			licy Impleme	cy Implementation Plan (September 2008)		
Rec #	Recommendation	Implementer(s)	Implementation Target	Last Update	2024	Comments (Please include any no
						General comments: Recommendations were thoroughly considered in prepar throughout the policy implementation process. They for have been developed under the Alberta Wetland Policy, a AEP and the North American Waterfowl Management P Association for Municipal Districts and Counties, Waters Councils toward a) enhanced wetland education and b) m
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	Previously Imp Closed	lemented or	Alberta Wetland Policy (AWPI) Alberta Wetland Mitigation Directive (AWPI) The Term "Compensation" has been replaced with "Repl "money to replace wetlands".
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			 <u>Alberta Wetland Mitigation Directive</u> (AWPI) <u>Efficient Use of Land Tools Compendium</u> on private and <u>Integrated Land Management Tools Compendium</u> on pub A range of Minimization or Best/Beneficial Managem (operating ground rules and resource roads), transport A compendium of BMPs is being developed by Ducks EP is working to formalize/codify BMPs that will be of Practice.
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	GoA	Immediate			 Alberta Wetland Mitigation Directive (AWPI) N.B. The Provincial Wetland Restoration/Compensatifully rescinded in 2018, after grandfathering provision The Term "Compensation" has been replaced with "R
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			The previous 3:1 area-based approach has been augmented mechanism for knowledge-based decision making, as we wetland. Alberta Wetland Mitigation Directive (AWPI) Alberta Wetland Identification and Delineation Directive Alberta Wetland Assessment and Impact Report Directive Alberta Wetland Rapid Evaluation Tool - Actual – (ABW Alberta Wetland Rapid Evaluation Tool – Actual – (ABW
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			 In 2011, Environment and Parks undertook an ecosyst on the success of this pilot, as well as demonstrated ap United States (WESPUS), the department chose to put the province. As part of Policy development, stakeholders supported value to support regulatory decision making and estab pure area-based approach, replacement is based on a c function), and historical loss.
1.2.3	If successful, incorporate the option of a function- based approach into the revised Provincial Wetland Restoration/Compensation Guide.	GoA	Long-term			 Wetland function has been embedded within the wetla making, as well as wetland conservation and restoration Alberta Wetland Mitigation Directive (AWPI) Replacement implemented as a combined Area- and F Wetland Identification and Delineation Directive and
1.3.1	Explore a regulatory framework for mitigation	GoA	Medium-term	_		Wetland Conservation Offset Program and the related reg

ts from Latest Update new comments in track changes)

aration of the Alberta Wetland Policy and have been a key resource orm the basis for a multitude of operational tools and mechanisms that , and represent a significant driver in recent conversations between Plan, the Alberta Urban Municipalities Association, the Alberta ershed Stewardship Groups, and Watershed Planning and Advisory more broadly integrated wetland management and decision making.

placement" to focus on getting "replacement wetlands" and not

nd public lands (LUF) public lands (LUF) ement Practices is currently being applied (<u>agriculture</u>, forestry <u>ortation</u>, oil and gas, <u>peat operations</u>) cks Unlimited Canada. we directly referenced through regulatory authorizations and Codes of

ation Guide (2007) has been replaced by the Directive and will be ons have expired. "Replacement".

nted with a relative value (wetland function-based) system that offers a vell as a range of replacement ratios to reflect value of the individual

ve ive (WAIR) 3WRET-A) – White Area 3WRET-A) – Green Area

ystem services approach pilot for wetlands in southern Alberta. Based applicability of the Wetland Ecosystem Services Protocol for the pursue a wetland function-based approach to wetland management in

ted an area-based approach with the inclusion of relative wetland ablish wetland replacement requirements. As a result, rather than a a combination of physical area, relative wetland value (ecosystem

tland management system as a key component of regulatory decision ation initiatives.

