1987-2007 Status Report



20 years of partnership to promote waterfowl and biodiversity





Message from the Eastern Habitat Joint Venture, Québec Region Steering Committee

We are very proud to present the status report covering the Eastern Habitat Joint Venture, Québec Region's first twenty years. This program, an offshoot of the North American Waterfowl Management Plan, is designed to protect and enhance waterfowl habitats—no mean feat given the vast tracts involved and wetland distribution in Québec. Both St. Lawrence lowland wetlands and small wetlands located throughout Québec are subject to pressure. Although the task of protecting them is daunting, this status report shows that pooling the expertise and resources of the Plan's partners has had remarkable results.

Those benefiting most from these years of efforts are wetland-dependant species: ducks, geese, Canada geese and the many plant and animal species that make these environments so rich. Secondary beneficiaries are hunters, fishermen, trappers, wildlife observers, naturalists and hikers who visit and admire these wetlands.

We would like to take this opportunity to reiterate our thanks to the organizations and landowners who cooperated on one or more of the many projects carried out over these twenty years.

Thank-you to all of our partners.

AbitibiBowater

Agence régionale de mise en valeur des forêts privées de la Chaudière

Agence régionale de mise en valeur des forêts privées du Bas-Saint-Laurent

Agriculture Canada

AGTF-Bas-Saguenay-Charlevoix

ALCOA (formerly Aluminerie Lauralco)

Association des sauvaginiers de la grande région de Québec

Association des sauvaginiers de la Rive-Nord

Association des sauvaginiers du Lac-Saint-Pierre Association des sauvaginiers du

Saguenay-Lac-Saint-Jean

Association minière du Québec

Association pour la protection de l'environnement

du lac Saint-Charles (APEL) Bas-Saint-Laurent Model Forest Canadian Boreal Initiative

Canadian Coast Guard Centre de recherche et d'éducation relative

à l'environnement régional Centre d'études de la forêt

Centre d'interprétation de Baie-du-Febvre Centre d'interprétation et de réhabilitation de

Saint-Fulgence Centre guébécois du droit de l'Environnement

Comité de citoyens de Pointe-Fortune

Comité du marais de Kingsbury

Congrégation des Sœurs de la Charité de

Montréal (Sœurs Grises)

Conseil de bassin de la rivière Rimouski Conseil de bassin de la rivière Saint-Charles Conseil de recherches en sciences naturelles

et en génie du Canada

Conseil régional de l'environnement Chaudière-

Conseil régional de l'environnement – Région de la Capitale-Nationale

Corporation d'aménagement et de protection de la Sainte-Anne

Corporation de gestion CHARMES

Corporation de gestion du Petit marais de Saint-Gédéon

Corporation de la Commune de l'île Dupas

Éco-Nature de Laval

Fédération guébécoise des chasseurs et pêcheurs du Québec

Fisheries and Oceans Canada

Fondation EJLB

Fondation Héritage Faune

Fondation Hydro-Québec pour l'environnement

Fondation PEW

Fondation québécoise pour la protection du patri-

moine naturel

Fonds d'action québécois pour le développement

durable

Foresterie Saint-Donat

Gestion communautaire Guérin Groupement forestier Beauce Sud Groupement forestier Baie-des-Chaleurs

Groupement forestier du Pontiac

Groupement forestier et agricole de Beauce Sud inc.

Habitat Stewardship Program for Species at Risk Héritage Saint-Bernard

Horizon multiressources inc.

Hydro-Québec Industries James Maclaren

Institut de recherche et de développement agroali-

mentaire

Intertape Polymer Group

Les amis de la Grande plée Bleue

Minéraux Noranda

Ministère de l'Agriculture, des Pêcheries et de l'Alimentation du Québec

Ministère du Développement durable, de l'Environnement et des Parcs (MDDEP)

MRC de Charlevoix MRC du Haut-Richelieu

Municipalité de Baie-du-Febvre Municipalité de Pointe-aux-Trembles Municipalité de Saint-Fulgence

Municipalité de Saint-Gédéon Nature Action de Boucherville

Option Verte

Romano family

Société d'aménagement de la Baie Lavallière (SABL) Société d'aménagement et de protection de l'île aux

Société d'aménagement récréatif pour la conservation de l'environnement du lac Saint-Pierre

(SARCEL)

Société de conservation, d'interprétation et de

recherche de Berthier et ses îles (SCIRBI) Société de conservation de la baie de l'Isle-Verte

Société de conservation de Saint-Barthélemy

et Saint-Joseph-de-Maskinongé (SCOBAJM)

Société de mise en valeur de la Commune de Baie-

du-Febvre (SOMICO)

