Problem Area Data Sheet

Problem Area ID: SB-03	Latitude: 44.848675°	Longitude: -73.104322°

Watershed: Stevens Brook

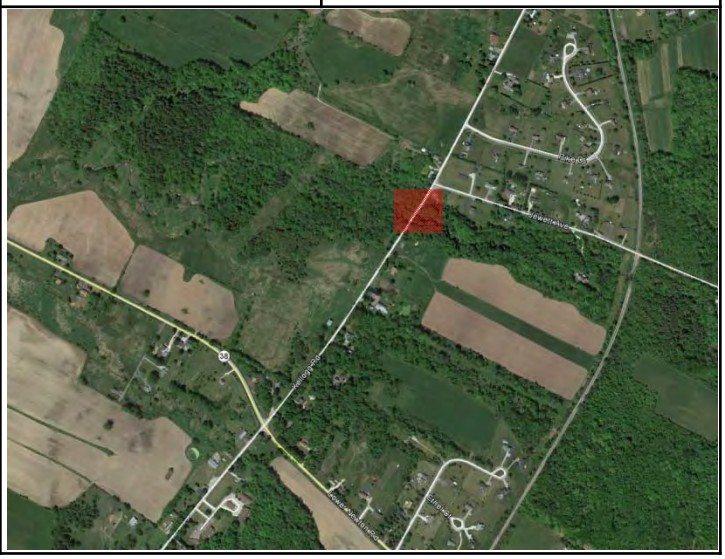
Location: Kellogg Rd, South of Jewett Ave

Problem Type: Erosion

Identification Source: SGA

Ownership: Public

Classification: 3



Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

The crossing is in good condition. Some incising was observed in nearby ditches.

Field Photos

Photo 1. Incised ditch bottom

Photo 2. Ditch path to Stevens Brook

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	2	2	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: SB-04	Latitude: 44.846998°	Longitude: -73.090683°

Watershed: Stevens Brook

Location: Jewett Ave., west of St. Albans Rd.

Problem Type: Infrastructure/Erosion

Identification Source: SGA

Ownership: Public

Classification: 2

Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

A large scour pool has formed at the outlet. The outlet is perched. Crushed stone on bank above outlet suggests ongoing erosion problems at this crossing.

Field Photos

Photo 1. Perched outlet

Photo 2. Scour pool at outlet

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	2	2	Y	Y	Y	N

Problem Area Data Sheet

Problem Area ID: SB-05	Latitude: 44.828406°	Longitude: -73.086049°

Watershed: Stevens Brook

Location: Rewess Drive

Problem Type: Encroachment

Identification Source: SGA

Ownership: Public

Classification: 2

Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

Straightened section of stream in developed area near water treatment facility. Banks appear stable, but existing vegetation may not be sufficient to resist erosion during future flood conditions.

Field Photos

Photo 1. Straightened section of stream

Photo 2. Straightened section of stream

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	1	1	1	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: SB-06	Latitude: 44.848997°	Longitude: -73.119179°

Watershed: Stevens Brook

Location: Lower Newton Rd., West of Kellogg Rd.

Problem Type: Erosion

Identification Source: SWMP Assessment

Ownership: Public

Classification: 3

Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

Crossing is undersize, resulting in scour pool at the outlet. Str4eambanks directly upstream of the crossing are extremely unstable. The stream is meandering away from the crossing. Nearby ditches are eroding and incising.

Field Photos

Photo 1. Scour pool at outlet

Photo 2. Ditch erosion along Lower Newton Rd.

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
3	3	3	2	Y	Y	Y	N

Problem Area Data Sheet

Problem Area ID: SB-07	Latitude: 44.843822°	Longitude: -73.109160°

Watershed: Stevens Brook

Location: Kellogg Rd. south of Lower Newton Rd.

Problem Type: Erosion

Identification Source: SWMP Assessment

Ownership: Public

Classification: 3

Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

A tile drain has day lighted and is eroding a deep, narrow channel.

