

St. Croix International Management Plan Progress Update

1993-2014

The St. Croix International Waterway Commission facilitates the implementation of the management plan “St. Croix International Waterway: A Heritage – A Future” which was adopted in 1993. This document highlights progress made toward the goals and policies outlined in the 1993 plan.

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Introduction

The original international management plan for the St. Croix Waterway was designed to be a cooperative, voluntary management plan, facilitated by the St. Croix International Waterway Commission. The area included in this plan covers the eastern branch of the St. Croix River from Monument Brook to Passamaquoddy Bay at Robbinston, ME and St. Andrews, NB. It does not include the western branch of the river, which lies within the state of Maine. The boundary corridor is strictly defined as all lands and waters that fall within 75 m/250 feet of mean high water. However, the management plan also includes land beyond this corridor, if it is “recognized jointly by New Brunswick and Maine as held or managed for purposes of the Waterway.”¹

The plan was developed through a public consultation process within the watershed. As a result, it is upheld as an example of local cooperative management plans throughout North America.

Two previous attempts to update this plan in its entirety were made, in 2007 and 2010, but were not completed.

This progress report highlights the progress made toward the principal and individual goals described in the 1993 plan, as a written summary, in preparation for an update in 2014. A detailed timeline of individual progress items is located in the appendix and online at www.stcroix.org. It was completed by the St. Croix International Waterway Commission as part of its mandate.

¹ Pg 9, *St. Croix International Waterway: A Heritage – A Future*. 1993.

Need and Urgency



The original management plan for the St. Croix waterway was implemented in 1993. Since that time, the waterway has undergone changes and faces new challenges.

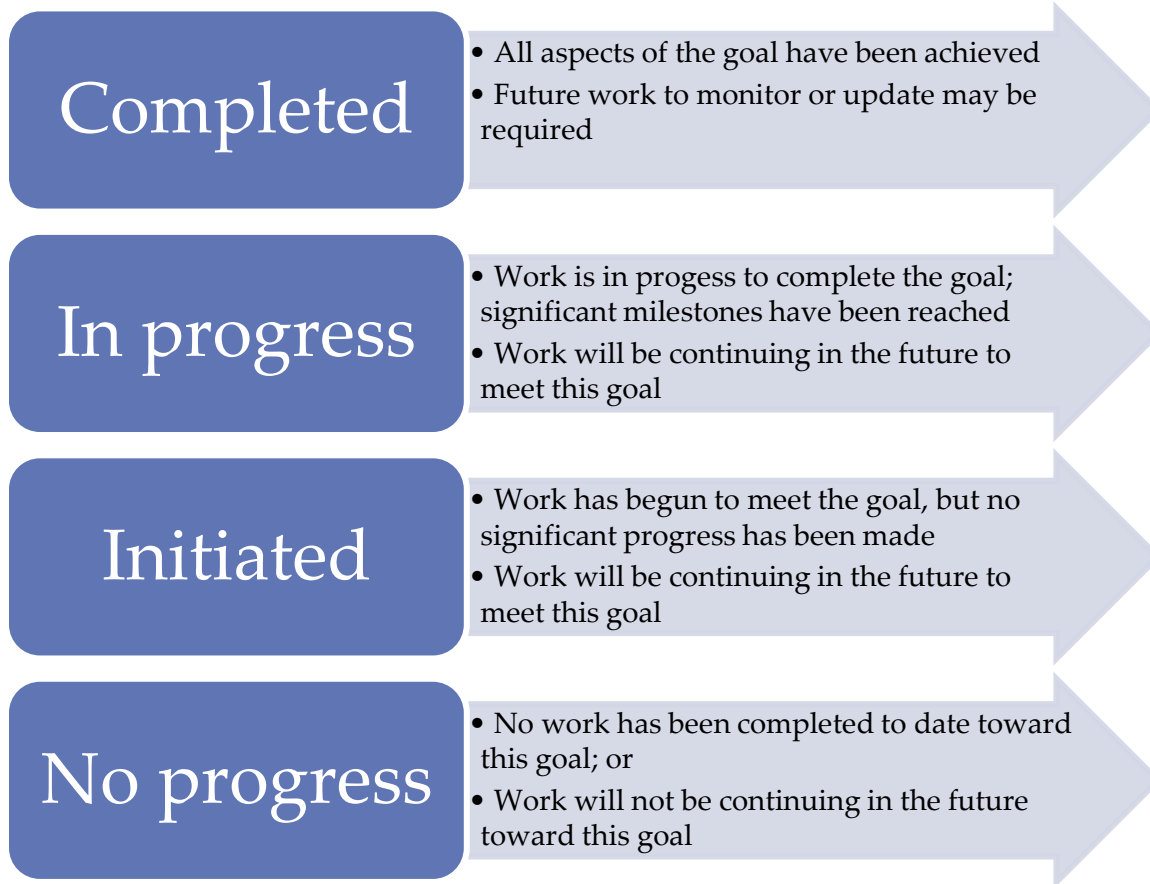
The first step in updating this management plan to address current and future challenges is to provide an update of progress that has been made toward the goals and policies established in 1993.

The goals and progress listed in this report are a result of numerous agencies, individuals, and groups operating within the Watershed, and are not solely the efforts of the SCIWC.



How to use this document

Each policy, goal and action within this management plan has been assigned an overall progress rating, based on the scale below.





Principal Management Goals

The principal management goals for the waterway corridor, and their progress ratings, are:

In progress	<ul style="list-style-type: none">• Protect and enhance the Waterway's natural heritage: its scenic landscapes and waterscapes; its fish, wildlife, forest and plant resources; and its quality of air, land and water.
In progress	<ul style="list-style-type: none">• Preserve and realize additional benefits from the Waterway's cultural heritage: its significant history, its traditional economic and recreational bases, and its rural quality of life.
In progress	<ul style="list-style-type: none">• Identify and nurture new avenues for recreational and economic development, compatible with the Waterway's natural and cultural values.
In progress	<ul style="list-style-type: none">• Establish priorities and a balance for growing demands on limited land and water resources along the Waterway, for the greatest long-term public benefit.
In progress	<ul style="list-style-type: none">• Strengthen government and public/private partnerships for effective planning and management to more equitably share the benefits and responsibilities of Waterway stewardship.

Excellent progress has been made toward the principal management goals. Details of this progress are discussed in the individual policy area sections that follow.



Principal Management Themes

During the Waterway planning process, seven principal themes were identified. Policies and actions were developed for each theme. The ratings below are a progress rating for each of the themes; a breakdown of the actions within each policy is located in the following section.