Société des traversiers du Québec

Société Duvetnor

Société Provancher d'histoire naturelle du Canada

Société sylvicole de la Haute-Gatineau

Université de Sherbrooke

Université du Québec à Montréal Université du Québec à Trois-Rivières

Université du Québec en Abitibi-Témiscamingue

Université Laval Ville de Beaconsfield

Ville de Boucherville

Ville de Châteauguay

Ville de Lérv

Ville de Maple Grove Ville de Montréal

Ville de Sherbrooke

Ville de Terrebonne

All private landowners who have been involved

directly or indirectly in PLAN activities. The following US organizations: Vermont Fish and Wildlife Department

New Jersey Division of Wildlife Georgia Wildlife Resources Division

New York Department of Environmental Conservation

West Virginia Division of Natural Resources

Pennsylvania Game Commission

20 years of partnership in Québec

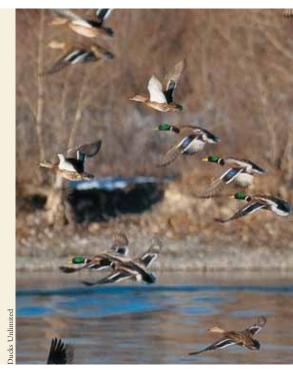
PLAN and EHJV origins and objectives

The North American Waterfowl Management Plan (Plan) was born of a Canada-US agreement signed in 1986 and extended to Mexico in 1994. Aimed at protecting and ensuring the increase of waterfowl populations, it is founded on the principle of joint ventures implemented on a geographic scale. One of these ventures, the Eastern Habitat Joint Venture (EHJV), targets the protection of waterfowl habitats and covers Canada's six eastern provinces, including Québec.

The EHIV has enabled synergy between the resources and knowledge of various organizations with expertise in waterfowl and wetland protection. In Québec, the partners are: Ministère des Ressources naturelles et de la Faune, Fondation de la faune du Québec (FFQ), Environment Canada/Canadian Wildlife Service (CWS), Ducks Unlimited Canada (DUC) and Wildlife Habitat Canada (WHC). In 2003, the Nature Conservancy of Canada (NCC) joined through its Québec division. Many other organizations and private landowners have also cooperated on specific projects. Over these past 20 years, action has been directed primarily at protecting and restoring wetland habitats bordering the St. Lawrence, Ottawa and Saguenay rivers and the Abitibi lowlands.

Efforts have paid off...

Over 20 years, almost one hundred organizations have helped carry out more than 130 projects. This status report for Québec re ects the wide range of intervention and each partner's contribution. By citing certain projects, it illustrates the protection, stewardship, enhancement, research, assessment, recreational and educational development activities marking this period. It also re ects the ongoing concern for helping to safeguard biodiversity while focussing on waterfowl habitats. Over these two decades, growing efforts have been devoted to protecting other wetland resources such as non-game birds, fish, amphibians, reptiles and rare plants.







Marais Antoine, Abitibi



Located in the municipality of Roquemaure, at the mouth of Rivière Antoine, Marais Antoine is one of Abitibi's loveliest marshes. Covering 284 hectares, its waterfowl productivity declined considerably following the construction of a power dam on Lac Abitibi.

A well-integrated project

The protection and restoration project, carried out in 1995, entailed negotiations with 54 landowners. Conservation agreements were signed to ensure long-term protection of 525 hectares of wetlands and associated uplands inhabited by bird species. Development of a water level control structure and fishway made it possible to recreate conditions that are favourable for birds and fish. A walleye spawning ground was created and a small-craft crossing facilitates access to the marsh.

A regional resource

More than 130 bird species have been inventoried in the marsh, including the yellow rail, which is likely to be designated

threatened or vulnerable, and the sandhill crane, which sometimes breeds there. Reproduction and feeding conditions for northern pike, yellow perch, goldeye and burbot have also improved.

A popular observation site

An interpretation trail was built with the help of the municipality of Roquemaure and its development assistance committee thanks to a Conseil régional de développement de l'Abitibi-Témiscamingue subsidy. The trail helps to better promote this environment's great wealth.

Marais de la rivière des Outaouais



The Ottawa River between Gatineau and Carillon is especially popular among migratory birds. It is dotted with bays and wetlands where thousands of Canada geese and ducks gather during their migrations. It is one of Québec's best-known waterfowl breeding grounds. In the early 1970s, this land caught the attention of public and private organizations interested in preserving it.

A wetland complex to protect

The Fondation de la faune's and Ducks Unlimited's acquisitions and the conservation agreements signed by Ducks Unlimited have made it possible to protect one of the loveliest wetlands. Water level control structures maintain levels conducive to wildlife. The protection of adjacent uplands and the development of agricultural management plans have made considerable improvements to duck nesting grounds and Canada geese migratory stopover feeding

grounds. The list of projects carried out is impressive: Marais de Thurso, Baie McLaurin, Marais aux Massettes, Marais des Laîches, Marais aux Grenouillettes, Ruisseau Trépanier, Baie Clément, Marais de Templeton,

A joint action plan

An action plan for the protection and enhancement of the Ottawa River's wetlands was launched in 1999. All four plan components have been carried out: protection of additional land through acquisitions and conservation agreements, enhancement and restoration of numerous wetlands, implementation of an agricultural management plan that is compatible with wildlife, and creation of access by land and water for waterfowl hunting and other outdoor activities. More than \$2.2 million were invested in these projects.





