requirements of the permit. If so, please describe the operation and maintenance failures in detail below:

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5. If you checked the third box in #4 above, please provide a description of the steps that will be taken to bring the stormwater system back into compliance with the permit, and provide a schedule for taking such actions. **Not Applicable**

6. The failure to properly operate and maintain the stormwater collection, treatment and control system authorized in the permit described in #2 above constitutes a violation of state law and is subject to potential enforcement action by the Department of Environmental Conservation. Please take immediate steps to correct all violations.



Signature of Designer 4/11/2013



Title

Douglas M. Campbell, P.E.
Stantec Consulting Services, Inc.
55 Green Mountain Drive
South Burlington, VT 05403

Ten (10) days of inspection between
October 9, 2012 and October 29, 2012

Print or Type Name and Address

Date of Inspection

**Please mail this form
to:**

DEC – Watershed Management Division, 1 National Life Drive, Main Building, 2nd Floor, Montpelier, VT 05620-3522

3.3 ANNUAL INSPECTION REPORT FORMS

Annual inspection report forms for the six operational stormwater discharge permits noted are presented below. When applicable, responses to the maintenance inspection checklist questions for each permit are included in **Appendix F** entitled *Field Inspection Maintenance Recommendations*.

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Permit No. 3028-9010.A (BTV's Master Permit)

Maintenance Inspection Checklist

Please consider the items listed below:

- Are there any vegetated areas that require mowing or other maintenance? N Y - *If yes, attach an explanation and schedule for mowing or maintenance to be completed.*
Response: See Appendix F for Additional Detail.
- Do catch basins need maintenance or sediment removed from sumps? N Y - *If yes, attach an explanation and schedule for maintenance or cleaning to be completed.*
Response: See Appendix F for Additional Detail.
- To the best of your knowledge, have there been any illicit discharges to the system (illicit discharges would include dumping of oil, gas, detergent, vehicle wash water, etc)? N Y - *If yes, attach an explanation and preventative measures taken.*
- Has there been any re-routing of stormwater to avoid the system? N Y - *If yes, attach an explanation.*
- Was any erosion noted during inspection (for example in areas of exposed soil in channels, outlets, or on pond berms)? N Y - *If yes, provide explanation and schedule for repair.*
Response: See Appendix F for Additional Detail.
- Was any accumulation of sediment noted in the basins, ponds, or constructed wetlands? N Y - *If yes, provide an explanation and schedule for cleaning.*
Response: See Appendix F for Additional Detail.
- Have you performed all of the inspection and maintenance requirements in the individual stormwater permit that was previously issued for your stormwater treatment and control system? N Y. *If there are inspection and maintenance requirements in the previous individual permit that are not listed above, please attach an explanation of them and provide a schedule for their completion or indicate that they have been completed.*
Response: See Appendix F for Additional Detail.
- Is there any additional maintenance or repairs needed at this time? N Y. *If yes, provide an explanation and schedule for maintenance or repairs to be completed.*
Response: See Appendix F for Additional Detail.

Stantec

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Permit No. 3028-9010.A (BTV's Master Permit)

Based on the above observations, and to the best of my knowledge, this report can serve as confirmation that the stormwater system is being maintained and operated in general conformance with the approved plans and the discharge permit referenced above, and that the stormwater system is in good operating condition.

Based on the above observations, and to the best of my knowledge, this report can serve as notification that the stormwater system is **not** being maintained and operated in general conformance with the approved plans and the discharge permit referenced above, and that the stormwater system is **not** in good operating condition. *(If checked, attach an explanation noting any deficiencies as well as a schedule for correction of the deficiencies. Note: Any deficiencies noted during inspection shall be corrected as soon as possible, but not later than sixty (60) days after detection).*



Signature of Inspector

Dwight D. Harrington
Senior Engineering Technician
Stantec Consulting Services, Inc.

Print or Type Name

(Ten Inspection Days Total)
October 9, 2012 - October 29, 2012

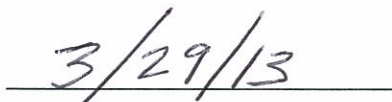
Date of Inspection



Signature of Authorized Representative

Heather Kendrew, P.E.
Director of Maintenance/Engineering/Environment
City of Burlington,
Burlington International Airport

Print or Type Name



Date

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3.3.2 Permit No. 1-1391 (South Apron Expansion)

ANNUAL INSPECTION REPORT FORM

Please refer to the Authorization to Discharge for specific information regarding the frequency of maintenance, inspection, and reporting requirements.

Permit Number:..... **1-1391**
Project Name: Burlington International Airport,
"South Apron Expansion"
Permittee Name: City of Burlington, Burlington International Airport
Address: 1200 Airport Drive, #1
South Burlington, VT 05403
Phone Number: 802-863-2874

Authorized Representative Name (if applicable):.. Heather Kendrew, P. E.
Director of Maintenance/Engineering/ Environment
Address: 1200 Airport Drive, #1
South Burlington, VT 05403
Phone Number: 802-863-2874

Inspector Name (if applicable):..... Dwight D. Harrington
Senior Engineering Technician
Address: Stantec Consulting Services, Inc.
55 Green Mountain Drive
South Burlington, VT 05403
Phone Number: 802-864-0223

Has ownership or project name changed since previous authorization? N Y - *If yes, attach explanation.*
Has amount of impervious area changed since previous authorization? N Y - *If yes, attach explanation.*

Maintenance Requirements

General Permit 3-9010 requires that a permittee shall at all times properly operate, inspect and maintain all stormwater treatment and control systems which are installed or used to maintain compliance with this general permit. The permittee shall continue to comply with the inspection and maintenance requirements set forth in the individual stormwater permit that was previously issued for the permittee's stormwater system, unless specifically modified by the Department in your Authorization to Discharge under General Permit 3-9010. The inspection and maintenance requirements in the previous individual permit were specifically tailored for the stormwater system. A copy of the previous individual stormwater permit can be obtained from the Stormwater Section by calling (802) 828-1535 or at stormwater@state.vt.us

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Permit No. 1-1391 (South Apron Expansion)

Maintenance Inspection Checklist

Please consider the items listed below:

- Are there any vegetated areas that require mowing or other maintenance? N Y - *If yes, attach an explanation and schedule for mowing or maintenance to be completed.*
Response: See Appendix F for Additional Detail.
- Do catch basins need maintenance or sediment removed from sumps? N Y - *If yes, attach an explanation and schedule for maintenance or cleaning to be completed.*
Response: See Appendix F for Additional Detail.
- To the best of your knowledge, have there been any illicit discharges to the system (illicit discharges would include dumping of oil, gas, detergent, vehicle wash water, etc)? N Y - *If yes, attach an explanation and preventative measures taken.*
- Has there been any re-routing of stormwater to avoid the system? N Y - *If yes, attach an explanation.*
- Was any erosion noted during inspection (for example in areas of exposed soil in channels, outlets, or on pond berms)? N Y - *If yes, provide explanation and schedule for repair.*
- Was any accumulation of sediment noted in the basins, ponds, or constructed wetlands? N Y - *If yes, provide an explanation and schedule for cleaning.*
- Have you performed all of the inspection and maintenance requirements in the individual stormwater permit that was previously issued for your stormwater treatment and control system? N Y. *If there are inspection and maintenance requirements in the previous individual permit that are not listed above, please attach an explanation of them and provide a schedule for their completion or indicate that they have been completed.*
Response: See Appendix F for Additional Detail.
- Is there any additional maintenance or repairs needed at this time? N Y. *If yes, provide an explanation and schedule for maintenance or repairs to be completed.*
Response: See Appendix F for Additional Detail.

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Permit No. 1-1391 (South Apron Expansion)

Based on the above observations, and to the best of my knowledge, this report can serve as confirmation that the stormwater system **is** being maintained and operated in general conformance with the approved plans and the discharge permit referenced above, and that the stormwater system is in good operating condition.

Based on the above observations, and to the best of my knowledge, this report can serve as notification that the stormwater system **is not** being maintained and operated in general conformance with the approved plans and the discharge permit referenced above, and that the stormwater system is **not** in good operating condition. *(If checked, attach an explanation noting any deficiencies as well as a schedule for correction of the deficiencies. Note: Any deficiencies noted during inspection shall be corrected as soon as possible, but not later than sixty (60) days after detection).*

Quarterly on-site inspections were performed on March 19, April 25, September 28, and October 22, 2012, as well as on February 26, 2013.



Signature of Inspector

Date of Inspection

Dwight D. Harrington
Senior Engineering Technician
Stantec Consulting Services, Inc.

Print or Type Name



Signature of Authorized Representative

3/29/13

Date

Heather Kendrew, P.E.
Director of Maintenance/Engineering/Environment
City of Burlington,
Burlington International Airport

Print or Type Name

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3.3.3 Permit 1-0839 (Redirect Airfield Drainage to North Outfall)

ANNUAL INSPECTION REPORT FORM

Please refer to the Authorization to Discharge for specific information regarding the frequency of maintenance, inspection, and reporting requirements.

Permit Number:..... **1-0839**
Project Name: Burlington International Airport, Redirect Airport
Redirect Airport Drainage to North Outfall and
Taxiway A Improvements
Permittee Name: City of Burlington, Burlington International Airport
Address: 1200 Airport Drive, #1
South Burlington, VT 05403
Phone Number: 802-863-2874

Authorized Representative Name (if applicable):.. Heather Kendrew, P. E.
Director of Maintenance/Engineering/ Environment
Address: 1200 Airport Drive, #1
South Burlington, VT 05403
Phone Number: 802-863-2874

Inspector Name (if applicable):..... Dwight D. Harrington
Senior Engineering Technician
Address: Stantec Consulting Services, Inc.
55 Green Mountain Drive
South Burlington, VT 05403
Phone Number: 802-864-0223

Has ownership or project name changed since previous authorization? N Y - *If yes, attach explanation.*

Has amount of impervious area changed since previous authorization? N Y - *If yes, attach explanation.*

Maintenance Requirements

General Permit 3-9010 requires that a permittee shall at all times properly operate, inspect and maintain all stormwater treatment and control systems which are installed or used to maintain compliance with this general permit. The permittee shall continue to comply with the inspection and maintenance requirements set forth in the individual stormwater permit that was previously issued for the permittee’s stormwater system, unless specifically modified by the Department in your Authorization to Discharge under General Permit 3-9010. The inspection and maintenance requirements in the previous individual permit were specifically tailored for the stormwater system. A copy of the previous individual stormwater permit can be obtained from the Stormwater Section by calling (802) 828-1535 or at stormwater@state.vt.us

Permit No. 1-0839 (Redirect Airfield Drainage to North Outfall)

Maintenance Inspection Checklist

Please consider the items listed below:

- Are there any vegetated areas that require mowing or other maintenance? N Y - *If yes, attach an explanation and schedule for mowing or maintenance to be completed.*
Response: See Appendix F for Additional Detail.
- Do catch basins need maintenance or sediment removed from sumps? N Y - *If yes, attach an explanation and schedule for maintenance or cleaning to be completed.*
- To the best of your knowledge, have there been any illicit discharges to the system (illicit discharges would include dumping of oil, gas, detergent, vehicle wash water, etc)? N Y - *If yes, attach an explanation and preventative measures taken.*
- Has there been any re-routing of stormwater to avoid the system? N Y - *If yes, attach an explanation.*
- Was any erosion noted during inspection (for example in areas of exposed soil in channels, outlets, or on pond berms)? N Y - *If yes, provide explanation and schedule for repair.*
Response: See Appendix F for Additional Detail.
- Was any accumulation of sediment noted in the basins, ponds, or constructed wetlands? N Y - *If yes, provide an explanation and schedule for cleaning.*
- Have you performed all of the inspection and maintenance requirements in the individual stormwater permit that was previously issued for your stormwater treatment and control system? N Y. *If there are inspection and maintenance requirements in the previous individual permit that are not listed above, please attach an explanation of them and provide a schedule for their completion or indicate that they have been completed.*
- Is there any additional maintenance or repairs needed at this time? N Y. *If yes, provide an explanation and schedule for maintenance or repairs to be completed.*
Response: See Appendix F for Additional Detail.

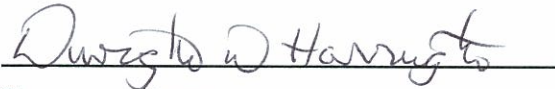
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Permit No. 1-0839 (Redirect Airfield Drainage to North Outfall)

Based on the above observations, and to the best of my knowledge, this report can serve as confirmation that the stormwater system **is** being maintained and operated in general conformance with the approved plans and the discharge permit referenced above, and that the stormwater system is in good operating condition.

Based on the above observations, and to the best of my knowledge, this report can serve as notification that the stormwater system **is not** being maintained and operated in general conformance with the approved plans and the discharge permit referenced above, and that the stormwater system is **not** in good operating condition. *(If checked, attach an explanation noting any deficiencies as well as a schedule for correction of the deficiencies. Note: Any deficiencies noted during inspection shall be corrected as soon as possible, but not later than sixty (60) days after detection).*

Quarterly on-site inspections were performed on March 19, April 25, September 28, and October 22, 2012, as well as on February 26, 2013.

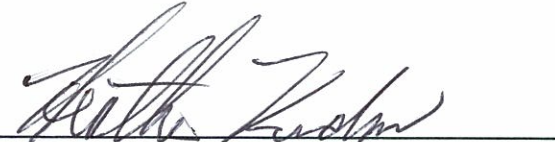


Signature of Inspector

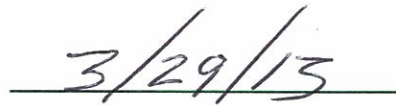
Date of Inspection

Dwight D. Harrington
Senior Engineering Technician
Stantec Consulting Services, Inc.

Print or Type Name



Signature of Authorized Representative



Date

Heather Kendrew, P.E.
Director of Maintenance/Engineering/Environment
City of Burlington,
Burlington International Airport

Print or Type Name

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3.3.4 Permit No. 3028-INDS.A (Taxiways 'B', 'C', 'J', and 'G')

ANNUAL INSPECTION REPORT FORM

Please refer to the Authorization to Discharge for specific information regarding the frequency of maintenance, inspection, and reporting requirements.

Permit Number:..... **3028-INDS.A**
Project Name: Burlington International Airport,
Reconstructed Taxiways 'B' and 'C' and Relocated
Taxiway 'J' and Newly Constructed Taxiway 'G'
Permittee Name: City of Burlington, Burlington International Airport
Address: 1200 Airport Drive, #1
South Burlington, VT 05403
Phone Number: 802-863-2874

Authorized Representative Name (if applicable):.. Heather Kendrew, P. E.
Director of Maintenance/Engineering/ Environment
Address: 1200 Airport Drive, #1
South Burlington, VT 05403
Phone Number: 802-863-2874

Inspector Name (if applicable):..... Dwight D. Harrington
Senior Engineering Technician
Address: Stantec Consulting Services, Inc.
55 Green Mountain Drive
South Burlington, VT 05403
Phone Number: 802-864-0223

Has ownership or project name changed since previous authorization? N Y - *If yes, attach explanation.*

Has amount of impervious area changed since previous authorization? N Y - *If yes, attach explanation.*

Maintenance Requirements

General Permit 3-9010 requires that a permittee shall at all times properly operate, inspect and maintain all stormwater treatment and control systems which are installed or used to maintain compliance with this general permit. The permittee shall continue to comply with the inspection and maintenance requirements set forth in the individual stormwater permit that was previously issued for the permittee's stormwater system, unless specifically modified by the Department in your Authorization to Discharge under General Permit 3-9010. The inspection and maintenance requirements in the previous individual permit were specifically tailored for the stormwater system. A copy of the previous individual stormwater permit can be obtained from the Stormwater Section by calling (802) 828-1535 or at stormwater@state.vt.us

**Burlington International Airport
Annual Report for General Permit 3-9014 (MS-4) and
Annual Report for Operational Stormwater Discharge Permits
April 1, 2013**

Permit No. 3028-INDS.A (Taxiways 'B', 'C', 'J', and 'G')

Maintenance Inspection Checklist

Please consider the items listed below:

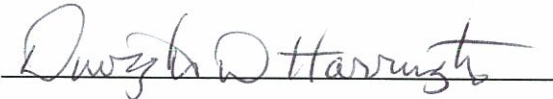
- Are there any vegetated areas that require mowing or other maintenance? N Y - *If yes, attach an explanation and schedule for mowing or maintenance to be completed.*
- Do catch basins need maintenance or sediment removed from sumps? N Y - *If yes, attach an explanation and schedule for maintenance or cleaning to be completed.*
Response: See Appendix F for Additional Detail.
- To the best of your knowledge, have there been any illicit discharges to the system (illicit discharges would include dumping of oil, gas, detergent, vehicle wash water, etc)? N Y - *If yes, attach an explanation and preventative measures taken.*
- Has there been any re-routing of stormwater to avoid the system? N Y - *If yes, attach an explanation.*
- Was any erosion noted during inspection (for example in areas of exposed soil in channels, outlets, or on pond berms)? N Y - *If yes, provide explanation and schedule for repair.*
- Was any accumulation of sediment noted in the basins, ponds, or constructed wetlands? N Y - *If yes, provide an explanation and schedule for cleaning.*
- Have you performed all of the inspection and maintenance requirements in the individual stormwater permit that was previously issued for your stormwater treatment and control system? N Y. *If there are inspection and maintenance requirements in the previous individual permit that are not listed above, please attach an explanation of them and provide a schedule for their completion or indicate that they have been completed.*
Response: See Appendix F for Additional Detail.
- Is there any additional maintenance or repairs needed at this time? N Y. *If yes, provide an explanation and schedule for maintenance or repairs to be completed.*

**Burlington International Airport
Annual Report for General Permit 3-9014 (MS-4) and
Annual Report for Operational Stormwater Discharge Permits
April 1, 2013**

Permit No. 3028-INDS.A (Taxiways 'B', 'C', 'J', and 'G')

Based on the above observations, and to the best of my knowledge, this report can serve as confirmation that the stormwater system **is** being maintained and operated in general conformance with the approved plans and the discharge permit referenced above, and that the stormwater system is in good operating condition.

Based on the above observations, and to the best of my knowledge, this report can serve as notification that the stormwater system **is not** being maintained and operated in general conformance with the approved plans and the discharge permit referenced above, and that the stormwater system is **not** in good operating condition. *(If checked, attach an explanation noting any deficiencies as well as a schedule for correction of the deficiencies. Note: Any deficiencies noted during inspection shall be corrected as soon as possible, but not later than sixty (60) days after detection).*




Signature of Inspector

(Three Inspection Days Total)
October 17, 2012 and October 26, 2012

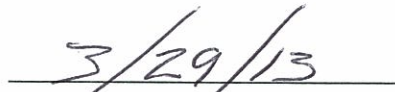
Date of Inspection

Dwight D. Harrington
Senior Engineering Technician
Stantec Consulting Services, Inc.

Print or Type Name



Signature of Authorized Representative



Date

Heather Kendrew, P.E.
Director of Maintenance/Engineering/Environment
City of Burlington,
Burlington International Airport

Print or Type Name

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**Burlington International Airport
Annual Report for General Permit 3-9014 (MS-4) and
Annual Report for Operational Stormwater Discharge Permits
April 1, 2013**

3.3.5 Permit No. 3028-INDS.1 (Reconstruct, Mark & Groove Runway 15-33)

ANNUAL INSPECTION REPORT FORM

Please refer to the Authorization to Discharge for specific information regarding the frequency of maintenance, inspection, and reporting requirements.

