Wet	land Policy Implementation Plan (September	2008)				
Rec #	Recommendation	Implementer(s)	Implementation Target	Last Status Update (Year provided)	2019 Status	(Please in
						General comments: Recommendations were th and have been a key resour basis for a multitude of op Alberta Wetland Policy, ar AEP and the North Americ Association, the Alberta A Stewardship Groups, and V wetland education and b) r
1.1.1	Implement the Wetland Mitigation Decision Framework across the province, using avoidance, minimization or compensation for all Water Act approvals and/or licenses (including temporary approvals to take water from wetlands) that affect wetlands, through the Water Act approval process.	GoA	Immediate	Implemented – alternative approach (2018)		Alberta Wetland Policy (A Alberta Wetland Mitigatio The Term "Compensation" "replacement wetlands" an
1.1.2	Develop guidelines on how to avoid (e.g. smart-growth planning) and how to minimize (e.g. maintaining wetland hydrology through the use of flow-through culverts) development impacts, using sound ecological principles and the best science available.	GoA	Short-term	Implemented – alternative approach (2018)		 <u>Alberta Wetland Mitigatio</u> <u>Efficient Use of Land Too</u> <u>Integrated Land Managem</u> A range of Minimizatio applied (<u>agriculture</u>, for oil and gas, <u>peat operat</u> A compendium of BMI EP is working to forma authorizations and Cod
1.1.3	Working with stakeholders, develop guidance for compensation to support the policy. Until new guides are developed, the Provincial Wetland Restoration/Compensation Guide (2007) will continue to provide guidance to the regulator for the White Area.	GoA	Immediate	Implemented – as written (2018)		 Alberta Wetland Mitigatio N.B. The Provincial W by the Directive and wi expired. The Term "Compensat.
1.2.1	Review the literature and provide evidence on appropriate implementation of the area-based approach for Alberta that can be incorporated into the revised Provincial Wetland Restoration/Compensation Guide.	GoA	Immediate	Implemented – alternative approach (2018)		The previous 3:1 area-base function-based) system tha as a range of replacement to Alberta Wetland Mitigatio Alberta Wetland Identifica Alberta Wetland Assessme Alberta Wetland Rapid Ev Alberta Wetland Rapid Ev
1.2.2	Develop a research and/or pilot program to assess the scientific and economic feasibility of moving toward a function-based rather than an area-based approach for compensation.	GoA	Medium-term	Implemented – as written (2018)		 In 2011, Environment a wetlands in southern A applicability of the We the department chose to in the province. As part of Policy devel inclusion of relative we wetland replacement re replacement is based on function), and historical
1.2.3	If successful, incorporate the option of a function-based approach into the revised Provincial Wetland Restoration/Compensation Guide.	GoA	Long-term	Implemented – as written (2018)		• Wetland function has b component of regulator initiatives.

Comments from Latest Update include any new comments in track changes)

thoroughly considered in preparation of the Alberta Wetland Policy burce throughout the policy implementation process. They form the operational tools and mechanisms that have been developed under the and represent a significant driver in recent conversations between wrican Waterfowl Management Plan, the Alberta Urban Municipalities Association for Municipal Districts and Counties, Watershed d Watershed Planning and Advisory Councils toward a) enhanced) more broadly integrated wetland management and decision making.

(AWPI)

ion Directive (AWPI)

on" has been replaced with "Replacement" to focus on getting and not "money to replace wetlands".

ion Directive (AWPI)

ools Compendium on private and public lands (LUF)

ment Tools Compendium on public lands (LUF)

tion or Best/Beneficial Management Practices is currently being forestry (<u>operating ground rules</u> and <u>resource roads</u>), <u>transportation</u>, <u>rations</u>)

MPs is being developed by Ducks Unlimited Canada.

nalize/codify BMPs that will be directly referenced through regulatory odes of Practice.

ion Directive (AWPI)

Wetland Restoration/Compensation Guide (2007) has been replaced will be fully rescinded in 2018, after grandfathering provisions have

ation" has been replaced with "Replacement".

ased approach has been augmented with a relative value (wetland that offers a mechanism for knowledge-based decision making, as well nt ratios to reflect value of the individual wetland.

ion Directive (AWPI)

cation and Delineation Directive

ment and Impact Report Directive (WAIR)

Evaluation Tool - Actual – (ABWRET-A) – White Area

Evaluation Tool – Actual – (ABWRET-A) – Green Area

at and Parks undertook an ecosystem services approach pilot for Alberta. Based on the success of this pilot, as well as demonstrated Vetland Ecosystem Services Protocol for the United States (WESPUS), to pursue a wetland function-based approach to wetland management

velopment, stakeholders supported an area-based approach with the wetland value to support regulatory decision making and establish requirements. As a result, rather than a pure area-based approach, l on a combination of physical area, relative wetland value (ecosystem ical loss.

been embedded within the wetland management system as a key sory decision making, as well as wetland conservation and restoration