Field Photos

Photo 1. Day lighted pipe

Photo 2. Erosion along Kellogg Rd

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	3	3	2	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: SB-08	Latitude: 44.844296°	Longitude: -73.110639°

Watershed: Stevens Brook

Location: Kellogg Rd. south of Lower Newton Rd.

Problem Type: Erosion

Identification Source: SWMP Assessment

Ownership: Public

Classification: 3

Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

Erosion at culvert outfall resulting in scour pool. A 10ft tall bank approximately 50 feet downstream of the culvert has sloughed into the stream. Inlet condition is fine.

Field Photos

Photo 1. Scour pool at outlet

Photo 2. Bank slough

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
3	3	3	2	Y	Y	Y	N

Problem Area Data Sheet

Problem Area ID: SB-09	Latitude: 44.824575°	Longitude: -73.125064°

Watershed: Stevens Brook

Location: Kellogg Rd., 0.9 miles north of Lake rd.

Problem Type: Infrastructure

Identification Source: SWMP Assessment

Ownership: Public

Classification: 3

Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

Culvert outlet is perched over 2 feet, and downstream banks are experiencing significant erosion.

Field Photos

Photo 1. Perched outlet

Photo 2. Culvert inlet

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	3	2	2	Y	Y	Y	N

Problem Area Data Sheet

Problem Area ID: SB-10	Latitude: 44.847393°	Longitude: -73.088467°

Watershed: Stevens Brook

Location: Jewett Ave., west of St. Albans Rd.

Problem Type: Infrastructure/Erosion

Identification Source: SGA

Ownership: Public

Classification: 2

Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

Inlet is mostly buried and clogged with debris. The bank above the outlet is steep (1:2). The culvert outlet is perched.

Field Photos

Photo 1. Culvert inlet.

Photo 2. Steep bank above outlet

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	2	2	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: SB-11	Latitude: 44.863559°	Longitude: -73.114536°

Watershed: Stevens Brook

Location: Comstock Rd.

Problem Type: Infrastructure/Erosion

Identification Source: SWMP Assessment

Ownership: Public/private

Classification: 2

Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

Stevens Brook is rerouted around a farm field.

Field Photos

Photo 1. Rerouted stream

Photo 2. Buried culvert outlet

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
1	2	2	1	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: SB-12	Latitude: 44.863559°	Longitude: -73.114536°

Watershed: Stevens Brook

Location: Kellogg Rd., just south of Pike Dr.

Problem Type: Infrastructure/Erosion

Identification Source: SWMP Assessment

Ownership: Public

Classification: 2

Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

Culvert appears to have been recently replaced. The culvert is undersized and not appropriately aligned. Future erosion is likely.

Field Photos

Photo 1. Culvert outlet

Photo 2. Culvert inlet

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	2	2	Y	Y	Y	N

Problem Area Data Sheet

Problem Area ID: SB-13	Latitude: 44.824165°	Longitude: -73.076077°

Watershed: Stevens Brook

Location: La Cresta Dr., at High St

Problem Type: Erosion

Identification Source: SWMP Assessment

Ownership: Private

Classification: 3

Date of Field Data Collection: 06-18-2014

Description of Observed Conditions:

Ditch carrying stormwater runoff from private road is actively eroding and culvert under La Cresta Dr. is completely plugged with sediment.

Field Photos

Photo 1. Actively eroding ditch.

Photo 2. Plugged culvert

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	3	2	Y	Y	N	N

Problem Area Data Sheet

Problem Area ID: SB-14	Latitude: 44.844907°	Longitude: -73.077288°

Watershed: Stevens Brook

Location: Paquette Dr., at Route 207

Problem Type: Retrofit Opportunity

Identification Source: SWMP Assessment

Ownership: Private

Classification: 2

Date of Field Data Collection: 06-18-2014

Description of Observed Conditions:

Grassed swale in front of Handy Chevrolet receives stormwater runoff from parts of the I-89 off-ramp, Route 207 and Paquette Dr.

Field Photos

Photo 1. Looking south along Route 207 toward I-89.