Refuge faunique Marguerited'Youville, Montérégie



A protection agreement

Coveted by real estate promoters, the island's wildlife vocation was jeopardized. To maintain it, in 1993, the Fondation de la faune signed a conservation agreement with the Sœurs de la Charité de Montréal and the Ville de Châteauguay to protect 223 hectares of wetlands.

species, 11 of which are at risk, have been located on these lands.

Héritage Saint-Bernard, a local organization responsible for developing trails and organizing educational activities has been mandated to oversee and enhance the site.

Water for birds and fish

Three sections of the oodplain were enhanced to maintain water in the summer and fall. Ducks Unlimited created conditions conducive to duck breeding and fish hatching over 104 hectares.

The uplands, characterized by hickorysugar maple forest and holm oak-swamp white oak forest, and marshy areas, colonized by cattails, sparganium and buttonbush, offer a complex of wetlands suitable for more than 210 bird species, 18 mammal species, 11 amphibian and reptile species and 25 fish species. More than 450 plant





Bernard since acquiring it. Located at the mouth of Rivière Châteauguay on the south shore of Lac Saint-Louis, this island features the largest intact floodplain in the Greater Montréal area. Especially during the spring thaw, the island's lower reaches attract the greatest number of bird and fish species. In the past, when the water withdrew in late spring, most species used to have to leave the area.

The Sœurs de la Charité de Montréal

(Sœurs grises) have protected Île Saint-



Tourbière du lac à la Tortue, Mauricie



A unique environment

Tourbière du Lac à la Tortue is the largest peatland in the St. Lawrence Valley and Lake Champlain ecoregion. This vast 6 633-ha complex includes marshes, shrubby wetlands, woody wetlands and peaty woodlands. It is home to many species likely to be designated threatened or vulnerable.

An ecological gift

In 2005 and 2006, Abitibi Consolidated Inc. donated 1 397 hectares of this peat bog to the Nature Conservancy of Canada (NCC). This area, which is now protected, was added to the 372 hectares already protected by CNC and the 671 hectares safeguarded by virtue of its ecological reserve status.

A nesting habitat

The importance of southern Québec's peat bogs for waterfowl was only recently demonstrated. Ducks, especially black duck, nest there and, although nesting density is low, reproductive success is generally high. Many of these peat bogs are threatened by harvesting activities, and conservation projects like the one at Tourbière du Lac à la Tortue help curb the loss of these valuable habitats.





Marais Réal-D.-Carbonneau, Estrie



Doomed to disappear

Marais Réal-D.-Carbonneau, formerly Saint-François, is one of Sherbrooke's rare wetlands. Covering 30 hectares, this marsh was severely affected by the construction of a boulevard. It gradually drained and its quality deteriorated for both waterfowl breeding and migratory stopovers.

Mobilizing stakeholders

In the early 1990s, the Corporation de gestion CHARMES approached Ducks Unlimited and the Ville de Sherbrooke to restore and protect this site. The latter two organizations signed a conservation agreement to this effect.

A healthier marsh

Ducks Unlimited set up water level control structures in 1997 to improve natural conditions for aquatic birds and many other marshland species.

An environment that is accessible to the public

With financial assistance from several partners, CHARMES developed the area to facilitate the public's contact with plant and animal species: pile-supported trails, lookouts and an observation tower. The organization offers educational activities to the public, especially school groups. ■





Marais Léon-Provancher, Capitale-Nationale



Duck-related development

Duck hunters' foresight is responsible for the development of one of the National Capital area's most popular waterfowl observation sites. As a result of their representations, 125 hectares was acquired under the EHJV by the Fondation de la faune and 19 hectares were developed by Ducks Unlimited. The creation of a marsh with a water level control structure provided aquatic birds with a high-quality breeding ground.

Successful enhancement

In 1996, EHJV partners gave the title deed to the Société Provancher d'histoire naturelle du Canada, which pledged to protect and enhance the area. The public can now access it free of charge. Introduction-to-waterfowl-hunting days for young people are organized by the Association des sauvaginiers de la grande région de Québec and educational activities for school groups are offered in conjunction with the Maison Léon-Provancher.

A very popular observation site

Its wide range of different aquatic birds makes the Marais Léon-Provancher a first-rate location for migratory observation. Its abundant plant life, amphibians, passerines and certain insect groups, such as odonata, make it a nature lover's paradise.





Battures de Saint-Fulgence, Saguenay-Lac-Saint-Jean



A unique environment

The Rivière Saguenay's shores are not generally very popular with aquatic birds, with the exception of the Battures de Saint-Fulgence, where a spit has promoted the creation of a tidal marsh. The meeting of the Saguenay's fresh and salt waters and the

prevailing sedimentation conditions have created a habitat sought by waterfowl and long renowned among birdwatchers seeking the yellow rail, Nelson's sharp-tailed sparrow and migrating Canada geese.