						 Alberta Wetland Mitig Replacement implement determined using the A function using the AB
1.3.1	Explore a regulatory framework for mitigation banks as a compensation option for wetland loss and, if established under the appropriate legislative component, ensure these banks are appropriately regulated in law.	GoA	Medium-term	Pending – to be completed (2018)	Implemented: As written/ Alternative*	Wetland Conservation Off wetland conservation offs Wetland Regulation (unde
1.3.2	If proceeding with mitigation banking, establish criteria for suitable providers of mitigation banks and maintain a registry of approved bankers.	GoA	Medium-term	Pending – to be completed (2018)	Implemented: As written/ Alternative*	 Alberta Wetland Restores wetlands, including for Assurance to the system through eligible signin Organizations, operation Similarly, no registry of
1.3.3	If proceeding with mitigation banking, set up a monitoring system to support and help achieve the policy goal.	GoA	Medium-term	Pending – to be completed (2018)	Implemented: As written/ Alternative*	 Alberta Wetland Resto A registry is under dev verification. Audit and tracking pro enable tracking of the
1.3.4	Explore systems of trading wetland credits to provide mechanisms that reward stewardship actions on private land as appropriate.	GoA	Medium-term	Pending – uncertain (2018)	Implemented: As written/ Alternative*	 Wetland Conservation wetland conservation of initiative. The Department contin Sectors, as well as pro- encouraging/enabling s
1.3.5	Develop a repository of restoration opportunities.	GoA	Immediate	Pending to – be completed (2018)	Implemented: As written/ Alternative	 Alberta Merged Wetlat opportunities is being of Environment and Park- watersheds, etc.) towar replacement opportuni
1.4.1	Compile existing information on best practices through a review and assessment of the literature and existing restoration, construction and enhancement projects, within the last five to ten years in Alberta and elsewhere.	GoA	Short-term	Implemented – alternative approach (2018)		 A range of Minimizati- (agriculture, forestry (or gas, peat operations). Ducks Unlimited Canaregistry of these. EP is working with All available BMPs across
1.4.2	Provide guidelines on the best practices for restored, constructed and enhanced wetland design and monitoring for various landscapes.	GoA	Short-term	Implemented – as written (2018)		Wetlands Best Manageme Wetland offset directives enhancement, securement
1.4.3	Develop consistent monitoring protocols, conditions for requirement under the <i>Water Act</i> , and assessment tools to assess wetland health and functions, for individual constructed, restored and enhanced wetlands, and on a landscape level.	GoA	Medium-term	Implemented – as written (2018)		 Various guidance piece the overall Wetland M Restoration, Construct These include the ABW expressed in directives
2.1.1	With stakeholders, develop a guidance framework for establishing watershed and regional wetland objectives.	GoA	Short-term	Pending – to be completed (2018)	Implemented: As written/ Alternative	 Under development, in Use Planning Frameword plans Supported by Wl partnership. EP has been actively endevelopment of municar priorities.
2.1.2	Ensure that a sound knowledge foundation supports and informs the objective-setting process, including inventory, watershed models and AWC Pacommondation Tracking Datailad Papart 2010	GoA	Medium-term	Pending – to be	Implemented:	Alberta Merged WetlaWatershed Management

AWC Recommendation Tracking Detailed Report - 2019

tigation Directive (AWPI)

nented as a combined Area- and Function-based approach. Area is e Alberta Wetland Identification and Delineation Directive and BWRET-A White Area and Green Area Tool.

Offset Program and the related registry are under development. The fset program is the pilot for the Conservation Offsets initiative der the provincial Water Act) is in progress (AWPI).

storation Directive sets out criteria for anyone wanting to restore for mitigation banking.

tem is not provided through approved bankers. Rather, it is enabled ing authorities, as defined by the Professional Regulatory uting in accordance with the Directive.

y of approved restoration agents is required.

storation Directive (Verification) sets out the monitoring system. evelopment to monitor wetland banking projects from design to

rocedures have been developed to support system accountability and e policy goal/outcomes.

on Offset Program and the related Registry are under development. The n offset program is the pilot for the Conservation Offset Framework

tinues to engage with Agriculture and Forestry, Crop and Stock roducers/private landowners to explore appropriate mechanisms for g stewardship (including the Alternative Land Use Services Program. tland Inventory (AMWI) - A data layer for wetland restoration g developed to augment the existing Inventory.

rks continues to work with a variety of key partners (municipalities, vard establishment of a program for- and prioritized list of- wetland inities.

ation or Best/Beneficial Management Practices are known to exist (operating ground rules and resource roads), transportation, oil and

nada (Alberta Boreal Office) is currently working to establish a

Alberta NAWMP to develop a project for the collection and review of oss all sectors known to impact wetlands.

nent Practices Workshop

es implemented (restoration) or under development (construction, nt).

eces have been implemented or are under development, in support of Management System and for use with the Alberta Wetland action, and Enhancement Directives.

BWRET-A, Index of Biological Integrity, and monitoring requirements res.