Photo 2. Intersection of Route 207 and I-89 off ramp

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
1	2	2	1	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: SB-15A	Latitude: 44.838144°	Longitude: -73.080886°

Watershed: Stevens Brook

Location: Highgate Commons Plaza

Problem Type: Retrofit Opportunity

Identification Source: SWMP Assessment

Ownership: Private

Classification: 2

Date of Field Data Collection: 06-20-2014

Description of Observed Conditions:

Green space between Key Bank and McDonald's appears well-suited for stormwater retrofit, including existing curb cuts.

Field Photos

Photo 1. Existing green space between McDonald's and Key Bank.

Photo 2. Existing curbcut along back edge of Key Bank parkilng lot.

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	2	1	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: SB-15B	Latitude: 44.838144°	Longitude: -73.080886°

Watershed: Stevens Brook

Location: Highgate Commons Plaza

Problem Type: Retrofit Opportunity

Identification Source: SWMP Assessment

Ownership: Private

Classification: 2

Date of Field Data Collection: 06-20-2014

Description of Observed Conditions:

Numerous, elevated vegetated islands within Highgate Commons parking lot could be retrofit to become stormwater management depressions.

Field Photos

Photo 1. Islands at the southend of the parking lot.

Photo 2. Example of island used to separate parking areas from travel lanes.

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	2	1	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: SB-15C	Latitude: 44.838144°	Longitude: -73.080886°

Watershed: Stevens Brook

Location: Highgate Commons Plaza

Problem Type: Retrofit Opportunity

Identification Source: SWMP Assessment

Ownership: Private

Classification: 3

Date of Field Data Collection: 06-20-2014

Description of Observed Conditions:

Much of the parking lot drains toward the north and west to a grassed area and eventually a tributary to Stevens Brook. There is ample space for a retrofit in the existing green space.

Field Photos

Photo 1. Evidence of stormwater draining off wet edge of parking area

Photo 2. Evidence of sediment transport from parking lot to green space and some localized erosion .

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	2	2	N	Y	Y	N

Problem Area Data Sheet

Problem Area ID: SB-15D	Latitude: 44.838144°	Longitude: -73.080886°

Watershed: Stevens Brook

Location: Highgate Commons Plaza

Problem Type: Retrofit Opportunity

Identification Source: SWMP Assessment

Ownership: Private

Classification: 3

Date of Field Data Collection: 06-20-2014

Description of Observed Conditions:

Opportunity to improve (e.g., stop mowing) buffer between northend of shopping plaza and unnamed tributary to Stevens Brook and potentially provide treatment for stormwater being discharged directly to the tributary.

Field Photos

Photo 1. Buffer area is mowed to "top of bank"

Photo 2. Evidence of bank slumping and direct stormwater discharges.

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	2	2	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: SB-15E	Latitude: 44.838144°	Longitude: -73.080886°

Watershed: Stevens Brook

Location: Highgate Commons Plaza

Problem Type: Retrofit Opportunity

Identification Source: SWMP Assessment

Ownership: Private

Classification: 2

Date of Field Data Collection: 06-20-2014

Description of Observed Conditions:

Significant area of underutilized impervious (paved) surface behind Peebles that could potentially be "depaved".

Field Photos

Photo 1. Underutilized impervious area behind Peebles.

Photo 2. Underutilized impervious area.

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	2	1	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: SB-16A	Latitude: 44.838144°	Longitude: -73.080886°

Watershed: Stevens Brook

Location: Franklin Park West

Problem Type: Retrofit Opportunity

Identification Source: SWMP Assessment

Ownership: Private

Classification: 2

Date of Field Data Collection: 06-20-2014

Description of Observed Conditions:

There are numerous opportunities to improve stormwater management in Franklin Park West. Unnamed tributary to Stevens Brook passes through the park and there is little woody vegetation in the buffer, where a buffer is provided. n general, the area has wide grass roadside swales that might be able to retrofit to further slow stormwater.

Field Photos

Photo 1. Unnamed tributary to Stevens Brook flowing thru Franklin Park West

Photo 2. Example of wide grass swales present throughout Franklin Park West.