Permit Number:..... **3028-INDS.1**
Project Name: Burlington International Airport
BTV Reconstruct, Mark & Groove Runway 15-33;
AIP No. 3-50-0005-XX
Permittee Name: City of Burlington, Burlington International Airport
Address: 1200 Airport Drive, #1
South Burlington, VT 05403
Phone Number: 802-863-2874

Authorized Representative Name (if applicable):.. Heather Kendrew, P. E.
Director of Maintenance/Engineering/ Environment
Address: 1200 Airport Drive, #1
South Burlington, VT 05403
Phone Number: 802-863-2874

Inspector Name (if applicable):..... Dwight D. Harrington
Senior Engineering Technician
Address: Stantec Consulting Services, Inc.
55 Green Mountain Drive
South Burlington, VT 05403
Phone Number: 802-864-0223

Has ownership or project name changed since previous authorization? N Y - *If yes, attach explanation.*

Has amount of impervious area changed since previous authorization? N Y - *If yes, attach explanation.*

Maintenance Requirements

General Permit 3-9010 requires that a permittee shall at all times properly operate, inspect and maintain all stormwater treatment and control systems which are installed or used to maintain compliance with this general permit. The permittee shall continue to comply with the inspection and maintenance requirements set forth in the individual stormwater permit that was previously issued for the permittee’s stormwater system, unless specifically modified by the Department in your Authorization to Discharge under General Permit 3-9010. The inspection and maintenance requirements in the previous individual permit were specifically tailored for the stormwater system. A copy of the previous individual stormwater permit can be obtained from the Stormwater Section by calling (802) 828-1535 or at stormwater@state.vt.us

**Burlington International Airport
Annual Report for General Permit 3-9014 (MS-4) and
Annual Report for Operational Stormwater Discharge Permits
April 1, 2013**

Permit No. 3028-INDS.1 (Reconstruct, Mark & Groove Runway 15-33)

Maintenance Inspection Checklist

Please consider the items listed below:

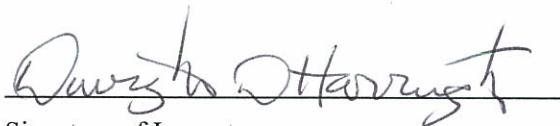
- Are there any vegetated areas that require mowing or other maintenance? N Y - *If yes, attach an explanation and schedule for mowing or maintenance to be completed.*
Response: See Appendix F for Additional Detail.
- Do catch basins need maintenance or sediment removed from sumps? N Y - *If yes, attach an explanation and schedule for maintenance or cleaning to be completed.*
Response: See Appendix F for Additional Detail.
- To the best of your knowledge, have there been any illicit discharges to the system (illicit discharges would include dumping of oil, gas, detergent, vehicle wash water, etc)? N Y - *If yes, attach an explanation and preventative measures taken.*
- Has there been any re-routing of stormwater to avoid the system? N Y - *If yes, attach an explanation.*
- Was any erosion noted during inspection (for example in areas of exposed soil in channels, outlets, or on pond berms)? N Y - *If yes, provide explanation and schedule for repair.*
- Was any accumulation of sediment noted in the basins, ponds, or constructed wetlands? N Y - *If yes, provide an explanation and schedule for cleaning.*
Response: See Appendix F for Additional Detail.
- Have you performed all of the inspection and maintenance requirements in the individual stormwater permit that was previously issued for your stormwater treatment and control system? N Y. *If there are inspection and maintenance requirements in the previous individual permit that are not listed above, please attach an explanation of them and provide a schedule for their completion or indicate that they have been completed.*
Response: See Appendix F for Additional Detail.
- Is there any additional maintenance or repairs needed at this time? N Y. *If yes, provide an explanation and schedule for maintenance or repairs to be completed.*
Response: See Appendix F for Additional Detail.

**Burlington International Airport
Annual Report for General Permit 3-9014 (MS-4) and
Annual Report for Operational Stormwater Discharge Permits
April 1, 2013**

Permit No. 3028-INDS.1 (Reconstruct, Mark & Groove Runway 15-33)

Based on the above observations, and to the best of my knowledge, this report can serve as confirmation that the stormwater system **is** being maintained and operated in general conformance with the approved plans and the discharge permit referenced above, and that the stormwater system is in good operating condition.

Based on the above observations, and to the best of my knowledge, this report can serve as notification that the stormwater system **is not** being maintained and operated in general conformance with the approved plans and the discharge permit referenced above, and that the stormwater system is **not** in good operating condition. *(If checked, attach an explanation noting any deficiencies as well as a schedule for correction of the deficiencies. Note: Any deficiencies noted during inspection shall be corrected as soon as possible, but not later than sixty (60) days after detection).*



Signature of Inspector

(Seven Inspection Days Total)
October 9, 2012 - October 26, 2012

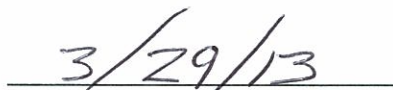
Date of Inspection

Dwight D. Harrington
Senior Engineering Technician
Stantec Consulting Services, Inc.

Print or Type Name



Signature of Authorized Representative



Date

Heather Kendrew, P.E.
Director of Maintenance/Engineering/Environment
City of Burlington,
Burlington International Airport

Print or Type Name

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**Burlington International Airport
Annual Report for General Permit 3-9014 (MS-4) and
Annual Report for Operational Stormwater Discharge Permits
April 1, 2013**

Permit No. 3845-INDS.A (Heritage Flight)

Maintenance Inspection Checklist

Please consider the items listed below:

- Are there any vegetated areas that require mowing or other maintenance? N Y - *If yes, attach an explanation and schedule for mowing or maintenance to be completed.*
Response: See Appendix F for Additional Detail.
- Do catch basins need maintenance or sediment removed from sumps? N Y - *If yes, attach an explanation and schedule for maintenance or cleaning to be completed.*
- To the best of your knowledge, have there been any illicit discharges to the system (illicit discharges would include dumping of oil, gas, detergent, vehicle wash water, etc)? N Y - *If yes, attach an explanation and preventative measures taken.*
- Has there been any re-routing of stormwater to avoid the system? N Y - *If yes, attach an explanation.*
- Was any erosion noted during inspection (for example in areas of exposed soil in channels, outlets, or on pond berms)? N Y - *If yes, provide explanation and schedule for repair.*
- Was any accumulation of sediment noted in the basins, ponds, or constructed wetlands? N Y - *If yes, provide an explanation and schedule for cleaning.*
- Have you performed all of the inspection and maintenance requirements in the individual stormwater permit that was previously issued for your stormwater treatment and control system? N Y. *If there are inspection and maintenance requirements in the previous individual permit that are not listed above, please attach an explanation of them and provide a schedule for their completion or indicate that they have been completed.*
- Is there any additional maintenance or repairs needed at this time? N Y. *If yes, provide an explanation and schedule for maintenance or repairs to be completed.*
Response: See Appendix F for Additional Detail.

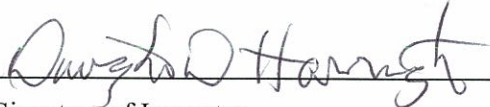
Stantec

**Burlington International Airport
Annual Report for General Permit 3-9014 (MS-4) and
Annual Report for Operational Stormwater Discharge Permits
April 1, 2013**

Permit No. 3845-INDS.A (Heritage Flight)

Based on the above observations, and to the best of my knowledge, this report can serve as confirmation that the stormwater system **is** being maintained and operated in general conformance with the approved plans and the discharge permit referenced above, and that the stormwater system is in good operating condition.

Based on the above observations, and to the best of my knowledge, this report can serve as notification that the stormwater system **is not** being maintained and operated in general conformance with the approved plans and the discharge permit referenced above, and that the stormwater system is **not** in good operating condition. *(If checked, attach an explanation noting any deficiencies as well as a schedule for correction of the deficiencies. Note: Any deficiencies noted during inspection shall be corrected as soon as possible, but not later than sixty (60) days after detection).*



Signature of Inspector

(Two Inspection Days Total)
October 9, 2012 and October 23, 2012

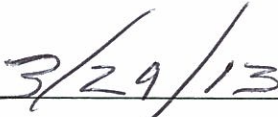
Date of Inspection

Dwight D. Harrington
Senior Engineering Technician
Stantec Consulting Services, Inc.

Print or Type Name



Signature of Authorized Representative



Date

Heather Kendrew, P.E.
Director of Maintenance/Engineering/Environment
City of Burlington,
Burlington International Airport

Print or Type Name

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BURLINGTON INTERNATIONAL AIRPORT

**Annual Report for General Permit
3-9014 (MS-4)
and
Annual Reports for
Operational Stormwater Discharge Permits**

April 1, 2013

Appendix A

**Regional Stormwater Education
Program Annual Review 2012 – 2013**

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Chittenden County Regional Stormwater Educational Program Annual Review: 2012- 2013 Program Year Summary

The 2012-2013 program year (March 1, 2012 through February 28, 2013) of the Regional Stormwater Educational Program (RSEP) maintained a consistent stream of public education and outreach. This year's program focused on using paid media and a drive to website to educate the public about the effects of stormwater runoff on water bodies and the simple steps that the public can take to reduce these effects.

As in previous years, key messages of the campaign have remained the same, and include stormwater runoff and stormwater systems education, and tips on prevention methods related to fertilizer/chemicals. The focus of this program year was to reduce fertilizer use and runoff through the use of soil testing to determine if fertilizer was needed.

Marketing Partners, Inc. continues to work on a contract basis with RSEP to implement the public outreach campaign. RSEP Communications Plan goals achieved in 2012-2013 have included:

- The 2012 program year spring media campaign. The media campaign included four weeks of radio spots on VPR, WCPV, and WEZF; four weeks of cable TV spots in the Chittenden County area; four weeks of spots during local news on broadcast TV; print ads in member community newspapers; and three weeks of advertising on Front Porch Forum (an opt-in community e-newsletter). The spring 2012 media expenditure totaled \$19,766 (approximately the same spending as spring 2011).
- The Fall 2012 media campaign. Another paid media campaign was completed throughout Chittenden County in fall of 2012 that consisted of two weeks of print ads in member community newspapers; two weeks of radio spots on VPR, WCPV, and WEZF; two weeks of cable TV spots in the Chittenden County area; and two weeks of placement on Front Porch Forum. Broadcast television was eliminated to increase online sponsorships. The fall 2012 ad campaign budget totaled \$10,000. This also was approximately the same budget for fall media compared to fall 2011.
- Extension of the "Soil Test" campaign in partnership with the University of Vermont (UVM) Agricultural Testing Lab to provide residents within the MS4 a free soil test. The ad campaigns drove people to the RSEP website where 226 eligible residents downloaded a printable coupon during this program year. UVM continues to track the number of coupons redeemed during paid media campaigns running in the spring and fall. Thirty-nine tests were submitted (an increase of three over 2011-2012).
- Increased website traffic to the soil test page by more than 36% to 803 visits (although overall website visits remained steady).
- Continued compiling of website visibility tracking data and coupon download and redemptions in order to monitor outreach effectiveness.

Gross Impressions/Audience Reach, 2011-2012 Program Year Summary Chittenden County Regional Stormwater Educational Program

1. Unpaid Media (Public Relations)

Program year 2012-2013 did not include any public relations efforts. The Champlain Water District *Water Quality Report 2012* included a reference to RSEP for stormwater mitigation information.

2. Total Paid Media Impressions, 2012 (Spring and Fall campaigns)

The 2012-2013 paid media budget was \$31,000 with \$29,766 expended, the same as the prior year. The same media strategies of increased online sponsorship in addition to commercial advertising were used with increased frequency through online sponsorships. This year's paid media schedule resulted in an increase of 17% in gross impressions, as delineated below:

Print: 1,325,832*
 Broadcast TV: 90,840 (*Nielsen households using television, Chittenden County, program ratings*)
 Cable TV: 77,220 (*Nielsen program ratings by cable market penetration*)
 Radio: 383,912 (*based on Arbitron ratings of adult listeners in Chittenden County, M-F 6a – 7p*)
 Online: 234,000 (*based on circulation reported by media outlet*)
Total gross impressions: 2,111,804

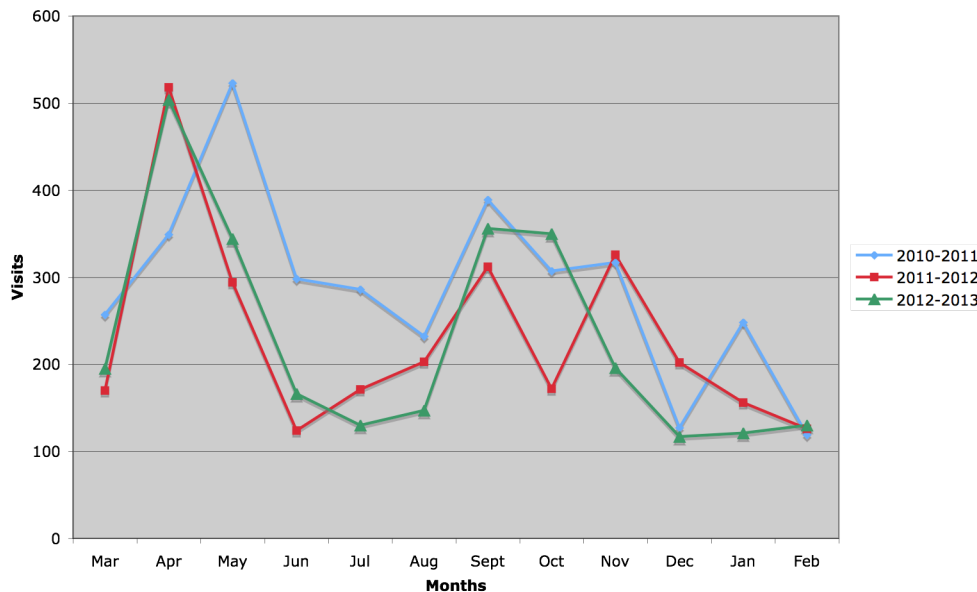
**Impressions are based on circulation as reported by outlet and an average readership of 2.34 per issue for community newspapers. An impression is a measure of the number of times an ad is displayed*

3. Website

Below is the website visitor information for 2012-2013, as compared to the three most recent preceding years. The program year had 2,756 visits, about the same number of visits as 2011-2012; ~~however, page views per visit and time on site increased.~~ Website traffic increases/spikes are in conjunction with paid media campaigns.

Smartwaterways.org Website Visits

3-Year Comparison



NOTE: Data from Google Analytics for www.smartwaterways.org.

BURLINGTON INTERNATIONAL AIRPORT

**Annual Report for General Permit
3-9014 (MS-4)
and
Annual Reports for
Operational Stormwater Discharge Permits**

April 1, 2013

Appendix B

**Minimum Control Measure (MCM) #2,
Chittenden County Stream Team,
Summary of Activities: 2012**

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MCM #2

Chittenden County Stream Team

Summary of Activities: January-December 2012

Prepared by Winooski Natural Resources Conservation District

In the fall of 2009, the MS4 communities began to explore collaborative approach to fulfilling their Minimum Control Measure #2 permit requirement. At the request of these MS4s, the Chittenden County Regional Planning Commission (CCRPC) applied for and received two grants totaling \$22,500. Using these grants, CCRPC assisted the MS4s in developing a regional pilot project called the Chittenden County Stream Team (CCST). In its pilot year, CCST created a logo, launched a website and Facebook page, surveyed local residents, hosted a number of workshops, and completed a variety of local projects. The success of the pilot project lead to the formal adoption of the CCST program in 2011 by eleven of the MS4 communities including Burlington, South Burlington, Williston, Winooski, Shelburne, Milton, Essex, Essex Junction, the University of Vermont, VTrans and the Burlington Airport. The program was put out to bid and awarded to the Winooski Natural Resources Conservation District (WNRCD), a regional entity focused on natural resource protection and management. Under the guidance of the participating MS4s, the WNRCD completed a second successful year in fulfilling MCM2 requirement.

In 2012, the CCST template evolved to focus activities on three target towns per year. This year, they included Shelburne, Winooski, and Milton. A targeted approach aims to strengthen relationships in select areas and inspire greater involvement and capacity by volunteers. Similarly, we focused volunteer opportunities on four main categories in order to increase quality. They include: stream clean ups, Adopt-a-Rain Garden programming, water quality monitoring, and flow monitoring. Numbers of participants in activities were low in two of the targeted towns for 2012, Milton and Shelburne, though their participation in outreach was high. The time spent in 2012 doing much-needed outreach and cultivating community connections is paying off for the planning period of 2013 as we have already heard from a number of contacts in both Milton and Shelburne about an interest in partnering on stream clean-ups, water quality monitoring and rain garden installations. Hence, we believe that town focus may be best achieved over a two-year rolling basis with the first year dedicated to general outreach and building connections and the second year allowing time to implement identified projects with a stronger volunteer base. Using this model, CCST would move into to hands-on project phase with Milton and Shelburne in 2013 and increase outreach and community connections in Essex, Essex Junction and Williston in preparation for on-the-ground project implementation in those towns in 2014.

This report summarizes CCST activities in the 2012 calendar year. Demographic data about participant numbers from each town is presented in tabular form following the narrative. It is important to note that recorded numbers of participants refer to those who chose to sign up for our mailing list and give identifying information. In many cases, CCST events involved greater numbers of participants that could not be tracked. Methods to increase greater participant tracking will be employed in 2013 and will include proven methods such as gift incentives and mapping exercises where event participants who do not wish to sign up for a mailing list can identify their “watershed address” on a large map with stickers.

Social Media

Facebook – Facebook is just one of the tools that CCST uses to disseminate information to the public about workshops, events, and projects. It is updated on a regular basis and continues to grow at a steady pace. During the latter half of 2012, the number of ‘likes’ received on the CCST Facebook page grew to 66, a 29% increase from 2011. The most represented group of followers is women between the ages of 35-44. As indicated in the attached summary table, the greatest percentage of these likes came from Burlington residents.

CCST Website –After a redesign in 2011, the website was used extensively in 2012 as a means to communicate with the public about general CCST information, impaired watershed locations, upcoming events and workshops, volunteer opportunities, and helpful resources. Of particular note in 2012 was the use of the website for sharing citizen-gathered water quality data – an important method for continued community involvement. Similar to the Facebook page, the website is updated on a regular basis. In total, there were 802 website visits from 557 unique visitors with an average amount of time spent on the site at 3 minutes 28 seconds. People viewed an average of 3.75 pages on each visit with a spike in overall visits following events and workshops. In the summer months of June, July and August the site received 186 views with 109 (58.6%) of them coming from new visitors.

Because we began gathering this data in December of 2011, we cannot compare this year’s web traffic with a previous year. However, it is notable that the total number of visitors to the site in December 2011 was just 15, compared to 45 in December 2012, a three-fold increase.

E-News – Quarterly email newsletters to our growing mailing list is another way by which CCST connects with the public. Emails include regional news, information about upcoming events and volunteer opportunities, and tips and resources. In 2012 the mailing list increased from 170 to 244 individuals. CCST E-News open rate is high 40-45%. The typical open rate for similar industries is between 20-25% according to research completed by Mail chimp.

Organizational Partnerships – One stated goal of CCST is to partner with other community organizations in order to broaden and strengthen our community ties. Some strong partnerships were forged this year, including a collaboration with the Winooski School District and the Department of Corrections who have agreed to take a leadership role in rain garden maintenance near their facilities. A local landscaper has agreed to donate plants when available to our rain garden efforts. In 2012 alone, Ann Pearce provided CCST with dozens of iris, lobelia and native grasses. Additionally, the Lake Champlain Land Trust and Lake Champlain Sea Grant pledged their support in on-the-ground projects with CCST in the form of staff and volunteer time and planning.

Projects

Chamberlin School Rain Garden II – After a successful rain garden installation at the Chamberlin School in South Burlington in 2011, fourth grade teacher Chris Provost was keen to install another one with his incoming class. In September, over 40 South Burlington fourth graders, four volunteers and two teachers removed soil from a space adjacent to the school that receives roof runoff. Then the students filled the area in with more sponge-like sand, compost and topsoil before carefully planting over 50 donated rain garden plants into a 150 square foot garden space. With this garden addition, all runoff from the school’s front most roof area is captured onsite rather than flowing into the parking lot and nearby storm drains. The gardens will continue to serve as an educational tool for the school in future years as we prepare to install educational signage on site. A story about this project was included in South Burlington’s Town Newspaper, “The Other Paper.” (Article attached).

Landry Park Rain Garden Cleanup - Winooski’s Landry Park had a three-teired roadside rain garden installed by UVM’s Sea Grant in 2008. Since then the garden has fallen into disrepair with significant weed growth, dying trees and overgrown shrubs. This garden is on the CCST’s list of public rain gardens looking for adopters. To engage with local residents and in order to give the garden an initial boost prior to adoption, CCST coordinated with three Winooski Middle and High School classes and local residents to prune, weed, clean mulch and replant the garden in September. The clean up was successful and included over 60 volunteers on two work days. A local gardener donated iris to replace other perennials that failed to thrive in the tough conditions. The garden has since been adopted by a local high school teacher and his students and will be maintained in the coming seasons by those young stewards.

Farrel Street Rain Garden Cleanup- A well-placed infiltration garden buffers the stormwater-impaired Potash Brook from the Regional Correctional Facility’s parking area in South Burlington. The garden was damaged during some

construction at the facility during the 2011 winter months. CCST stepped in to coordinate a volunteer work day to redesign the garden, weed, plant with new stock and mulch. The successful event culminated in a beautified and functional rain garden. Since then, CCST has been in conversations with the work crew leaders at the Correctional Facility who have agreed to donate time to maintain the garden in the 2013 season.

Water Quality Monitoring- The Chittenden County Stream Team recruited five volunteers to collect biweekly water quality samples at eleven sites on Centennial, Englesby, Indian, Morehouse, Muddy and Potash Brooks during the summer of 2012. These streams suffer from sedimentation, excessive nutrient loads, high temperatures, bacteria, and other urban pollutants. A total of five samples were collected at each site during the season and were analyzed for turbidity, total phosphorous, total nitrogen, and chloride. The CCST also sampled for total suspended solids (TSS), total phosphorous, total nitrogen, and chloride at five of these sites during a rain event on 8/12/12. A complete list of the specific sampling sites as well as testing results can be found at ccstreamteam.org.

Salmon Hole Cleanup – CCST organized a cleanup of Salmon Hole in Winooski/Burlington on May 5th in conjunction with WVPD. This event was attended by 9 volunteers, including Vermont’s Attorney General, Bill Sorrel.

Longmeadow Flow Monitoring - After a season of difficulty with weir fastening and barometric pressure logger operation, flow monitoring finally began in a storm drain in the Shelburne Longmeadow Drive neighborhood that drains to the stormwater impaired Munroe Brook. Local volunteers are gathering barometric pressure and level data biweekly and monitoring precipitation with a rain gauge at the site. The data gathered from this site over the next year will provide us with baseline information about flow from this neighborhood’s impervious surfaces to the impaired waterway and as residents install low impact development practices, we should be able to track the impact on runoff volume in real time.