in support of the broader Wetland Management System. Led by Land work - Regional plans – <u>specifically sub-regional and issue specific</u> WPACs, NGOs <u>Watershed Management Planning</u>, and NAWMP

engaged with AUMA, AAMDC, and individual municipalities toward icipal mechanisms for the determination of wetland management

	other predictive tools.			completed (2018)	As written/ Alternative	 Alberta Wetland Rapio / Green Area in progre Alberta Wetland Rapio
2.1.3	Examine how a watershed or water management plan developed under the provisions of the <i>Water Act</i> , or any future revisions of those plans, would recognize the Wetland Policy.	GoA, WPACs	Short-term	Pending – to be completed (2018)	Pending – to be completed	 As identified in Section and its associated regu- identified thereunder. Further work is required plans, land-use plans, a Although instrumental factor. Watershed Manageme The GoA has marked the the recommendation restance
2.1.4	Improve access to provincial wetland inventory information to municipalities, industry, Watershed Planning and Advisory Councils, or other multi–stakeholder groups, to use in the development of wetland objectives for watershed management and other planning processes.	GoA	Immediate	Implemented – as written (2018)		Alberta Merged Wetland I Alberta Wetland Rapid Ev • Environment and Park establishment of stands integration, and ongoin
2.2.1	Incorporate wetland objectives from the watershed and/or regional scale into the programs, initiatives and directives of the GOA and its partners.	GoA, WFL Partners	Short-term	Pending – to be completed (2018)	Pending – to be completed	 The implementation te delivery of wetland ma authorities, and WPAC GOA - Alberta Wetlan Supported by WPAC - The GoA has marked te the recommendation r
3.1.1	Create and maintain a website repository of provincial, municipal and federal legislative tools and directives, and common law pertaining to or potentially impacting wetlands.	GoA	Immediate	Implemented – alternative approach (2018)		Alberta Wetland Policy Ir
3.1.2	Revise and update "Alberta's Wetlands: A Law and Policy Guide" to incorporate the Alberta Wetland Policy.	GoA	Medium-term	Implemented – as written (2018)		2nd Edition completed Fe NAWMP Partnership.
3.1.3	Establish and manage a process to review all appropriate legislation, policies, directives and intergovernmental processes for consistency and alignment with the Alberta Wetland Policy.	GoA	Medium-term	Implemented – as written (2018)		Alberta Wetland Policy (Alberta Wetland Mitigatio
3.1.4	When developing new regulatory or policy instruments, government bodies and delegates will ensure that the policy is appropriately incorporated in all areas of the province.	GoA	Medium-term	Implemented – as written (2018)		Alberta Wetland Policy, I later. Alberta Wetland Mitigatio
3.1.5	Integrate the policy into the determination of equivalent land capability for the purposes of reclamation under the <i>Environmental Protection and Enhancement Act.</i>	GoA	Immediate	Implemented – as written (2018)		 Alberta Wetland Mitig or PLA, and explicit co capability. Explicit guidance for p
3.2.1	Build capacity in the regional regulatory approvals and inspection system to successfully implement the Alberta Wetland Policy.	GoA	Immediate	Implemented – as written (2018)		Extensive and ongoing Av resource management (ref Internal Wetland Adminis
3.2.2	When a government body or delegate is a proponent of a proposed project or an activity that could impact a wetland, it will ensure that the policy is implemented in the proposal and project or activity process.	GoA	Immediate	Implemented – as written (2018)		 Any and all activities i Water Act and associa All GOA entities are re- requirements. The Departments of A to ensure their stakeho

pid Evaluation Tool – Estimator (ABWRET-E) White Area completed gress

pid Evaluation Tool – Predictor (ABWRET-P) in progress

ions 3 and 4 of the <u>Alberta Wetland Mitigation Directive</u>, the Policy gulatory components are bound by statutory plans and objectives

ired, to clarify the relationships between municipal and inter-municipal s, and water/watershed management plans, and wetland policy. tal to the conversation, wetland policy is not the driver, nor a deciding

nent Planning

d this as Implemented, but the WPACs marked it as Pending. Therefor remains pending.

d Inventory (subject to continuous improvement)

Evaluation Tool – Estimate (ABWRET-E)

rks is currently working through the NAWMP partnership toward ndards that will inform government and others in the development, ping enhancement of high-resolution wetland inventories.

team is currently exploring multiple avenues for development and management objectives, including EP regional planners, municipal ACs.

and Mitigation Directive (AWPI)

C - Watershed Management Planning

d this as Implemented, but the WPACs marked it as Pending. Therefor remains pending.

Implementation Web Page

February 2016 by Arlene Kwasniak, and supported by the Alberta

(WPB) tion Directive (AWPI)

, Implementation Plan 2 Phase White Area first, Green Area 1 year

tion Directive

tigation Directive – reclamation only accepted if required under EPEA commitment to reclaim back to wetland, not to equivalent land

r peatland reclamation published in 2015.

AWP Training provided to AEP and AER operations (approvals, referrals), and compliance) on Wetland directives, guides, processes. nistrative Procedures published and available to staff.

s impacting wetlands in the Province of Alberta are subject to the itated Wetland Policy Requirements. e required to follow the Alberta Wetland Policy regulatory

Agriculture and Forestry, Municipal Affairs, and Energy have engaged holders are knowledgeable of their responsibilities.