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	2	1	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: SB-16B	Latitude: 44.838144°	Longitude: -73.080886°

Watershed: Stevens Brook

Location: Franklin Park West

Problem Type: Retrofit Opportunity

Identification Source: SWMP Assessment

Ownership: Private

Classification: 2

Date of Field Data Collection: 06-20-2014

Description of Observed Conditions:

There are numerous opportunities to improve stormwater management in Franklin Park West. In general, the area has wide grass roadside swales, with some areas of erosion (see Photo 2, below). In addition, roof runoff within the Park appears largely unmanaged.

Field Photos

Photo 1. Downspout at Champlain Valley Equipment discharging directly onto parking lot

Photo 2. Eroding swale near F.W. Webb

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	2	1	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: SB-17	Latitude: 44.839456°	Longitude: -73.114170°

Watershed: Stevens Brook

Location: Kellogg Rd., just south of Christina Dr

Problem Type: Erosion

Identification Source: SWMP Assessment

Ownership: Public/Private

Classification: 3

Date of Field Data Collection: 06-20-2014

Description of Observed Conditions:

Cross-culvert under Kellogg Rd outlets into a steep ditch with significant bank erosion. Water flowing thru cross-culvert appears to come from surface drainage along Christina Dr. as well as runoff from a significant length of Kellogg Rd.

Field Photos

Photo 1. Active erosion at outlet to cross-culvert

Photo 2. Area draining to cross-culvert

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	2	2	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: JB-01	Latitude: 44.856208°	Longitude: -73.151057°

Watershed: Jewett Brook

Location: Lower Newton Rd. at Middle Rd.

Problem Type: Infrastructure/Erosion

Identification Source: SWMP Assessment

Ownership: Public

Classification: 2

Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

There is a large scour pool at the outlet and banks appear unstable downstream. A USGS Station is monitors the flow as it enters this culvert.

Field Photos

Photo 1. Scour pool at culvert outlet

Photo 2. Flooded area and USGS station at inlet.

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	2	2	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: HB-01	Latitude: 44.828084°	Longitude: -73.060566°

Watershed: Hungerford Brook

Location: Rt. 105, East of I-89

Problem Type: Encroachment

Identification Source: SGA

Ownership: Public/private

Classification: 2

Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

Upstream banks are unstable and may meander away from culvert inlet.

Field Photos

Photo 1.Upstream from culvert

Photo 2. Culvert outlet.

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	2	2	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: HB-02	Latitude: 44.829324°	Longitude: -73.053620°

Watershed: Hungerford Brook

Location: Rt. 104, Just north of Rt. 105

Problem Type: Infrastructure

Identification Source: SGA

Ownership: Public

Classification: 1

Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

Small scour pool at culvert outlet. Water ponds at inlet.

Field Photos

Photo 1. Scour pool at outlet

Photo 2. Water ponding at inlet

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
1	2	1	1	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: RB-01	Latitude: 44.800302°	Longitude: -73.099209°

Watershed: Rugg Brook

Location: Industrial Park Rd

Problem Type: Erosion/Retrofit Opportunity

Identification Source: 2010 Erosion Study/ SWMP Assessment

Ownership: Public/Private

Classification: 3

Date of Field Data Collection: 06/18/2014

Description of Observed Conditions:

The swale running down the middle of Industrial Park Rd could be retrofitted to improve stormwater management. Check dams have been installed but are not functioning well. Some evidence of on-going erosion within existing swales.

Field Photos

Photo 1. Swale, with some evidence of erosion

Photo 2. Existing check dam

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	2	2	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: RB-02	Latitude: 44.801770°	Longitude: -73.102729°

Watershed: Rugg Brook

Location: Industrial Park Rd

Problem Type: Retrofit Opportunity

Identification Source: SWMP Assessment

Ownership: Private

Classification: 2

Date of Field Data Collection: 06/18/2014

Description of Observed Conditions:

Green space and unpaved area within *Catamount Research and Development* parking lot present retrofit opportunities.

Field Photos

Photo 1. Possible green space for stormwater management

Photo 2. Unpaved area within parking lot.