Completed	• International Heritage Waterway
In progress	• Environmental Setting
In progress	• Human Heritage
In progress	• Natural Heritage
In progress	• Recreational Heritage
Initiated	• Economic Development
In progress	• Waterway Management



International Heritage Waterway

This theme represents policies and goals that, during the initial implementation of this plan, were centered on formal recognition of the Waterway's unique cultural and natural heritage.

This theme has been rated as **Completed** overall. Individual policies and actions may be assigned other ratings.

1. *Develop the St. Croix's identity as an International Heritage Waterway*

Maine and New Brunswick will jointly recognize the St. Croix as an International Heritage Waterway, carrying this concept forward through the recognition and interpretation of the Waterway's heritage identity.

Completed	<ul style="list-style-type: none">• 1.2 Create a Waterway image.• 1.5 Develop a heritage resource inventory.
Initiated	<ul style="list-style-type: none">• 1.3 Initiate an International Heritage Waterway information and interpretation program.
No progress	<ul style="list-style-type: none">• 1.1 Establish an International Heritage Waterway.• 1.4 Incorporate the International Heritage Waterway concept into local awareness and planning efforts.

Though the St. Croix was recognized as a Canadian Heritage River by the Canadian Heritage River System and an Outstanding River in Maine, no significant progress has been made toward the development of a shared, recognized international waterway program and brand for the St. Croix River.



Environmental Setting

During the public consultation, long-term environmental quality was identified as the most important management issue within the waterway. This theme addresses water quality, land quality, air quality, and biological diversity and productivity via four policies.

This theme was rated as **in progress**. Individual policies and actions may have different ratings. Details of activities relating to these themes are located in the appendix.

2. Establish joint water quality objectives for the Waterway

Recognizing the long-term value of coordinated water quality planning, Maine and New Brunswick will agree upon the future highest quality uses of the Waterway and will cooperatively address the requirement for their maintenance. Both governments will, as a minimum, seek to maintain the present quality of the Waterway's fresh and estuarial waters.

Completed

- 2.1 Set cooperative water quality goals.

In progress

- 2.2 Work toward consistent water quality standards.

This policy had been largely completed until New Brunswick discontinued the implementation of its water classification policy in 2011.

3. Maintain the natural character and environmental buffering capabilities of the shorelands.

New Brunswick and Maine will maintain a natural area along the St. Croix waterfront to absorb or prevent pollution, maintain valued open space, preserve traditional character and protect important shoreland resources, in the long term public interest.

Completed

- 3.1 Maintain an shoreland greenway.

In progress

- 3.2 Take local action to maintain and restore natural shore areas.



4. *Manage pollution to maintain environmental quality under increasing resource use.* Maine and New Brunswick will act to more effectively and more equitably control sources of water, land and other pollution to ensure that uses of Waterway resources having transborder impacts will maintain levels of environmental quality acceptable to both jurisdictions.

Completed

- 4.3 Enforce environmental regulations.
- 4.2 Create an action plan to reduce present pollution.

In progress

- 4.1 Manage future pollution to reduce impacts.
- 4.4 Involve local interests in quality improvement.

5. *Maintain biological productivity and diversity within the Waterway.* Recognizing the essential importance of these factors in maintaining present natural and economic uses of the Waterway and in preserving future use option, New Brunswick and Maine will manage resources in ways that will support continued biological productivity and diversity.

Completed

- 5.1 Monitor, and as practicable manage, the natural productivity of the Waterway.
- 5.2 Monitor and support ecological diversity within the Waterway.

Again, the SCIWC would like to emphasize that rating a policy as “completed” does not mean that it does not or should not require future effort or monitoring; it simply recognizes that the goal, in the form described, has largely been achieved.



Human Heritage

This theme identifies management issues relating to the history and human culture of the St. Croix Waterway.

This theme was rated as **in progress**. Individual policies and actions may have different ratings. Details of activities relating to these themes are located in the appendix.

6. Preserve and interpret the Waterway's history and culture.

New Brunswick and Maine will act cooperatively to preserve and interpret the Waterway's international history and culture for the continuing benefit of the people of both nations.

Completed

- 6.1 Establish facilities and programs to effectively interpret St. Croix Island.

In progress

- 6.2 Expand interpretation of the Waterway's history.
- 6.3 Study, interpret and protect significant archaeological sites.
- 6.4 Maintain transborder cultural bonds.



Natural Heritage

This theme is centered on the protection and management of the Waterway's scenic character, resources, and the creation of conservation and protected areas.

7. *Preserve the visual landscape.*

New Brunswick, Maine, and Waterway residents will seek to conserve the visual character and scenic assets of the Waterway, which are an important part of its natural heritage.

In progress

- 7.2 Conserve visual character and scenic places.

Initiated

- 7.1 Inventory visual resources.

8. *Conserve and interpret the Waterway's natural heritage.*

Maine and New Brunswick will conserve significant components of the Waterway's natural heritage and encourage their continuing interpretation and study.

In progress

- 8.1 Protect rare and significant species and habitats.

Initiated

- 8.2 Expand natural heritage interpretation.

9. *Establish a Conservation Area protecting the resources of the upper river and Spednic Lake.*

New Brunswick and Maine will develop a cooperative land use and resource management program for Spednic Lake and the upper river that will give long-term protection to this area's outstanding natural and traditional recreational resources.

In
progress

- 9.1 Protect the natural character of the waters, shorelands and major views.
- 9.2 Protect and interpret heritage resources.
- 9.3 Manage use to preserve environmental and recreational quality.



Recreational Heritage

This theme centers on the past, current and future recreational culture of the Waterway, with the aim of ensuring that traditional values and public access continue to be priorities in the Waterway's management. This includes policies relating to access to information, integrated planning, sport fishing, canoeing and water sports, as well as land-based recreation.

This theme was rated as **in progress**.

10. Develop appropriate long-term public land and water access.

Maine and New Brunswick will act to ensure adequate public access sites and facilities are developed to meet the long-term recreational needs of Waterway residents and visitors, including those with special access needs.

In progress

- 10.1 Develop a long-term access plan.

Completed

- 10.2 Maintain an inventory of public access lands within the Waterway corridor.

11. Develop a coordinated recreational information program.

New Brunswick and Maine will coordinate recreational information services for the Waterway in order to adequately direct and inform Waterway users.

Completed

- 11.1 Develop transboundary recreational information.
- 11.2 Develop uniform recreational signage.

In progress

- 11.3 Use information to better distribute and manage recreation.

12. Integrate recreational planning to minimize conflicts.

New Brunswick and Maine will better integrate the planning of different forms of St. Croix recreation with each other and with other Waterway uses in order to minimize conflicts and better allocate available resources for increased, high quality recreation.

In progress

- 12.1 Integrate recreational water needs.
- 12.2 Identify and address potential conflicts.