Now, a protected site

The creation of the Battures-de-Saint-Fulgence wildlife preserve, in 2006, was the culmination of many years of hard work and effective regional joint efforts to safeguard the area purchased by the Fondation de la faune and restored by Ducks Unlimited. Covering 290 hectares, the preserve includes an intertidal marsh and uplands conducive to nesting. Potentially harmful activities are now controlled and strictly supervised hunting is allowed.

Trails and observation stations

Access infrastructures, including trails and lookouts, have been set up to facilitate contact with more than 175 plant species and over 242 bird species. The Centre d'Interprétation des Battures et de Réhabilitation des Oiseaux de Saint-Fulgence now manages the territory, that was transfered to the municipality. The center organizes various activities such as Journée de la Bernache (Canada Goose Day), in May, when 6 000 to 9 000 Canada geese can be seen there.





L'Isle-Verte, Bas-Saint-Laurent



A large percentage of the salt marshes on L'Isle-Verte on the south shore of the St. Lawrence estuary lost their appeal for migratory birds after dikes and aboiteau were built there in former half of the 20th century. Much of the land recovered for agriculture was left fallow and acquired by the Canadian Wildlife Service in the 1970s for incorporation into the Baie de L'Isle-Verte National Wildlife Area.

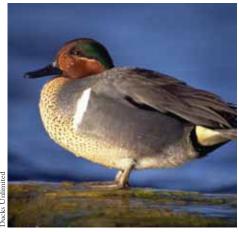
Returned to its original use

Ducks Unlimited enhanced this land on several occasions to return it to its original use, by priming furrows and ditches, creating permanent marshes, installing nesting vegetation cover and managing farming practices. An additional 114 hectares are now available for waterfowl in the sector.

A major black duck breeding ground

The black duck has benefited from this enhancement by recovering certain lost habitats. A number of other species, such as green-winged teal, blue-winged teal, mallard duck and black-crowned night heron use these wetlands. Management of the farming practices advocated by Ducks Unlimited has made it possible to limit crop damage by the greater snow goose, thereby lowering tensions between farmers and ornithologists.







Marais de la Baie au Chêne, Gaspésie



Remarquable for its biodiversity

The Baie au Chêne, also known as Marais Alexander, is an extraordinarily rich site. Covering 433 hectares, it is composed of a wetland complex crossed by the Rivière du Loup and many streams. A vast intertidal marsh, peat bog and many beaver ponds make it a popular site for migratory birds and mammals.

Finally, a protected environment

Considered one of eastern Québec's most beautiful wetlands. Baie au Chêne has been protected since 2006. The Gouvernement du Québec and Ducks Unlimited jointly acquired this land, with a financial contribution from the EHJV Foundation and the collaboration of the municipality of Pointe-à-la-Croix. Two threatened or vulnerable species benefited from this protection: Nelson's sharptailed sparrow and the hooded arrowhead, a plant found in only two Chaleur Bay estuaries, including that of Rivière du Loup.

A contribution to ecotourism

A 9-kilometer interpretation trail was developed by the municipality of Pointe-à-la-Croix to give local residents and seasonal visitors access to this rich environment.





Lac Saint-Pierre wetlands



With the one hundred islands forming its delta and its immense floodplains, the Lac Saint-Pierre wetland complex is definitely southern Québec's richest waterfowl habitat. Its international importance was recognized in 1998 when Lac Saint-Pierre was designated a Ramsar site under the Convention on Wetlands of International Importance. Its extensive grasslands, marshes dotted with small ponds, vast silver maple stands and floodplains offer conditions favourable for waterfowl and a large variety of fish, birds and amphibians. It is no accident that it is home to Québec's largest heronry.

Floodplain recovery projects for farming in the early 1980s were the rationale for protection, restoration and enhancement measures under the EHJV: Baie de Lavallière, Nicolet, Commune-de-Baie-du-Febvre, Baie-du-Febvre agricultural and wildlife complex, Baie Saint-François on the south shore of Lac Saint-Pierre; Saint-Barthélemy/Saint-Joseph-de-Maskinongé and Pointe-à-Caron (north shores) marshes; Île de Grâce, Île Dupas, Île du Moine, Île du Milieu and Île des Barques in the Îes de Berthier-Sorel. These projects involved various municipalities and local organizations.

Acquisitions and conservation agreements

On Lac Saint-Pierre's south shore, 1021 ha of wetlands have been protected with key projects being Baie-du-Febvre/Nicolet-Sud and the Commune de Baie-du-Febvre. On the north shore, acquisitions and conservation agreements cover 506 hectares, notably the Saint-Barthélemy/Saint-Joseph-de-Maskinongé projects, which were acquired by the Fondation de la Faune du Québec. On the Berthier/Sorel islands, large areas are protected, including Île Dupas, île du Moine and île de Grâce.