I Function-based approach. Area is determined using the Alberta and function using the ABWRET-A White Area and Green Area Tool.

registry are under development. The wetland conservation offset

	banks as a compensation option for wetland loss and, if established under the appropriate legislative component, ensure these banks are appropriately regulated in law.				program is the pilot for the Conservation Offsets initiativ Wetland Regulation (under the provincial Water Act) is
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		 Alberta Wetland Restoration Directive sets out criter banking. Assurance to the system is not provided through apprauthorities, as defined by the Professional Regulatory. Similarly, no registry of approved restoration agents
1.3.3	If proceeding with mitigation banking, set up a monitoring system to support and help achieve the policy goal.	GoA	Medium-term		 Alberta Wetland Restoration Directive (Verification) A registry is under development to monitor wetland I Audit and tracking procedures have been developed t goal/outcomes.
1.3.4	Explore systems of trading wetland credits to provide mechanisms that reward stewardship actions on private land as appropriate.	GoA	Medium-term		 Wetland Conservation Offset Program and the related program is the pilot for the Conservation Offset Fram The Department continues to engage with Agricultur landowners to explore appropriate mechanisms for enservices Program.
1.3.5	Develop a repository of restoration opportunities.	GoA	Immediate		 Alberta Merged Wetland Inventory (AMWI) - A data augment the existing Inventory. Environment and Parks continues to work with a variestablishment of a program for- and prioritized list of
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		 A range of Minimization or Best/Beneficial Manager ground rules and resource roads), transportation, oil a Ducks Unlimited Canada (Alberta Boreal Office) is o EP is working with Alberta NAWMP to develop a pr sectors known to impact wetlands.
1.4.2	Provide guidelines on the best practices for restored, constructed and enhanced wetland design and monitoring for various landscapes.	GoA	Short-term		Wetlands Best Management Practices Workshop Wetland offset directives implemented (restoration) or u
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		 Various guidance pieces have been implemented or a Management System and for use with the Alberta We These include the ABWRET-A, Index of Biological
2.1.1	With stakeholders, develop a guidance framework for establishing watershed and regional wetland objectives.	GoA	Short-term		 Under development, in support of the broader Wetlan Regional plans – <u>specifically sub-regional and issue splanning</u>, and NAWMP partnership. EP has been actively engaged with AUMA, AAMDC mechanisms for the determination of wetland managements.
2.1.2	Ensure that a sound knowledge foundation supports and informs the objective-setting process, including inventory, watershed models and other predictive tools.	GoA	Medium-term		 Alberta Merged Wetland Inventory (continuous impr Watershed Management Planning (LUF) Alberta Wetland Rapid Evaluation Tool – Estimator Alberta Wetland Rapid Evaluation Tool – Predictor (
2.1.3	Examine how a watershed or water management plan developed under the provisions of the <i>Water</i> <i>Act</i> , or any future revisions of those plans, would recognize the Wetland Policy.	GoA, WPACs	Short-term		 As identified in Sections 3 and 4 of the Alberta Wetle components are bound by statutory plans and objecti Further work is required, to clarify the relationships I water/watershed management plans, and wetland pol the driver, nor a deciding factor. Watershed Management Planning The GoA has marked this as Implemented, but the W pending.
2.1.4	Improve access to provincial wetland inventory information to municipalities, industry, Watershed Planning and Advisory Councils, or other multi–	GoA	Immediate	Previously Implemented or Closed	Alberta Merged Wetland Inventory (subject to continuou Alberta Wetland Rapid Evaluation Tool – Estimate (AB • Environment and Parks is currently working through

ative is in progress (AWPI).

teria for anyone wanting to restore wetlands, including for mitigation

pproved bankers. Rather, it is enabled through eligible signing ory Organizations, operating in accordance with the Directive. the is required.

on) sets out the monitoring system.

nd banking projects from design to verification.

ed to support system accountability and enable tracking of the policy

ated Registry are under development. The wetland conservation offset ramework initiative.