13. Manage high quality sport fishing as a primary recreational and economic asset.

Maine, New Brunswick and other government resource agencies, recognizing the recreational and economic importance of high quality sport fisheries to the Waterway, will cooperatively act to develop and manages these on an integrated basis, for sustainable benefits.

In
progress

- 13.1 Manage existing fisheries for a high quality fishing experience and sustainable yields.
- 13.2 Develop high-quality, low-impact fisheries for smallmouth bass in Spednic Lake and Atlantic salmon in the river, as long term opportunities.
- 13.3 Coordinate regulation, enforcement, and on-site licensing.
- 13.4 Involve the public in fisheries conservation and enhancement.

14. Develop and maintain quality opportunities for back-country canoe tripping and other water recreation.

New Brunswick and Maine will expand opportunities for high quality water recreation on the St. Croix, compatible with the Waterway's heritage character and environmental capabilities.

Completed

- 14.1 Monitor, and as warranted managed, canoe recreation on Spednic Lake and the upper river to preserve recreational and environmental quality.
- 14.2 Manage water releases to provide a more uniform and predictable river canoeing experience.

In progress

- 14.3 Expand canoeing and boating facilities and services.
- 14.4 Encourage additional low-impact recreation.



15. Expand land-based recreational opportunities.

New Brunswick and Maine will encourage and support the development of additional facilities and programs for outdoor recreation along the Waterway's shorelands, in conjunction with the Waterway access plan.

In
progress

- 15.1 Identify and develop outdoor recreation opportunities.
- 15.2 Link with future trail and touring networks.



Economic Development

The St. Croix region, at the time of this Plan’s development, faced economic challenges that continue to this day. The theme of economic development identifies the available resources and industries within the region. Future economic development activities aimed to preserve heritage assets, encourage an international economy, and build on existing industries, including wood products, tourism, and marine shipping.

This theme was rated as **initiated**.

16. Incorporate heritage concepts in economic development.

Maine, New Brunswick and the Waterway communities will support the incorporation of International Heritage Waterway concepts – particularly for the preservation of environmental quality, scenic character, options for water dependent use and public access – into future economic planning and development affecting the Waterway.

In progress

- 16.1 Apply heritage values to development planning.

Initiated

- 16.2 Give waterfront priority to heritage and water-dependent uses.

17. Capitalize on the Waterway's economic strengths.

New Brunswick and Maine will support appropriate and sustainable development of economic sectors that are traditional or compatible to the Waterway’s natural and locational assets and its way of life.

In progress

- 17.2 Expand and diversify international recreation and heritage-based tourism
- 17.3 Develop marine shipping in balance with other estuary uses.
- 17.5 Improve transportation infrastructure and border crossing services.

Initiated

- 17.1 Manage for a sustainable forest products industry
- 17.4 Develop border opportunities.



Waterway Management

The St. Croix International Waterway Commission was created as part of the policies outlined in the Management Plan, in recognition of the challenges faced in managing a transboundary corridor. The theme focuses on coordination, facilitation, and management of water quality and quantity, natural resources, land use and growth strategies, as well as issues that require facilitation, such as recreation, tourism, and partnership development.

This theme was rated as **in progress**.

18. Better integrate, interpret, and exchange information on an international basis.

New Brunswick and Maine will work with all management interests to improve the management and exchange of Waterway information on an international basis.

A graphic showing the progress status for theme 18. It consists of two horizontal bars. The top bar has a blue rounded rectangle on the left containing the word 'Completed' in white, followed by a light blue rounded rectangle containing two bullet points: '18.1 Improve interagency communication.' and '18.2 Improve public communication.' The bottom bar has a blue rounded rectangle on the left containing the words 'In progress' in white, followed by a light blue rounded rectangle containing two bullet points: '18.3 Centralize information services.' and '18.4 Cooperatively address information needs.'

19. Develop effective public/private partnerships for planning and management.

Maine and New Brunswick will encourage and support active partnerships between the public and private sector and between federal, state/provincial and local governments to address cooperative management interests.

A graphic showing the progress status for theme 19. It consists of two horizontal bars. The top bar has a blue rounded rectangle on the left containing the word 'Completed' in white, followed by a light blue rounded rectangle containing one bullet point: '19.4 Support a cooperative proces to integrate use and environmental management of the St. Croix Estuary.' The bottom bar has a blue rounded rectangle on the left containing the words 'In progress' in white, followed by a light blue rounded rectangle containing three bullet points: '19.1 Increase public and user involvement in management.', '19.2 Develop intercommunity cooperation in waterfront planning.', and '19.3 Begin a cooperative process for regional planning on East Grand Lake.'



20. Address long-term management issues on a proactive, interjurisdictional basis.

New Brunswick and Maine will use proactive, cooperative means to address present and emerging interjurisdictional issues, in partnership with other management interests.

Completed	<ul style="list-style-type: none">•20.3 Establish a process to integrate fisheries planning and management.•20.4 Establish a process to coordinate Conservation Area planning and management.
In progress	<ul style="list-style-type: none">•20.2 Establish a process to integrate water planning and management.•20.5 Address future interjurisdictional issues by cooperative means.
No progress	<ul style="list-style-type: none">•20.1 Establish a process to coordinate International Heritage Waterway recognition and development.

21. Maintain coordination through a Waterway Commission.

Maine and New Brunswick will provide a local coordination of the Waterway management plan through an international waterway commission.

Completed	<ul style="list-style-type: none">•21.1 Direct the Commission to coordinate Plan implementation.•21.2 Identify the Commission's long-term role.
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22. Regularly review management progress and directions.

New Brunswick and Maine will ensure that cooperative Waterway management is appropriate and responsive by reviewing management directions and goals on a regular basis.

Completed	<ul style="list-style-type: none">•22.1 Monitor Waterway programs.
In progress	<ul style="list-style-type: none">•22.2 Review the Waterway Plan every four years.



Implementation dependencies

The Management Plan also identified the goals were dependent on the following items, which have also been given a rating.

Completed

- formal adoption of the Plan by NB and Maine.
- Formal recognition of the Plan by other levels of government.

In progress

- Action on the Plan, as resources allow, coordinated by the SCIWC.
- Periodic review of the Plan, to ensure its objectives remain relevant and its progress documented.



Conclusion and Next Steps

A lack of formal Plan review and progress reports since 2007 has impeded forward movement of the Plan and the SCIWC as an organization. A combination of leadership challenges, funding fluctuations, and organizational issues have hindered the completion of a full management plan review.

The St. Croix International Waterway Management Plan has made incredible progress during the past twenty years, as outlined in this document. During that time, huge changes have also occurred, both locally and globally, that will have implications for the Waterway's future.