3.2.3	Where a government body or delegate plays an approval, referral or other role in a regulatory process (including public land dispositions), the entity will ensure that the policy is implemented in the process.	GoA	Immediate	Implemented – as written (2018)		Regulators with both AEP integrate policy tools with compliance/enforcement, EPEA. Key tools include: and Impact Report Directi
3.3.1	Work with Municipal Affairs to strengthen the current requirements under the Municipal Government Act where municipalities "may consider" environmental matters in preparing their Municipal Development Plans and are not required to consider environmental matters when developing Area Structure Plans.	GoA	Short-term	Pending – uncertain (2018)	Implemented: As written/ Alternative	 Municipal Governmen working with Municip wetlands. Additional tools availa Back from the Water: water bodies in Albert
3.3.2	Work with Municipal Affairs to review the wetland conservation provisions in the Land Use Policies under the Municipal Government Act and consider broadening the environmental reserve and setback provisions to allow for a range of uses to manage lands within municipalities, including the protection of other environmental purposes/components based on the best available science; or develop a new Wetland Reserve, or Ecological Reserve dedication clause.	GoA	Short-term	Pending – uncertain (2018)	Implemented: As written/ Alternative	Extract from Modernized "The new MGA creates a environmentally significant environmentally significant have to provide appropria land will be set aside and clearer definitions and put determine the reserve bout
3.3.3	Set up a committee with municipalities, Métis Settlements and Summer Villages to investigate how GOA can better support their efforts to protect wetlands within their jurisdiction.	GoA	Short-term	Implemented – alternative approach (2018)		 Regular and ongoing municipal organization A NAWMP/Municipal Alberta" nearing comparison
3.3.4	Revise the Land-Use Framework to require municipal land use plans, including the Municipal Development Plan, bylaws (including zoning bylaws), and actions to reflect and incorporate the Alberta Wetland Policy.	GoA	Short-term	Implemented – alternative approach (2018)		This is under active consid Extract from MGA Moder be phased out of force as a into force. The MGA will j for municipal planning ma Land Stewardship Act."
3.3.5	Develop and implement an education and awareness program for municipalities to review and align with provincial legislation and directives.	GoA	Short-term	Implemented – as written (2018)		 Regular and ongoing municipal organization A NAWMP/Municipal regulatory compliance
3.3.6	Review the federal wetland policy and ensure there is congruence with the provincial policy on federal lands in Alberta.	GoA	Medium-term	Implemented – as written (2018)		 Done during policy d federal policy. However Most significant protection North American Wate
3.3.7	Provide guidance that considers wetlands and mosquito abatement, health considerations, pesticide use and wetland drainage practices.	GoA	Medium-term	Closed – not appropriate (2018)		These pieces are variously abatement in conjunction quality initiatives; pesticio drainage practices with A
4.1.1	Create a wetland education plan that provides an overarching framework for developing and coordinating wetland education and outreach activities to targeted audiences.	GoA	Immediate	Pending – to be completed (2018)	Implemented: As written/ Alternative	NAWMP Partnership Edu groups (Public, Municipal
4.1.2	Continue to develop, update and deliver wetland education material for grades 5, 8 and 12 school curriculums.	GoA	Short-term	Closed – not appropriate (2018)		School wetland education (continuous improvement
4.1.3	Develop and use targeted education, awareness and compliance programs, including social-based marketing programs, to discourage draining of ephemeral water bodies and other wetlands.	GoA	Short-term	Implemented – alternative approach (2018)		 A NAWMP/Agricultur awareness project is ur Education project to be reduce instances of non approvers to identify e Need to shift public pe to occur incrementally

EP and AER have been involved in policy development and trained to ithin their respective processes. These include regulatory approvals, it, and Resource Managers under the Water Act, Public Lands Act, and le: Alberta Wetland Mitigation Directive, Alberta Wetland Assessment ctive (WAIR) and Wetland Administrative Procedure

ent Act (MGA) is being modernized (completion 2017). EP staff is ipal Affairs to address water issues/concerns, including treatment of

ilable to municipalities include: conservation easements and Stepping r: A beneficial management practices guide for new development near erta's settled region

ed MGA direction

a new type of reserve, called Conservation Reserve, to protect cant lands such as wildlife corridors, significant tree stands or other cant features municipalities may wish to conserve. Municipalities will riate compensation to developers for Conservation Reserve, since the ad protected instead of developed. The new Act will also provide purposes for lands deemed Environment Reserve, and tools to oundaries earlier in the planning process to help in development."

ng engagement with municipal partners: AUMA, AAMDC, other tions/associations and individual municipalities. ipal/GOA collaborative "Guide to Municipal Wetland Conservation in completion

sideration, as part of the regional planning process.

dernized MGA: "The current MGA land-use policies will continue to as new regional plans under the Alberta Land Stewardship Act come Il provide the authority, through regulation, to create land-use policies matters that are not included in a regional plan under the Alberta

ng engagement with municipal partners: AUMA, AAMDC, other tions/associations, and individual municipalities.

ipal/GOA collaborative education and awareness project regarding nce is in progress for completion March 31, 2017

development. The Alberta Wetland Policy is reasonably aligned with vever, Alberta does not govern Federal lands.

otection/conservation program for Wetlands in Canada is through aterfowl Management Plan (NAWMP) Canada

sly in progress, but through other delivery mechanisms: Mosquito on with Municipalities; health conditions in conjunction with water cide use in conjunction with academia/research projects, and wetland Alberta Agriculture and Forestry.

ducation and Outreach Working Group, and targeted sub working bal, Agriculture, Industry)

on programs continue; plans exist to update materials as scheduled nt).

ture Producers/GOA(AEP/AAF) collaborative education and under development for completion March 31, 2017.

be focused on compliance with regulatory requirements with a goal non-compliance. Identified the need for a tool for landowners and v ephemerals.

perspectives around drainage/conservation remains. Change expected ly over time.