Restoration of degraded habitats

Among the significant enhancement work done by Ducks Unlimited are the construction of water level control structures, the installation of pumping units to manage water drawdown to meet wildlife and agricultural needs, the installation of fishways, crop management, and livestock confinement for shoreline protection. For each project, efforts were made to take the needs of each wetland-dependant species into account.

Spinoffs for communities

Intervention under the EHJV has helped make Lac Saint-Pierre one of the best-known sites for wildlife, hunting, fishing and observation. Many accesses were created, observation towers were installed and interpretation activities are offered. Their economic spinoffs now benefit the shore-line communities.









Monitoring and assessment



Research conducted under the EHJV's Monitoring and assessment component has resulted in new integrated development approaches and made it possible to pinpoint the areas offering the greatest waterfowl potential. The following are examples of the work carried out.

Wetland distribution

Inventorying waterfowl during breeding provided information on the density of nesting couples in the St. Lawrence lowlands, Abitibi and Lac Saint-Jean. A model developed to predict this density made it possible to map Québec's potential habitats and target the most promising sectors for intervention.

Forest potential

A study was conducted in the forest environment on the impact of clearcutting on habitat use by waterfowl. More than 32 000 observations of nesting couples were analyzed for seven main types of wetlands and aquatic environments and six types of shoreline environments. Data revealed the importance of small bodies of water and streams for waterfowl breeding. The local,

short-term impact (approximately 4 years) of logging on duck populations nesting in tree cavities and ground-nesting species was also assessed. No negative effect was detected for cavity-nesting species, while there seems to be a positive impact on Canada goose and green-winged teal, two ground-nesting species. This study supported the hypothesis that waterfowl species are resilient to a certain level of disturbance caused by forest operations in Québec.

Forest aquatic and riparian wetland enhancement plans were developed for areas located in the Saguenay, Forêt Montmorency, Charlevoix and Mauricie. These plans are based on detailed wetland mapping and a three-tiered zoning approach: conservation, intensive use and ecosystem approach.

Nesting and farming practices

Inventories conducted on the Îles de Varennes from 1992 to 1994 to assess the impact of pasture management and seeding dense vegetation cover on ground-nesting ducks and passerines resulted in pasture management projects on certain islands.

Nesting and breeding habitats were also characterized in the Rivière Boyer basin to understand the constraints facing waterfowl in the farm environment and find means of increasing reproductive success. Farm ponds and shoreline strips were shown to be important and recommendations were made for their enhancement.

Biodiversity inventories

In all new waterfowl habitat conservation and restoration projects, special attention is given to inventorying threatened species and species other than waterfowl to allow their needs to be better integrated into the development of restoration projects.

Water management for fish

The marshes enhanced along the St. Lawrence are inhabited by 37 fish species and are very productive spawning and hatching sites for the yellow perch in particular. Research conducted under the EHJV has resulted in better water management and a significant increase of this environment's production. By prolonging the spring ood period, water warming is accelerated, water levels promoting access to the best spawning sites are ensured and drying out of eggs and larvae is prevented. Partial draining in June has permitted evacuating fry and some early adult spawners. Complete draining in the fall ensures close-to-full evacuation. This is followed by filling through fall precipitation and the water table, thereby allowing muskrat to settle here for the winter and enabling waterfowl hunters to benefit from the marsh.

On Île du Moine, these enhancements have shown that the production of pumpkinseed and brown bullhead is among Québec's highest. In the fall, fish exit rates of approximately 96% have been observed.



Promotion and education



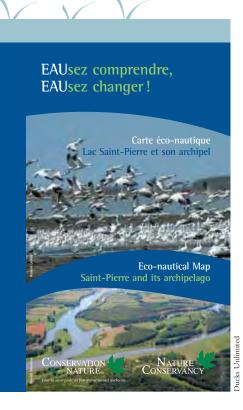
Education of young hunters at Marais Léon-Provancher

Through the Jounées de la relève des chasseurs de sauvagine (Quebec's equivalent to the Youth Waterfowl Hunting Days) which is organized by waterfowl association mem-

bers of the Fédération québécoise des chasseurs et pêcheurs, an educational program for young waterfowl hunters was set up by the Association des sauvaginiers de la grande région de Québec (ASGRQ) and EHJV partners. Youngsters aged 12 to 17 receive annual training in good hunting practices and waterfowl habitat conservation. DU distributes them at no cost a kit of educational materials that includes "A young hunter's Guide to Waterfowling and Conservation". After successfully completing their training, young hunters enjoy their first day of hunting with a volunteer monitor in Marais Léon-Provancher. We anticipate that over the next five years, it's more than 1,000 young people who would benefit from the educational package and training through the Journées de la relève au Québec.