This report therefore recommends that the SCIWC and all stakeholders, agencies, and residents take time to celebrate the successes and progress made within the Waterway since 1993. The Plan has largely achieved its principal management goals, and for that everyone involved should be commended. Since the Plan was created, new stakeholders, organizations, challenges and threats have sprung into being within the St. Croix corridor; threats and challenges from farther afield, such as climate change, are already affecting the watershed.

The next step, however, is to review the Management Plan in light of current and future challenges. It is recommended that both the Management Plan be updated to reflect the changes within the watershed and the larger world. It is also recommended that the form, role, and structure of the St. Croix International Waterway Commission also be examined and modified in order to then successfully facilitate the updated Management Plan.



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Appendix

The appendix contains listings of actions, events, programs and legislation that represent progress and failures toward reaching individual management plan goals. This list was created from previous management plan update attempts, SCIWC biennial reports, as well as the reports of other agencies and governments. It is by no means exhaustive or conclusive; it is a work in progress.

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Progress Item	Start	End	Description	Theme
Recreation economic impact study	15/05/2003	15/05/2003	A study of the impact of recreation to the local economy was completed.	Economic Development
Business opportunity study completed	15/05/1993	15/05/1994		Economic Development
Downeast ME sustainable tourism plan	15/05/1997	15/05/1997	Destiny 2000 developed a plan for the Downeast ME region.	Economic Development
The Two Nation Vacation launched	15/05/2013	15/05/2013	Maine and NB work together to promote tourism in the St. Croix region.	Economic Development
Natural and cultural tourism strategy launched	15/05/2003	15/05/2003	Enterprise Charlotte (NB) develops a tourism strategy focused on the natural and cultural history of the region.	Economic Development
Downeast Tourism plan updated	15/05/2004	15/05/2004		Economic Development
Downeast and Bold Coast Byway plans	15/05/2013	15/05/2013	The Washington County Council of Governments updates plans.	Economic Development
St. Stephen BIA Downtown development plan	06/01/2014	06/01/2014	St. Stephen develops a new downtown development plan that creates a vibrant downtown core with a focus on the river and a greenbelt.	Economic Development
Quoddy Loop tourism plan	06/01/1989	06/01/1989	The Quoddy Loop tourism marketing strategy encourages international tourist traffic.	Economic Development
St Croix heritage business study	06/01/1993	06/01/1994	A study identifies potential heritage business opportunities in the region.	Economic Development
Bayside Quarry	06/01/1998	06/01/2014	Bayside Quarry to create port laydown and business lands.	Economic Development
Third international bridge crossing opened	06/01/2010	06/01/2010	A third international border crossing was opened in Calais/St. Stephen.	Economic Development
Vanceboro bridge replacement	06/01/1997	06/01/1997		Economic Development

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Hours retained at border crossings	06/01/1992	06/01/2014	SCIWC works with local residents and agencies to keep small border crossings in the upper watershed open.	Economic Development
New US Customs building at Fosterville	06/01/2010	06/01/2010		Economic Development
Partial rail line retention	06/01/1994	06/01/1994	NB Southern Railway acquires rail line and keeps open.	Economic Development
Highway improvements	06/01/2010	06/01/2010	A new four lane project on Highway 1, running from Saint John to the new border crossing in St. Stephen, is opened to improve commercial traffic flow.	Economic Development
NB Adopts Clean Water Act	30/06/1991	30/06/1991	The province of New Brunswick adopts Clean Water Act.	Environmental Setting
St. Croix Water Classification proposed	01/06/2000	01/06/2000	The SCIWC introduced a water classification proposal to align NB and Maine systems.	Environmental Setting
NB adopts new water classification	01/06/2002	01/06/2002	NB adopts a comprehensive water classification system that matches Maine. Yet to be implemented.	Environmental Setting
Shoreland zoning in Baileyville	01/09/1993	01/09/1993	Shoreland protection zoning is passed in Baileyville, ME.	Environmental Setting
Vanceboro Shoreland Protection	01/09/1994	01/09/1994	Vanceboro, ME implements shoreland zoning protection.	Environmental Setting
St. Andrews Shoreline Zoning	01/05/2001	01/05/2001	St. Andrews, NB introduces shoreland setbacks into their zoning bylaws.	Environmental Setting
Calais River Walkway and Park Created	01/09/2005	01/09/2005	The City of Calais completes work on a shoreline greenway park and conversion of a former rail bed into a walkway.	Environmental Setting
St. Stephen creates shoreline walkway	01/09/2005	01/09/2005	St. Stephen completes work on a downtown riverbank walking path.	Environmental Setting

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Calais upgrades wastewater	01/09/1990	01/09/2001	The City of Calais separates wastewater and storm water lines to reduce pollution.	Environmental Setting
McAdam wastewater upgrades	01/09/1996	01/01/2006	McAdam upgrades its wastewater lines and upgrades its lift station to minimize future pollution.	Environmental Setting
St. Andrews wastewater upgrade	01/01/1990	01/01/2006	The Town of St. Andrews improves its wastewater system.	Environmental Setting
Champlain Industrial Park wastewater	01/01/2003	01/01/2007	Wastewater systems in the Champlain Industrial Park are upgraded.	Environmental Setting
Oak Bay Park wastewater upgrade	31/01/1997	31/01/1998	The Oak Bay campground and park installs a chlorination/dechlorination system.	Environmental Setting
Baileyville wastewater Improvements	01/01/2003	01/01/2003		Environmental Setting
Lake water quality baseline monitoring	01/06/1992	31/10/2012	Lakes within the watershed are monitored at intervals to ensure a baseline water quality is met.	Environmental Setting
Woodland Pulp LLC upgrades	01/06/1990	01/06/1990	The spill collection system was installed and storm/sanitary sewers were rerouted for treatment.	Environmental Setting
Calais, ME pump station upgrades	30/05/2003	30/05/2006		Environmental Setting
Mill Cove ME clam beds re-open	01/05/2006	01/05/2006	Water quality improved so that traditional clam flats were re-opened in Mill Cove.	Environmental Setting
Woodland mill production and wastewater improvements	01/06/1990	30/06/2005	Woodland Pulp LLC makes a series of 16 improvements to their production and wastewater systems to improve water quality.	Environmental Setting