ture and Forestry, Crop and Stock Sectors, as well as producers/private r encouraging/enabling stewardship (including the Alternative Land Use

lata layer for wetland restoration opportunities is being developed to

variety of key partners (municipalities, watersheds, etc.) toward t of- wetland replacement opportunities.

gement Practices are known to exist (agriculture, forestry (operating il and gas, peat operations).

is currently working to establish a registry of these.

project for the collection and review of available BMPs across all

under development (construction, enhancement, securement).

or are under development, in support of the overall Wetland Wetland Restoration, Construction, and Enhancement Directives. cal Integrity, and monitoring requirements expressed in directives.

land Management System. Led by Land Use Planning Framework -<u>e specific plans</u> Supported by WPACs, NGOs <u>Watershed Management</u>

DC, and individual municipalities toward development of municipal agement priorities.

for (ABWRET-E) White Area completed / Green Area in progress for (ABWRET-P) in progress

etland Mitigation Directive, the Policy and its associated regulatory ctives identified thereunder.

ps between municipal and inter-municipal plans, land-use plans, and policy. Although instrumental to the conversation, wetland policy is not

WPACs marked it as Pending. Therefor the recommendation remains

uous improvement) ABWRET-E) Igh the NAWMP partnership toward establishment of standards that will

	stakeholder groups, to use in the development of wetland objectives for watershed management and other planning processes.					inform government and others in the development, in inventories.
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	Implemented – as written	 The implementation team is currently exploring multi- objectives, including EP regional planners, municipal GoA - Alberta Wetland Mitigation Directive (AWPI) Supported by WPAC - Watershed Management Planners
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	Previously Imp Closed	lemented or	Alberta Wetland Policy Implementation Web Page
3.1.2	Revise and update "Alberta's Wetlands: A Law and Policy Guide" to incorporate the Alberta Wetland Policy.	GoA	Medium-term			2nd Edition completed February 2016 by Arlene Kwasni
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			Alberta Wetland Policy (WPB) Alberta Wetland Mitigation Directive (AWPI)
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			Alberta Wetland Policy, Implementation Plan 2 Phase Alberta Wetland Mitigation Directive
3.1.5		GoA	Immediate			 Alberta Wetland Mitigation Directive – reclamation of commitment to reclaim back to wetland, not to equiva Explicit guidance for peatland reclamation published
3.2.1	Build capacity in the regional regulatory approvals and inspection system to successfully implement the Alberta Wetland Policy.	GoA	Immediate			Extensive and ongoing AWP Training provided to AEP a and compliance) on Wetland directives, guides, processe available to staff.
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			 Any and all activities impacting wetlands in the Provi Policy Requirements. All GOA entities are required to follow the Alberta W The Departments of Agriculture and Forestry, Munici are knowledgeable of their responsibilities.
3.2.3	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			Regulators with both AEP and AER have been involved their respective processes. These include regulatory approved Water Act, Public Lands Act, and EPEA. Key tools inclu Assessment and Impact Report Directive (WAIR) and W
3.3.1		GoA	Short-term			 Municipal Government Act (MGA) is being moderniz address water issues/concerns, including treatment of Additional tools available to municipalities include: c beneficial management practices guide for new devel
3.3.2		GoA	Short-term			Extract from Modernized MGA direction "The new MGA creates a new type of reserve, called Con as wildlife corridors, significant tree stands or other envi- conserve. Municipalities will have to provide appropriate land will be set aside and protected instead of developed. lands deemed Environment Reserve, and tools to determine development."

integration, and ongoing enhancement of high-resolution wetland

ultiple avenues for development and delivery of wetland management pal authorities, and WPACs. PI) anning

niak, and supported by the Alberta NAWMP Partnership.

White Area first, Green Area 1 year later.

n only accepted if required under EPEA or PLA, and explicit ivalent land capability. ed in 2015.