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	1	1	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: RB-03	Latitude: 44.789803°	Longitude: -73.097988°

Watershed: Rugg Brook

Location: Prospect Hill Rd., just off Georgia Rd (Route 7)

Problem Type: Erosion

Identification Source: SWMP Assessment

Ownership: Public/Private

Classification: 3

Date of Field Data Collection: 06/18/2014

Description of Observed Conditions:

A series of eroding roadside ditches are carrying runoff along Prospect Hill Rd, before turning northwest toward Harborview Estates.

Field Photos

Photo 1. Ditch along Prospect Hill Dr.

Photo 2. Runoff, having crossed under Prospect Hill, heading off-site toward Harborview Estates

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	2	2	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: RB-04	Latitude: 44.783151°	Longitude: -73.101744°

Watershed: Rugg Brook

Location: Cedar Hill Rd.

Problem Type: Erosion

Identification Source: SWMP Assessment

Ownership: Public/Private

Classification: 3

Date of Field Data Collection: 06/18/2014

Description of Observed Conditions:

Active erosion in ditches along Cedar Hill Rd., from Charbonneau Dr. down to Route 7. Culvert headers poorly installed and actively being eroded around. HOA appears to have state stormwater permit (4597-9015).

Field Photos

Photo 1.

Photo 2.

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	3	2	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: DC-01	Latitude: 44.812944°	Longitude: -73.040234°

Watershed: Dead Creek

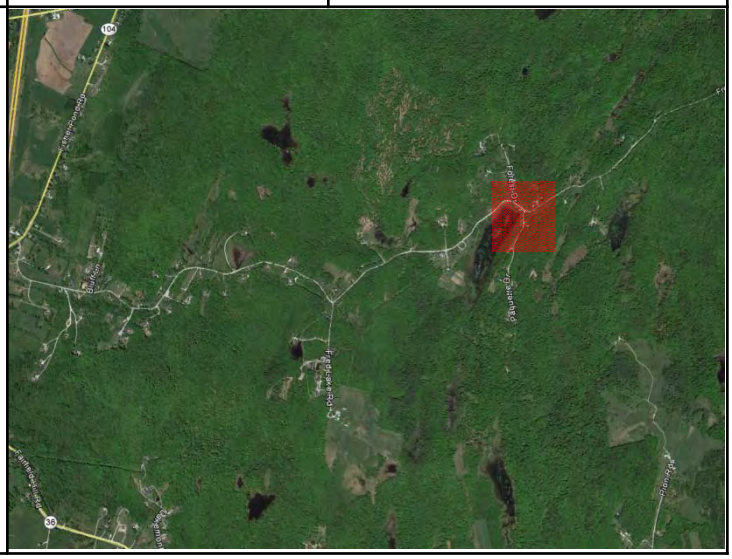
Location: French Hill Road

Problem Type: Infrastructure

Identification Source: Culvert inventory

Ownership: Town

Classification: 1



Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

Culvert is perched and downstream banks are eroding.

Field Photos

Photo 1. Perched culvert outlet

Photo 2. Bank erosion downstream from culvert

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	2	1	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: DC-02	Latitude: 44.794885°	Longitude: -73.048592°

Watershed: Dead Creek

Location: Lakemont Rd. at Fairfield Hill Rd (Route 36)

Problem Type: Erosion

Identification Source: Culvert inventory

Ownership: Public

Classification: 3

Date of Field Data Collection: 06-18-2014

Description of Observed Conditions:

Culvert is perched and downstream banks are eroding.

Field Photos

Photo 1. Evidence of sediment from Lakemont Rd. being deposited in ditch along Route 36

Photo 2. Road shoulder crumbling at corner of Lakemont Rd and Route 36

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	2	3	y	Y	N	N

Problem Area Data Sheet

Problem Area ID: LC-01	Latitude: 44.82298825	Longitude: -73.1893853

Watershed: Lake Champlain

Location: Samson Rd.

Problem Type: Infrastructure

Identification Source: Culvert inventory

Ownership: Town

Classification: 2

Date of Field Data Collection: _____

Description of Observed Conditions:

Four culverts along Samson Road were identified in the culvert inventory as "critical." It appears that the culvert have been replaced somewhat recently with catch basin which outlet to the lake.
Some erosion was observed around the catch basin located 120 ft north of Waters Edge Dr.
Some bank erosion was observed around the outlet located 720 feet north of Waters Edge Dr.
The remaining two catch basins and outlets appear to be in good condition.