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Woodland mill ceases release of 2 chemicals	30/06/1991	30/06/1991	The Woodland mill facility stops using elemental chlorine and ends dioxin release into the St. Croix River.	Environmental Setting
Oak Bay Clam Bed cleanup	01/05/1993	31/12/1997	Multi-agency project to study and reduce pollution in Oak Bay to allow clam beds to re-open in 1998.	Environmental Setting
Mill Cove clam bed project	01/05/1993	31/05/2000	Upgrades made to point-source pollution discharges in Maine to allow clam beds in Mill Cove to re-open.	Environmental Setting
International spill communication workshop	30/05/2002	30/05/2002	Multi-agency event to communicate and coordinate environmental spill response within the St. Croix watershed.	Environmental Setting
St. Stephen, NB wastewater system upgrades	30/05/2003	30/05/2004		Environmental Setting
St. Stephen NB opens new sewage treatment plant	30/05/2005	30/05/2005	The Town of St. Stephen relocates their wastewater treatment plant from the river's edge to further inland.	Environmental Setting
Water quality monitoring on lower river begins	30/05/2004	30/05/2004	The Maine Department of Environmental Protection begins water quality monitoring on the lower section of the river.	Environmental Setting
SCEP action plan created for estuary	30/05/1997	30/05/1997	The St. Croix Estuary Project creates an environmental action plan for management of the estuary.	Environmental Setting
SCEP updates management plan	30/05/2013	30/05/2013	The St. Croix Estuary Project updates their estuary management action plan through to 2020.	Environmental Setting
St. Croix Estuary Project established	30/05/1991	30/05/1991	The St. Croix Estuary Project is established to address environmental concerns within the estuary.	Environmental Setting

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Educational programs in local schools	30/05/1991	31/12/2013	St. Croix Estuary Project, the SCIWC, local teachers, and the Atlantic Salmon Federation run numerous environmental and fisheries education programs in local schools.	Environmental Setting
Volunteer Lake Monitoring Program	30/05/1992	30/09/2013	The SCIWC, CLIC, and MVLMP establish and continue annually water quality monitoring in Spednic and East Grand Lakes.	Environmental Setting
St. Croix Lake Book created	30/05/1992	30/05/1992	The comprehensive "What you can do" St. Croix Lake Book is created and distributed to the public.	Environmental Setting
River Cleanup event	02/07/1992	02/07/1995	Local youth and community groups, in conjunction with SCIWC, participate in annual cleanups removing garbage and waste from the river shorelines.	Environmental Setting
SCEP Estuary water quality monitoring	02/07/1993	31/03/2014	Water quality monitoring program begins in the estuary. At first volunteer, it has developed into a year-round monitoring program in 2013.	Environmental Setting
Landowner Septic education program	02/07/1997	02/07/1998	A comprehensive education program for septic system maintenance is launched with the aim of reducing point-source pollution from home septic systems.	Environmental Setting
20 year wetlands trend analysis completed	02/07/1993	02/07/1994	The US Fish and Wildlife Service completed a trends analysis study for wetlands in the lower St. Croix River.	Environmental Setting

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NB Grassy Islands Ecological Preserve Created	02/07/1994	02/07/1994	The province of NB establishes an ecological reserve on the Grassy Islands, located in the St. Croix River.	Environmental Setting
Spednic Lake Protected Natural Area created	31/12/2004	31/12/2004	The province of NB creates a 25,700-ha protected area on the shores of Spednic Lake, including the Spednic Lake Provincial Park campground and Diggity Stream historic campsite.	Environmental Setting
State of the St. Croix Ecosystem workshop	31/12/2002	31/12/2002	The International Joint Commission hosts a state of the ecosystem workshop in the St. Croix watershed.	Environmental Setting
Estuary environmental and species trends report	31/12/2004	31/12/2004	The St. Croix Estuary Project completes and publishes a report on species and environmental trends within the estuary.	Environmental Setting
SCIWC wins Northern Forest Alliance Award	30/11/2003	30/11/2003	The SCIWC wins the Wildlands Protection award from the Northern Forest Alliance in recognition of its work to protect wildlife habitat within the watershed.	Environmental Setting
Impervious mapping project	29/10/2010	29/10/2010	The SCIWC works with partners to map impervious surfaces within the watershed.	Environmental Setting
Water level and quality gauge added at Milltown	12/03/2009	12/03/2009	Environment Canada added a water gauge and quality meter at Milltown.	Environmental Setting
NB water classification program discontinued	12/03/2011	12/03/2011		Environmental Setting
SCEP releases new strategic plan	12/03/2013	12/03/2013		Environmental Setting
USGS bathymetry mapping of Spednic Lake completed	15/02/2011	15/02/2011	This is a step toward managing lake levels for smallmouth bass habitat.	Environmental Setting

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McAdam upgrades wastewater treatment plant	15/02/2009	15/02/2009		Environmental Setting
CBC Alewife documentary released	15/02/2011	15/02/2011	Documentary on the alewife controversy is released by CBC.	Environmental Setting
St. Croix Island management plan revised	31/12/1995	31/12/1998	The US National Park Service revises its management plan for the St. Croix Island interpretive site.	Human Heritage
St. Croix Island 400 year celebrations	31/12/1995	31/12/2005	A celebration of the 400th anniversary of the arrival of Champlain on St. Croix Island is planned and delivered.	Human Heritage
St. Croix Island Interpretive Site NB	31/12/1996	31/12/1996	An interpretive facility is established for St. Croix Island in Bayside, NB.	Human Heritage
St. Croix Island facility upgrade	31/12/2002	31/12/2003	Facilities at the US National Park Historic site for St. Croix Island are expanded and upgraded.	Human Heritage
St. Croix Island facility upgrade Canada	31/12/2002	31/12/2004	Interpretive facilities at the Canadian St. Croix Island site are upgraded.	Human Heritage
Calais, ME adds 6 historic sites	31/12/1990	31/12/2006	Six sites and districts in Calais, ME are added to the US National Register of Historic Places.	Human Heritage
St. Croix Island Curriculum	31/12/2003	31/12/2004	Curriculum developed and implemented in local and regional NB and ME schools to teach the history of St. Croix Island.	Human Heritage
St. Croix Canadian Stamp	01/06/1992	01/06/1992	Canada Post and the Canadian Heritage Rivers Board worked with the SCIWC to feature the St. Croix as part of the heritage stamp folder.	Human Heritage

