

Illicit Discharge Detection and Elimination (IDDE) Projects

STONE
ENVIRONMENTAL
100% EMPLOYEE-OWNED

Services / Expertise

Water Quality
Illicit Detection and Elimination
Municipal Separate Storm Sewer Systems (MS4) General Permit
Water Quality Monitoring
Stormwater Management
Wastewater Management

Markets

State Government
Local Government

Project Location

Vermont & New York (116 municipalities)

Duration

2006–Present

Project Owner

Vermont Department of Environmental Conservation and Regional Partners

Project Manager

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External Links

Reports of the Vermont municipalities participating to date in these studies and the results can be found at:
<https://dec.vermont.gov/water-investment/cwi/solutions/developed-lands/idde>



Dye flushed down a toilet in Barton, Vermont discharges to a stream, confirming a sanitary wastewater connection. Direct sanitary connections from two houses to the storm drain were eliminated.

THE goal of IDDE is to improve water quality by identifying and eliminating contaminated, non-stormwater discharges entering stormwater drainage systems and discharging to surface waters. Illicit discharges contribute to the degradation of local receiving waters and can pose a public health risk. Among the many types of illicit discharges that have been identified in Vermont, sanitary wastewater is generally considered as having the greatest impact. Other types of illicit discharges we have encountered include graywater connections (washwater from laundry machines, sinks, dishwashers, etc.), mop water and oil dumping via floor drains and catchbasins, pet waste and trash dumping, vehicle washing runoff, and (infrequently) industrial discharges. Municipal water leaks are also frequently discovered.

Stone was the first consulting firm to perform IDDE work in Vermont, and our team brings more experience in this field than any other Vermont firm. Beginning with our first IDDE project in Barre City in 2006, Stone has conducted illicit discharge detection and elimination projects in 116 communities in Vermont. The methods we use work well in our region. We can differentiate between systems that are receiving contaminated non-stormwater discharges and those that are not. Of the roughly 4,430 discharge points we have assessed, we have confirmed contamination related to an illicit discharge in about 3–4%. With persistence, we have identified the source of contaminants in nearly every case. By combining drainage mapping, environmental investigative work, and municipal cooperation, Stone has decreased nutrient loading to Vermont’s rivers and lakes and reduced the risk of pathogen exposure.



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IDDE Project Name & Towns	Partner / Sponsor
Basins 1 & 12 Advanced IDDE and Smaller Towns Statewide IDDE Clarendon, Shrewsbury, Ferrisburgh, Addison, Bridport, Mendon, Stowe, East Highgate, Fair Haven, Middlebury, Proctor, Bennington, Barre City, Dover, Arlington, Manchester, Pownal, Shaftsbury, Sunderland, Bennington, Whittingham, Wilmington, Royalton, Enosburg Falls, St. Johnsbury	VTDEC CWIP
Plattsburgh, New York IDDE	LCBP / City of Plattsburgh
Statewide IDDE Contract #4 Bolton, Coventry, Forest Dale (Brandon), Jay, Montgomery, South Hero, Starksboro, Troy, Northfield, St. Johnsbury	VTDEC CWIP
Basin 1 (Battenkill, Hoosic, & Walloomsac Rivers) and Basin 12 (Deerfield River) IDDE Arlington, Dorset, Pownal, Manchester, Shaftsbury, Stamford, Sunderland and Woodford in Basin 1 and Dover-Mt Snow, Readsboro, Whitingham, and Wilmington in Basin 12	VTDEC CWIP
West, Williams, Saxtons, and Lower Connecticut River Basins IDDE (Basin 11) Chester, Dummerston, Grafton, Guilford, Jamaica, Londonderry, Marlboro, Newfane, Peru, Putney, Rockingham, Townshend, Vernon, Wardsboro, Westminster, Weston, Winhall	VTDEC CWIP
Ottawaquechee and Black River Basins IDDE (Basin 10) Cavendish, Killington, Ludlow, North Springfield, Plymouth, Windsor, Woodstock, Bridgewater, Hartland, Weathersfield, West Windsor	VTDEC CWIP
Montpelier IDDE	VTDEC CWIP
Upper Winooski River IDDE Barre City, Barre Town, Berlin, Stowe	VTDEC CWIP
Upper Connecticut River and Passumpsic River Basins IDDE Bradford, Burke, Canaan, Concord, Danville, East St. Johnsbury, Fairlee, Glover, Groton, Lyndon, Lunenburg (Gilman), Newbury (Wells River), Norwich, and Ryegate	VTDEC ERP
Stevens Branch and Stowe IDDE Barre City, Barre Town, Berlin, Stowe, and Williamstown	Friends of the Winooski River
St Johnsbury IDDE	Caledonia County NRCD
Memphremagog Basin IDDE Barton, Brighton, Derby, Orleans Village, and Newport City	Memphremagog Watershed Association
Rutland County IDDE Benson, Castleton, Fair Haven, Poultney, Proctor, Wallingford, West Rutland	Rutland NRCD / VTDEC ERP
Missisquoi River Basin Advanced Investigations Enosburg Falls, North Troy, Richford, Swanton	Aldrich and Elliot (prime) / VTDEC ERP
Winooski Headwaters IDDE Cabot, Marshfield, Plainfield	Friends of the Winooski River / VTDEC ERP
Lamoille River Basin IDDE Cambridge, Fairfax, Georgia, Hardwick, Hyde Park, Jeffersonville, Jericho, Johnson, Morrisville, Underhill, and Wolcott	VTDEC ERP
Otter Creek Basin IDDE Middlebury, Vergennes, Brandon, Pittsford, Rutland City, and Rutland Town	VTDEC / Lake Champlain Basin Program
Brattleboro IDDE	VTDEC ERP
Missisquoi River Basin IDDE Enosburg Falls, Highgate, Montgomery Center, North Troy, Richford, Swanton	VTDEC ERP
Winooski River Basin IDDE Waterbury, Richmond, Waitsfield, Moretown	Friends of the Winooski River & Friends of the Mad River / VTDEC ERP
Central Vermont IDDE Berlin, Montpelier, Northfield	Friends of the Winooski River / ANR EPA Section 319 grant
Barre City IDDE	Friends of the Winooski River / Supplemental Environmental Project
Milton IDDE	Town of Milton

