Chronology

January 1988 - Local landowner complains about erosion and property damage. Planning Commission recognizes threat to LVRR culvert. No comprehensive action taken but PC does review future projects on a case by case basis.

July 1998 - VTrans upgrades Rte 100 culvert due to runoff surcharging. Increasing erosion after upgrade; private sewer line undermined below culvert.

March 2000 - Act 250 permit amendment-LUP #5L0934-6, board requests reduction in building footprint, decision based on VT F&W Dept. concerns: “potential increase in runoff from the project increasing erosion and siltation in the ravine and into the lake.” Threat to the rainbow and brown trout fishery population and habitat below Cadys Falls-Lamoille River.

June 2002 - heavy rains-runoff cause major failure of LVRR culvert-embankment resulting in erosion into lake; total monthly rainfall 8.04”.

July 2004 - 303(d) listing-Part C. Waters in Need of Further Assessment-Lake Lamoille-sediment, nutrients, E.coli
Town Concerns About North-end Commercial District

• Act 250 decision could influence future development patterns in town regional growth center.

• Proposed and long awaited Alternate Truck Route-Route 100 Bypass could be delayed.

• 2001 Storm drainage and wastewater expansion feasibility study (DHCA funded): “There is inadequate existing drainage infrastructure along Route 15 and Route 100.” Development options might be limited.

• 2003 Town Plan: “Wastewater and other infrastructure issues continue to hamper economic development in the entire north end. Additionally, stormwater runoff has appeared more recently as a barrier as well.”
Wilkins Ravine outfall to Lake Lamoille-2003
The Wilkins Ravine plan involves a three-prong approach with 12 specific tasks. The plan proposes to:

- Stabilize and clean up the Wilkins Ravine area.
- Install stormwater quality treatment controls and, where possible, quantity treatment controls in the developed area drainage network upstream of the Ravine.
- Reduce the overall volume of stormwater discharging to the Ravine by retaining water on-site and infiltrating to groundwater as much clean runoff as possible. Existing soils are all NRCS A.
WILKINS RAVINE WATERSHED-MORRISTOWN (FUTURE)

TR-55 WATERSHED ANALYSIS

DESIGN STORM   2yr  10yr  100yr

EXIST. COND. 28% 30_{cfs} 70_{cfs} 125_{cfs}

FUTURE COND. 48% 66_{cfs} 126_{cfs} 212_{cfs}
FLOW PATH
* EROSION or FLOODING PROBLEM
Lower Wilkins Ravine-2003
Lower Wilkins Ravine-2004
Lower Wilkins Ravine-2003
Hannaford’s Swale-2003

Middle Wilkins Ravine

Hannaford’s Swale-2004
Upper Wilkins Ravine
Houle-Demars Property

Dry Detention Basin

Infiltration Basin

Upper Wilkins Ravine Watershed

Town-Country Home Center
VYCC-DeBenedetto

Check Dam

Swirl Separator

Upper Wilkins Ravine Watershed

Town- Country Home Center
Route 100

Infiltration Gallery

Middle Wilkins Ravine Watershed

Town-Morrisville Plaza

Swirl Basin 2006
Town-Demars Property

Swirl Separator and Bypass

Middle Wilkins Ravine Watershed
State Permits and Local Zoning Actions

(1) Renew all expired state stormwater permits (3) ✓

(2) New development/redevelopment subject to 2002 stormwater design standards including Alternate Truck Route (2) ✓

(3) Adopt Section 638 in Zoning Regulations

“Conditional uses that create new impervious cover.. that are not subject to a state stormwater permit (<1 acre impervious) will be subject to the following requirements: ..treatment by infiltration of stormwater runoff from all new rooftop impervious surfaces to suitable soils shall be maximized for all land uses… ..treatment practices used should be sized to handle at a minimum the first .4” of runoff from the rooftop impervious surface(s)” ✓
Cleaning Stormwater in Morristown

by Susan Peace

Since the establishment of the federal Clean Water Act in 1972, Vermont and the rest of the nation has placed a premium on wetlands and stormwater management to keep our waterways clean and protect our natural resources. Vermont has taken many steps to reduce stormwater runoff and protect our waterways. Morristown and surrounding towns have added stormwater ponds, rain gardens, and detention basins to reduce the volume of stormwater entering our local waterways. In addition, the town has constructed a stormwater management project to control stormwater runoff from the downtown area.

Stormwater Update

The project includes the installation of a swirl separator at the crossing of the Winooski River at the intersection of South Second and Main Streets. The swirl separator will help to reduce the amount of sediment and debris that enter the Winooski River. This will improve water quality and protect the surrounding environment.

Demars Properties is donating the property to the town to ensure that the stormwater runoff from the downtown area will be properly managed. The town plans to use the funds generated by the sale of the property to finance the cost of the stormwater management project.

In addition to the swirl separator, the town will install a wetland along the Winooski River to help reduce stormwater runoff. This will help to improve water quality and protect the surrounding environment.

SB

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April 4, 2005

The Transcript

Morristown, Vermont

VOLUME 32 · NUMBER 8

Streets and sidewalks throughout the downtown area will be improved with the installation of new stormwater management features. These improvements will help to reduce stormwater runoff and protect the surrounding environment.

The town has also installed a new stormwater management system along the Winooski River. This system will help to reduce stormwater runoff and protect the surrounding environment.

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Project Budget

VTDec – 2003-04 CWA Grants--------------$65,104 (37%)
VTrans – 2005 Enhancement Grant--------$74,709
VTrans – District 6 Maintenance funds---$126,000 (34%)
Morristown – Local funds and in-kind----- $106,327 (29%)
                Total                     $372,140

Additional Project Partners

Forcier Aldrich & Associates, USDA-NRCS, Lamoille SWD, Morrisville Water and Light, Hannaford Brothers, Country Home Center/Goss Tire, Menard’s Agway, Pete’s Repair, Demars Properties, Murphy Realty, TD BankNorth, Manosh Corporation, Lamoille NRCD and Nature Center, Philip and Phyllis Houle, Anthony and Joan DeBenedetto, Johnson State College Upward Bound
• **PROS**
  - Partnership with VTrans
  - Community support and effort
  - Select board and town staff commitment
  - Media interest and support
  - Projects solved landowner problems (flooding, safety) and mitigated runoff

• **CONS**
  - Delays in commercial redevelopment plans
  - 3 yrs and 2 tries on Enhancement Program grant
  - Planning Commission lack of knowledge on technical issues
  - Coordination of multiple grants and funding sources
  - In stream construction