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Waterway Heritage Brochure produced	01/06/1992	01/06/1992	Printed brochure highlighting historical and cultural significance of events along the waterway was printed and distributed.	Human Heritage
Downeast Heritage Facility Development	04/06/1997	01/01/2003	The Downeast Heritage facility in Calais, ME was developed and built.	Human Heritage
National Historic Places addition	04/01/2001	04/01/2001	The Grace Episcopal Church in Robbinston, ME is added to the National Historic Places registry.	Human Heritage
St. Croix featured on Discovery Channel	11/01/2001	11/01/2001	The Discovery Channel's feature of the St. Croix resulted in distribution of video copies in local libraries.	Human Heritage
Downeast Heritage Museum	01/01/2004	01/01/2004	The Downeast Heritage Museum opens, showcasing the natural and cultural heritage of the region.	Human Heritage
National Historic Site and District-St. Andrews	01/01/2004	01/01/2004	National Historic Site and National Historic District plaques are placed in St. Andrews, NB.	Human Heritage
Vanceboro Historical Society formed	06/01/2000	06/01/2000	The Vanceboro, ME Historical Society is the fourth such society formed on the St. Croix Waterway.	Human Heritage
Passamaquoddy Learning Program	02/02/2006	02/02/2006	Passamaquoddy elders and the National Park Service (US) work together to produce the Passamaquoddy learning program.	Human Heritage
St. Croix Island archeological dig	05/06/2003	05/06/2003	The US National Parks Service conducts new digs on St. Croix Island, revealing new data and interpretive information.	Human Heritage

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St. Croix Island, Maine: History, Archaeology, and Interpretation	01/06/2012	01/06/2012	The Maine Archaeological Society publishes a new research collection on St. Croix Island.	Human Heritage
International Festival	24/06/1991	21/07/2014	The International Festival in St. Stephen and Calais is a celebration of the links and bonds between these communities.	Human Heritage
CHRS 20 year report published	29/10/2012	29/10/2012	The SCIWC and CHRS publish a 20 year report on the St. Croix watershed.	Human Heritage
Cotton Mill Works Monument erected	30/04/2007	30/04/2007	Memorial statue erected in Milltown commorating workers at Canada's second largest cotton mill, from 1882-1957.	Human Heritage
Passamaquoddy Dictionary released	30/04/2008	30/04/2008	The Passamaquoddy release a dictionary.	Human Heritage
Passamaquoddy Tribal History DVD released	30/04/2006	30/04/2006		Human Heritage
Passamaquoddy place names DVD released	30/04/2004	30/04/2004	Interactive DVD of place names in the St. Croix region is released by the Passamaquoddy tribe.	Human Heritage
McAdam Railway Museum restoration	01/05/2006	01/05/2014	The McAdam Railway Museum continues to restore the Station and offer interpretive tours.	Human Heritage
Downeast Heritage Museum closes	15/02/2008	15/02/2008		Human Heritage
Calais updates plan	01/01/2005	01/01/2005	Calais updates their comprehensive management plan.	International Heritage Waterway
Waterway logo created	01/02/1990	01/02/1990	The star/maple logo of the St. Croix Waterway was adopted.	International Heritage Waterway
Waterway Heritage Brochure	01/02/1995	31/12/2012	A waterway heritage brochure was developed and made available to the public.	International Heritage Waterway

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Waterway Honour Roll	01/01/1996	01/01/1998	The SCIWC established an honour roll to recognize individuals and organizations that have contributed to preserving the history and heritage of the St. Croix River.	International Heritage Waterway
Calais adopts comprehensive plan	01/01/1992	01/01/1992	The City of Calais adopts a comprehensive waterway plan in line with the SCIWC plan.	International Heritage Waterway
Baileyville adopts plan	01/01/2005	01/01/2005	Baileyville council adopts comprehensive management plan.	International Heritage Waterway
Robbinston adopts plan	01/01/1996	01/01/1996	Enter story info here	International Heritage Waterway
Orient adopts comprehensive plan	01/01/2006	01/01/2006		International Heritage Waterway
Weston adopts plan	01/01/2006	01/01/2006		International Heritage Waterway
NB St. Croix Corridor Zoning	30/06/1995	30/06/1995	The Province of New Brunswick implements a rural planning statement and zoning corridor to limit development in the St. Croix watershed.	International Heritage Waterway
Waterway maps produced	01/09/1990	01/09/1990	The first waterway based maps spanning both Maine and NB were produced.	International Heritage Waterway
Estuary Inventory completed	31/12/1995	31/12/1995	The St. Croix Estuary Project completed a resource inventory for the estuary.	International Heritage Waterway
Spednic Protected Natural Area created	12/03/2001	12/03/2005	NB establishes its second largest PNA bordering Spednic Lake.	Natural Heritage
St. Croix Park Study completed	05/06/1996	05/06/1996	New Brunswick completed a study of the St. Croix and identified potential interpretive opportunities.	Natural Heritage

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Bayside Quarry	01/06/1990	01/06/1990	Concerns about the visual impact of the Bayside quarry are stressed.	Natural Heritage
Calais shore park and walkways created	03/06/1992	06/01/2005	The city of Calais, ME worked to create a walkway on an old railway line and opened a shorefront park.	Natural Heritage
St. Stephen shorefront walkway	06/06/1991	02/06/2005	The town of St. Stephen, NB creates a shorefront walkway and develops waterside parks.	Natural Heritage
Million Dollar View lookout created	05/07/2001	05/07/2001	The Million Dollar View lookout, which provides views from Spednic and East Grand Lakes to Mt. Katahdin, is opened in Weston, ME.	Natural Heritage
Creation of Ganong Nature Park	02/07/2002	02/07/2002	The St. Croix Estuary Project, Ganong family, and many other partners work to establish the Ganong Nature and Marine Park at Todd's Point, NB.	Natural Heritage
Devil's Head Conservation Area created	01/07/2004	01/07/2004	The SCIWC, City of Calais, and many other partners collaborate to open the 315-acre conservation area at Devil's Head, ME.	Natural Heritage
Raising local concerns to LNG development	01/07/2006	01/07/2014	Visual concerns related to development of LNG terminals in the St. Croix Estuary are raised and communicated to appropriate agencies.	Natural Heritage
New dragonfly species identified	01/07/1995	01/07/1995	A researcher identifies a new species of dragonfly never seen outside of the St. Croix watershed.	Natural Heritage
Grassy Islands Ecological Reserve created	01/07/1994	01/07/1994	The NB Department of Natural Resources designates the Grassy Islands as an ecological preserve.	Natural Heritage