Recreational and educational promotion plans

The majority of land acquired under the EHJV, and whose management has been delegated, is subject to recreational and educational promotion plans prepared to harmoniously implement activities for the public, i.e. migratory bird observation, hiking and controlled hunting, while safeguarding environmental integrity. On several sites, reception stations and observation platforms have been built and trails facilitate better contact with the natural environment. Conditions permitting, bike paths and nautical trails have been created.



EAUsez comprendre, EAUsez changer awareness campaign

In 2006, Conservation de la Nature and Comité ZIP du lac Saint-Pierre lauched an extensive campaign to make Lac Saint-Pierre users aware of wetland protection. Yachters especially were targeted. An econautical chart was drawn and distributed to 4 627 people. Agents working on the awareness project met with 1 694 yachters. Information signs were posted in 11 strategically located sites on both the north and south shores.

Activity days were offered in conjunction with the Centre d'interprétation du patrimoine de Sorel to young day camp partici-

pants in Sorel-Tracy. By coming into close contact with wetlands, they were able to observe their main components and become aware of the main problems linked to their conservation.



Outlook for the coming years

The acquisition of wetlands of key importance for waterfowl will continue, completing projects that are under way and protecting new areas targeted by ecoregional planning.

Habitat enhancement will be directed primarily at restoring past enhancements. Some water level control structures are more than 20 years old and require upgrading. Each structure's design will be reviewed to make it more productive for

waterfowl and better integrate the needs of other species, especially fish. ■



A current project: Ruisseau de Feu



The Ruisseau de Feu wetlands comprise floodable tracts, the majority of which have been transformed over the years by farming, notably corn growing. Until very recently, a major residential and commercial development project threatened part of this floodplain. Despite the wildlife constraints this area presents in its current state, it has high ecological potential.

An integrated development approach

After many years of studies and negotiations, an agreement was signed in February 2007 between project partners: the ministère des Ressources naturelles et de la Faune (MRNF), the ministère du Développement durable, de l'Environnement et des Parcs (MDDEP), the Ville de Terrebonne, a real estate promoter and Ducks Unlimited (DU). This is the key project in the Greater Montréal area, integrating residential development and environmental conservation. The promoters of this vast housing project ceded 52 hectares to protect wetlands and Ducks Unlimited received a major ecological gift from the Romano family, which owns a portion of these lands.

Necessary restoration

Restoration projects spanning more than 100 hectares involve improving fish habitats. This component will be carried out by softening the profile of the Ruisseau de

Feu's shores and building three fish migration routes. Installing a pumping station, creating a marsh and planting 25 000 trees will promote waterfowl breeding and migratory stopovers. DU, MRNF, Fondation Hydro-Québec pour l'Environnement and Ville de Terrebonne will invest more than \$1.5 million in this project from 2007 to 2010. This restoration will promote more abundant, diversified wildlife and plant life and benefit observers, hikers and fishermen. A conservation plan will be implemented to maintain the site.





Baie de Lavallière restoration



Baie de Lavallière is a huge 900-hectare wetland complex located on the St. Lawrence's south shore near the mouth of Rivière Yamaska. Protected since its acquisition in the 1970s, it has been targeted by various phases of enhancement—the main one being the implementation of a water level control structure in 1988.

Accelerated aging

Studies conducted in 2006 documented the ecosystem's accelerated aging. Gradual occlusion of vegetation and raised canal beds, due to sediment deposits from farmlands located upstream, have resulted in less favourable conditions for waterfowl and fish. Barely 10% of the marsh is now considered of good quality for aquatic birds. Conditions conducive to the growth of invasive plants like the common reed exist there, jeopardizing the other species that are characteristic of this environment.

A new development concept

Ducks Unlimited and the MRNF are working on a new development concept to restore this key waterfowl and fish habitat. Creating permanent openings in the marsh, digging new canals and ponds and fighting the common reed are some of the means envisaged. However, until the problem of excessive sedimentation in the marsh from farm sectors has been solved at the source, restoration work cannot be done on the main canal in which most of the sediments travel.