Adopt-a-Rain Garden- In 2012, CCST finalized the adoption of 8 public rain gardens out of a total of 9. A combination of targeted event-driven outreach in areas with gardens in need in addition to web-based and event tabling to share information about the program aided in the successful adoption of so many gardens. Volunteers are supported with access to materials and plants as well as weed and trash disposal.

Outreach

Ice Cream Social Kickoff – On April 19th in Winooski, CCST hosted an ice cream social kickoff event. Over 50 people stopped by for ice cream and were given information about stormwater and ways to get involved in the local community. Arcana tabled the event, sharing tips on how to plant a rain garden and where to purchase appropriate species.

Burlington Kids Day – In May we tabled this event where dozens of children took part in our moving water game and five residents signed up for our newsletter. One Burlington resident reached at this event subsequently volunteered with a rain garden cleanup activity at Farrel St. and became a rain garden adopter in his neighborhood at Callahan Park.

Friends of the Hort Farm Plant Sale – This well-attended event introduced us to the chair of the Friends of the South Burlington Library, six area residents who signed up for the newsletter and about a dozen others who we shared information with. Conversations with the Board Chair of the South Burlington Library initiated a large rain garden project that is currently underway to absorb parking area runoff.

South Burlington Farmers Market – CCST tabled this weekly market on two occasions, June 17th and August 5th. In all, nine people signed up for our newsletter and we offered a group of residents suggestions for managing stormwater in their Burlington neighborhood that drains directly to Lake Champlain.

Milton Youth Activities Fair – CCST tabled this annual event on September 11th. We shared information with Milton residents and gathered suggestions about where to focus a stream cleanup or rain garden installation in the town. Thirty people stopped by the booth and fourteen people signed up for the mailing list.

Burlington Rain Garden Workshop- In September, CCST invited local residents to learn about rain gardens – and help clean one up – at Burlington’s Lake Champlain Waterfront. This event attracted 10 people and included several UVM students, encouraged by their ecological landscape design professor to attend. Workshop attendees went home with information on residential-scale low impact development practices and where to access materials to get a project started.

Activities Summary

Outreach Activities Participation											
Activity	Location	Participant-Residents/Town									Total
		Burlington	South Burlington	Essex	Essex Jct.	Milton	Shelburne	Williston	Winooski	Other/Unknown	
Facebook ('likes')	N/A	29	4	0	1	0	1	3	3	25	66
E-News Mailing List	N/A	42	23	8	12	14	3	14	22	108	246
Website Visits	N/A	294	22	24	0	5	2	13	27	415	802
Ice Cream Social Kickoff	Winooski	3	5	1	1		0	2	16	6	34
Kids Day	Burlington	25	0	0	0	0	0	0	0	2	27
Friends of the Hort Farm Plant Sale	S. Burlington	1	3	1	1	0	0	0	0	0	6
S. Burlington Farmers Market	S. Burlington	0	4	1	0	0	0	0	0	4	9
Milton Youth Activities Fair	Milton	0	1	0	0	27	0	0	0	2	30
Rain Garden Workshop	Burlington	6	2	1	0	0	0	0	1	0	10
Total		400	64	36	15	46	6	32	69	562	1230

Hands-on Projects Participation											
Event	Location	Participant-Residents/Town									Total
		Burlington	South Burlington	Essex	Essex Jct.	Milton	Shelburne	Williston	Winooski	Other/Unknown	
Salmon Hole Clean Up	Winooski	7	0	0	1	0	0	1	0	0	9
Chamberlin School Rain Garden II	S. Burlington	0	46	0	0	0	0	0	0	0	46
Landry Park Rain Garden Clean Up	Winooski	2	2	0	0	0	0	0	61	6	71
Farrel St. Rain Garden Clean Up	S. Burlington	4	0	0	0	0	0	0	0	0	4
Water Quality Monitoring/ Training	Burlington, S. Burlington, Winooski, Williston, Essex, Essex Jct.	3	1	0	0	0	0	0	0	1	5
Longmeadow Flow Monitoring	Shelburne	0	0	0	0	0	2	0	0	0	2
Adopt-a-Rain Garden	Burlington, S. Burlington, Winooski, Williston, Essex Junction	3	0	0	0	0	0	7	6	0	16
Total		19	49	0	1	0	2	8	67	7	153

*Note: These numbers reflect participants who chose to sign up for our mailing list and give identifying information. Many of these events reached greater numbers of untracked participants.

**Hands-on projects for Milton and Shelburne are planned for spring 2013.

["The Other Paper" front page article about Chamberlin Rain Garden](#)



Students Link Learning to Real-World Science

[Home](#) » [Education](#) » [Students Link Learning to Real-World Science](#)

Thursday September 13, 2012

Share

Like 2

On a steamy, summer-like Thursday afternoon, 4th grade students in Chris Provost's class were busy putting textbook science concepts into practice outside their own school. The students energetically and happily took turns hauling wheelbarrows full of soil from a nearby pile and depositing it into what will become the school's second rain garden. The process of developing the garden ties directly into what they are learning about erosion in science class.

According to Rebecca Tharp, Water Resources Manager at the Winooski Natural Resources Conservation District, "The Chamberlin Rain Garden project is funded by the Chittenden County Stream Team (ccstreamteam.org) and Let it Rain (uvm.edu/sea/grant/let-it-rain). The project began last fall (2011) with a S. Burlington school teacher inspired to link the classroom learning of his 4th graders to real-world science and community service in action. Provost noticed that the water that pours off of the roof at the entrance to the school was pouring onto the sidewalk and onto the parking lot where it picked up speed, volume and pollutants as it raced toward the storm drain. Runoff from impervious surfaces is a major water quality concern in Vermont and contributes to poor water quality, stream impairment, phosphorus loading in Lake Champlain and stress on fisheries. Reducing the volume of that water is as easy as encouraging it to infiltrate close to where it lands. In the case of Chamberlin, that is happening with the installation of rain gardens at the base of their downspouts where permeable soils and plants inhabit a landscape depression. This natural holding area allows water to slowly percolate into the soil where pollutants are filtered out and pathogens are removed. Even better, that water that would be a nuisance and a threat becomes a resource as it recharges ground water and contributes to consistent and slow release of a cleaner water source to our waterways."

After the first rain garden was installed last fall the water no longer pooled or ran into the walking and parking areas and to the storm drain. Instead, that runoff goes directly to the garden where it soaks in and contributes to a beautiful landscaping feature near the

school's entrance. The positive impact of the first rain garden inspired Provost to implement a second phase to the project where there is another downspout and more land that connects to the existing garden. He worked steadily beside his students along with resident and Chamberlin parent Bern Scarp, a master gardener from UVM who was volunteering his time along with Ms. Tharp. Many plants have been donated and will become a lasting part of this garden. Ms. Tharp said Provost is, "excited about continuing the effort and seeking ways to impact water quality on the school's campus and beyond—with his students as perennial helpers and learners."

The compost, gravel and soil for this project were donated by Let It Rain. South Burlington Department of Public Works donated the trucks for use.

Individuals interested in becoming involved in some of the storm water projects happening in Chittenden County can visit costreamteam.org. Keen to try out low impact development (LID) strategies on your own property? The Let It Rain storm water program is offering financial incentives for property owners who install rain gardens, rain barrels, dry wells, cisterns, permeable pavers, green roofs and other water storing, infiltrating or conveyance methods. To learn more, visit uvm.edu/sea/grant/let-it-rain. The Winooski Natural Resource Conservation District manages all of these efforts and designed a manual about how to place, design and build your own rain garden. A PDF of that publication can be found at <http://www.vacd.org/winooski/> and by clicking on the "rain gardens" link to the left.

SOURCE: Corey Burdick, Correspondent

BURLINGTON INTERNATIONAL AIRPORT

**Annual Report for General Permit
3-9014 (MS-4)
and
Annual Reports for
Operational Stormwater Discharge Permits**

April 1, 2013

Appendix C

Construction General Permits Issued in 2012

- **Permit #3028-9020.5
Quarry Area Access Road**
- **Permit #3028-9020.6
Aircraft Deicing Fluid
Treatment System, 890 Ramp**

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BURLINGTON INTERNATIONAL AIRPORT

**Permit #3028-9020.5
Quarry Area Access Road**

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BTU - Quarry Area
Access Road
195310772
File, Jon, Todd, Doug

Vermont Department of Environmental Conservation
Watershed Management Division
103 South Main Street, Building 10 North
Waterbury, VT 05671-0408

Agency of Natural Resources

[phone] 802-338-4835
[fax] 802-338-4890

RECEIVED

AUG 01 2012

STANTEC
SOUTH BURLINGTON, VT

July 31, 2012

City of Burlington
Heather Kendrew, P.E.
1200 Airport Drive #1
South Burlington, VT 05403

**Re: Construction General Permit 3-9020 (Amended 2008)
Authorization of Notice of Intent # 3028-9020.5**

Dear Permittee(s),

Notice of Intent # 3028-9020.5 for the discharge of stormwater from the construction activities associated with the construction of a roadway described in the Notice of Intent you submitted has been authorized. Enclosed are four documents that you will need to maintain compliance with this authorization.

1. Authorized Notice of Intent (NOI)

The authorized NOI for Low Risk Projects is valid for two years from the date of the authorization. If the project will proceed past the automatic termination date, you must reapply for coverage under this or another construction stormwater permit before that time.

2. Notice of Authorization for Posting

The notice of Authorization, which details the authorization and conditions you selected in completion of Appendix A to the CGP, must be posted in a location visible to the public in accordance with Subpart 4.5.C of the CGP. In accordance with subpart 5.1 of the CGP, the project risk score must be re-evaluated prior to any major changes to the construction plan.

3. Low Risk Site Handbook for Erosion Prevention and Sediment Control

Please provide the Principal Operator with the low risk site handbook. This handbook details the practices that must be implemented throughout the construction project to prevent erosion and the discharge of sediment from the construction site. Some practices must be in place before construction begins, so please review the entire handbook before starting the project

4. Notice of Addition of Co-Permittee

This form must be submitted for every new landowner or principal operator who joins the project, in accordance with Subpart 7.2 of the CGP.

The CGP, copies of pertinent forms, and an electronic version of the Low Risk Handbook are available on the stormwater website at: http://www.vtwaterquality.org/stormwater/htm/sw_cgp.htm. If you have any questions related to your authorization, please contact the appropriate analyst in the Stormwater District where your project is located. Use our [District Look-up Tool](#) for details.

Sincerely,

A handwritten signature in black ink that reads "Ashley Carver". The signature is written in a cursive style.

Ashley Carver
Stormwater Program
cc: Todd Duguay, Stantec

Notice of Intent (NOI)

for Stormwater Discharges Associated with Construction Activity on

Low Risk Sites

Under Vermont Construction General Permit 3-9020

For Department Use Only

NOI Number: 3028-9020.5



Submission of this completed Notice of Intent (NOI) constitutes notice that the entity in Section A intends to be authorized to discharge pollutants to waters of the State, from the project identified in Section C, under Vermont's Construction General Permit (CGP). Submission of the NOI constitutes notice that the party identified in Section A of this form has read, understands, and meets the eligibility conditions of the CGP; has determined that the project qualifies for coverage as a Low Risk project in conformance with Appendix A of the CGP; agrees to comply with all applicable terms and conditions of the CGP; understands that continued authorization under the CGP is contingent on maintaining eligibility for coverage; and that all applicable practices in the Low Risk Site Handbook for Erosion Prevention and Sediment Control must be implemented and maintained for the duration of construction activities. In order to be granted coverage, all information required on this form must be provided and an application fee of \$36, made payable to the State of Vermont, must be submitted.

A. Landowner Information

1. Name: City of Burlington
2. Mailing Address
a. Street/P.O. Box: 1200 Airport Drive, #1
b. City/Town: South Burlington c. State: Vermont d. Zip: 05403
3. Contact Information
a. Phone: (802) 863-2874 b. Fax: _____ c. Email: hkendrew@btv.aero

B. Principal Operator Information (if known)

1. Name: Heather Kendrew, P.E.
2. Mailing Address
a. Street/P.O. Box: Same as A
b. City/Town: Same as A c. State: Vermont d. Zip: _____
3. Contact Information
a. Phone: Same as A b. Fax: _____ c. Email: Same as A

C. Application Preparer Information (if applicable)

1. Name: Todd F. Duguay, P.E.
2. Mailing Address:
a. Street/P.O. Box: 55 Green Mountain Drive
b. City/Town: South Burlington c. State: Vermont d. Zip: 05403
3. Contact Information
a. Phone: (802)864-0223 b. Fax: _____ c. Email: todd.duguay@stantec.com

See Filing Directions for Low Risk Projects

D. Project Information

1. Project Name: Quarry Access Road

2a. Is this project part of a Common Plan of Development¹? Yes No

2b. If Yes, Name of Development: _____

3a. Does this project have any previously issued or pending stormwater discharge permits? Yes No

3b. If Yes, Prior NOI Number(s): #3025-9015

4. Location Address

b. City/Town: South Burlington

a. Street: 1200 Airport Drive, #1

c. Latitude: 44 ° 27 ' 37 " d. Longitude: 73 ° 8 ' 24 " (center of the project)

5. Project Type: Residential Commercial Industrial Other: _____

6. Description of construction activities to be permitted:

Pete's RV leases the subject property from the Airport. They are planning on using some of the available space in the quarry area as a surplus inventory parking area. Pete's will need to construct a roadway to gain access to the space. The roadway is proposed to be 20' wide, 375' long and crowned in the middle.

7. Total Area of Disturbance: 0.52 acres

8. Proposed Start Date: 07-01-2012

9. Proposed End Date: 12-31-2012

10. Name(s) of receiving water²: No known outlet discharging to waters of the state Groundwater in Muddy

11. Include a topographic location map showing the project boundaries. Brook Watershed

E. Public Notice Requirement

You must provide a copy of this completed NOI form to the municipal clerk for posting in the municipality in which the discharge is to be located. If the project and the related discharge(s) are located in different municipalities, then the completed NOI shall be filed with the municipal clerk in each municipality. The municipal clerk must post the completed NOI. You must include the date on which the NOI was posted.

Date of Posting at Municipal Office(s): June 28, 2012

Information for the Municipal Clerk regarding posting instructions can be found on Page 4 of this NOI.

F. Certification Relating to the Accuracy of the Information Submitted

I hereby 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, 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. I also certify that the applicable practices in The Low Risk Site Handbook for Erosion Prevention and Sediment Control will be implemented for the duration of the project for which this NOI is submitted.

City of Burlington, Burlington International Airport; Director of Maintenance, Engineering and
Landowner Name: Heather Kendrew, PE Title: Environmental Compliance

Signature: [Handwritten Signature] Date: 6/28/12

Principal Operator: Same as above
(if known)

Title: _____

Signature: _____

Date: _____

Application Preparer: Todd F. Duguay, P.E. Title: Project Engineer, Transportation

(if applicable)

Signature: [Handwritten Signature] Date: 6/28/12

¹ "Common Plan of Development" is defined within the CGP 3-9020, Appendix C – Definitions, page A-12

² "Waters of the State" (i.e. receiving water) is defined within the CGP 3-9020, Appendix C – Definitions, page A-16

For Department Use Only

VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION AUTHORIZATION TO DISCHARGE

A determination has been made that the proposed construction activities qualify for coverage under General Permit 3-9020 (amended 2008) as a Low Risk project. Subject to the conditions of General Permit 3-9020 (amended 2008) the applicant is hereby authorized to discharge stormwater runoff from a construction site as described in this Notice of Intent Number 3028-9020.5.

Dated at Winooski, Vermont this 31st day of July, 2012

David K. Mears, Commissioner Department of Environmental Conservation

By: Padraic Monks
Padraic Monks, Program Manager
Stormwater Program

PUBLIC COMMENT

Public comments concerning this Notice of Intent to discharge under CGP 3-9020 (amended 2008) are invited and must be submitted within 10 days of receipt of this Notice by the Municipal Clerk. Comments should address how the application complies or does not comply with the terms and conditions of CGP 3-9020 (amended 2008). A letter of interest should be filed by those persons who elect not to file comments but who wish to be notified if the comment period is extended or reopened for any reason. All written comments received within the time frame described above will be considered by the Department of Environmental Conservation in its final ruling to grant or deny authorization to discharge under CGP 3-9020 (amended 2008). Send written comments to:

Vermont Department of Environmental Conservation
Watershed Management Division, Stormwater Program
103 South Main Street, Building 10 North
Waterbury, VT 05671-0408

Please cite the NOI number in any correspondence.

APPEALS

Renewable Energy Projects – Right to Appeal to Public Service Board

If this decision relates to a renewable energy plant for which a certificate of public good is required under 30 V.S.A. §248, any appeal of this decision must be filed with the Vermont Public Service Board pursuant to 10 V.S.A. §8506 and must be filed with the clerk of the Public Service Board within 30 days of the date of this decision. This section does not apply to a facility that is subject to 10 V.S.A. §1004 (dams before the Federal Energy Regulatory Commission), 10 V.S.A. §1006 (certification of hydroelectric projects) or 10 V.S.A. Chapter 43 (dams). For additional information, see the Public Service Board website at <http://psb.vermont.gov> or call (802) 828-2358. The address for the Public Service Board is 112 State Street Montpelier, Vermont 05620-2701.

All Other Projects – Right to Appeal to Environmental Court

Pursuant to 10 V.S.A. Chapter 220, if this decision relates to all other projects, any appeal of this decision must be filed with the clerk of the Environmental Court within 30 days of the date of the decision. The appellant must attach to the Notice of Appeal the entry fee of \$250.00 payable to the State of Vermont. The Notice of Appeal must specify the parties taking the appeal and the statutory provision under which each party claims party status; must designate the act or decision appealed from; must name the Environmental Court; and must be signed by the appellant or their attorney. In addition, the appeal must give the address or location and description of the property, project or facility with which the appeal is concerned and the name of the applicant or any permit involved in the appeal. The appellant must also serve a copy of the Notice of Appeal in accordance with Rule 5(b)(4)(B) of the Vermont Rules for Environmental Court Proceedings. For additional information, see the Vermont Rules for Environmental Court Proceedings, available online at www.vermontjudiciary.org or call (802) 828-1660. The address for the Environmental Court is 2418 Airport Road, Suite 1, Barre, Vermont 05641.

A copy of CGP 3-9020 (amended 2008) may be obtained by calling (802) 241-3777 or by download from the Watershed Management Division's Web site at: http://www.anr.state.vt.us/dec/waterq/stormwater/hwm/sw_cgp.htm.

INFORMATION FOR MUNICIPAL CLERK

10 V.S.A. Chapter 47 §1263(b) provides for the public notice of an applicant's intent to discharge stormwater runoff associated with construction activity. Please post this notice and instruction sheet in a conspicuous place for 10 days from the date received. If you have any questions, contact the Watershed Management Division at (802) 241-3777.

Submit this *original* form and the \$36 fee to:

Vermont Department of Environmental Conservation
Watershed Management Division, Stormwater Program
103 South Main Street, Building 10 North
Waterbury, VT 05671-0408

Notice of Authorization

Under Vermont Construction General Permit 3-9020
For Low Risk Projects



Project Name: Burlington International Airport- Quarry Access Road	Notice of Intent Number:3028-9020.5
Permittee Name: City of Burlington	Date of Authorization: 7/31/2012
	Date of Expiration: 7/31/2014

The project listed above has received authorization under General Permit 3-9020 to discharge stormwater from the following construction activities: Construction of an access road.

This authorization includes the following requirements:

1. Implementation of erosion prevention and sediment control practices required by the Low Risk Site Handbook for Erosion Prevention and Sediment Control.
2. All areas of disturbance must have temporary or final stabilization within **14 days** of the initial disturbance. After this time, all disturbed soil must be stabilized at the end of each work day. Between October 15 and April 15 all disturbed soil must be at the end of each work day. The following exceptions apply:
 - a. Stabilization is not required if work is to continue in the area within the next 24 hours and there is no precipitation forecast for the next 24 hours.
 - b. Stabilization is not required if the work is occurring in a self-contained excavation (i.e. no outlet) with a depth of 2 feet or greater (e.g. house foundation excavation, utility trenches).
3. No more than **2 acres** of land may be disturbed at any one time.
4. All Discharges of Stormwater must pass through at least 50 ft of vegetated buffer before reaching receiving waters.
5. Inspections shall be conducted at least once every (7) calendar days and within twenty-four (24) hours of the end of a storm event resulting in discharge of stormwater from construction site.
6. If there is a discharge of visibly discolored Stormwater from the construction site or from the construction site to waters of the State, the permittee shall take immediate corrective action.
7. If, after completing corrective action, there continues to be a discharge of sediment from the construction site to waters of the State, the permittee shall notify DEC by submitting a report within 72 hours of the discharge.