4.1.4	Develop, communicate and share beneficial management practices for activities in and around wetlands.	GoA	Short-term	Pending – to be completed (2018)	Implemented: As written/ Alternative	 Municipal: Stepping B PRACTICES GUIDE ALBERTA'S SETTLI Agriculture: Environm Livestock and wetland EP is working with sec conditions within regu
4.1.5	Integrate the wetland education plan with existing programs like Cows and Fish and the Alberta Stewardship Network, and disseminate it to other organizations, government departments and stakeholder organizations.	GoA	Medium-term	Pending – to be completed (2018)	Implemented: As written/ Alternative	NAWMP Partnership Edu Municipal, Agriculture, Ir knowledge and education
4.1.6	Work with First Nations, Métis Settlements and other Aboriginal communities and individuals to develop an increased awareness of wetland values and functions using traditional knowledge and ecological perspectives.	GoA, FN, MSGC	Medium-term	Pending – uncertain (2018)	Implemented: As written/ Alternative	 The work with Métis S been somewhat delaye First Nations land falls First Nations are constr
4.2.1	Develop education and communication materials and programs on the <i>Water Act</i> and the value of ephemeral water bodies, appropriate for the intended audience.	GoA	Short-term	Pending – to be completed (2018)	Implemented: As written/ Alternative	 A NAWMP/Agricultur including the value of 2017. A wetland fact sheet h
4.2.2	Using the social-based community marketing approach, incorporate education and communication materials on the value of ephemeral water bodies into education initiatives, where appropriate.	GoA	Immediate	Pending – uncertain (2018)	Implemented: As written/ Alternative	 Social based communiused as part of the roll Two key initiatives are ephemeral water bodie
4.2.3	Develop and communicate beneficial management practices and/or codes of practice for activities around ephemeral water bodies when they are dry, such as grazing, haying, hunting and gathering, linear disturbance, etc.	GoA	Medium-term	Pending – to be completed (2018)	Implemented: As written/ Alternative	Municipal: Stepping Back development near water b Agriculture: Environment Livestock and wetland Up Stream Oil and Gas: V view of the policy and pol
4.2.4	Determine performance measures and annually review education initiatives to determine beneficial management practice adoption.	GoA	Long-term	Closed – not appropriate (2018)		Captured as part of long-t adjustment (continuous in
4.2.5	Undertake research to better understand the value and functions of ephemeral water bodies, their status including their rate of occurrence and/or loss, and the cumulative impact of current and future impacts including climate change.	GoA	Long-term	Closed – not appropriate (2018)		 Ephemerals projects w to be established. Immediate value and f more closely examined
5.1.1	Identify, review and communicate (i.e. develop a landowner directory) of existing incentives, including matters relating to tax assessment (e.g. conservation easement and agriculture property tax issues) to encourage the protection, conservation and restoration of wetlands.	GoA	Immediate	Pending – to be completed (2018)	Implemented: As written/ Alternative	 Many incentives exist Forward 2), Municipal other partners. EP will be working wi avenues for communic new options and appro-
5.1.2	Develop a Wetland Stewardship recognition program as an incentive by identifying, encouraging, promoting and awarding innovative and effective wetland protection, conservation and restoration efforts by governments, industry, conservation organizations and individuals.	GoA	Medium-term	Pending – to be completed (2018)	Implemented: As written/ Alternative	Wetland Stewardship Gra
5.2.1	Undertake a review of existing and new incentives in Alberta and other jurisdictions to explore the development of new incentives including market incentives that encourage protecting, conserving and restoring wetlands.	GoA	Short-term	Pending – to be completed (2018)	Implemented: As written/ Alternative	 Many incentives exist programs (Growing Fo (wetland restoration) a programs. Environment and Park through its Conservation for proactive wetland in

Back from the Water: A BENEFICIAL MANAGEMENT E FOR NEW DEVELOPMENT NEAR WATER BODIES IN LED REGION

nmental Beneficial Management Practices; Crops and wetland; nd

sectors to identify and codify BMPs that will be directly linked to gulatory approvals.

ducation and Outreach Network, including networking groups (Public, Industry). The goal is to identify and share existing and new wetland on work and avoid duplication of work.

s Settlements links with Municipal awareness and knowledge; this has yed by Green Area implementation.

lls under federal jurisdiction; GOA does not govern Federal lands. nsulted when activities in wetlands occur on Crown land.

ture/GOA(AEP/AAF) collaborative education and awareness project, of ephemeral wetlands, is under development for completion March 31,

has been developed for agricultural producers and private landowners. nity marketing is not being considered at this time. However, it may be oll-out of NAWMP education and awareness initiatives.

are currently set to examine the immediate value of wetlands (including lies) to agricultural producers and private landowners.

ck from the Water: A beneficial management practices guide for new bodies in Alberta's settled region

ntal Beneficial Management Practices including Crops and wetland;

Water Ministerial Regulation's Codes of Practice, to be updated, in policy needs.

term wetland policy monitoring, which enables the evaluation and improvement) components of the system.

will be considered as part of the Wetland Research Strategy. Priority

I function of all wetlands (including ephemerals) to landowners to be ned through a number of pending research projects.

st through Alberta Agriculture and Forestry programs (Growing palities (ALUS), Ducks Unlimited Canada (wetland restoration) and

with partners, including municipalities and NAWMP to identify nication of existing programs and opportunities, as well as evaluating proaches for incentivizing stewardship.

rant Program added to AEP Stewardship Grants

st and have been developed through Alberta Agriculture and Forestry Forward 2), Municipal Affairs (ALUS), Ducks Unlimited Canada) and other partners. Continuous improvement occurring for all

rks is working to establish a wetland restoration offset program ation Offset Framework, which will establish credit-based incentives d restoration in the province.