Field Photos

Photo 1. Erosion near catch basin

Photo 2. Erosion around outlet

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	3	2	2	Y	Y	Y	N

Problem Area Data Sheet

Problem Area ID: LC-02	Latitude: 44.859291°	Longitude: -73.170685°

Watershed: Lake Champlain

Location: Rt.38 and Perry Rd. Intersection

Problem Type: Infrastructure

Identification Source: Culvert inventory

Ownership: Town

Classification: 2

Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

The culvert under Perry Road appears to have recently been replace. The ditch upstream from the culvert is narrow and V-shaped and is beginning to incise.

Field Photos

Photo 1. Narrow ditch upstream from culvert

Photo 2. Culvert inlet

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	2	2	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: LC-03	Latitude: 44.847735°	Longitude: -73.183927°

Watershed: Lake Champlain

Location: Maquam Rd.,1250 ft south of Pike Farm Estates

Problem Type: Infrastructure

Identification Source: Culvert inventory

Ownership: Town

Classification: 2

Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

Culvert is undersized and the bank above the outlet is too steep. There is significant erosion at the outlet. The adjacent field is cultivated to the edge of the roadside ditch. Runoff from the field discharges directly to Lake Champlain, less than 50 feet away.

Field Photos

Photo 1. Erosion at culvert outlet

Photo 2. Narrow buffer is visible in background of inlet

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
3	3	2	2	Y	Y	Y	N

Problem Area Data Sheet

Problem Area ID: LC-04	Latitude: 44.846471°	Longitude: -73.183843°

Watershed: Lake Champlain

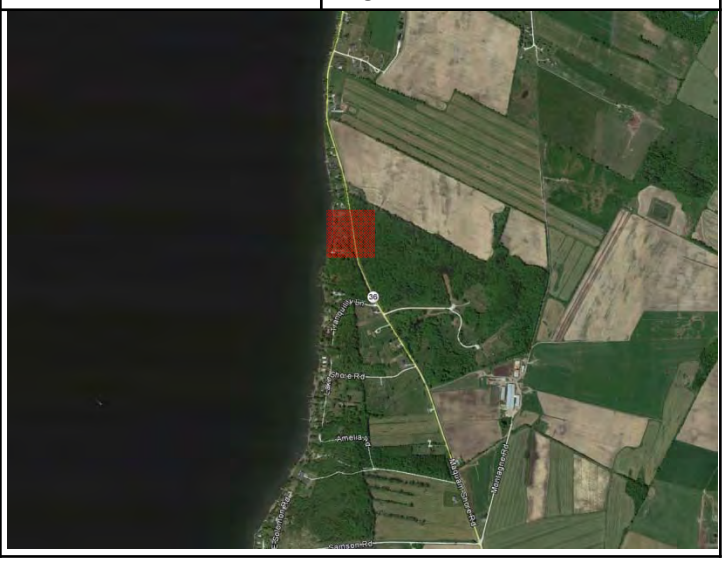
Location: Maquam Rd.,1600 ft south of Pike Farm Estates

Problem Type: Infrastructure

Identification Source: Culvert inventory

Ownership: Town

Classification: 2



Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

Culvert is undersized and too short. The bank above the inlet is too steep. The culvert discharges to an open structure on the west side of Maquam Rd., which contains debris. The adjacent field is cultivated to the edge of the roadside ditch. Runoff from the field discharges directly to Lake Champlain, less than 50 feet away.

Field Photos

Photo 1. Culvert inlet

Photo 2. Culvert outlet

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?