To request information on this authorization, or to report compliance concerns, please contact the Watershed Management Division at (802) 338-4835 or write to:

VT DEC, Watershed Management Division
103 South Main Street, Bldg 10 North
Waterbury, VT, 05671-0408

See next page for posting requirements

Permittee Directions for Posting:

This notice shall be placed near the construction entrance at a location visible to the public. If displaying near the main entrance is infeasible, the notice shall be posted in a local public building such as the town hall or public library. For linear projects, the notice shall be posted at a publicly accessible location near the active part of the construction project (e.g., where a pipeline project crosses a public road).

BURLINGTON INTERNATIONAL AIRPORT

**Permit #3028-9020.6
Aircraft Deicing Fluid
Treatment System, 890 Ramp**

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BTU - Aircraft Deicing
Fluid Treatment System
890 Ramp
195310277

Vermont Department of Environmental Conservation
Watershed Management Division
103 South Main Street, Building 10 North
Waterbury, VT 05671-0408

Agency of Natural Resources

[phone] 802-338-4835
[fax] 802-338-4890

File
Jon
Todd
Davy

July 31, 2012

City of Burlington
Heather Kendrew, P.E.
1200 Airport Drive #1
South Burlington, VT 05403

RECEIVED
AUG 01 2012
STANTEC
SOUTH BURLINGTON, VT

**Re: Construction General Permit 3-9020 (Amended 2008)
Authorization of Notice of Intent # 3028-9020.6**

Dear Permittee(s),

Notice of Intent # 3028-9020.6 for the discharge of stormwater from the construction activities associated with the construction of an aircraft deicing fluid treatment system for the 10 acre 890 Ramp (Air Cargo Ramp). Work includes a diversion structure, 36" reinforced concrete drain pipe, 21,000 cubic foot underground storage tank, pump station, force main and infiltration bed described in the Notice of Intent you submitted has been authorized. Enclosed are four documents that you will need to maintain compliance with this authorization.

1. Authorized Notice of Intent (NOI)

The authorized NOI for Low Risk Projects is valid for two years from the date of the authorization. If the project will proceed past the automatic termination date, you must reapply for coverage under this or another construction stormwater permit before that time.

2. Notice of Authorization for Posting

The notice of Authorization, which details the authorization and conditions you selected in completion of Appendix A to the CGP, must be posted in a location visible to the public in accordance with Subpart 4.5.C of the CGP. In accordance with subpart 5.1 of the CGP, the project risk score must be re-evaluated prior to any major changes to the construction plan.

3. Low Risk Site Handbook for Erosion Prevention and Sediment Control

Please provide the Principal Operator with the low risk site handbook. This handbook details the practices that must be implemented throughout the construction project to prevent erosion and the discharge of sediment from the construction site. Some practices must be in place before construction begins, so please review the entire handbook before starting the project

4. Notice of Addition of Co-Permittee

This form must be submitted for every new landowner or principal operator who joins the project, in accordance with Subpart 7.2 of the CGP.

The CGP, copies of pertinent forms, and an electronic version of the Low Risk Handbook are available on the stormwater website at: http://www.vtwaterquality.org/stormwater/htm/sw_cgp.htm. If you have any questions related to your authorization, please contact the appropriate analyst in the Stormwater District where your project is located. Use our District Look-up Tool for details.

Sincerely,

A handwritten signature in cursive script that reads "Ashley Carver". The signature is written in black ink and is positioned above the typed name.

Ashley Carver
Stormwater Program
cc: Todd Duguay, Stantec

Notice of Intent (NOI)for Stormwater Discharges Associated with
Construction Activity on**Low Risk Sites**

Under Vermont Construction General Permit 3-9020

For Department Use Only

NOI Number: 3028-9020.6



Submission of this completed Notice of Intent (NOI) constitutes notice that the entity in Section A intends to be authorized to discharge pollutants to waters of the State, from the project identified in Section C, under Vermont's Construction General Permit (CGP). Submission of the NOI constitutes notice that the party identified in Section A of this form has read, understands, and meets the eligibility conditions of the CGP; has determined that the project qualifies for coverage as a Low Risk project in conformance with Appendix A of the CGP; agrees to comply with all applicable terms and conditions of the CGP; understands that continued authorization under the CGP is contingent on maintaining eligibility for coverage; and that all applicable practices in the Low Risk Site Handbook for Erosion Prevention and Sediment Control must be implemented and maintained for the duration of construction activities. In order to be granted coverage, all information required on this form must be provided and an application fee of \$36, made payable to the State of Vermont, must be submitted.

A. Landowner Information

1. Name: City of Burlington

2. Mailing Address
a. Street/P.O. Box: 1200 Airport Drive, #1

b. City/Town: South Burlington c. State: Vermont d. Zip: 05403

3. Contact Information
a. Phone: (802) 863-2874 b. Fax: _____ c. Email: hkendrew@btv.aero

B. Principal Operator Information (if known)

1. Name: Heather Kendrew, P.E.

2. Mailing Address
a. Street/P.O. Box: Same as A

b. City/Town: Same as A c. State: Vermont d. Zip: _____

3. Contact Information
a. Phone: Same as A b. Fax: _____ c. Email: Same as A

C. Application Preparer Information (if applicable)

1. Name: Todd F. Duguay, P.E.

2. Mailing Address:
a. Street/P.O. Box: 55 Green Mountain Drive

b. City/Town: South Burlington c. State: Vermont d. Zip: 05403

3. Contact Information
a. Phone: (802)864-0223 b. Fax: _____ c. Email: todd.duguay@stantec.com

See Filing Directions for Low Risk Projects

D. Project Information

1. Project Name: Construct Aircraft Deicing Fluid Treatment System, 890 Ramp

2a. Is this project part of a Common Plan of Development¹? Yes No

2b. If Yes, Name of Development: _____

3a. Does this project have any previously issued or pending stormwater discharge permits? Yes No

3b. If Yes, Prior NOI Number(s): _____

4. Location Address

b. City/Town: South Burlington a. Street: 1200 Airport Drive

c. Latitude: 44 ° 28 ' 03 " d. Longitude: 73 ° 8 ' 50 " (center of the project)

5. Project Type: Residential Commercial Industrial Other: Aircraft Deicing Fluid Treatment System

6. Description of construction activities to be permitted:

The project consists of an aircraft deicing fluid treatment system for the 10 acre 890 Ramp (Air Cargo Ramp). Work includes a diversion structure, 36" reinforced concrete drain pipe, 21,000 cubic foot underground concrete storage tank, pump station, force main and infiltration bed.

7. Total Area of Disturbance: 6.57 acres

8. Proposed Start Date: 08-01-2012

9. Proposed End Date: 12-31-2012

10. Name(s) of receiving water²: Potash Brook, Unnamed Tributary to the Winooski River

11. Include a *topographic location map* showing the project boundaries.

E. Public Notice Requirement

You must provide a copy of this completed NOI form to the municipal clerk for posting in the municipality in which the discharge is to be located. If the project and the related discharge(s) are located in different municipalities, then the completed NOI shall be filed with the municipal clerk in each municipality. The municipal clerk must post the completed NOI. You must include the date on which the NOI was posted.

Date of Posting at Municipal Office(s): June 28, 2012

Information for the Municipal Clerk regarding posting instructions can be found on Page 4 of this NOI.

F. Certification Relating to the Accuracy of the Information Submitted

I hereby 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, 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. I also certify that the applicable practices in The Low Risk Site Handbook for Erosion Prevention and Sediment Control will be implemented for the duration of the project for which this NOI is submitted.

City of Burlington, Burlington International Airport; Director of Maintenance, Engineering and
Landowner Name: Heather Kendrew, PE Title: Environmental Compliance

Signature: *Heather Kendrew* Date: 6/28/12

Principal Operator: Same as above Title: _____
(if known)

Signature: _____ Date: _____

Application Preparer: Todd F. Duguay, P.E. Title: Project Engineer, Transportation
(if applicable)

Signature: *Todd F. Duguay* Date: 6/28/12

¹ "Common Plan of Development" is defined within the CGP 3-9020, Appendix C - Definitions, page A-12

² "Waters of the State" (i.e. receiving water) is defined within the CGP 3-9020, Appendix C - Definitions, page A-16

For Department Use Only

VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION AUTHORIZATION TO DISCHARGE

A determination has been made that the proposed construction activities qualify for coverage under General Permit 3-9020 (amended 2008) as a Low Risk project. Subject to the conditions of General Permit 3-9020 (amended 2008) the applicant is hereby authorized to discharge stormwater runoff from a construction site as described in this Notice of Intent Number 3028-9020.6.

Dated at Winooski, Vermont this 31st day of July, 2012

David K. Mears, Commissioner Department of Environmental Conservation

By: Padraic Monks
Padraic Monks, Program Manager
Stormwater Program

PUBLIC COMMENT

Public comments concerning this Notice of Intent to discharge under CGP 3-9020 (amended 2008) are invited and must be submitted within 10 days of receipt of this Notice by the Municipal Clerk. Comments should address how the application complies or does not comply with the terms and conditions of CGP 3-9020 (amended 2008). A letter of interest should be filed by those persons who elect not to file comments but who wish to be notified if the comment period is extended or reopened for any reason. All written comments received within the time frame described above will be considered by the Department of Environmental Conservation in its final ruling to grant or deny authorization to discharge under CGP 3-9020 (amended 2008). Send written comments to:

Vermont Department of Environmental Conservation
Watershed Management Division, Stormwater Program
103 South Main Street, Building 10 North
Waterbury, VT 05671-0408

Please cite the NOI number in any correspondence.

APPEALS

Renewable Energy Projects – Right to Appeal to Public Service Board

If this decision relates to a renewable energy plant for which a certificate of public good is required under 30 V.S.A. §248, any appeal of this decision must be filed with the Vermont Public Service Board pursuant to 10 V.S.A. §8506 and must be filed with the clerk of the Public Service Board within 30 days of the date of this decision. This section does not apply to a facility that is subject to 10 V.S.A. §1004 (dams before the Federal Energy Regulatory Commission), 10 V.S.A. §1006 (certification of hydroelectric projects) or 10 V.S.A. Chapter 43 (dams). For additional information, see the Public Service Board website at <http://psb.vermont.gov> or call (802) 828-2358. The address for the Public Service Board is 112 State Street Montpelier, Vermont 05620-2701.

All Other Projects – Right to Appeal to Environmental Court

Pursuant to 10 V.S.A. Chapter 220, if this decision relates to all other projects, any appeal of this decision must be filed with the clerk of the Environmental Court within 30 days of the date of the decision. The appellant must attach to the Notice of Appeal the entry fee of \$250.00 payable to the State of Vermont. The Notice of Appeal must specify the parties taking the appeal and the statutory provision under which each party claims party status; must designate the act or decision appealed from; must name the Environmental Court; and must be signed by the appellant or their attorney. In addition, the appeal must give the address or location and description of the property, project or facility with which the appeal is concerned and the name of the applicant or any permit involved in the appeal. The appellant must also serve a copy of the Notice of Appeal in accordance with Rule 5(b)(4)(B) of the Vermont Rules for Environmental Court Proceedings. For additional information, see the Vermont Rules for Environmental Court Proceedings, available online at www.vermontjudiciary.org or call (802) 828-1660. The address for the Environmental Court is 2418 Airport Road, Suite 1, Barre, Vermont 05641.

A copy of CGP 3-9020 (amended 2008) may be obtained by calling (802) 241-3777 or by download from the Watershed Management Division's Web site at: http://www.anr.state.vt.us/dec/waterq/stormwater/hm/sw_cgp.htm.

INFORMATION FOR MUNICIPAL CLERK

10 V.S.A. Chapter 47 §1263(b) provides for the public notice of an applicant's intent to discharge stormwater runoff associated with construction activity. Please post this notice and instruction sheet in a conspicuous place for 10 days from the date received. If you have any questions, contact the Watershed Management Division at (802) 241-3777.

Submit this *original* form and the \$36 fee to:

Vermont Department of Environmental Conservation
Watershed Management Division, Stormwater Program
103 South Main Street, Building 10 North
Waterbury, VT 05671-0408

Notice of Authorization

Under Vermont Construction General Permit 3-9020
For Low Risk Projects



Project Name: Burlington International Airport- Aircraft Deicing Fluid Treatment System	Notice of Intent Number: 3028-9020.6
Permittee Name: City of South Burlington	Date of Authorization: 7/31/2012
	Date of Expiration: 7/31/2014

The project listed above has received authorization under General Permit 3-9020 to discharge stormwater from the following construction activities: Construction of an aircraft deicing fluid treatment system for the 10 acre 890 Ramp (Air Cargo Ramp). Work includes a diversion structure, 36" reinforced concrete drain pipe, 21,000 cubic foot underground storage tank, pump station, force main and infiltration bed

This authorization includes the following requirements:

1. Implementation of erosion prevention and sediment control practices required by the Low Risk Site Handbook for Erosion Prevention and Sediment Control.
2. All areas of disturbance must have temporary or final stabilization within **7 days** of the initial disturbance. After this time, all disturbed soil must be stabilized at the end of each work day. Between October 15 and April 15 all disturbed soil must be at the end of each work day. The following exceptions apply:
 - a. Stabilization is not required if work is to continue in the area within the next 24 hours and there is no precipitation forecast for the next 24 hours.
 - b. Stabilization is not required if the work is occurring in a self-contained excavation (i.e. no outlet) with a depth of 2 feet or greater (e.g. house foundation excavation, utility trenches).
3. No more than **5 acres** of land may be disturbed at any one time.
4. All Discharges of Stormwater must pass through at least 50 ft of vegetated buffer before reaching receiving waters.
5. No disturbance shall occur within 50 ft upslope of any stream or river, or 100 ft of any lake or pond (except disturbance for the installation of Stormwater treatment facilities or road Stream crossing with no reasonable alternative location).
6. Inspections shall be conducted at least once every (7) calendar days and within twenty-four (24) hours of the end of a storm event resulting in discharge of Stormwater from construction site.
7. If there is a discharge of visibly discolored stormwater from the construction site or from the construction site to waters of the State, the permittee shall take immediate corrective action.
8. If, after completing corrective action, there continues to be a discharge of sediment from the construction site to waters of the State, the permittee shall notify DEC by submitting a report within 72 hours of the discharge.

To request information on this authorization, or to report compliance concerns, please contact the Watershed Management Division at (802) 338-4835 or write to:

VT DEC, Watershed Management Division
103 South Main Street, Bldg 10 North
Waterbury, VT, 05671-0408

See next page for posting requirements

Permittee Directions for Posting:

This notice shall be placed near the construction entrance at a location visible to the public. If displaying near the main entrance is infeasible, the notice shall be posted in a local public building such as the town hall or public library. For linear projects, the notice shall be posted at a publicly accessible location near the active part of the construction project (e.g., where a pipeline project crosses a public road).

BURLINGTON INTERNATIONAL AIRPORT

**Annual Report for General Permit
3-9014 (MS-4)
and
Annual Reports for
Operational Stormwater Discharge Permits**

April 1, 2013

Appendix D

**Operational Stormwater Discharge Permits
Issued in 2012**

- **Permit #3028-9015.1
Quarry Area Access Road**

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Vermont Department of Environmental Conservation
Watershed Management Division
Main Building, Second Floor
One National Life Drive
Montpelier, VT 05620-3522

Agency of Natural Resources

(phone) 802-828-1535
(fax) 802 828-1544

November 20, 2012

City of Burlington-Burlington International Airport
c/o Heather Kendrew
1200 Airport Drive, #1
South Burlington, VT 05403

Re: Authorization to Discharge Permit No. 3028-9015.1
Quarry Area Access Road

D. Campbell
RECEIVED
NOV 26 2012
STANTEC
SOUTH BURLINGTON, VT

Dear Ms. Kendrew:

Enclosed is your copy of an Authorization to Discharge pursuant to General Permit 3-9015, which has been signed by the Stormwater Program Manager of the Stormwater Management Section on behalf of the Commissioner of the Department of Environmental Conservation. This authorizes the discharge of treated stormwater runoff from impervious surfaces associated with your project.

Please read this authorization to discharge carefully and note the inspection and reporting requirements, and other operating conditions including payment of annual operating fees.

In addition, per the authorization, the permittee shall record a one page notice of issuance of this authorization in the local land records within fourteen (14) days of issuance of this authorization on the form provided. The permittee shall then provide a copy of the recording to the Stormwater Management Program, by submitting a copy of the recording from the local land records to this office within fourteen (14) days of the permittee's receipt of the recorded copy.

If you have any questions pertaining to this authorization, please contact the Stormwater Management Program's Environmental Analyst assigned to your district, or by email at stormwater@state.vt.us. Additional Stormwater Management Program contact information and stormwater permitting information is available at www.vtwaterquality.org.

Sincerely,

Stormwater Management Program

Enclosures

cc: ✓ Douglas M. Campbell, PE, Stantec Consulting Services, Inc.
Peter Keibel, Act 250 District Coordinator, Essex Junction

Permit Number 3028-9015.1
Project ID Number EJ96-0386

VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AUTHORIZATION TO DISCHARGE UNDER
GENERAL PERMIT 3-9015

A determination has been made that the applicant:

City of Burlington, Burlington International Airport
1200 Airport Drive, #1
South Burlington, VT 05403

Impervious Area: 0.17 acres

meets the criteria necessary for inclusion under General Permit 3- 9015. Hereinafter the named applicant shall be referred to as the permittee. Subject to the conditions of General Permit No. 3-9015, the permittee is authorized to discharge stormwater from Quarry Area Access Road located on 1200 Airport Drive, #1, in South Burlington, Vermont to groundwater in the Muddy Brook watershed.

Manner of Discharge:

S/N 002: Stormwater runoff from proposed access road via overland sheet flow, disconnected in accordance with the Disconnection of Non-Rooftop Runoff Credit, discharging to groundwater in the Muddy Brook watershed.

Design: This project shall be constructed and operated in accordance with the site plans and details designed by Stantec (Sheet 1, "Existing Conditions Plan," dated 7/11/2012; Sheet 2, "Site Plan," dated 7/11/2012; Sheet 3, ";; and supporting information).

By reference, the above noted plans are made part of this authorization.

Compliance with General Permit 3-9015 and this Authorization

The permittee shall comply with this authorization and all the terms and conditions of General Permit 3-9015, including the payment of annual operating fees to the Department. A billing statement for such fees will be sent to the permittee each year. The first year's statement is enclosed. Any permit non-compliance, including a failure to pay the annual operating fee, constitutes a violation of 10 V.S.A. Chapter 47 and may be grounds for an enforcement action or revocation of this authorization to discharge.

Transferability

This authorization to discharge is not transferable to any person except in compliance with Part VI.D. of General Permit 3-9015. A copy of General Permit 3-9015 is available from the Department via the internet at http://www.anr.state.vt.us/dec/waterq/stormwater/docs/sw_3-9015-finalpermit.pdf

Changes to Permitted Development

In accordance with Part V.G. of General Permit 3-9015, the permittee shall notify the Department of any planned development or facility expansions or changes that may result in new or increased stormwater discharges. The Department shall determine the appropriateness of continued inclusion under General Permit 3-9015 by the modified development or facility.

Semi-Annual Inspection and Report

The stormwater collection, treatment and control system authorized herein shall be properly operated and maintained and shall be inspected at least twice per year, once in the spring after snowmelt and once in the fall prior to snow fall. The inspection shall evaluate the operation and maintenance and condition of the stormwater collection, treatment and control system. The permittee shall prepare a semiannual inspection report on a form available from the Department, which can be found on the Stormwater Management Program's website. The permittee shall, by November 1st and June 1st of each year, submit an inspection report to the Department.

Restatement of Compliance

An initial statement of compliance, signed by a designer, must be submitted to the Stormwater Management Program no later than 6 months following completion of construction of the stormwater management system. Then, every 5 years, the permittee shall submit to the Department a written statement signed by a designer that the stormwater collection, treatment and control system authorized herein is properly operating and maintained. The first re-statement of compliance is due November 20, 2017. Failure to submit a designer's restatement of compliance shall constitute a violation of General Permit 3-9015 and may result in the revocation of this authorization to discharge. Forms for completing this requirement are available on the Stormwater Management Program's website.

Recording in Land Records: The permittee shall record a one-page notice of issuance of this discharge permit in the local land records within fourteen (14) days of issuance of this authorization to discharge on the form provided by the Secretary, per §18-312 of Stormwater Management Rule. The permittee shall provide a copy of the recording to the Stormwater Management Program within fourteen (14) days of the permittee's receipt of the copy of the recording from the local land records.

Renewable Energy Projects – Right to Appeal to Public Service Board:

Any appeal of this decision must be filed with the clerk of the Vermont Public Service Board pursuant to 10 V.S.A. §8506 within 30 days of the date of this decision. The appellant must file with the Clerk an original and six copies of its appeal. The appellant shall provide notice of the filing of an appeal in accordance with 10 V.S.A. §8504(c)(2), and shall also serve a copy of the Notice of Appeal on the Vermont Department of Public Service. For information, see the Rules and General orders of the Public Service Board available on line at www.psb.vermont.gov. The address for the Public Service Board is 112 State Street Montpelier, Vermont 05620-2701 (Tel. #802-828-2358).