5.2.2	Undertake a review of the use of mitigation banking and credit trading in other jurisdictions to determine if such market-based mechanisms create monetary value and provide incentive for landowners to protect wetlands.	GoA	Medium-term	Pending – to be completed (2018)	Implemented: As written/ Alternative	Development of the Conse Restoration Offset Program
5.2.3	Explore incentives to reduce costs (e.g. expenses/fees for legal, planning, surveying and accounting) that are a barrier to using conservation easements. GOA could provide incentives to cover costs.	GoA	Medium-term	Pending – to be completed (2018)	Implemented: As written/ Alternative	 Given the regulatory collimited, and likely mos This will be further condition (securement, enhancement, enhancement)
5.2.4	Explore the development of incentive programs to encourage academia, industry and others to undertake research and innovation projects to improve all aspects of wetland management.	GoA	Medium-term	Pending – to be completed (2018)	Implemented: As written/ Alternative	 Included in the Alberta allocated to non-restora Alberta Wetland Mitig Replacement account. Through the support of development.
5.3.1	All GOA departments and agencies should review and revise relevant policies, programs, directives, statutes and departmental or agency regulations to identify and remove disincentives to wetland protection, conservation and restoration.	GoA	Short-term	Pending – to be completed (2018)	Implemented: As written/ Alternative	In progress and ongoing, a the extent that Environmen
6.1.1	Develop and fund a wetland research plan that identifies current research needs and priorities.	GoA	Short-term	Pending – to be completed (2018)	Implemented: As written/ Alternative	A Wetland Research Strat- proportion of funding will has been established.
6.1.2	Create a mechanism to distribute the results of wetland research and monitoring to water and land managers.	GoA	Medium-term	Pending – to be completed (2018)	Implemented: As written/ Alternative	As items are identified the Implementation web page
6.1.3	Promote research efforts to better understand effectiveness of restoration activities.	GoA	Medium-term	Implemented – as written (2018)		 Restoration effectivened Strategy. Priority to be development. Audit processes have b projects linked to regul
6.2.1	Establish a wetland classification system (or systems) that reflect all areas of Alberta and that meets the needs of stakeholders.	GoA	Immediate	Implemented – as written (2018)		Alberta Wetland Classific
6.2.2	Communicate the classification system to stakeholders and use it in wetland inventories, landscape assessments and other tools.	GoA	Short-term	Implemented – as written (2018)		Available on the <u>Alberta V</u> Assessment Stage and reg
6.3.1	Develop provincial wetland inventory data standards, including how frequently inventories will be repeated.	GoA	Immediate	Pending – to be completed (2018)	Implemented: As written/ Alternative	The data and inventory sta partnership and currently i ABMI.
6.3.2	Develop a seamless provincial wetland inventory of the distribution of wetland classes in Alberta.	GoA	Medium-term	Implemented – as written (2018)		Alberta Merged Wetland
6.3.3	Disseminate provincial wetland inventories to municipalities, industry, First Nations, Métis Settlements and other Aboriginal communities for use in their planning and development activities, as soon as available.	GoA	Immediate	Implemented – as written (2018)		Alberta Merged Wetland I Alberta Wetland Rapid Ev Green Area in progress – S Available on the Alberta V Planning and Legislative A Subject to continuous imp
6.3.4	Where applicable, through the Environmental Impact Assessment process under the Environmental Protection and Enhancement Act, ensure any required wetland inventories are conducted using the provincial inventory and classification standards, and that such data are supplied to the GOA for compilation in the provincial wetland	GoA	Medium-term	Implemented – alternative approach (2018)		AEP and AER operations (<i>Water Act, Public Lands</i>) Directive, Alberta Wetland Administrative Procedure, incorporation with the Alb

AWC Recommendation Tracking Detailed Report - 2019

nservation Offsets Framework and wetland specific <u>Wetland</u> ram

v context, the need for conservation easements is considered relatively nost applicable to securement of existing, at risk, high-value wetlands. considered during development of outstanding replacement Directives memnt, construction) and related Guides.

rta Wetland Policy – up to 10% of wetland in lieu funds may be orative measures, including research.

igation Directive – wetland research may be funded from the In-Lieu t.

of the Alberta Land Institute, a Wetland Research Strategy is under

s, as part of the Alberta Wetland Policy Implementation process, and to nent and Parks has authority or influence.

rategy is under development through the Alberta Land Institute. Some rill be available once the GOA Wetland In-Lieu Replacement Account

they will be made available on the Alberta Wetland Policy ge

eness research will be considered as part of the Wetland Research be established. The Wetland Research Strategy is currently under

be been implemented, as a means of testing the success of restoration sulatory approvals. <u>ication System</u>

Wetland Policy Implementation web page, under the Wetland egularly communicated at training and outreach sessions.

standards conversation has been kicked off by Alberta NAWMP y includes EP, AF, Environment Canada, Ducks Unlimited, and

<u>I Inventory</u> – Subject to continuous improvement

l Inventory

Evaluation Tool – Estimator (ABWRET-E) – White Area available, - Subject to continuous improvement.