■ Status Report 1987-2007

Conservation	Resto	ration	Protection		
Projects	Surface area (ha)	Cost (\$)	Surface area (ha)	Cost (\$)	
Aboiteau Girard	34	20 000			
Archipel Dartmouth			24	4 400	
Baie Brazeau		300	545	159 700	
Baie Chapman			11	41 400	
Baie Clément			36	111 500	
Baie Clément Saint-Louis			386	285 300	
Baie des Mille-Vaches		7 500	29	117 300	
Baie de Lavallière		45 400	18	134 249	
Baie McLaurin			416	1 566 755	
Baie St-François			10	23 000	
Baie-du-Febvre (Nicolet-Sud)	251	1 017 550	425	544 443	
Battures de St-Augustin			257	51 600	
Battures Saint-Fulgence	63	87 050	68	397 013	
Bécancour	110	66 000			
Bégin			6	42 000	
Boisbriand	6	3 500			
Boisé Angell			«in progress»	46 300	
Bras-Mort Rivière Boyer	1	3 000			
Breckenridge			162	100 750	
Commune de Baie-du-Febvre	62	500 000	326	50 000	
Côte-de-Beaupré			97	97 500	
Étang Dollard			12	53 000	
Grande plée Bleue			490	350 600	
Île à l'Aigle			50	94 000	
Île aux Alouettes	6	14 000	11	950	
Île aux Cerfeuils			25	73 500	
Île aux Fraises	7	85 000	7	0	
Île aux Grues			50	21 600	
Île aux Lièvres				22 000	
Île aux Oies	194	90 000			
Île aux Pommes	26	70 000	60		
Île Bouchard	128	37 700	43	26 000	
Île d'Orléans				17 000	
Île de Grâce		650	262	697 600	
Île des Barques	62	120 000			
Île du Moine	509	347 700		1 700	
Île Dupas	524	868 000	700		
Île Lacroix				730	
Île Lapierre			29	20 000	
Île Marie	51	82 000	45	86 000	

Conservation	Restoration		Protection		
Projects	Surface area (ha)	Cost (\$)	Surface area (ha)	Cost (\$)	
Îles du Pot à l'Eau-de-Vie	45	106 000	58		
Îles Les Pèlerins	234	18 000	234		
Joyal			5	1 900	
Kamouraska	1	6 000	17	81 620	
L'Isle Verte	114	155 000	59		
Lac à Bégin	8	6 700			
Lac au Foin	19	46 200			
Lac Bostonnais	1 490	215 000	1490		
Lac Brompton		-	160	102 800	
Lac Brompton Sud			30	118 000	
Lac Leverrier	170	134 000	222		
Lac Mud	220	81 000	304		
Lac Saint-Charles			67	142 200	
Lafranchise			117	120 600	
Lanthier		7 500			
Longue-Pointe	93	155 000	114	251 276	
Marais Antoine	525	322 000			
Marais aux Grenouillettes	69	132 900			
Marais Beauharnois	461	516 400	200		
Marais Cléricy	22	71 000	33		
Marais de la Baie au Chêne			426	498 000	
Marais des Graves	35	45 000			
Marais des Laîches	250	128 000			
Marais Double	14	83 000	55		
Marais Drummondville	51	28 000			
Marais du Cap	34	85 000			
Marais Fabre	4	35 000	12		
Marais Fantom	3	23 000	15		
Marais Fiske	47	87 000	60		
Marais forestier de l'Estrie			36	30 000	
Marais forestier du Bas-Saint-Laurent			1 414	15 600	
Marais forestier du bassin de la rivière Chaudière			3 395	150 000	
Marais forestiers de la Forêt modèle du Bas-Saint-Laurent			438	78 000	
Marais forestiers (20 other projects)			1920	348 000	
Marais Guay	1	4 800			
Marais Ippersiel	4	70 000	15		
Marais Katevale		3 500	65	133 100	
Marais Léon-Provancher	95	183 000	124	175 490	



Status Report 1987-2007 (continued)

continued

Conservation	Resto	ration	Protection		
Projects	Surface area (ha)	Cost (\$)	Surface area (ha)	Cost (\$)	
Marais Madore	20	28 000	79		
Marais Manneville	13	71 000	33		
Marais Nymphéa	19	50 000	41		
Marais Perdrix	27	75 000	46		
Marais Peter-Curry	3	62 400	14		
Marais Réal-DCarbonneau (Saint-François)	22	61 000			
Marais Sainte-Angèle			6	35 100	
Marais Snake Creek	40	85 000	67	-	
Marais Stadacona	11	70 000	63		
Marais Thiballier	24	113 000	41		
Marécage des Scots				6 000	
Montesson	225	36 000			
Oie Blanche	87	106 000			
Outaouais access		70 200			
Petit marais Saint-Gédéon			114	357 430	
Petite Ferme (Cap Tourmente)	23	161 100			
Petite Presqu'île	9	6 000			
Plaine Checkley (T. Sept-Îles)			30	54 600	
Pointe à Caron			65	125 400	
Pointe au Boisvert				500	
Pointe Fortune			25	46 300	
Pointe-aux-Cèdres			117	75 000	
Pointe-aux-Outardes				2 000	
Pointes Hébert et Goyette	13	54 500	13	62 000	
Quyon			22	17 000	
Ragueneau	10	22 500			
Refuge faunique Marguerite-d'Youville	104	436 700	206	87 700	
Rigolet	17	25 000			
Rivière des Mille-Îles			62	189 900	
Rivière du Sud		235 000	332	1 165 500	
Rivière Marguerite	17	123 300	40	3 600	
Rivière Outaouais		15 000	90	200 000	
Rivière-aux-Pins	21	353 320		365 400	
Rivière-aux-Vases	19	6 300			
Rousseau		10 000			
Ruisseau Bleury				19 000	
Ruisseau de Feu			42	1 176 000	
Ruisseau des Aulnages		10 500			
Ruisseau Saint-Jean	3	46 040	32	398 658	