All Other Projects – Right to Appeal to the Environmental Court


Pursuant to 10 V.S.A. Chapter 220, any appeal of this decision must be filed with the clerk of the Environmental Court within 30 days of the date of the decision. The appellant must attach to the Notice of Appeal the entry fee of \$250.00, payable to the state of Vermont. The Notice of Appeal must specify the parties taking the appeal and the statutory provision under which each party claims party status; must designate the act or decision appealed from; must name the Environmental Court; and must be signed by the appellant or their attorney. In addition, the appeal must give the address or location and description of the property, project or facility with which the appeal is concerned and the name of the applicant or any permit involved in the appeal. The appellant must also serve a copy of the Notice of Appeal in accordance with Rule 5(b)(4)(B) of the Vermont Rules for Environmental Court Proceedings. For further information, see the Vermont Rules for Environmental Court Proceedings, available on line at www.vermontjudiciary.org. The address for the Environmental Court is 2418 Airport Road, Suite 1, Barre, VT 05641 (Telephone #802-828-1660).

Effective Date and Expiration Date of this Authorization

This authorization to discharge shall become effective on November 20, 2012 and shall continue until November 20, 2022. The permittee shall reapply for coverage at least sixty (60) days prior to November 20, 2022.

Dated this 20th day of November, 2012.

David K. Mears, Commissioner
Department of Environmental Conservation

By 
Padraic Monks, Stormwater Program Manager
Stormwater Management Program

**NOTICE OF ISSUANCE OF STORMWATER DISCHARGE PERMIT
BY THE VERMONT DEPARTMENT OF ENVIRONMENTAL
CONSERVATION**

Notice is hereby given that an individual stormwater discharge permit or an authorization to discharge pursuant to a general stormwater discharge permit has been issued by the Vermont Department of Environmental Conservation to Permittee(s) named herein for the discharge of stormwater runoff from impervious surfaces (e.g. roadways, rooftops, parking lots, walkways) pursuant to 10 V.S.A. Section 1264 for the property identified below. The permit/authorization requires treatment and control of stormwater runoff, long-term maintenance of the treatment and control structures and payment of yearly operational fees.

Permittee(s): _____

Permit/Authorization Number: _____

911 Address of Property: _____

Name of condominium, subdivision or planned community association (if applicable):

Signature of Permittee or Authorized Representative: _____

Printed Name of Permittee or Authorized Representative: _____

Date of Signature: _____

Recording information: Municipal clerks - please index this document listing the State of Vermont, Department of Environmental Conservation as "Grantee". Please index this document listing the above named Permittee(s) as "Grantor(s)". Additionally, if this notice lists the name of a condominium, subdivision or planned community association, please list the named association as an additional "Grantor".

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BURLINGTON INTERNATIONAL AIRPORT

Annual Report for General Permit
3-9014 (MS-4)
and
Annual Reports for
Operational Stormwater Discharge Permits

April 1, 2013

Appendix E

Previously Issued Operational Stormwater Discharge Permits

- Permit No. 3028-9010.A (BTV's Master Permit)
 - Permit No. 1-1391 (South Apron Expansion)
- Permit No. 1-0839 (Redirect Airfield Drainage to North Outfall)
 - Permit No. 3028-INDS.A (Taxiways 'B', 'C', 'J', and 'G')
- Permit No. 3028-INDS.1 (Reconstruct, Mark, and Groove Runway 15-33)
 - Permit No. 3845-INDS.A (Heritage Flight)

Not Constructed to Date

- Permit #3028-INDS.2
Vermont Aviation Center
(formerly entitled Burlington Aviation
Technical Center & Vermont Flight Academy)

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BURLINGTON INTERNATIONAL AIRPORT

Permit No. 3028-9010.A (BTV's Master Permit)

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VERMONT

Vermont Department of Environmental Conservation
Water Quality Division
103 South Main Street, Building 10 North
Waterbury, VT 05671-0408

RECEIVED

JAN 04 2010

STANTEC
SOUTH BURLINGTON, VT

Agency of Natural Resources

[phone] 802-241-3770
[fax] 802-241-3287

December 22, 2009

City of Burlington-Burlington International Airport
Attn: Heather Kendrew
1200 Airport Drive #1
South Burlington, VT 05403

Re: Authorization to Discharge Permit No. 3028-9010.A

Dear Ms. Kendrew:

Enclosed is your copy of an Amended Authorization to Discharge pursuant to General Permit 3-9010 Amended (May 2007), which has been signed by the Stormwater Program Manager of the Stormwater Management Section on behalf of the Commissioner of the Department of Environmental Conservation.

This authorizes the discharge of treated stormwater runoff from:

- the Burlington International Airport (BTV) north runway;
- the north end terminal expansion and concrete apron;
- parking lots, roofs and roads associated with expanded BTV parking facilities;
- the Pratt & Whitney Building;
- the Building 880 replacement;
- the South End Development Phase 2 Project; and
- the Quarry Overflow Parking Area.

The properties are located on Airport Drive, Army Guard Road, Eagle Drive and Aviation Avenue in South Burlington, Vermont and will discharge to an unnamed tributary of the Winooski River, groundwater in the Winooski River watershed, a wetland tributary to Muddy Brook, and groundwater in the Muddy Brook watershed.

Please read this authorization to discharge carefully and note the inspection and reporting requirements, and other operating conditions including payment of annual operating fees.

If you have any questions, please call me at (802) 241-1452.

Sincerely,

Vicki L. Hill, Environmental Technician
Stormwater Management Section

Enclosures

cc: Gregory Goyette, Stantec Consulting Services
Peter Keibel, Act 250 District Coordinator, Essex Junction

VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AMENDED AUTHORIZATION TO DISCHARGE UNDER
GENERAL PERMIT 3-9010 AMENDED (MAY 2007)

A determination has been made that the applicant:

City of Burlington -Burlington International Airport
1200 Airport Drive, #1
South Burlington, VT 05403
(Impervious area: 63.815 acres)

meets the criteria necessary for inclusion under General Permit 3-9010 Amended (May 2007). Here after the named applicant shall be referred to as the permittee. Subject to the conditions of General Permit No. 3-9010 Amended (May 2007), the permittee is authorized to discharge stormwater from the Burlington International Airport (BTV) facilities in South Burlington, Vermont as follows: (1) the BTV north runway to an unnamed tributary of the Winooski River previously described in General Permit Authorization 3028-9010 and Individual Permit No. 1-0839 discharge point 1 (S/N 001); (2) the north end terminal expansion and concrete apron to an unnamed tributary of the Winooski River and groundwater in the Winooski River watershed previously described in General Permit Authorization 3972-9015 (S/N 002); (3) parking lots, roofs and roads associated with expanded BTV parking facilities to an unnamed tributary of the Winooski River and groundwater in the Winooski River watershed previously described in General Permit Authorization 3028-9010 and Individual Permit No. 1-1580 (S/N 003-4); (4) the Pratt & Whitney Building located at 15 Eagle Drive to a wetland contiguous with Muddy Brook previously described in Individual Permit No. 1-1270 (S/N 005-6); (5) the Building 880 replacement located on Aviation Avenue to a wetland contiguous with Muddy Brook previously described in General Permit Authorization 3845-9015 (S/N 007); (6) the South End development Phase 2 project to a wetland contiguous with Muddy Brook previously described in General Permit Authorization 4026-9015 (S/N 008); and (7) the Quarry Overflow Parking Area to groundwater in the Muddy Brook watershed previously described in General Permit Authorization 3028-9015 (S/N 009).

Manner of Discharge:

S/N 001: Stormwater runoff from the airport runway via a network of catch basins and storm drains including grass-lined swales, a trench drain on the terminal apron, several dry wells and perforated storm drain pipe, then through a rip-rapped outlet, prior to discharge to an unnamed tributary of the Winooski River.

S/N 002: Stormwater runoff from the north end of the airport terminal and concrete apron via a closed system to a Vortechs/StormTech treatment system that discharges to groundwater, with overflow to an unnamed tributary to the

Winooski River. During periods of plane de-icing stormwater runoff will be diverted to a pump station and disposed of in an underground infiltration system

Note: infiltrated discharges are covered under the VTDEC Underground Injection Control Program.

S/N 003: Stormwater runoff from impervious surfaces associated with the deck of the new garage, rental car lot, long-term lot, loop road extension, garage exit ramps, and rental lot, via area drains, catch basins, grass swale and closed system to an unnamed tributary to the Winooski River.

S/N 004: Stormwater runoff from impervious surfaces associated with the employee and long-term parking lots (Catchment #2) via catch basins to a closed system to an exfiltrating sand filter to groundwater in the Winooski River watershed.

S/N 005: Stormwater runoff from the Pratt & Whitney building and parking area via grassed swales to a collection system, then discharging to a wetland tributary to Muddy Brook.

S/N006: Stormwater runoff from the Pratt & Whitney access road via overland flow then discharging to a wetland tributary to Muddy Brook.

S/N007: Stormwater runoff from the BTV Building 880 replacement project eastern rooftop and paved parking areas via closed piping system, and from western rooftop and paved parking areas via grass channel to a closed piping system, discharging to a wetland tributary to Muddy Brook

S/N008: Stormwater runoff from paved parking areas and rooftops via sheet flow to grassed channels and pipes conveyed to an infiltration basin and Vortech underground storage vault, then discharging to a wetland tributary to Muddy Brook. Note: infiltrated discharges are covered under the VTDEC Underground Injection Control Program.

S/N009: Stormwater runoff from the expanded portion of the south end quarry (0.105 acres of new impervious) via overland sheet flow to vegetated areas for treatment in accordance with the Disconnection of Non-rooftop Runoff Credit and then conveyed via a grass channel to the existing quarry discharging to groundwater in the Muddy Brook watershed.

Compliance with General Permit 3-9010 Amended (May 2007) and this Authorization
The permittee shall comply with this authorization and all the terms and conditions of General Permit 3-9010 Amended (May 2007), including the payment of annual operating fees to the Department. A billing statement for such fees will be sent to the permittee each year. The first year's statement is enclosed. Any permit non-compliance, including a failure to pay the annual operating fee, constitutes a violation of 10 V.S.A. Chapter 47 and may be grounds for an enforcement action or revocation of this authorization to discharge.

Transferability

This authorization to discharge is not transferable to any person except in compliance with Part VI.D. of General Permit 3-9010 Amended (May 2007). A copy of General Permit 3-9010 Amended (May 2007) is available from the Department via the internet at http://www.vtwaterquality.org/stormwater/htm/sw_3-9010.htm

Changes to Permitted Development

In accordance with Part V.G. of General Permit 3-9010 Amended (May 2007), the permittee shall notify the Department of any planned development or facility expansions or changes that may result in new or increased stormwater discharges. The Department shall determine the appropriateness of continued inclusion under General Permit 3-9010 Amended (May 2007) by the modified development or facility.

Annual Inspection and Report

The stormwater collection, treatment and control system authorized herein shall be properly operated and maintained. An inspection shall be conducted between the conclusion of spring snow melt and June 15th of each year. The inspection shall evaluate the operation and maintenance and condition of the stormwater collection, treatment and control system. The permittee shall prepare an annual inspection report on a form available from the Department. The permittee shall submit an inspection report to the Department by July 15th of each year or by July 30th if performed by a utility or municipality pursuant to a duly adopted stormwater management ordinance.

Restatement of Compliance

Every 3 years, the permittee shall submit to the Department a written statement signed by a designer that the stormwater collection, treatment and control system authorized herein is properly operating and maintained. The first re-statement of compliance is due December 22, 2012. Failure to submit a designer's restatement of compliance shall constitute a violation of General Permit 3-9010 Amended (May 2007) and may result in the revocation of this authorization to discharge.

Filing of this Authorization with Local Land Records

In accordance with Part VI.N. of General Permit 3-9010 Amended (May 2007), the permittee shall file a copy of this authorization to discharge in the land records within seven (7) days of its issuance and a copy of the recording shall be provided to the Department within fourteen (14) days of the permittee's receipt of a copy of the recording from the local land records.

Rights to Appeal to the Environmental Court

Pursuant to 10 V.S.A. Chapter 220, any appeal of this decision must be filed with the clerk of the Environmental Court within 30 days of the date of the decision. The appellant must attach to the Notice of Appeal the entry fee of \$250.00, payable to the state of Vermont. The Notice of Appeal must specify the parties taking the appeal and the statutory provision under which each party claims party status; must designate the act or decision appealed from; must name the Environmental Court; and must be signed by the appellant or their attorney. In addition, the appeal must give the address or location and description of the property, project or facility with which the appeal is concerned and the name of the applicant or any permit involved in the appeal. The appellant must also

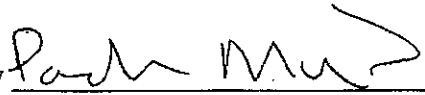
serve a copy of the Notice of Appeal in accordance with Rule 5(b)(4)(B) of the Vermont Rules for Environmental Court Proceedings. For further information, see the Vermont Rules for Environmental Court Proceedings, available on line at www.vermontjudiciary.org. The address for the Environmental Court is 2418 Airport Road, Suite 1, Barre, VT 05641 (Tel. # 802-828-1660).

Effective Date and Expiration Date of this Authorization

This amended authorization to discharge shall become effective on December 22, 2009 and shall continue until December 22, 2019. The permittee shall reapply for coverage at least sixty (60) days prior to December 22, 2019.

Dated at Waterbury, VT this 22nd day of December, 2009.

Justin G. Johnson, Commissioner
Department of Environmental Conservation

By 

Padraic Monks
Stormwater Program Manager

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BURLINGTON INTERNATIONAL AIRPORT

Permit No. 1-1391 (South Apron Expansion)

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File No. 04-04
Permit No. 1-1391
PIN No. EJ96-0386

STATE OF VERMONT
AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DISCHARGE PERMIT
STORMWATER RUNOFF INTO DRAINAGE WELLS

In compliance with provisions of 10 V.S.A. 1263

Burlington International Airport
1200 Airport Drive #1
South Burlington, VT 05403

and in accordance with "Terms and Conditions" hereinafter specified, the above named permittee is hereby granted permission to discharge stormwater runoff from the taxiways and ramp from the Burlington International Airport 'South Apron Expansion', South Burlington, VT to groundwater via a stormwater drainage well.

1. Expiration Date: September 30, 2004. Note: This permit, unless revoked, shall be valid until the designated expiration date despite any intervening change in water quality, effluent, or treatment standards of the classification of the receiving waters, including groundwater. However, any such changed standard or classification shall be applied in determining whether or not to renew the permit pursuant to 10 V.S.A. 1263.

Re-apply for a discharge permit by March 31, 2004.

2. Revocation: 10 V.S.A. 1267 provides as follows:

"The Secretary may revoke any permit issued by him pursuant to this subchapter if he finds that the permit holder submitted false or inaccurate information in his application or has violated any requirement, restriction, or condition of the permit issued. Revocation shall be effective upon actual notice thereof to the permit holder."

3. Transfer of Permit: This permit is not transferable without prior written approval of the Secretary. The permittee shall notify the Secretary immediately, in writing, of any sale, lease, or other transfer of ownership of the property from which the discharge originates. The permittee shall provide a copy of this permit to the new owner or tenant and shall inform the new owner or tenant of his responsibility to make application for a permit which shall be issued in his name. Any failure to do so shall be considered a violation of this permit.
4. Right of Entry : The permittee shall allow the Secretary or their authorized representative, upon presentation of credentials, to enter the permittee's premises where the effluent sources authorized by this permit are located and at reasonable times to have access to copy any records required to be kept under the terms and conditions of this permit, and to inspect any treatment device, monitoring equipment, or monitoring method required in this permit, and to sample any discharge of pollutants.

5. Receiving Waters: Groundwater.
6. Manner of Discharge:
S/N 001 (infiltration basin trench): Stormwater from the South Apron expansion (ramp and taxiways) collected in catch basins and piped to a 'Vortechs' treatment unit, then discharging to an infiltration trench system which in turn infiltrates into the groundwater.
7. Wastes Permitted:
Stormwater runoff from the taxiways and ramp after treatment via 'Vortechs' treatment unit.
8. Volumes Permitted and Frequency of Discharge: Such volumes and frequency as required by the discharges specified in No. 6 above
9. Approved Project Design: Treatment as specified in No.7 above. The project shall be constructed and operated in accordance with the Edwards and Kelcey, Inc plans specified below, and supporting information:

Sheet 13, 18, and 19 of 34, dated 8/18/99

By reference the above noted plans are made a part of this permit.

10. Maintenance and Maintenance Reporting Requirements:
 - a. The permittee shall inspect the Vortechs unit and measure the accumulated sediment volume in the aluminum grit chamber quarterly.
 - b. The permittee shall remove the accumulated sediment and clean the Vortechs unit when the sediment depth has accumulated to within 6 inches of the dry-weather water level.
 - i. The permittee shall strictly follow the maintenance procedures prescribed by the manufacturer when removing sediment.
 - c. Any sediment removed from the swales, or sedimentation basin shall be disposed of properly and not within 100 feet of Waters of the State.
 - d. By **SEPTEMBER 30 OF EACH YEAR** a written report shall be submitted to the Department of Environmental Conservation, 103 South Main Street, Waterbury, VT 05671-0405. This report shall include, as a minimum:
 - i. the dates of inspection and sediment depth measurements for the year.
 - ii. the dates of sediment removal and an estimate of the volume removed.
 - f. Any stormwater devices used during construction for erosion control shall be inspected and cleaned to design specifications immediately after construction has been completed.
11. Personnel and Training Requirements: Such personnel and training as necessary to fulfill the requirements of #10 above.

12. Monitoring and Reporting Requirement:

a. *By no later than September 30, 2001*, the permittee shall submit a study to the Department documenting the efficiency of the 'Vortechs' unit. This study shall investigate the removal efficiency of the 'Vortechs' unit for total suspended solids (TSS) and total petroleum hydrocarbons (TPH) and shall include the following:

i. a minimum of six storm events shall be sampled.

ii. the study shall follow the same protocol as used in the Delorme Publishing Company, Yarmouth, ME. field study.

iii. sediment depth, system maintenance activities, etc. shall also be noted in the report and considered.

iv. the study shall be conducted by an independent entity other than the manufacturer of the treatment unit.

b. Other reporting required as specified in #10 above.

13. Other Requirements:

a. Treated stormwater runoff is the only waste authorized for disposal under the terms and conditions of this permit. The discharge for any hazardous materials or hazardous waste into the stormwater management system is prohibited.

b. The permittee shall contact the Agency of Natural Resources, Wastewater Management Division, within 24 hours or the next business day if a spill occurs and materials enter the stormwater collection system.

14. Issue Date of Permit:

December 9, 1999

AGENCY OF NATURAL RESOURCES
Canute E. Dalmasse, Commissioner
Department of Environmental Conservation

By

Marilyn J. Davis
Marilyn J. Davis, Director
Wastewater Management Division

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BURLINGTON INTERNATIONAL AIRPORT

Permit No. 1-0839 (Redirect Airfield Drainage to North Outfall)

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STATE OF VERMONT
AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Page 1 of 3

DISCHARGE PERMIT

File No. 04-14-052

Permit No. 1-0839

In compliance with provisions of 10 V.S.A. 1263

Burlington International Airport
Box 1 - Airport Drive
Burlington, Vermont 05401

and in accordance with "Terms and Conditions" hereinafter specified, the above named permittee is hereby granted permission to discharge stormwater runoff from the Burlington International Airport to an unnamed tributary of the Winooski River and an unnamed tributary of Potash Brook.

1. Expiration Date: March 31, 1995. Note: This permit, unless revoked, shall be valid until the designated expiration date despite any intervening change in water quality, effluent, or treatment standards or the classification of the receiving waters. However, any such changed standard or classification shall be applied in determining whether or not to renew the permit pursuant to 10 V.S.A. 1263.

Reapply for a discharge permit by September 30, 1994.

2. Revocation: 10 V.S.A. 1267 provides as follows:

"The Secretary may revoke any permit issued by him pursuant to this subchapter if he finds that the permit holder submitted false or inaccurate information in his application or has violated any requirement, restriction, or condition of the permit issued. Revocation shall be effective upon actual notice thereof to the permit holder."

3. Transfer of Permit: This permit is not transferable without prior written approval of the Secretary. The permittee shall notify the Secretary immediately, in writing, of any sale, lease, or other transfer of ownership of the property from which the discharge originates. The permittee shall also inform the new owner or tenant of his responsibility to make application for a permit which shall be issued in his name. Any failure to do so shall be considered a violation of this permit.

4. Receiving Waters:

- S/N 001 - Unnamed tributary of the Winooski River.
- S/N 002 - Unnamed tributary of Potash Brook.
- S/N 003 - Unnamed tributary of Potash Brook.

5. Manner of Discharge:

S/N 001 - Via a network of catch basins and storm drains, through a rip-rapped outlet, prior to discharge to an unnamed tributary of the Winooski River. The drainage network includes grass-lined swales, a trench drain on the terminal apron, some leaching catch basins, an oil/water separator, and a section of perforated storm drain pipe.

S/N 002 - Via overland flow across vegetated terrain to a network of catch basins, through perforated storm drains, including a series of lateral exfiltrating underdrains, to a rip-rapped outlet, prior to discharge to an unnamed wetland, which discharges to a tributary of Potash Brook.

S/N 003 - Via overland flow across vegetated terrain to a network of catch basins, through perforated storm drains to a rip-rapped outlet, prior to discharge to an unnamed tributary of Potash Brook.