Wetland Policy Implementation web page, under the Wetland Alignment Stage

provement

ns have been involved with the integration of the Policy into Approvals *ds Act, EPEA*). Key tools include: <u>Alberta Wetland Mitigation</u> <u>and Assessment and Impact Report Directive</u> (WAIR) and Wetland re. Wetland inventory data are being submitted for eventual Alberta Merged Wetland Inventory (AMWI) database.

	inventory database.					
6.3.5	Classify and incorporate into the provincial wetland inventory any restored, constructed and enhanced wetlands.	GoA	Long-term	Pending – to be completed (2018)	Implemented: As written/ Alternative	Restored and constructed with the Alb
6.4.1	Develop a standardized methodology, appropriate indicators, and guidance material for conducting individual and landscape-level wetland health assessments.	GoA	Short-term	Pending – to be completed (2018)	Implemented: As written/ Alternative	 Directives and tools ha Directive (WAIR); Alb Wetland Rapid Evaluat Area. A wetland health assess All tools are subject to
6.4.2	Where appropriate, develop long-term wetland monitoring programs for assessing wetland health.	GoA	Medium-term	Pending – to be completed (2018)	Implemented: As written/ Alternative	Under development, to sup evaluation. A wetland scie Science Division to overse
6.4.3	Periodically evaluate, at various scales, the rate and extent of wetland degradation and loss, as well as any associated watershed impairment. This information should be integrated with other <i>State of the Watershed</i> reporting and planning processes.	GoA, WPACs	Long-term	Implemented – alternative approach (2018)	Implemented: As written/ Alternative	 To be executed as part data and inventory/mon Under development by Supported by WPAC N Likely to comprise a control in the near future.
6.4.4	Improve understanding of the relationship of wetlands to ground and surface water quality and supply.	GoA	Short-term	Pending – to be completed (2018)	Implemented: As written/ Alternative	 NAWMP Partnership E (Public, Municipal, Ag knowledge and educati DUC and EP to underta additional understandir
6.5.1	Develop criteria, an accreditation process and a registry to promote the development of Wetland Restoration and Construction Agencies.	GoA	Short-term	Implemented – alternative approach (2018)		To be termed "Wetland Re Wetland Replacement Age executed on a contract or g overseen and authorized b Standards and competencia 10 professional organization and Engineering
6.5.2	Hold awareness and training workshops with interested parties to improve expertise and share learnings on wetland restoration, construction and enhancement techniques, and in what is required to become accredited.	GoA	Short-term	Implemented – as written (2018)		Ongoing engagement with recently completed. Constr These will be available on completion.
6.5.3	Encourage research, development and continuous improvement of restoration, construction and enhancement techniques.	GoA	Medium-term	Pending – to be completed (2018)	Implemented: As written/ Alternative	Many projects commenced Research Strategy, under d Priority of research project
6.5.4	Provide users with the appropriate guidelines, and best practices for restoring, constructing and enhancing functioning wetlands in natural and working landscapes, particularly for areas of mining, urban stormwater management, road-building and municipal development.	GoA	Short-term	Pending – to be completed (2018)	Implemented: As written/ Alternative	As part of the Wetland Ma Restoration, Construction, the Wetland Restoration, C <u>Wetlands Best Management</u> development by Ducks Un
6.5.5	Develop monitoring protocols for constructed and restored wetlands for various landscapes.	GoA	Medium-term	Pending – to be completed (2018)	Implemented: As written/ Alternative	As part of the Wetland Ma Monitoring Guide is plann constructed from borrow p
6.5.6	Ensure restoration, construction and enhancement guidelines and codes of practices for various sectors are consistent with the overarching policy goals and outcomes.	GoA	Medium-term	Pending – to be completed (2018)	Implemented: As written/ Alternative	Clear and explicit guidelin deliverable of the provinci EP is committed to develo wetlands in the Province.
6.6.1	Encourage post-secondary institutions to provide opportunities for	GoA	Medium-term	Pending – to be	Implemented:	DUC is currently piloting

AWC Recommendation Tracking Detailed Report - 2019

d wetland inventory data is being submitted and stored for eventual Alberta Merged Wetland Inventory (AMWI) database.

have been developed: Alberta Wetland Assessment and Impact Report Alberta Wetland Identification and Delineation Directive; Alberta uation Tool - Actual (ABWRET-A) for the White Area and Green

sessment tool for restored wetlands is under consideration. to continuous improvement and refinement.

support both the Wetland Management System and broader policy cientist was recently hired by the Environmental Monitoring and rsee the Wetland Monitoring Program.

art of the ongoing policy evaluation process, as supported by regulatory nonitoring information captured through EMSD. by WPACs, with direction from GOA

NGO's Watershed Management Planning

component of Lake Watershed Management Policy, to be developed

p Education & Outreach Network, including networking groups Agriculture, Industry). The goal is to identify and share wetland ation, including water quality and supply.

ertake additional research projects in the near future that will provide ding of wetlands and their functions at a more localized scale. Replacement Agent"

Agents cease to exist as of April 2017. Instead, projects will be or grant basis, whereby any wetland replacement project must be l by a practicing professional.

ncies for authorization on replacement projects will be administered by ations - <u>Professional Practice Standard for Wetland Science, Design</u>

ith all interested stakeholders. Alberta Wetland Restoration Directive instruction Directive in progress. Enhancement Directive will follow. on the <u>Alberta Wetland Policy Implementation web page</u> upon

ced with approval of the Alberta Wetland Policy. The Wetland er development, will further encourage such research and development. ects will need to be established to focus research in needed areas.