Conservation	Resto	ration	Protection		
Projects	Surface area (ha)	Cost (\$)	Surface area (ha)	Cost (\$)	
Saint-Barthélemy/Saint-Joseph-de- Maskinogé	615	1 022 540	441	1 231 570	
Ruisseau Trépanier	247	465 400	247	472 200	
Sainte-Anne-de-la-Pérade			46	48 000	
Templeton	44	50 500			
Thurso	106	29 000			
Varennes	233	122 000	-		
Victoriaville	15	15 800			
TOTAL	8030	10 252 300	18 187	14 053 602	

Note: The amounts contained in this table do not include indirect costs.

Other conservation initiatives	(\$)
15 sites	1 170 000
Water chesnut	558 000
Farming component posters and pamphlets	22 000
Wetlands posters	50 400
Restauration Atlas	198 000
Other projects < \$5 000	15 000
Courses and guides	7 200
Centre de ressources éducatives et communautaires pour adultes (CRECA)	26 500
Projects Development	656 000
Communauté métropolitaine de Québec (CMQ) file	53 000
Géomatics	24 000
Enhancement Analysis Guide	20 000
Farm stewardship component	30 000
Municipal stewardship component	31 000
Ministère de l'Environnement du Québec (MENV) Protected Areas	35 000
Outaouais Action Plan	124 500
Outaouais Management Plan	100 500
Regional Plans	228 700
Boreal program	189 000
Nesting Boxes Program	172 550
Regroupement des Associations pour la protection de l'Environnement des Lacs et cours d'eau de l'Estrie et du haut bassin de la Saint-François (RAPPEL)	11 000
TOTAL	3 722 350



NCC protection status report¹

Protection	2003	3-2007
Projects	Surface area (ha)	Cost (\$) ²
Anse Ross	9	43 100
Barachois de Malbaie	54	154 700
Boisé Papineau	6	712 500
Breckenridge	173	517 100
Forêt de Senneville	17	553 200
Grand marais	332	284 700
Lac à la Tortue	1397	44 900
Île Bouchard	24	86 000
Île Carillon	215	7 100
Île de Grâce	9	16 600
Île Kettle	185	12 100
Lac Champlain	611	2 066 000
Lac Indien	49	51300
Pointe Saint-Pierre	10	60 800
Rivière Outaouais	26	57 100
Rivière Richelieu	622	366 700
Total	3 739	5 033 900

¹ Since the cost calculation method differs from EHJV's other partners, a separate table has drawn up for Nature Conservancy Canada's achievements.

² Include NCC financial support (\$1 424 867) and support from NCC's partners, including the value of gifts.



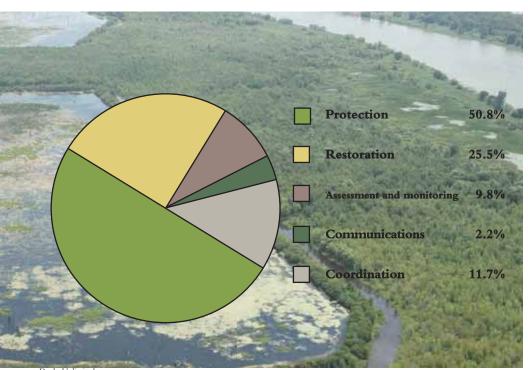


Partners' contributions from 1987 to 2007 (in thousands of \$)

Activity	Ducks Unlimited	Canadian Wildlife Service	Wildlife Habitat Canada	Fondation de la faune du Québec	Ministère des Ressources naturelles et de la Faune	The Nature Conservancy of Canada	US partners ¹	Other partners ²	Total
Protection	4 517 604	2 636 475	2 010 947	2 824 239	3 766 597	1 230 067	7 713 061	4 566 303	29 265 293
Restoration	4 484 354	403 000		165 000	998 575	23 600	8 050 761	570 000	14 695 290
Assessment and monitoring	1 194 760	2 353 150		24 000	1 880 677		1 240	216 700	5 670 527
Communications	771 582	84 000	71 632	81 203	208 628	3 600	39 818		1 260 463
Coordination	3 727 784	1 153 800	48 750	645 150	819 545	167 600	102 716	6 000	6 725 345
Total	14 696 084	6 630 425	2 131 329	3 739 592	7 674 022	1 424 867	15 907 596	5 413 003	57 616 918

¹ US, Fish and Wildlife Service Ducks Unlimited, Inc.

Plan activities in Québec (1987-2007)







Ducks Unlimited

² Office de planification et de développement du Québec (OPDQ) Hydro-Québec Fonds de restauration de l'habitat du poisson (FRHAP) St. Lawrence Vision 2000 (SLV-2000)



For a copy of the 1987-2007 Eastern Habitat Joint Venture Status Report:

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