6. Wastes Permitted:

S/N 001 - Stormwater runoff from roofs, the airport terminal apron, paved runways, taxiways, roads and parking areas, following treatment by overland flow across vegetated terrain, in grass-lined drainage swales, and in an oil/water separator.

S/N 002 - Stormwater runoff from the southern section of taxiway A, following treatment by overland flow across vegetated terrain.

S/N 003 - Stormwater runoff from taxiway G3, following treatment by overland flow across vegetated terrain.

Note: Discharge point S/N 001 incorporates stormwater discharges from areas previously permitted by Amended Temporary Pollution Permit #2-0188.

7. Volumes Permitted: Such volumes as required by the discharge specified in #5 above.

8. Frequency of Discharge: Daily

9. Operation and Treatment: Treatment as specified in #6 above. For details on the treatment and conveyance of stormwater runoff for this project see the following plans and details:
- Hoyle, Tanner and Associates (1983)
 - Wiemann-Lamphere, Architects (September 1985)
 - Hoyle, Tanner and Associates (August 1986)
 - Hoyle, Tanner and Associates (February 1989)
 - Hoyle, Tanner and Associates (January and March 1990)
10. Maintenance and Maintenance Reporting Requirements: All catch basins, grass-lined swales, sedimentation ponds, and other treatment and conveyance devices shall be maintained in good operating order at all times and shall be inspected at least quarterly and cleaned at such times as necessary to maintain design performance levels. NO LATER THAN JANUARY 31 OF EACH YEAR A WRITTEN REPORT SHALL BE SUBMITTED TO THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NPDES PERMIT SECTION, 103 SOUTH MAIN STREET, WATERBURY, VERMONT 05676, PROVIDING THE DATES AND NATURE OF CLEANING OPERATIONS CARRIED OUT IN THE PRECEDING YEAR.
11. Personnel and Training Requirements: Such personnel and training as necessary to fulfill the requirements of #10 above.
12. Monitoring and Reporting Requirements: No monitoring required; reporting requirement as specified in #10 above.
13. Miscellaneous Requirements: Not applicable
14. Issue Date of Permit: 11 Jun 1990

Timothy J. Burke, Commissioner
Department of Environmental Conservation

By Gary Schultz
Gary Schultz, Director
Permits, Compliance & Protection

Todd Steinbach
Prepared and Reviewed by

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BURLINGTON INTERNATIONAL AIRPORT

Permit No. 3028-INDS.A (Taxiways 'B', 'C', 'J', and 'G')

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Vermont Department of Environmental Conservation
Water Quality Division
103 South Main Street, Building 10 North
Waterbury, VT 05671-0408

Agency of Natural Resources

[phone] 802-241-3770
[fax] 802-241-3287

September 13, 2010

City of Burlington, BTV International Airport
Robert McEwing / Heather Kendrew
1200 Airport Drive, #1
South Burlington, VT 05403

RECEIVED

SEP 14 2010

STANTEC
SOUTH BURLINGTON, VT

Re: Discharge Permit # 3028-INDS.A

Dear Mr. McEwing and Ms. Kendrew,

Enclosed is your copy of Discharge Permit #3028-INDS.A which has been signed by the Program Manager of the Stormwater Management Section on behalf of the Commissioner of the Department of Environmental Conservation.

The amended permit authorizes the discharge of treated stormwater runoff from reconstructed Taxiways 'B' and 'C', and relocated Taxiway 'J', and newly constructed Taxiway 'G': AIP No. 3-50-0005-XX-2009, located at the Burlington International Airport in South Burlington, to Muddy Brook and a Class 2 wetland contiguous to Potash Brook. Stormwater Discharge Permit #3028-INDS.A amends and replaces the previously issued Stormwater Discharge permit (3028-INDS) issued for this project. This amended permit incorporates a project change that resulted in an increase of 0.91 acres of impervious surface in the Muddy Brook watershed (Drainage Area S/N 001).

Please read this permit carefully and note the inspection, maintenance, and reporting requirements, and other operating conditions including operating fees. A billing statement for payment of annual operating fees will be sent at a later date.

Since we did not receive any public comments during the notice period, the final permit is unchanged from the draft that was placed on public notice.

If you have any questions, please call me at (802) 241- 1418.

Sincerely,



Environmental Analyst
Stormwater Section

Enclosures

cc: ✓ Greg Goyette, P.E., Stantec
Peter Keibel, Act 250 District Coordinator, Essex

STATE OF VERMONT
AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STORMWATER DISCHARGE PERMIT

STORMWATER RUNOFF TO WATERS OF THE STATE

In compliance with provisions of 10 V.S.A. §§1264 and 1264a, the Stormwater Management Rule for Stormwater-Impaired Waters, the Stormwater Management Rule, and in accordance with "Terms and Conditions" hereinafter specified,

City of Burlington, Burlington International Airport
1200 Airport Drive, #1
South Burlington, VT 05403
(Impervious Area: 20.33 acres)

the permittee, is hereby granted permission to discharge stormwater runoff from reconstructed Taxiways 'B' and 'C', and relocated Taxiway 'J' and newly constructed Taxiway 'G': AIP No. 3-50-0005-XX-2009, located at the Burlington International Airport, 1200 Airport Drive, #1, in South Burlington, Vermont. Stormwater from the project discharges to Muddy Brook and a Class 2 wetland contiguous to Potash Brook. Stormwater Discharge Permit #3028-INDS.A amends and replaces the previously issued stormwater Discharge permit (3028-INDS) issued for this project. This amended permit incorporates a project change that resulted in an increase of 0.91 acres of impervious surface in the Muddy Brook watershed (Drainage Area S/N 001).

1. Expiration Date: Five years from issuance date of final permit. Note: This permit, unless revoked, modified or suspended, shall be valid until the designated expiration date notwithstanding any intervening change in water quality, effluent, or treatment standards, or classification of the receiving waters including groundwater. However, any such changed standard or classification, and any applicable requirement in a total maximum daily load (TMDL) for the receiving water, shall be applied in determining whether or not to renew this permit, and in determining the conditions of a renewed permit.

The permittee shall reapply for a renewed discharge permit ninety days prior to the expiration date of this permit.

2. Revocation: 10 V.S.A. §1267 provides as follows:

The Secretary may, after notice and opportunity for a public hearing, revoke, modify or suspend this permit if it is found that the permittee submitted false or inaccurate information in its application or has violated any requirement, restrictions, or condition of this permit, or if there is any change in any condition that requires either a temporary or permanent reduction, or elimination of the permitted discharge. The Secretary shall impose conditions as the Secretary deems necessary for regulating the discharges of a permittee whose permit has been revoked, modified or suspended. Revocation shall be effective upon actual notice thereof to the permittee.

3. Operating Fees: This discharge is subject to operating fees under 3 V.S.A. §2822. The

permittee shall submit the operating fees to the Agency in accordance with procedures provided by the Secretary.

4. Recording in Land Use Records: The permittee shall record a one-page notice of issuance of this discharge permit in the local land records within fourteen (14) days of issuance of this permit on the form provided by the Secretary, per §22-312 of Stormwater Management Rule For Stormwater Impaired Waters. The permittee shall provide a copy of the recording to the Secretary within fourteen (14) days of the permittee's receipt of the copy of the recording from the local land records.
5. Transfer of Permit: This permit is not transferable without prior written approval of the Secretary. Provided all applicable fees under 3 V.S.A. §2822 have been paid, a permittee may submit a notice of transfer to the Secretary. The notice shall be submitted at least five (5) days prior to the proposed date of transfer. The notice shall state that the prospective permittee has adequate funding to comply with this permit. The permittee shall provide a copy of this permit to the new owner or tenant and inform him of the responsibility to make application for a permit which shall be issued in his name. Any failure to do so shall be considered a violation of this permit.
6. Right of Entry: The permittee shall allow the Secretary, or his or her authorized representatives, at reasonable times, upon presentation of credentials, to enter upon and inspect the permitted premises, and the stormwater collection, treatment and control system and to sample any discharge to determine compliance with this permit and to have access to and inspect and copy any records required to be kept pursuant to this permit.
7. Receiving Waters: Muddy Brook (S/N 001) and a Class 2 Wetland contiguous to Potash Brook (S/N 002).
8. Manner of Discharge:

S/N 001: Stormwater runoff from taxiway surfaces via sheet flow over designated vegetated disconnection areas, then via overland flow discharging to groundwater, to a catch basin and pipe closed drainage system, or via conveyance swale, discharging to Muddy Brook.

Stormwater runoff from taxiway surfaces via sheet flow for treatment in Grass Channel #1, with underdrain, routed to a catch basin and pipe closed drainage system, discharging to Muddy Brook.

Stormwater runoff from runway and taxiway surfaces via sheet flow for treatment in Grass Channel #2, with underdrain, routed to a catch basin and pipe closed drainage system, discharging to Muddy Brook.

Stormwater runoff from runway and taxiway surfaces via sheet flow for treatment in Grass Channel #3, with underdrain, routed to a catch basin and pipe closed drainage system, discharging to Muddy Brook.

Stormwater runoff from taxiway surfaces via sheet flow for treatment in Grass Channel #4, with underdrain, routed to a catch basin and pipe closed drainage system, discharging to Muddy Brook.

Note: The VT DEC Stormwater Program's *Site Balancing Procedure for the Discharge of Stormwater Runoff from the Expansion or Redevelopment of Impervious Surfaces* was utilized to meet applicable treatment standards in drainage area S/N 001, discharging to Muddy Brook. In addition, areas of impervious surface previously authorized under Discharge Permit #1-0839, drainage area S/N 003, were redeveloped, subject to the Agency's 2002 Stormwater Management Manual, and are now covered by this discharge permit.

S/N 002: Stormwater runoff from taxiway surfaces via sheet flow over designated vegetated disconnection areas, then overland flow discharging to a catch basin and pipe closed drainage system, discharging to a Class 2 wetland contiguous to Potash Brook.

9. Wastes Permitted: Stormwater runoff from S/N 001 and S/N 002 after treatment in 4 grass channels and via sheet flow in compliance with the Disconnection of Non-Rooftop Runoff Credit.
10. Volumes Permitted and Frequency of Discharge: Such volumes and frequency as required by the discharge specified in #8 above.
11. Approved Project Design: This project shall be constructed and operated in accordance with the following site plans and details prepared by *Stantec* and by *Campbell & Paris Engineers*, and supporting information:

Stantec

Drawing No. 1, "Stormwater Management Plan," dated 5/28/2009;
 Drawing No. 16, "Grading and Drainage Plan, Sheet 1 of 2," dated 5/28/2009;
 Drawing No. 17, "Grading and Drainage Plan, Sheet 2 of 2," dated 5/28/2009;
 Drawing No. 19, "Drainage Details," dated 5/28/2009;
 Drawing No. 21, "Typical Sections," dated 5/28/2009;
 Drawing No. 22, "Typical Sections and Pavement Details," dated 5/28/2009.

Campbell & Paris Engineers

Sheets SW2 and SW3, "Stormwater Management Plan," dated 3/25/2009, and last revised 02/2010;
 Sheets SW4 through SW7, "Stormwater Management Plan," dated 3/25/2009;
 Sheets 20 and 21, "Schedule 1 Grading & Drainage Plan," dated 5/14/2009;
 Sheet 22, "Schedule 2 Grading & Drainage Plan," dated 5/14/2009;
 Sheet 36, "Pavement and Typical Sections & Misc. Details," dated 5/14/2009;
 Sheet 20A, "Schedule IV Grading & Drainage Plan," dated 5/14/2009, and last revised 5/2009.

By reference, the above noted plans are made a part of this permit.

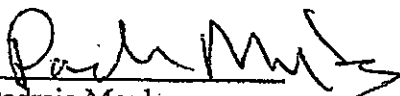
12. Maintenance and Maintenance Reporting Requirements:
 - a. The basins, swales, and related stormwater collection, treatment and control system shall be maintained in good operating condition at all times and shall be inspected annually and cleaned as necessary to maintain design specifications. The inspections shall be conducted between the conclusion of spring snow melt and June 15th of each year.

- b. Any sediment removed from the swales or basins shall be disposed of properly in accordance with state and federal statutes and regulations.
 - c. **By July 15 of each year the permittee shall submit a written report to the Department of Environmental Conservation, Water Quality Division, Building 10 North, 103 South Main Street, Waterbury, Vermont 05671-0408. This report shall include, at a minimum:**
 - i. for the first report, an inspection and verification that the project was built in compliance with the Approved Project Design per #11 above;
 - ii. the dates and details of any cleaning and maintenance operations carried out in the preceding year;
 - iii. a narrative summarizing the results of any inspections conducted in the preceding year and highlighting any stormwater related problems encountered, and all remedial steps taken in response;
 - d. Should any erosional problems occur, the permittee is required to immediately correct any such problems.
 - e. Any basins, swales, or related stormwater devices used during construction for erosion control shall be inspected and cleaned to design specifications immediately after construction has been completed.
13. Description of Required Offset: In order to meet the statutory standard for new discharges set forth in 10 V.S.A. §1264a and the Stormwater Management Rule for Stormwater Impaired Waters, the permittee has demonstrated that the project area located in the Potash Brook watershed will not increase the pollutant load over existing conditions. This has been accomplished by treating runoff from existing impervious surfaces within the Potash Brook watershed project limits. This portion of the project achieves a net reduction in sediment loading to Potash Brook of 3,466 pounds per year .
14. Personnel and Training Requirements: Such personnel and training as necessary to fulfill the requirements of #12 above.
15. Monitoring and Reporting Requirement: No monitoring required; reporting requirement as specified in #12 above.
16. Other Requirements:
- a. Treated stormwater runoff is the only waste authorized for disposal under the terms and conditions of this permit. The discharge of any hazardous materials or hazardous waste into the stormwater management system is prohibited.
 - b. The issuance of this permit does not relieve the permittee from the responsibility to obtain any other local, state or federal permits required by law.
17. Secretary's Determination: The Secretary has determined that this project meets the requirements of the Agency's 2002 Stormwater Management Manual and does not increase the

sediment or hydrologic load of the receiving stormwater-impaired waters. The Secretary has determined that the proposed discharge will not reduce the quality of the receiving waters below the classification established for them.

18. Right to Appeal to the Environmental Court: Pursuant to 10 V.S.A. Chapter 220, any appeal of this decision must be filed with the clerk of the Environmental Court within 30 days of the date of the decision. The appellant must attach to the Notice of Appeal the entry fee of \$250.00, payable to the state of Vermont. The Notice of Appeal must specify the parties taking the appeal and the statutory provision under which each party claims party status; must designate the act or decision appealed from; must name the Environmental Court; and must be signed by the appellant or their attorney. In addition, the appeal must give the address or location and description of the property, project or facility with which the appeal is concerned and the name of the applicant or any permit involved in the appeal. The appellant must also serve a copy of the Notice of Appeal in accordance with Rule 5(b)(4)(B) of the Vermont Rules for Environmental Court Proceedings. For further information, see the Vermont Rules for Environmental Court Proceedings, available on line at www.vermontjudiciary.org. address for the Environmental Court is 2418 Airport Road, Suite 1, Barre, VT 05641 (Tel. # 802-828-1660).
19. Dated at Waterbury, VT this 13th day of September, 2010

Justin G. Johnson, Commissioner
Department of Environmental Conservation

By 
Padraic Monks
Stormwater Program Manager
Water Quality Division

**AGENCY OF NATURAL RESOURCES
STORMWATER MANAGEMENT PROGRAM**

APPLICATION FOR TRANSFER

An individual stormwater discharge permit or authorization to discharge under a general stormwater discharge permit is not transferable without the prior written approval of the Secretary of the Agency of Natural Resources. This Application for Transfer must be submitted at least five (5) days prior to the proposed date of transfer. All applicable fees under 3 V.S.A. §2822 must be paid before the Secretary will approve any transfer.

Please provide the following information:

1. Stormwater Discharge Permit No. or Notice of Intent No. (for proposed transfer of an Authorization to Discharge under a General Permit): _____
2. Name, Address and Phone Number of Current Permittee(s):

3. Name, Address and Phone Number of Prospective Permittee(s):

4. Proposed date of transfer: _____
5. Provide a statement signed by the prospective permittee(s) that:
 - a. the conditions of the facility operation that contribute to, or affect, the stormwater discharge will not be materially different under the new ownership;
 - b. the prospective permittee has read and is familiar with the terms of the individual stormwater discharge permit or the authorization to discharge and general permit, and agrees to comply with all of the terms and conditions of the individual stormwater discharge permit or the authorization to discharge and general permit, whichever is applicable;
 - c. the prospective permittee(s) has adequate funding or other means to effect compliance with the terms and conditions of the individual stormwater discharge permit or the authorization to discharge and general permit, whichever is applicable.

6. Signatures:

Name of Current Permittee(s): _____

Signature and Title of Authorized Representative(s) _____

Date _____

Name of Prospective Permittee(s): _____

Signature and Title of Authorized Representative(s) _____

Date _____

This Application for Transfer is hereby approved by the Secretary of the Agency of Natural Resources.

Signature: _____

Title: _____

Date: _____

BURLINGTON INTERNATIONAL AIRPORT

Permit No. 3028-INDS.1 (Reconstruct, Mark, and Groove Runway 15-33)

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VERMONT

Vermont Department of Environmental Conservation
Water Quality Division
103 South Main Street, Building 10 North
Waterbury, VT 05671-0408

Agency of Natural Resources

[phone] 802-241-3770
[fax] 802-241-3287

May 14, 2010

Heather Kendrew
City of Burlington
Burlington International Airport
1200 Airport Drive, #1
South Burlington, VT 05403

RECEIVED
MAY 17 2010
STANTEC
SOUTH BURLINGTON, VT

Re: Discharge Permit # 3028-INDS.1

Dear Heather:

Enclosed is your copy of Discharge Permit # 3028-INDS.1 which has been signed by the Director of Water Quality Division on behalf of the Commissioner of the Department of Environmental Conservation.

The permit authorizes the discharge of treated stormwater runoff from your proposed project, BTV Reconstruct, Mark & Groove Runway 15-33; AIP No. 3-50-0005-XX in South Burlington, Vermont to unnamed tributaries of the Winooski River, Muddy Brook, and to groundwater in the unnamed tributary to the Winooski River watershed and to groundwater in the Muddy Brook watershed.

Please read this permit carefully and note the inspection, maintenance, and reporting requirements, and other operating conditions including operating fees. Since we did not receive any public comments during the notice period, the final permit is unchanged from the draft that was placed on public notice.

If you have any questions, please call me at (802) 241- 1418.

Sincerely,

Kevin Burke
Environmental Analyst
Stormwater Section

Enclosures

cc: Todd F. Duguay, EIT, Stantec Consulting Services, Inc.
Peter Keibel, Act 250 District Coordinator, Essex

STATE OF VERMONT
AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STORMWATER DISCHARGE PERMIT

STORMWATER RUNOFF TO WATERS OF THE STATE

In compliance with provisions of 10 V.S.A. §1264 and the Stormwater Management Rule and in accordance with "Terms and Conditions" hereinafter specified,

City of Burlington, Burlington International Airport
1200 Airport Drive, #1
South Burlington, VT 05403

the permittee, is hereby granted permission to discharge stormwater runoff from the Burlington International Airport; BTV Reconstruct, Mark & Groove Runway 15-33; AIP No. 3-50-0005-XX, located in South Burlington, Vermont. Stormwater from the project discharges to unnamed tributaries of the Winooski River, Muddy Brook, and to groundwater in the unnamed tributary to the Winooski River watershed and to groundwater in the Muddy Brook watershed.

1. Expiration Date: Five years from issuance date of final permit. Note: This permit, unless revoked, modified or suspended, shall be valid until the designated expiration date notwithstanding any intervening change in water quality, effluent, or treatment standards, or classification of the receiving waters including groundwater. However, any such changed standard or classification, and any applicable requirement in a total maximum daily load (TMDL) for the receiving water, shall be applied in determining whether or not to renew this permit, and in determining the conditions of a renewed permit.

The permittee shall reapply for a renewed discharge permit ninety days prior to the expiration date of this permit.

2. Revocation: 10 V.S.A. §1267 provides as follows:

The Secretary may, after notice and opportunity for a public hearing, revoke, modify or suspend this permit if it is found that the permittee submitted false or inaccurate information in its application or has violated any requirement, restrictions, or condition of this permit, or if there is any change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge. The Secretary shall impose conditions as the Secretary deems necessary for regulating the discharges of a permittee whose permit has been revoked, modified or suspended. Revocation shall be effective upon actual notice thereof to the permittee.

3. Operating Fees: This discharge is subject to operating fees under 3 V.S.A. §2822. The permittee shall submit the operating fees to the Agency in accordance with procedures provided by the Secretary.

4. Recording in Land Use Records: The permittee shall record a one-page notice of issuance of this discharge permit in the local land records within fourteen (14) days of issuance of this permit on the form provided by the Secretary, per §18-312 of Stormwater Management Rule. The permittee shall provide a copy of the recording to the Secretary within fourteen (14) days of the permittee's receipt of the copy of the recording from the local land records.