Management System and the <u>Wetland Offset Program</u>, Wetland on, Enhancement, and Securement Guides are planned to complement n, Construction, Enhancement and Securement Directives. <u>ment Practices Workshop</u> Compendium or resource list of BMPs under Unlimited Canada.

Management System and the Wetland Offset Program, a Wetland nned. Alberta Transportation has piloted monitoring on wetlands *v* pits.

lines for wetland restoration/construction/enhancement are a key ncial Wetland Management System and the <u>Wetland Offset Program</u>. eloping BMPs and Codes of Practice for a range of activities impacting

ng a post-secondary wetland course through academic institutions in

	undergraduate and graduate students to develop knowledge and understanding of wetland functions and processes.			completed (2018)	As written/ Alternative	the province. Additional engagement wi Partnership. The Competencies identifi <u>Practice Standard for Wet</u> education focus.
6.6.2	Develop, facilitate and promote the use of professional educational opportunities.	GoA	Medium-term	Implemented – alternative approach (2018)		EP is working with DUC including opportunities for Competencies required for organizations - <u>Profession</u> Implementation of these c professional development
7.1.1	Establish a process, criteria, tools and programs for identifying, designating and protecting local, regional and provincial wetlands of exceptional value.	GoA	Immediate	Pending – to be completed (2018)	Implemented: As written/ Alternative	EP is working to elaborate WSG) in identifying wetla Wetland conservation/pro contribution of multiple p Engagement locally and re organizations, and munici
7.1.2	Where appropriate, investigate using statutory and policy tools to designate wetlands of exceptional value for protection.	GoA	Immediate	Implemented – alternative approach (2018)		As identified in Section 3 EP is working with depart toward enabling and infor Government Act, Alberta
7.1.3	Where wetlands suitable for protection have been identified on Crown land, utilize existing tools to protect and identify these areas within GOA databases (e.g. protective notation) so that developers, regulators and approvals staff are aware of wetland status.	GoA	Short-term	Pending – to be completed (2018)	Implemented: As written/ Alternative	As identified in Section 3 Both the provincial wetlan are subject to continuous i of high function/value wil information. This will hely Training has been provide
7.1.4	When municipalities approve subdivision of land, use environmental reserve dedications to protect wetlands of exceptional value in the development area.	GoA, AUMA, AAMDC	Immediate	Implemented – as written (2018)		This is ultimately in the ju Government Act. EP is working with munic key decisions around wetl of those decisions into the As identified in Section 3
7.1.5	Work with Land Trusts and other appropriate organizations to encourage the use of conservation easements to protect wetlands of exceptional value.	GoA	Medium-term	Implemented – as written (2018)		EP will be working with l develop a directive for we have been finalized and in
7.1.6	Where appropriate, purchase or lease lands and designate them as appropriate to protect wetlands of exceptional value.	GoA	Medium-term	Closed – not a priority (2018)		Conservation of exception plans are comprehensive a Parallel with the Policy, T UNESCO Biosphere on M
7.1.7	Develop guidelines for appropriate use of low-impact activities (bird- watching, gathering natural foods, etc.) on wetlands of exceptional value, including when water is absent.	GoA	Medium-term	Closed – not a priority (2018)		To be pursued as part of the pursue of the pu

with stakeholders is taking place through the Alberta NAWMP

ified by the 10 professional organizations participating in <u>Professional</u> etland <u>Science</u>, <u>Design and Engineering</u> may form the basis for future

C and NAWMP to advance wetland education on multiple fronts, for professionals.

for wetland science will be administered by 10 professional onal Practice Standard for Wetland Science, Design and Engineering. e competencies is expected to promote the establishment of more nt opportunities for practitioners in the province.

ate existing tools to support staff and partners (municipal, WPAC, etlands of exceptional value.

rotection is a key priority of the provincial policy, and will require the players to need to be identified and designated locally and regionally. I regionally is ongoing through regional plans, watershed icipalities and associations.

3 (bullets 3-6) and 4 of the <u>Alberta Wetland Mitigation Directive</u>. artmental elements and key external partners (e.g., municipalities) forming the use of existing tools and legislation (e.g., Municipal ta Land Stewardship Act) in wetland conservation/protection.

3 (bullets 1-3) and 4 of the Alberta Wetland Mitigation Directive. land inventory and the relative wetland value estimator (ABWRET-E) s improvement, with the expectation that wetlands and wetland areas vill eventually be identifiable on the basis of remotely acquired elp drive the conservation/protection conversation.

led to public lands officers on wetland avoidance and conservation. jurisdiction of the municipality, as enabled under the Municipal

nicipalities to develop the tools that will help municipal partners make etland conservation/protection, and to create the system for translation he provincial wetland management program.

3 (bullet 6) of the Alberta Wetland Mitigation Directive.

land trusts and the Alberta Association for Conservation Offsets to vetland securement, once directives for construction and enhancement implemented.

onal areas is being pursued as part of the EP mandate. However, these e area, not wetland specific.

The Beaver Hills Initiative resulted in the area being designated as a March 19, 2016.

the wetland securement directive.