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Bald Eagle contaminants study	01/07/2004	01/07/2005	The state of Maine studies the bald eagle population of the St. Croix to learn more about the effects of contaminants on these endangered birds.	Natural Heritage
Maine protects shoreline	01/07/1993	01/07/2003	The state of Maine protects 76 miles of shore and 1400 acres of land within the St. Croix watershed through purchases and easements.	Natural Heritage
NB protects shoreline	01/07/1995	01/07/2003	The province of NB protects 197 km of shore and 264 square kilometres of land through zoning changes, purchases, and designation as Protected Natural Areas.	Natural Heritage
Clark Point Nature Preserve created	01/07/2001	01/07/2001	Private landowner and the NB Nature Trust protect the property at Clark Point as a Nature Preserve.	Natural Heritage
Gleason Point Conservation Easement	01/07/2006	01/07/2006	The NB Nature Trust and a private landowner protect the land at Gleason Point, NB under conservation easement.	Natural Heritage
Recreational use assessment	01/07/1998	01/07/1999	Recreational use of the St. Croix was studied to improve management practices.	Natural Heritage
Islands added to Spednic PNA	12/03/2007	12/03/2007		Natural Heritage
Scott Brook and Gravel Island Provincial Parks established	12/03/2010	12/03/2010		Natural Heritage
East Grand Conservation initiative begins	12/03/2011	12/03/2011	US conservation group aims to conserve 12,000 acres of land in the East Grand Lake area.	Natural Heritage
NB adopts water classification plan	12/03/2002	12/03/2002		Natural Heritage
Bayside Rural Plan adopted	12/03/2009	12/03/2009	Adoption of this plan stopped proposed expansion of Bayside Quarry.	Natural Heritage

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Alewife fish passage restored	30/04/2013	30/04/2013	Maine legislature passes emergency bill to reopen the St. Croix to alewife passage.	Natural Heritage
Huntsman Marine Aquarium opens	30/04/2011	30/04/2011		Natural Heritage
Real-time flow data online	01/07/2005	01/07/2014	The USGS provides real-time data from gauges at Vanceboro and Baring, ME.	Recreational Heritage
ResSIM watershed model developed	01/07/2005	01/07/2006	This model was developed by the IJC to assist in water flow planning for recreation.	Recreational Heritage
Recreation management study completed	01/07/1996	01/07/1997	The SCIWC and many local partners conduct a study on best management options for recreation on the St. Croix.	Recreational Heritage
Backcountry site maintenance	01/07/1988	01/07/1992	The NB Department of Natural Resources maintained backcountry facilities on the St. Croix.	Recreational Heritage
SCIWC maintains ME campsites	01/07/1995	01/07/2003	Backcountry campsites in Maine on the St. Croix are maintained by the SCIWC.	Recreational Heritage
NB Recreation program established	01/07/1993	01/07/1993	The province of NB establishes a formal program for maintaining the St. Croix's backcountry facilities.	Recreational Heritage
ME and NB joint recreation management begins	01/07/2004	01/07/2004	The SCIWC is contracted by NB and ME to formally maintain river campsite facilities along the St. Croix.	Recreational Heritage
Initial Access Inventory	01/07/1991	01/07/1991	The SCIWC completes a public access inventory for the waterway.	Recreational Heritage
St. Andrews Shore Access Program	01/07/2006	01/07/2006	The town of St. Andrews, NB initiates the shore access program.	Recreational Heritage

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Protection of public access	01/07/1992	01/07/2014	Organizations such as the SCIWC, the Woodie Wheaton Land Trust, and government agencies work to protect and create public access points to the waterway.	Recreational Heritage
Transboundary fishing regulation brochure	01/07/1995	01/07/1997	The SCIWC produced and distributed a fishing regulation brochure for the waterway.	Recreational Heritage
Water levels messages	01/07/2002	01/07/2013	Woodland Pulp LLC begins providing recorded telephone information for the general public on water levels and flows.	Recreational Heritage
Waterway Recreation Map created	01/07/2004	01/07/2004	The SCIWC begins production and distribution of recreation maps for the St. Croix.	Recreational Heritage
Updated Waterway Map produced	01/07/2010	01/07/2010	The SCIWC produced an updated version of its recreation map for distribution and sale.	Recreational Heritage
Uniform boat access signage	01/07/1996	01/07/1996	Maine and NB use the same signage for boat access on the St. Croix.	Recreational Heritage
Uniform campsite signage implemented	01/07/2003	01/07/2003	The SCIWC creates uniform signage for all campsites on the St. Croix.	Recreational Heritage
IJC waterflow study	01/07/1994	01/07/1996	The International Joint Commission and many partners work together to complete a water flow study.	Recreational Heritage
New Management of water levels	01/07/1994	01/07/1996	The IJC's study is used to identify water use conflicts. Partners and users begin working together to reduce conflicts.	Recreational Heritage

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St. Croix Water Forum	01/07/2005	01/07/2011	The Forum was created to provide a public venue to identify and discuss water use issues.	Recreational Heritage
Fish Habitat Assessments	01/07/1994	01/07/1997	Habitat assessments carried out on the lakes and rivers.	Recreational Heritage
Fish Stock assessments and creel surveys	01/07/1991	01/07/2014	Agencies in Maine and NB regularly assess fish stocks within the lakes.	Recreational Heritage
collaborative fish stock regulation	01/07/1991	01/07/2014	NB and Maine work together to coordinate fish stock regulation within the waterway.	Recreational Heritage
Smallmouth bass stock assessments	01/07/1990	01/07/2014		Recreational Heritage
Smallmouth bass stocking	01/07/1990	01/07/1990	US agencies conduct stocking of smallmouth bass in the lakes that form the headwaters of the St. Croix.	Recreational Heritage
Atlantic Salmon stock assessments	01/07/1982	01/07/2006		Recreational Heritage
Atlantic Salmon stocking	01/07/1993	01/07/2006	Numerous agencies and the SCIWC worked together on juvenile and adult stocking programs on the St. Croix.	Recreational Heritage
Native Salmon development program	01/07/1993	01/07/2006	SCIWC and Department of Fisheries and Oceans work on re-establishing a native Atlantic salmon population in the St. Croix.	Recreational Heritage
St. Croix Fisheries Steering committee	01/07/1982	01/07/2014	Inter-agency, international steering committee meets to coordinate fisheries planning.	Recreational Heritage
Fish passage improvements	01/07/1992	01/07/1992	Fish passages at Grand Falls dam and Woodland dam are improved.	Recreational Heritage
Fish Passage assessment	30/08/2013	30/08/2013	Fish passages at all dams on the St. Croix are assessed.	Recreational Heritage