5. Transfer of Permit: This permit is not transferable without prior written approval of the Secretary. Provided all applicable fees under 3 V.S.A. §2822 have been paid, a permittee may submit a notice of transfer to the Secretary. The notice shall be submitted at least five (5) days prior to the proposed date of transfer. The notice shall state that the prospective permittee has adequate funding to comply with this permit. The permittee shall provide a copy of this permit to the new owner or tenant and inform him of the responsibility to make application for a permit which shall be issued in his name. Any failure to do so shall be considered a violation of this permit.

6. Right of Entry: The permittee shall allow the Secretary, or his or her authorized representatives, at reasonable times, upon presentation of credentials, to enter upon and inspect the permitted premises, and the stormwater collection, treatment and control system and to sample any discharge to determine compliance with this permit and to have access to and inspect and copy any records required to be kept pursuant to this permit.

7. Receiving Waters: Unnamed tributaries of the Winooski River, Muddy Brook, and to groundwater in the unnamed tributary to the Winooski River watershed and to groundwater in the Muddy Brook watershed.

8. Manner of Discharge:

S/N 001: Stormwater runoff from taxiway and runway surfaces via disconnected sheet flow over vegetated areas, then to catch basin and pipe, closed drainage system, discharging to an unnamed tributary of the Winooski River.

Stormwater runoff from taxiway and runway surfaces via disconnected sheet flow over vegetated areas, then overland to a dry swale (detention area #3), discharging to catch basin and pipe, closed drainage system to an unnamed tributary of the Winooski River.

S/N 002: Stormwater runoff from taxiway and runway surfaces via disconnected sheet flow over vegetated areas, then to catch basin and pipe, closed drainage system, discharging to an unnamed tributary of the Winooski River.

Stormwater runoff from taxiway and runway surfaces via disconnected sheet flow over vegetated areas, then overland to an underground detention system (detention area #1), then to catch basin and pipe, closed drainage system discharging to an unnamed tributary of the Winooski River.

Stormwater runoff from taxiway and runway surfaces via disconnected sheet flow over vegetated areas and via channel flow, to catch basin and pipe, closed drainage system, routed to an underground detention area (detention area #2), infiltrating to groundwater, and discharging to closed drainage system to an unnamed tributary of the Winooski River.

S/N 003: Stormwater runoff from taxiway and runway surfaces via disconnected sheet flow over vegetated areas, then overland to a grass swale, routed to the Vermont Air National Guard closed drainage system, discharging to an unnamed tributary to the Winooski River.

S/N 004: Stormwater runoff from taxiway and runway surfaces via disconnected sheet flow over vegetated areas, then overland to existing closed drainage infiltration system, discharging to groundwater in the Muddy Brook watershed.

S/N 005: Stormwater runoff from taxiway and runway surfaces via disconnected sheet flow over vegetated areas, then overland to catch basin and pipe, closed drainage system, discharging to Muddy Brook.

S/N 006: Stormwater runoff from taxiway and runway surfaces via disconnected sheet flow over vegetated areas, then overland and via channel flow to catch basin and pipe, closed drainage system, routed to an underground infiltration area (detention area #4), infiltrating to groundwater in the Muddy Brook watershed

Note: The Disconnection of Non-Rooftop Runoff Credit utilized to meet applicable stormwater treatment standards. In addition, the *Site Balancing Procedure for the Discharge of Stormwater Runoff from the Expansion or Redevelopment of Impervious Surfaces* was utilized to meet applicable stormwater treatment standards.

9. Wastes Permitted: Stormwater runoff from S/N 001 through S/N 006 after treatment via disconnected overland flow, dry swale, and underground detention/infiltration areas.
10. Volumes Permitted and Frequency of Discharge: Such volumes and frequency as required by the discharge specified in #8 above.
11. Approved Project Design: This project shall be constructed and operated in accordance with the following site plans and details prepared by Stantec Consulting Services, Inc. and plans drawn by Hoyle, Tanner & Associates, Inc.: (Sheets G1.3, TS1.1, TS1.2, TS1.3, GR1.1, GR1.2, GR1.3, GR1.4, GR1.5, GR1.6, GR1.7, GR1.8, DR1.1, DR1.2, DR1.3, PD1.1, PD1.2, PD1.3, PD2.1, PD2.2, PD2.3, all dated March 2010; and all supporting information).

By reference, the above noted plans are made a part of this permit.

12. Maintenance and Maintenance Reporting Requirements:

- a. The detention/infiltration areas, swales, disconnection areas, and related stormwater collection, treatment and control system shall be maintained in good operating condition at all times and **shall be inspected annually and cleaned as necessary to maintain design specifications. The inspections shall be conducted between the conclusion of spring snow melt and June 15th of each year.**
- b. Any sediment removed from the detention/infiltration areas, swales, disconnection areas, and related stormwater collection, treatment and control system, shall be disposed of properly in accordance with state and federal statutes and regulations.
- c. **By July 15 of each year the permittee shall submit a written report to the Department of Environmental Conservation, Water Quality Division, Building 10 North, 103 South Main Street, Waterbury, Vermont 05671-0408. This report shall include, at a minimum:**
 - i. for the first report, an inspection and verification that the project was built in compliance with the Approved Project Design per #11 above;
 - ii. the dates and details of any cleaning and maintenance operations carried out in the preceding year;
 - iii. a narrative summarizing the results of any inspections conducted in the preceding year and highlighting any stormwater related problems encountered, and all remedial steps taken in response;
- d. Should any erosional problems occur, the permittee is required to immediately correct any such problems.
- e. Any detention areas, basins, swales, or related stormwater devices used during construction for erosion control shall be inspected and cleaned to design specifications immediately after construction has been completed.

13. Personnel and Training Requirements: Such personnel and training as necessary to fulfill the requirements of #12 above.

14. Monitoring and Reporting Requirement: No monitoring required; reporting requirement as specified in #12 above.

15. Other Requirements:

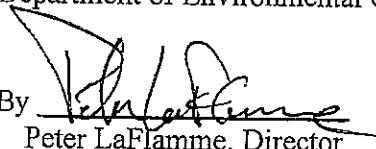
- a. Treated stormwater runoff is the only waste authorized for disposal under the terms and conditions of this permit. The discharge of any hazardous materials or hazardous waste into the stormwater management system is prohibited.

b. The issuance of this permit does not relieve the permittee from the responsibility to obtain any other local, state or federal permits required by law.

16. Right to Appeal to the Environmental Court: Pursuant to 10 V.S.A. Chapter 220, any appeal of this decision must be filed with the clerk of the Environmental Court within 30 days of the date of the decision. The appellant must attach to the Notice of Appeal the entry fee of \$250.00, payable to the state of Vermont. The Notice of Appeal must specify the parties taking the appeal and the statutory provision under which each party claims party status; must designate the act or decision appealed from; must name the Environmental Court; and must be signed by the appellant or their attorney. In addition, the appeal must give the address or location and description of the property, project or facility with which the appeal is concerned and the name of the applicant or any permit involved in the appeal. The appellant must also serve a copy of the Notice of Appeal in accordance with Rule 5(b)(4)(B) of the Vermont Rules for Environmental Court Proceedings. For further information, see the Vermont Rules for Environmental Court Proceedings, available on line at www.vermontjudiciary.org. address for the Environmental Court is 2418 Airport Road, Suite 1, Barre, VT 05641 (Tel. # 802-828-1660).

17. Dated at Waterbury, VT this 14th day of May, 2010

Justin G. Johnson, Commissioner
Department of Environmental Conservation

By 
Peter LaFlamme, Director
Water Quality Division

**AGENCY OF NATURAL RESOURCES
STORMWATER MANAGEMENT PROGRAM**

APPLICATION FOR TRANSFER

An individual stormwater discharge permit or authorization to discharge under a general stormwater discharge permit is not transferable without the prior written approval of the Secretary of the Agency of Natural Resources. This Application for Transfer must be submitted at least five (5) days prior to the proposed date of transfer. All applicable fees under 3 V.S.A. §2822 must be paid before the Secretary will approve any transfer.

Please provide the following information:

1. Stormwater Discharge Permit No. or Notice of Intent No. (for proposed transfer of an Authorization to Discharge under a General Permit): _____
2. Name, Address and Phone Number of Current Permittee(s):
3. Name, Address and Phone Number of Prospective Permittee(s):
4. Proposed date of transfer: _____
5. Provide a statement signed by the prospective permittee(s) that:
 - a. the conditions of the facility operation that contribute to, or affect, the stormwater discharge will not be materially different under the new ownership;
 - b. the prospective permittee has read and is familiar with the terms of the individual stormwater discharge permit or the authorization to discharge and general permit, and agrees to comply with all of the terms and conditions of the individual stormwater discharge permit or the authorization to discharge and general permit, whichever is applicable;
 - c. the prospective permittee(s) has adequate funding or other means to effect compliance with the terms and conditions of the individual stormwater discharge permit or the authorization to discharge and general permit, whichever is applicable.

6. Signatures:

Name of Current Permittee(s): _____

Signature and Title of Authorized Representative(s) _____

Date _____

Name of Prospective Permittee(s): _____

Signature and Title of Authorized Representative(s) _____

Date _____

This Application for Transfer is hereby approved by the Secretary of the Agency of Natural Resources.

Signature: _____

Title: _____

Date: _____

BURLINGTON INTERNATIONAL AIRPORT

Permit No. 3845-INDS.A (Heritage Flight)

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Vermont Department of Environmental Conservation

Water Quality Division
103 South Main Street, Building 10 North
Waterbury, VT 05671-0408

Agency of Natural Resources

[phone] 802-241-3770
[fax] 802-241-3287

February 9, 2010

Heritage Flight
c/o Christopher Hill
265 Aviation Avenue
South Burlington, VT 05403

Re: Discharge Permit # 3845-INDS.A

Dear Mr. Hill:

Enclosed is your copy of Discharge Permit # 3845-INDS.A which has been signed by the Director of Water Quality Division on behalf of the Commissioner of the Department of Environmental Conservation.

The permit authorizes the discharge of treated stormwater runoff from your proposed project, the Heritage Flight Aviation Campus Expansion project located at Burlington International Airport in South Burlington, Vermont. Stormwater from the project discharges to a class 2 wetland contiguous with Muddy Brook. This permit amends and replaces previously issued discharge permit 3845-INDS. The amended permit accounts for permit coverage of an additional 0.12 acres of new impervious surface associated with a fuel farm and ADF tank pad expansion at the same Heritage Flight Aviation Campus at the Burlington International Airport.

Please read this permit carefully and note the inspection, maintenance, and reporting requirements, and other operating conditions including operating fees.

Since we did not receive any public comments during the notice period, the final permit is unchanged from the draft that was placed on public notice.

If you have any questions, please call me at (802) 241-1418.

Sincerely,

A handwritten signature in black ink, appearing to read "Kevin Burke".

Kevin Burke
Environmental Analyst
Stormwater Section

Enclosures

cc: Greg Goyette, Stantec, Inc.
Peter Keibel, Act 250 District Coordinator, Essex

STATE OF VERMONT
AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STORMWATER DISCHARGE PERMIT

STORMWATER RUNOFF TO WATERS OF THE STATE

In compliance with provisions of 10 V.S.A. §1264 and the Stormwater Management Rule and in accordance with "Terms and Conditions" hereinafter specified,

Heritage Flight
265 Aviation Avenue
South Burlington, VT 05403
(Impervious area: 2.03 acres)

the permittee, is hereby granted permission to discharge stormwater runoff from the Heritage Flight Aviation Campus Expansion project located at Burlington International Airport in South Burlington, Vermont. Stormwater from the project discharges to a class 2 wetland contiguous with Muddy Brook. This permit amends and replaces previously issued discharge permit 3845-INDS. The amended permit accounts for permit coverage of an additional 0.12 acres of impervious surface associated with a fuel farm and ADF tank pad expansion at the same Heritage Flight Aviation Campus at the Burlington International Airport.

1. Expiration Date: Five years from issuance date of final permit. Note: This permit, unless revoked, modified or suspended, shall be valid until the designated expiration date notwithstanding any intervening change in water quality, effluent, or treatment standards, or classification of the receiving waters including groundwater. However, any such changed standard or classification, and any applicable requirement in a total maximum daily load (TMDL) for the receiving water, shall be applied in determining whether or not to renew this permit, and in determining the conditions of a renewed permit.

The permittee shall reapply for a renewed discharge permit ninety days prior to the expiration date of this permit.

2. Revocation: 10 V.S.A. §1267 provides as follows:

The Secretary may, after notice and opportunity for a public hearing, revoke, modify or suspend this permit if it is found that the permittee submitted false or inaccurate information in its application or has violated any requirement, restrictions, or condition of this permit, or if there is any change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge. The Secretary shall impose conditions as the Secretary deems necessary for regulating the discharges of a permittee whose permit has been revoked, modified or suspended. Revocation shall be effective upon actual notice thereof to the permittee.

3. Operating Fees: This discharge is subject to operating fees under 3 V.S.A. §2822. The

permittee shall submit the operating fees to the Agency in accordance with procedures provided by the Secretary.

4. Recording in Land Use Records: The permittee shall record a one-page notice of issuance of this discharge permit in the local land records within fourteen (14) days of issuance of this permit on the form provided by the Secretary, per §18-312 of Stormwater Management Rule. The permittee shall provide a copy of the recording to the Secretary within fourteen (14) days of the permittee's receipt of the copy of the recording from the local land records.
5. Transfer of Permit: This permit is not transferable without prior written approval of the Secretary. Provided all applicable fees under 3 V.S.A. §2822 have been paid, a permittee may submit a notice of transfer to the Secretary. The notice shall be submitted at least five (5) days prior to the proposed date of transfer. The notice shall state that the prospective permittee has adequate funding to comply with this permit. The permittee shall provide a copy of this permit to the new owner or tenant and inform him of the responsibility to make application for a permit which shall be issued in his name. Any failure to do so shall be considered a violation of this permit.
6. Right of Entry: The permittee shall allow the Secretary, or his or her authorized representatives, at reasonable times, upon presentation of credentials, to enter upon and inspect the permitted premises, and the stormwater collection, treatment and control system and to sample any discharge to determine compliance with this permit and to have access to and inspect and copy any records required to be kept pursuant to this permit.
7. Receiving Waters: Class 2 wetland contiguous with Muddy Brook.
8. Manner of Discharge:

S/N 001: Runoff from roadways and rooftops is conveyed by a closed collection system to a 36" reinforced concrete pipe which conveys the flow to the wetland contiguous with Muddy Brook.

S/N 002: Runoff from rooftop areas, including a green roof on Heritage Flight Hangar, is collected in a closed system and conveyed to a bioretention/detention basin for treatment and attenuation of peak flows. Stormwater is discharged from the basin into a stone-lined swale that runs along Eagle Drive. The stone lined swale conveys the runoff to POI #2. From POI #2, the runoff is conveyed underneath Eagle Drive to S/N 002 via an existing 24" pipe culvert.

The *Stormwater Site Balancing Procedure* was utilized to meet applicable treatment standards for this drainage area as follows: Runoff from additional existing impervious areas are provided treatment and detention to balance new impervious areas that discharge to S/N 001 and S/N 002 without treatment and detention.

9. Wastes Permitted: Stormwater runoff from S/N 001 through S/N 002 of the Heritage Flight Aviation Campus Expansion project after treatment from bioretention and dry detention basins in accordance with the manner of discharge specified in #8 above.

10. Volumes Permitted and Frequency of Discharge: Such volumes and frequency as required by the discharge specified in #8 above.
11. Approved Project Design: This project shall be constructed and operated in accordance with the following site plans and details prepared by Stantec, Inc. and drawn by Truexcullins: (Sheet GP1, dated June 13, 2008; Sheet DD-1, dated June 13, 2008; Sheet DD-2, dated June 13, 2008; Sheet SK-C-13 (LP-1), dated October 22, 2009; and all supporting information).
- By reference, the above noted plans are made a part of this permit.
12. Maintenance and Maintenance Reporting Requirements:
- a. The stormwater collection, treatment and control system shall be maintained in good operating condition at all times and **shall be inspected annually and cleaned as necessary to maintain design specifications. The inspections shall be conducted between the conclusion of spring snow melt and June 15th of each year.**
 - b. Any sediment removed from the bioretention system, basins, or related stormwater collection, treatment, and control system shall be disposed of properly in accordance with state and federal statutes and regulations.
 - c. **By July 15 of each year the permittee shall submit a written report** to the Department of Environmental Conservation, Water Quality Division, Building 10 North, 103 South Main Street, Waterbury, Vermont 05671-0408. This report shall include, at a minimum:
 - i. for the first report, an inspection and verification that the project was built in compliance with the Approved Project Design per #11 above;
 - ii. the dates and details of any cleaning and maintenance operations carried out in the preceding year;
 - iii. a narrative summarizing the results of any inspections conducted in the preceding year and highlighting any stormwater related problems encountered, and all remedial steps taken in response;
 - d. Should any erosional problems occur, the permittee is required to immediately correct any such problems.
 - e. Any basins, grass channels, or related stormwater devices used during construction for erosion control shall be inspected and cleaned to design specifications immediately after construction has been completed.
13. Personnel and Training Requirements: Such personnel and training as necessary to fulfill the requirements of #12 above.

14. Monitoring and Reporting Requirement: No monitoring required; reporting requirement as specified in #12 above.

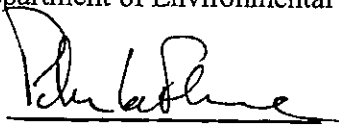
15. Other Requirements:
 - a. Treated stormwater runoff is the only waste authorized for disposal under the terms and conditions of this permit. The discharge of any hazardous materials or hazardous waste into the stormwater management system is prohibited.

 - b. The issuance of this permit does not relieve the permittee from the responsibility to obtain any other local, state or federal permits required by law.

16. Right to Appeal to the Environmental Court: Pursuant to 10 V.S.A. Chapter 220, any appeal of this decision must be filed with the clerk of the Environmental Court within 30 days of the date of the decision. The appellant must attach to the Notice of Appeal the entry fee of \$250.00, payable to the state of Vermont. The Notice of Appeal must specify the parties taking the appeal and the statutory provision under which each party claims party status; must designate the act or decision appealed from; must name the Environmental Court; and must be signed by the appellant or their attorney. In addition, the appeal must give the address or location and description of the property, project or facility with which the appeal is concerned and the name of the applicant or any permit involved in the appeal. The appellant must also serve a copy of the Notice of Appeal in accordance with Rule 5(b)(4)(B) of the Vermont Rules for Environmental Court Proceedings. For further information, see the Vermont Rules for Environmental Court Proceedings, available on line at www.vermontjudiciary.org. address for the Environmental Court is 2418 Airport Road, Suite 1, Barre, VT 05641 (Tel. # 802-828-1660).

17. Dated at Waterbury, VT this 9th day of February, 2010

Justin G. Johnson, Commissioner
Department of Environmental Conservation

By 
Peter LaFlamme, Director
Water Quality Division

**AGENCY OF NATURAL RESOURCES
STORMWATER MANAGEMENT PROGRAM**

APPLICATION FOR TRANSFER

An individual stormwater discharge permit or authorization to discharge under a general stormwater discharge permit is not transferable without the prior written approval of the Secretary of the Agency of Natural Resources. This Application for Transfer must be submitted at least five (5) days prior to the proposed date of transfer. All applicable fees under 3 V.S.A. §2822 must be paid before the Secretary will approve any transfer.

Please provide the following information:

1. Stormwater Discharge Permit No. or Notice of Intent No. (for proposed transfer of an Authorization to Discharge under a General Permit): _____
2. Name, Address and Phone Number of Current Permittee(s):
3. Name, Address and Phone Number of Prospective Permittee(s):
4. Proposed date of transfer: _____
5. Provide a statement signed by the prospective permittee(s) that:
 - a. the conditions of the facility operation that contribute to, or affect, the stormwater discharge will not be materially different under the new ownership;
 - b. the prospective permittee has read and is familiar with the terms of the individual stormwater discharge permit or the authorization to discharge and general permit, and agrees to comply with all of the terms and conditions of the individual stormwater discharge permit or the authorization to discharge and general permit, whichever is applicable;
 - c. the prospective permittee(s) has adequate funding or other means to effect compliance with the terms and conditions of the individual stormwater discharge permit or the authorization to discharge and general permit, whichever is applicable.

6. Signatures:

Name of Current Permittee(s): _____

Signature and Title of Authorized Representative(s) _____

Date _____

Name of Prospective Permittee(s): _____

Signature and Title of Authorized Representative(s) _____

Date _____

This Application for Transfer is hereby approved by the Secretary of the Agency of Natural Resources.

Signature: _____

Title: _____

Date: _____

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BURLINGTON INTERNATIONAL AIRPORT

Not Constructed to Date

**Permit #3028-INDS.2
Vermont Aviation Center
(formerly entitled Burlington Aviation
Technical Center & Vermont Flight Academy)**

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VERMONT

Vermont Department of Environmental Conservation
Water Quality Division
103 South Main Street, Building 10 North
Waterbury, VT 05671-0408

Agency of Natural Resources

[phone] 802-338-4839

December 7, 2011

Heather Kendrew
Burlington International Airport
1200 Airport Drive, #1
South Burlington, VT 05403

RECEIVED

DEC 12 2011
STANTEC
SOUTH BURLINGTON, VT

Re: Discharge Permit # 3028-INDS.2

Dear Heather:

Enclosed is your copy of Discharge Permit #3028-INDS.2. The permit authorizes the discharge of treated stormwater runoff from your proposed project, Burlington Aviation Technical Center & Vermont Flight Academy in South Burlington, Vermont, to wetlands contiguous to Muddy Brook.