Problem Area Data Sheet

Problem Area ID: SAB-01	Latitude: 44.805582°	Longitude: -73.134757°

Watershed: St. Albans Bay

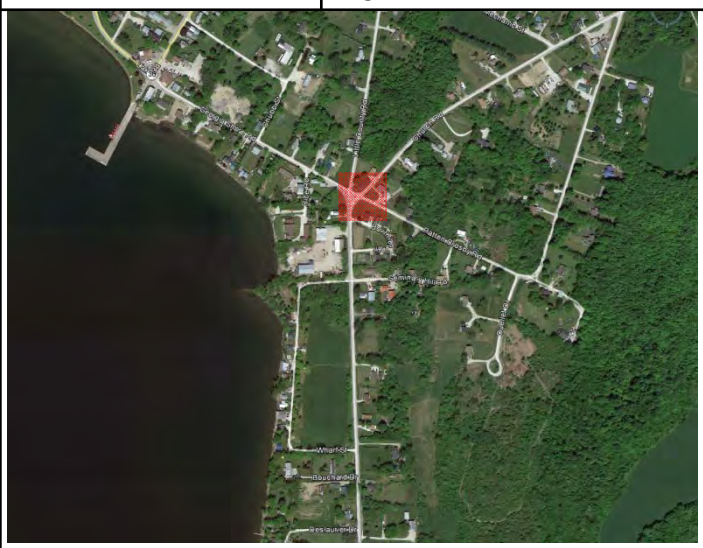
Location: Patten Crosby Rd.

Problem Type: Infrastructure

Identification Source: Culvert inventory

Ownership: Town

Classification: 3



Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

The culvert beneath Patten Crosby Rd. appears to have recently been replace. A discontinuous culvert section from Church St. is misaligned and may cause future erosion problems due to confined area and nearby utilities.

Field Photos

Photo 1. Culvert outlet from Church St. is buried, but visible

Photo 2. Erosion will be an issue with nearby utilities

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
3	2	2	2	Y	Y	Y	Y

Problem Area Data Sheet

Problem Area ID: SAB-03	Latitude: 44.810947°	Longitude: -73.133882°

Watershed: St. Albans Bay

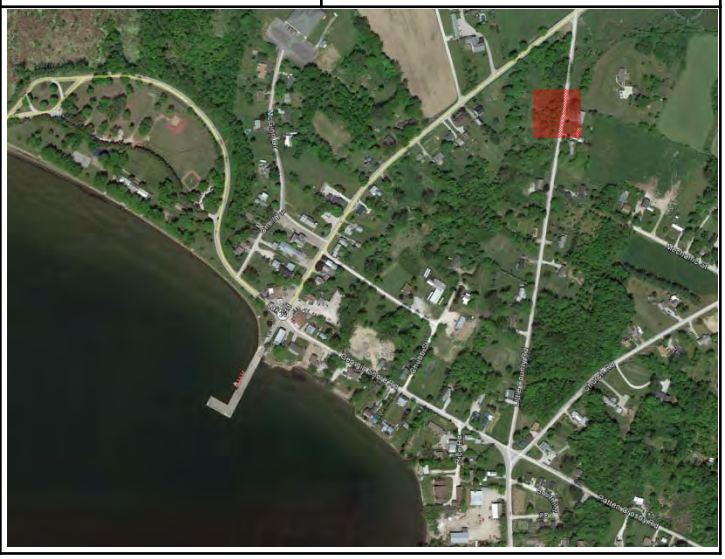
Location: Little County Rd.

Problem Type: Infrastructure

Identification Source: Culvert inventory

Ownership: Town

Classification: 2



Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

Stream banks upstream from culvert ate unstable for several hundred feet. As a result, the culvert is misaligned with the stream. The bank above the culvert inlet and outlet is steep. The culvert outlet is perched, but a concrete splash pad has limited erosion.

Field Photos

Photo 1. Upstream banks are unstable and meandering

Photo 2. Culvert outlet and scour pool

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
3	2	2	1	Y	Y	Y	N

Problem Area Data Sheet

Problem Area ID: SAB-04	Latitude: 44.812159°	Longitude: -73.107130°

Watershed: St. Albans Bay

Location: Brigham Rd. at the intersection with Lake Rd.

Problem Type: Infrastructure

Identification Source: SWMP Assessment

Ownership: Public

Classification: 3

Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

Two locations where culvert sections are discontinuous, resulting in scour holes approximately 4 ft. deep. The area around this location is largely impervious.