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Fish Friends school program	30/08/1995	30/08/2014	The Atlantic Salmon Federation and local partners deliver this educational program in local schools.	Recreational Heritage
Recreational Fisheries Development program	30/08/1993	30/08/1995	Interagency program to help develop and promote the local recreational fishery.	Recreational Heritage
River canoeing survey	30/08/1991	30/08/1991	Users of the river were surveyed to inform recreation management.	Recreational Heritage
Agency and outfitter needs assessment	30/08/1992	30/08/1992	Recreational needs assessment for agencies and outfitters is conducted to inform planning.	Recreational Heritage
Recreational Use assessment	15/05/2014	15/09/2014	An updated recreational user survey will be conducted to inform recreation management.	Recreational Heritage
Upper St. Croix/Spednic management plan	15/11/2012	15/11/2012	The Maine Department of Conservation releases a new recreation management plan.	Recreational Heritage
Dam management for recreational use	15/05/1994	15/05/1994	Dam managers begin managing flows to meet recreational needs.	Recreational Heritage
NB Recreation Campsite program begins	15/05/1993	15/05/1993	41 sites and access points in NB are managed by the SCIWC for recreation.	Recreational Heritage
Boat access improvements begin	15/05/1991	15/05/1991		Recreational Heritage
Kayaking and water tourism in Estuary	15/05/1994	15/05/1994	The tourism industry begins to develop in the estuary.	Recreational Heritage
Maine river sites	15/05/2003	15/05/2003	11 Sites on the St. Croix River in Maine are added to the Recreation management program.	Recreational Heritage
Calais installs floating dock	15/05/2006	15/05/2006	The city of Calais installs a floating dock at its wharf and stabilizes the river bank.	Recreational Heritage
St. Stephen wharf repairs	15/07/2013	15/07/2013	The town of St. Stephen conducts repairs to wharf.	Recreational Heritage

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low-impact camping signs	15/07/2013	15/07/2013	The SCIWC recreation staff adds signs and public education efforts to create awareness of low-impact camping methods.	Recreational Heritage
SCIWC partners with Leave No Trace	15/05/2014	15/05/2014	The SCIWC partners with Leave No Trace to promote low-impact camping.	Recreational Heritage
East Coast Greenway events	15/05/2000	15/05/2001	Border events were conducted in partnership with the East Coast Greenway and the Trans Canada Trail.	Recreational Heritage
International FDR trail feasibility study	15/05/2006	15/05/2006		Recreational Heritage
NB Water Classification consultations	06/06/2004	06/06/2004	Public consultations on the proposed NB water classification changes.	Recreational Heritage
One country camping rules come into effect	01/06/2009	01/06/2009	After September 11, 2001, border policies in the US and Canada are changed and recreational users of the St. Croix are required to camp in one country only.	Recreational Heritage
Canada changes Marine Reporting Requirements	01/06/2011	01/06/2011	Canada introduces new boundary water legislation under the Customs Act that are virtually impossible to comply with on the St. Croix.	Recreational Heritage
SCIWC assumes operation of Spednic Lake Provincial Park	01/05/2003	01/05/2003	The SCIWC takes over maintenance and operation of Spednic Lake Provincial Park to avoid closure.	Recreational Heritage
Upgrades to Scott Brook and Gravel Island	01/05/2014	01/05/2014	Upgrades to boat launch and campsite facilities at Scott Brook and Gravel Island are planned.	Recreational Heritage
New online campsite reservation system established	15/04/2013	15/04/2013	The SCIWC moves to an online reservation system to improve campsite administration at its three provincial parks.	Recreational Heritage

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NB Passes SCIWC Act	27/06/1987	15/10/2013	The Province of New Brunswick passes the St. Croix International Waterway Act.	Waterway Management
MoU gives birth to SCIWC	17/11/1986	17/11/1986	The Governor of Maine and Premier of NB agreed to the general principles of a joint commission to oversee management of the St. Croix waterway.	Waterway Management
State of Maine St. Croix International Waterway Commission Act	26/06/1987	26/06/1987	"An Act Creating the St. Croix International Waterway Commission" is approved by the Governor of Maine.	Waterway Management
Management Plan adopted	01/10/1993	01/10/1993	The long-term management plan "St Croix International Waterway: A Heritage-A Future" is formally adopted.	Waterway Management
IJC public meetings	06/06/2013	06/06/2013	The International Joint Commission hosts annual meetings in the watershed to discuss transboundary water issues.	Waterway Management
Newsletters distributed	06/06/1991	06/06/2007	International distribution of reports and newsletters on St. Croix issues.	Waterway Management
International Water Management Workshop	06/06/1997	06/06/1997	The IJC sponsored and held a workshop on water management.	Waterway Management
St Croix Fisheries Workshop	06/06/1995	06/06/1995		Waterway Management
St. Croix Fisheries Workshop 2	06/06/2000	06/06/2000	Enter story info here	Waterway Management
St. Croix Fisheries Workshop 3	06/06/2001	06/06/2001		Waterway Management
State of the St. Croix Ecosystem workshop	06/06/2002	06/06/2002	The IJC held an international workshop on ecosystem issues in the St. Croix.	Waterway Management
Watershed contacts database created	06/06/2005	06/06/2005		Waterway Management

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International library and materials database established	06/06/1991	06/06/2014	The SCIWC maintains a library of paper and online resources related to the St. Croix.	Waterway Management
IJC state of the St Croix watershed report released	06/06/2008	06/06/2008		Waterway Management
Chiputneticook Lakes International Conservancy founded	06/06/1992	06/06/1992		Waterway Management
St. Croix Estuary Project formed	06/06/1992	06/06/1992	Environment Canada, SCIWC, local partners	Waterway Management
Conservation Area working group	29/10/1996	29/10/1997	Interagency group established to discuss conservation issues and establish conservation areas.	Waterway Management
SCIWC funding changes	29/10/1997	29/10/1997	The state of Maine and Province of NB reduce annual funding amounts for the SCIWC.	Waterway Management
First Management Plan review	29/10/2007	29/10/2007	The first review of the SCIWC's management plan is begun, but not completed.	Waterway Management
St. Croix International Science Forum	15/10/2014	15/10/2014	International researchers will come together to discuss and share findings with each other and the public.	Waterway Management
Management plan update	15/05/2014	15/10/2014	The SCIWC will complete a formal update of its international management plan.	Waterway Management
Progress report on management plan goals	31/03/2014	31/03/2014	The SCIWC completes a report on progress made toward its management plan goals to date.	Waterway Management
SCEP completes climate change vulnerability assessments	31/03/2014	31/03/2014	St. Andrews and St. Stephen complete community vulnerability assessments.	Waterway Management
Changing Borders conference	01/06/2007	01/06/2007	A conference was held to discuss challenges facing cross border communities since 2001.	Waterway Management

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Western Hemisphere Travel Initiative comes into effect	01/06/2009	01/06/2009	Passports are required to cross the border; new gates and crossing enforcements put in place, severely affecting border community culture and economics.	Waterway Management
SCIWC launches new website	15/02/2013	15/02/2013	The SCIWC launches an updated website with expanded information about the waterway.	Waterway Management
St. Stephen adopts new municipal plan	15/02/2011	15/02/2011	New municipal plan adopted that contains management provisions from the 1993 St. Croix international management plan.	Waterway Management
SCIWC completes 3 year strategic plan	30/04/2014	30/04/2014	The SCIWC develops a 3 year plan to help achieve organizational goals as well as management plan goals.	Waterway Management