Please read this permit carefully and note the inspection, maintenance, and reporting requirements, and other operating conditions including operating fees.

Since we did not receive any public comments during the notice period, the final permit is unchanged from the draft that was placed on public notice.

If you have any questions, please call me at (802) 338-4839.

Sincerely,

A handwritten signature in black ink, appearing to read "Kevin Burke".

Kevin Burke
Environmental Analyst
Stormwater Management Program

Enclosures

cc: ✓ Todd Duguay, PE, Stantec Consulting Services, Inc.
Peter Keibel, Act 250 District Coordinator, Essex Jct.

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STATE OF VERMONT
AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STORMWATER DISCHARGE PERMIT

STORMWATER RUNOFF TO WATERS OF THE STATE

In compliance with provisions of 10 V.S.A. §1264 and the Stormwater Management Rule and in accordance with "Terms and Conditions" hereinafter specified,

Burlington International Airport
1200 Airport Drive, #1
South Burlington, VT 05403
(Impervious area: 2.31 acres)

the permittee, is hereby granted permission to discharge stormwater runoff from Burlington International Airport, Burlington Aviation Technical Center & Vermont Flight Academy located at Eagle Drive in South Burlington, Vermont to wetlands contiguous to Muddy Brook.

1. Expiration Date: Five years from issuance date of final permit. Note: This permit, unless revoked, modified or suspended, shall be valid until the designated expiration date notwithstanding any intervening change in water quality, effluent, or treatment standards, or classification of the receiving waters including groundwater. However, any such changed standard or classification, and any applicable requirement in a total maximum daily load (TMDL) for the receiving water(s), shall be applied in determining whether or not to renew this permit, and in determining the conditions of a renewed permit.

The permittee shall reapply for a renewed discharge permit ninety days prior to the expiration date of this permit.

2. Revocation: 10 V.S.A. §1267 provides as follows:

The Secretary may, after notice and opportunity for a public hearing, revoke, modify or suspend this permit if it is found that the permittee submitted false or inaccurate information in its application or has violated any requirement, restrictions, or condition of this permit, or if there is any change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge. The Secretary shall impose conditions as the Secretary deems necessary for regulating the discharges of a permittee whose permit has been revoked, modified or suspended. Revocation shall be effective upon actual notice thereof to the permittee.

3. Operating Fees: This discharge is subject to operating fees under 3 V.S.A. §2822. The permittee shall submit the operating fees to the Agency in accordance with procedures provided by the Secretary.

4. Recording in Land Use Records: The permittee shall record a one-page notice of issuance of this discharge permit in the local land records within fourteen (14) days of issuance of this permit on the form provided by the Secretary, per §18-312 of Stormwater Management Rule. The permittee shall provide a copy of the recording to the Secretary within fourteen (14) days of the permittee's receipt of the copy of the recording from the local land records.
5. Transfer of Permit: This permit is not transferable without prior written approval of the Secretary. Provided all applicable fees under 3 V.S.A. §2822 have been paid, a permittee may submit a notice of transfer to the Secretary. The notice shall be submitted at least five (5) days prior to the proposed date of transfer. The notice shall state that the prospective permittee has adequate funding to comply with this permit. The permittee shall provide a copy of this permit to the new owner or tenant and inform him of the responsibility to make application for a permit which shall be issued in his name. Any failure to do so shall be considered a violation of this permit.
6. Right of Entry: The permittee shall allow the Secretary, or his or her authorized representatives, at reasonable times, upon presentation of credentials, to enter upon and inspect the permitted premises, and the stormwater collection, treatment and control system and to sample any discharge to determine compliance with this permit and to have access to and inspect and copy any records required to be kept pursuant to this permit.
7. Receiving Waters: Wetlands contiguous to Muddy Brook
8. Manner of Discharge:

S/N 001: All runoff in this subcatchment will flow towards two bioretention areas and receive water quality treatment by filtering through a bioretention medium. A portion existing impervious area, 0.82 AC, from Eagle Drive will flow into our proposed treatment system. The treated water, and waters greater than the 0.9" storm event will flow to a detention pond which will control the outlet flow rate. The New impervious area in this subcatchment is less than 10 acres.

S/N 002: All runoff in this subcatchment will be collected in a catchbasin and will directly outlet to the wetland. The new impervious area drainage to this point will be offset via site balancing at discharge point S/N 001. New impervious area in this subcatchment is less than 10 acres.

S/N 003: All runoff in this subcatchment will sheet flow off the roadway directly into the wetland. The new impervious area drainage to this point will be offset via site balancing at discharge point S/N 001. New impervious area in this subcatchment is less than 10 acres.

S/N 004: All runoff in this subcatchment will sheet flow off the detention basin access road. This impervious area will receive water quality treatment through disconnection of non-rooftop runoff. New impervious area in this subcatchment is less than 10 acres.

The Site Balancing Procedure for the Discharge of Stormwater Runoff from the Expansion or Redevelopment of Impervious Surfaces was utilized to meet applicable treatment standards for this project.

9. Wastes Permitted: Stormwater runoff from S/N 001 through S/N 004 of the Burlington International Airport, Burlington Aviation Technical Center & Vermont Flight Academy project after treatment from bioretention and detention, and through disconnection.
10. Volumes Permitted and Frequency of Discharge: Such volumes and frequency as required by the discharge specified in #8 above.
11. Approved Project Design: This project shall be constructed and operated in accordance with the following site plans and details prepared by Stantec Consulting Services Inc. (Drawing No. SP1-Sheet 115, dated 6/03/11; Drawing No. 1-Sheet 116, dated 01/27/11; Drawing No. 1-Sheet 117, dated 01/27/11; Drawing No. TS1-Sheet 118, dated 6/03/11; Drawing No. TS2-Sheet 119, dated 6/03/11; Drawing No. GP1-Sheet 120, dated 6/03/11; Drawing No. DD1-Sheet 121, dated 6/03/11; Drawing No. DD2-Sheet 122, dated 6/03/11; Drawing No. DD3-Sheet 123, dated 6/03/11; Drawing No. DD4-Sheet 124, dated 6/03/11; Drawing No. DD5-Sheet 125, dated 6/03/11); and the following site plans and details prepared by Michael Lawrence Associates (Sheet 1-Drawing 126, and Sheet 2-Drawing 127, both dated 6/03/11); and supporting information).

By reference, the above noted plans are made a part of this permit.


12. Maintenance and Maintenance Reporting Requirements:
 - a. The basins, grass channels, and related stormwater collection, treatment and control system shall be maintained in good operating condition at all times and **shall be inspected annually and cleaned as necessary to maintain design specifications. The inspections shall be conducted between the conclusion of spring snow melt and June 15th of each year.**
 - b. Any sediment removed from the basins, grass channels, and related stormwater collection, treatment and control system shall be disposed of properly in accordance with state and federal statutes and regulations.
 - c. **By July 15 of each year the permittee shall submit a written report to the Department of Environmental Conservation, Water Quality Division, Building 10 North, 103 South Main Street, Waterbury, Vermont 05671-0408. This report shall include, at a minimum:**
 - i. for the first report, an inspection and verification that the project was built in compliance with the Approved Project Design per #11 above;
 - ii. the dates and details of any cleaning and maintenance operations carried out in the preceding year;
 - iii. a narrative summarizing the results of any inspections conducted in the preceding year and highlighting any stormwater related problems encountered, and all remedial steps taken in response;

- d. Should any erosion problems occur, the permittee is required to immediately correct any such problems.
 - e. Any basins, grass channels, or related stormwater devices used during construction for erosion control shall be inspected and cleaned to design specifications immediately after construction has been completed.
13. Personnel and Training Requirements: Such personnel and training as necessary to fulfill the requirements of #12 above.
14. Monitoring and Reporting Requirement: No monitoring required; reporting requirement as specified in #12 above.
15. Other Requirements:
 - a. Treated stormwater runoff is the only waste authorized for disposal under the terms and conditions of this permit. The discharge of any hazardous materials or hazardous waste into the stormwater management system is prohibited.
 - b. The issuance of this permit does not relieve the permittee from the responsibility to obtain any other local, state or federal permits required by law.
16. Compliance with Anti-degradation and Water Quality Standards: The Secretary has determined that the permitted discharges satisfy Vermont's Anti-Degradation Policy described in the Department of Environmental Conservation's Interim Anti-Degradation Implementation Procedure, because the procedure allows a presumption of compliance for discharges that are in compliance with the Vermont Stormwater Management Manual and any additional best management practices that will be used to control the stormwater discharge as described in Section IX.D.1.d. of the Department's Interim Anti-Degradation Implementation Procedure. The Secretary has also determined that for such discharges that qualify for the presumption under IX.D.1.d, all existing uses of surface waters, and the level of water quality necessary to protect those existing uses will be maintained and protected. The Secretary has determined that if the permittee is in full compliance with all permit conditions, including approved plans, monitoring, reporting and recordkeeping conditions, and is fully implementing stormwater BMPs required by this permit, the permitted discharges will meet the requirements of the Vermont Stormwater Management Manual and qualify for the presumption described in Section IX.D.1.d. of the Department's Interim Anti-Degradation Implementation Procedure and will be presumed to comply with the Vermont Water Quality Standards, including but not limited to §1-03 (Anti-degradation Policy).
17. Right to Appeal to the Environmental Court: Pursuant to 10 V.S.A. Chapter 220, any appeal of this decision must be filed with the clerk of the Environmental Court within 30 days of the date of the decision. The appellant must attach to the Notice of Appeal the entry fee of \$250.00, payable to the state of Vermont. The Notice of Appeal must specify the parties taking the appeal and the statutory provision under which each party claims party status; must designate the act or decision appealed from; must name the Environmental Court; and must be

signed by the appellant or their attorney. In addition, the appeal must give the address or location and description of the property, project or facility with which the appeal is concerned and the name of the applicant or any permit involved in the appeal. The appellant must also serve a copy of the Notice of Appeal in accordance with Rule 5(b)(4)(B) of the Vermont Rules for Environmental Court Proceedings. For further information, see the Vermont Rules for Environmental Court Proceedings, available on line at www.vermontjudiciary.org. The address for the Environmental Court is 2418 Airport Road, Suite 1, Barre, VT 05641 (Tel. #802-828-1660).

18. Dated at Winooski, VT this 7th day of December, 2011

David K. Mears, Commissioner
Department of Environmental Conservation

By 
Padraic Monks, Program Manager
Stormwater Management Program

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BURLINGTON INTERNATIONAL AIRPORT

**Annual Report for General Permit
3-9014 (MS-4)
and
Annual Reports for
Operational Stormwater Discharge Permits**

April 1, 2013

Appendix F

Field Inspection Maintenance Recommendations

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The following maintenance items are recommended to be performed:

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 3028 – 9010.A S/N 001 (North Outfall)	
1. Coordinate w/wildlife officials for removal of beaver dam at pond.	30 Sep 2013
2. Remove sediment from attenuation pond and restore banks.	30 Sep 2014
3. Restore attenuation pond inlet pipe.	30 Sep 2014
4. Restore attenuation pond overflow structure.	30 Sep 2014
5. Restore attenuation pond outlet pipe.	30 Sep 2014
6. Remove trash from inside swirl chamber at rental parking lot	30 Sep 2013
7. Construct bollards to protect swirl chamber at rental parking lot	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 3028 – 9010.A S/N 002 (North End Terminal Expansion)	
1. None required.	N/A

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 3028 – 9010.A S/N 003 (Westerly of Runway 15 End Overrun)	
1. Remove sediment from S1.009 and S1.014.	30 Sep 2013
2. Remove vegetation from catch basin grates at S1.015.	30 Sep 2013
3. Clean inverts of culvert, install outlet protection, S1.073 and S1.074.	30 Sep 2013
4. Remove filter fabric from grates at S1.003, S1.004, and S1.005.	30 Sep 2013
5. Excavate and raise rims to grade: CB S1.002.0 and S1.002.1.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 3028 – 9010.A S/N 004 (Sand Filter near Gate #2)	
1. Remove sediment from S1.039.1 and S1.040.1.	30 Sep 2013
2. Remove vegetation from catch basin grates at S1.038 and S1.042.3.	30 Sep 2013
3. Clean inverts of culvert, install outlet protection, S1.071 and S1.072.	30 Sep 2013
4. Re-set concrete cable matting in bottom of the Sand Filter forebay.	30 Sep 2013
5. Remove sod from tops of basin pipeline cleanout covers.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 3028 – 9010.A S/N 005 (Pratt and Whitney)	
1. Remove vegetation from catch basin grates at S3.010.3 & S3.010.4.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 3028 – 9010.A S/N 006 (Eagle Drive)	
1. Remove brush at culvert beneath Eagle Drive, S3.043 – S3.044.	30 Sep 2013
2. Restore the stone discharge apron at culvert end S3.043.	30 Sep 2013
3. LONG TERM: Replace culvert beneath Aviation Avenue.	2018

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 3028 – 9010.A S/N 007 (Westerly side of Aviation Support Hangar)	
1. Remove sediment from S3.009.6.4 and S1.009.9.	30 Sep 2013
2. Remove vegetation from catch basin grates at S3.009.9.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 3028 – 9010.A S/N 008 (South End Development, Phase 2 SED)	
1. None required.	N/A

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 3028 – 9010.A S/N 009 (Quarry Overflow Parking)	
1. None required.	N/A

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 1-1391 S/N 001 (South Terminal Apron and T/W 'A')	
1. Remove sediment from S2.027.2.1; S2.027.2.2; and S2.028.7.	30 Sep 2013
2. Remove brush, stake location of discharge point PO05=S2.020.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 1-0839 S/N 002 (Both edges of R/W 1-19, south of T/W 'A' and T/W 'B')	
1. Stabilize the bank above CB S2.003.	30 Sep 2013
2. Remove vegetation from catch basin grates at S2.013.3.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 3028-INDS.A S/N 001 (along T/W 'K', under T/W 'C' and T/W 'J')	
1. Remove sediment from S4.010 through S4.015.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 3028-INDS.A S/N 002 (both sides of T/W 'C' to R/W 1-19)	
1. None required.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 3028-INDS.1 S/N 001 (between R/W 15-33 and T/W 'G'; T/W 'H' northward)	
1. Remove sediment from S1.003.4.0.	30 Sep 2013
2. Remove vegetation from catch basin grates at S1.003.3.0, S1.003.3.1, and S1.003.4.0.	30 Sep 2013
3. Clean inverts of culvert under TW/G and install outlet protection, S1.069 and S1.070.	30 Sep 2013
4. Restore grass/vegetation in the area of infiltration bed S1.003.8.1	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 3028-INDS.1 S/N 002 (along T/W 'F' and National Guard Avenue)	
1. Remove sediment from S6.010.2 and S6.023.	30 Sep 2013
2. Remove vegetation from catch basin grates at S6.010.1, S6.019.1, S6.020, and S6.021.	30 Sep 2013
3. Flush and clean catch basins and related piping at S6.019.1 through S6.019.5, known as BMP 13.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 3028-INDS.1 S/N 002 (along T/W 'F' and National Guard Avenue)	
4. Remove filter fabric from grate at S6.011.	30 Sep 2013
5. Install a stone discharge apron, Discharge Point NG002N=S6.008	30 Sep 2013
6. Rebuild stone fill area in "eye" of RW/1-19 at S6.022.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 3028-INDS.1 S/N 003 (along T/W 'F' and National Guard Avenue)	
1. Not Burlington Airport responsibility.	N/A

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 3028-INDS.1 S/N 004 (Island at R/W 1-19, T/W 'A', and T/W 'B')	
1. Remove sediment from S4.019 – S4.022.	30 Sep 2013
2. Remove vegetation from catch basin grates at S4.016.4 and S4.018.0.	30 Sep 2013
3. Inspect DMH S4.017.5 for loose bricks, repair as required.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 3028-INDS.1 S/N 005 (Southerly R/W 15/33, Valley West, and T/W 'K')	
1. Remove vegetation from inlet apron at S4.006.6.	30 Sep 2013
2. Clean inverts of culvert under driveway out to ILS Localizer building and install outlet protection, S4.029 and S4.030.	30 Sep 2013
3. Repair frame and cover at S4.006.4.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 3028-INDS.1 S/N 006 (Southeasterly end of R/W 15-33 and T/W 'D')	
1. Remove vegetation from catch basin grates at S4.031.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 3028-INDS.1 S/N 007 (Northeast end of R/W 15-33 at VTANG Arrestor Barrier)	
1. None required.	N/A

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 3845-INDS.A S/N 001 (Heritage Flight Facility campus)	
1. None required.	N/A

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 3845-INDS.A S/N 002 (Heritage Flight Facility campus, bio-retention basin)	
1. Clean debris trapped behind the basin inlet pipes S3.018.0 and S3.019.0; fill at aprons as needed.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 6-0084 (Aircraft Deicing Fluid Runoff, South End Development, Phase 2)	
1. Clean debris around the PVC risers for eight (8) infiltration field flushing valves and ensure the valves operate correctly.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
Permit 6-0075 (Aircraft Deicing Fluid Treatment Facility, Main Apron and NOTE2)	
1. Discharge pump appears to be pumping at a flowrate of less than 200 gpm. The pump may have a clogged inlet, require maintenance of the impeller, or simply has outlived its service life. Further investigation is recommended.	30 Sep 2013
2. Shutoff valve installed in the North Glycol Infiltration Field Distribution Manhole cannot be fully opened due to the proximity of the handle to the structure's side wall. Cut off a portion of the valve handle in order to allow the valve to be turned to the fully open position.	30 Sep 2013
3. A leak at the interface between the pump station weir and the structure wall needs to be plugged to eliminate glycol from leaking past the weir during low runoff precipitation events.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
MS-4 Permit Area 1 (corner of Airport Drive and Williston Road)	
1. Remove sediment from S2.039.	30 Sep 2013
2. Cut back end of culvert pipe S2.033 and ensure bank stabilization.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
MS-4 Permit Area 2 (Along Williston Road)	
1. N/A. Area is not the responsibility of BTV.	N/A

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
MS-4 Permit Area 3 (Valley Road)	
1. Remove sediment from S3.028.0 and S3.028.1.	30 Sep 2013
2. Remove brush from channel beneath landscaping box, 3060 Valley Road.	30 Sep 2013
3. Fill in and add stone discharge apron, discharge point MU05.	30 Sep 2013
4. Remove the brush and trees from atop S3.024 and S3.025.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
MS-4 Permit Area 4 (Valley Road, south side of the Valley)	
1. Remove sediment from S3.036.0.	30 Sep 2013
2. Remove brush from S3.033, S3.034, S3.038, S3.039, and S3.040.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
MS-4 Permit Area 5 (T/W 'K' near General Aviation Apron)	
1. None required.	N/A

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
MS-4 Permit Area 6 (vicinity of Building 6)	
1. None required.	N/A

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
MS-4 Permit Area 7 (along Airport Drive)	
1. Remove sediment from S1.016.11.3.	30 Sep 2013
2. Remove vegetation from catch basin grates at S1.016.11.2 and S1.016.11.3.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
MS-4 Permit Area 8 (along service road, TW/A and TW/G)	
1. Remove sediment from S1.018 and S1.021.	30 Sep 2013
2. Remove vegetation from catch basin grates at S1.019.1.	30 Sep 2013
3. Fill/repair sinkhole in area of S1.019.2.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
MS-4 Permit Area 9 (Trench drain along TW/A and PAX Terminal)	
1. Remove sediment from S1.026; S1.035; and S1.036.	30 Sep 2013
2. LONG TERM: Reconstruct trench drain system along the passenger loading area.	2018

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
MS-4 Permit Area 10 (PAX Terminal and FAA Tower)	
1. Remove and reset screws from covers S1.025.0 and S1.025.2.0.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
MS-4 Permit Area 11 (FAA Tower and other parking areas)	
1. Remove sediment from S1.047.2.1; S1.047.2.2; S1.047.3.0; S1.047.3.1; S1.047.3.2; and S1.047.3.4.	30 Sep 2013
2. Remove vegetation from catch basin grates at S1.047.6.0; S1.047.6.1; S1.047.7; and S1.047.8.	30 Sep 2013
3. Clean soil and other materials from the trench drain at the exit of the parking garage structure at S1.047.3.3.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
MS-4 Permit Area 12 (Parking lot, FAA Tower, Passenger loading area)	
1. Remove sediment from S1.050.4; S1.053; S1.064.2.1; S1.064.3; and S1.068.	30 Sep 2013
2. Remove vegetation from catch basin grates at S1.053.2; S1.065; S1.067; and S1.068.	30 Sep 2013

PERMIT NUMBER/DISCHARGE SERIAL NUMBER	ANTICIPATED COMPLETION DATE
MS-4 Permit Area 13 (Grounds Maintenance Garage and Aviatron)	
1. Remove vegetation from catch basin grates at S3.002 and S3.006.	30 Sep 2013
2. Clean brush from discharge apron S3.005.	30 Sep 2013