Field Photos

Photo 1. Discontinuous culvert sections and scour hole

Photo 2. Discontinuous culvert sections and scour hole

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	3	3	2	N	Y	N	Y

Problem Area Data Sheet

Problem Area ID: SAB-05	Latitude: 44.812159°	Longitude: -73.107130°

Watershed: St. Albans Bay

Location: Lake Rd. just west of intersection with Brigham Rd.

Problem Type: Infrastructure

Identification Source: SWMP Assessment

Ownership: Public

Classification: 3

Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

Erosion at the outlet of a culvert. Outlet is only 2 feet from the edge of pavement (Lake Rd.) which is beginning to fail.

Field Photos

Photo 1. Pavement erosion at culvert outlet

Photo 2. Pavement erosion

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	3	3	2	Y	Y	Y	Y

Problem Area Data Sheet

Problem Area ID: SAB-06	Latitude: 44.810003°	Longitude: -73.124885°

Watershed: St. Albans Bay

Location: Church Rd.

Problem Type: Infrastructure

Identification Source: SWMP Assessment

Ownership: Town

Classification: 2

Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

Banks near inlet are eroding where stream turns 90-degrees to enter the culvert. There is a large scour pool at the outlet. Nearby utilities may be at risk as banks continue to erode.

Field Photos

Photo 1. Bank erosion near the culvert inlet

Photo 2. Large scour pool at culvert outlet.

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	3	2	2	Y	Y	Y	N

Problem Area Data Sheet

Problem Area ID: SAB-07	Latitude: 44.805582°	Longitude: -73.134757°

Watershed: St. Albans Bay

Location: Church Rd.

Problem Type: Infrastructure

Identification Source: Culvert Inventory

Ownership: Town

Classification: 2

Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

A large catchment drains to this culvert, which is undersized. The culvert outlet is perched and the banks nearby are eroding.

Field Photos

Photo 1. Culvert outlet from Church St. is buried, but visible

Photo 2. Erosion will be an issue with nearby utilities

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	2	2	N	Y	N	N

Problem Area Data Sheet

Problem Area ID: SAB-08	Latitude: 44.808490°	Longitude: -73.138976°

Watershed: St. Albans Bay

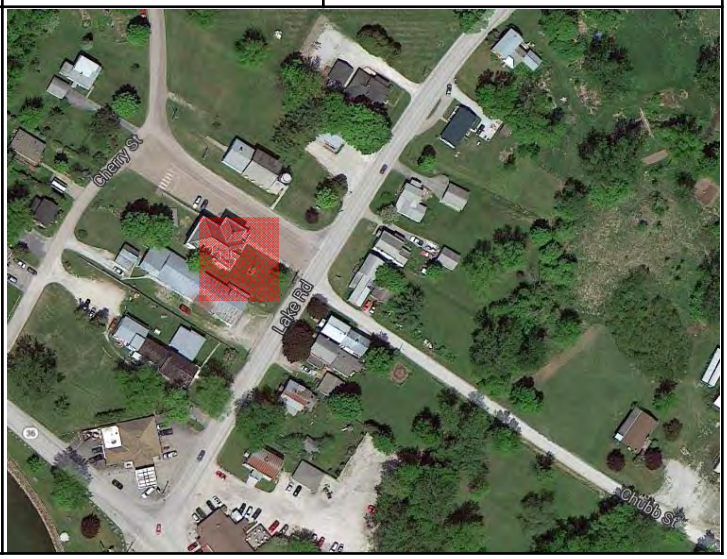
Location: Lake Rd.

Problem Type: Retrofit Opportunity

Identification Source: SWMP Assessment

Ownership: Public

Classification: 2



Date of Field Data Collection: 5-2-14

Description of Observed Conditions:

Stormwater runoff from Town Hall currently flows out to Lake Rd, and across the edge of the gravel parking lot before dropping into a nearby catch basin. It appears that the front lawn of Town Hall could be retrofit to improve stormwater management.

Field Photos

Photo 1. St Albans Town Hall, and lawn

Photo 2. Catch basin that receives runoff from Town Hall

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	2	2	N	Y	N	N