P and AER operations (approvals, resource management (referrals), sses. Internal Wetland Administrative Procedures published and

ovince of Alberta are subject to the Water Act and associated Wetland

Wetland Policy regulatory requirements. hicipal Affairs, and Energy have engaged to ensure their stakeholders

ed in policy development and trained to integrate policy tools within provals, compliance/enforcement, and Resource Managers under the clude: Alberta Wetland Mitigation Directive, Alberta Wetland Wetland Administrative Procedure

rnized (completion 2017). EP staff is working with Municipal Affairs to of wetlands.

conservation easements and Stepping Back from the Water: A velopment near water bodies in Alberta's settled region

Conservation Reserve, to protect environmentally significant lands such nvironmentally significant features municipalities may wish to iate compensation to developers for Conservation Reserve, since the ed. The new Act will also provide clearer definitions and purposes for mine the reserve boundaries earlier in the planning process to help in

	Wetland Reserve, or Ecological Reserve dedication			
3.3.3	clause. 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	 Regular and ongoing engagement with municipal pa and individual municipalities. A NAWMP/Municipal/GOA collaborative "Guide to the second second
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	This is under active consideration, as part of the regional Extract from MGA Modernized MGA: "The current MC regional plans under the Alberta Land Stewardship Act or regulation, to create land-use policies for municipal plan Alberta 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	 Regular and ongoing engagement with municipal participal organizations/associations, and individual municipal A NAWMP/Municipal/GOA collaborative education progress for completion March 31, 2017
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	 Done during policy development. The Alberta Wetla Alberta does not govern Federal lands. Most significant protection/conservation program for Management Plan (NAWMP) Canada
3.3.7	Provide guidance that considers wetlands and mosquito abatement, health considerations, pesticide use and wetland drainage practices.	GoA	Medium-term	These pieces are variously in progress, but through other Municipalities; health conditions in conjunction with wa academia/research projects, and wetland drainage practic
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	NAWMP Partnership Education and Outreach Working Agriculture, Industry)
4.1.2	Continue to develop, update and deliver wetland education material for grades 5, 8 and 12 school curriculums.	GoA	Short-term	School wetland education programs continue; plans exist
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	 A NAWMP/Agriculture Producers/GOA(AEP/AAF) for completion March 31, 2017. Education project to be focused on compliance with r compliance. Identified the need for a tool for landown Need to shift public perspectives around drainage/con time.
4.1.4	Develop, communicate and share beneficial management practices for activities in and around wetlands.	GoA	Short-term	 Municipal: Stepping Back from the Water: A BENER DEVELOPMENT NEAR WATER BODIES IN ALE Agriculture: Environmental Beneficial Management EP is working with sectors to identify and codify BM approvals.
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	NAWMP Partnership Education and Outreach Network, Industry). The goal is to identify and share existing and r work.
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	 The work with Métis Settlements links with Municipal Green Area implementation. First Nations land falls under federal jurisdiction; GC First Nations are consulted when activities in wetland
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	 A NAWMP/Agriculture/GOA(AEP/AAF) collaborat ephemeral wetlands, is under development for compl A wetland fact sheet has been developed for agriculture
4.2.2	Using the social-based community marketing approach, incorporate education and communication	GoA	Immediate	Social based community marketing is not being const NAWMP education and awareness initiatives.

partners: AUMA, AAMDC, other municipal organizations/associations

to Municipal Wetland Conservation in Alberta" nearing completion

nal planning process.

AGA land-use policies will continue to be phased out of force as new et come into force. The MGA will provide the authority, through lanning matters that are not included in a regional plan under the

partners: AUMA, AAMDC, other municipal palities. ion and awareness project regarding regulatory compliance is in

tland Policy is reasonably aligned with federal policy. However,

for Wetlands in Canada is through North American Waterfowl

her delivery mechanisms: Mosquito abatement in conjunction with water quality initiatives; pesticide use in conjunction with stices with Alberta Agriculture and Forestry.

g Group, and targeted sub working groups (Public, Municipal,

ist to update materials as scheduled (continuous improvement).

F) collaborative education and awareness project is under development

h regulatory requirements with a goal reduce instances of nonwners and approvers to identify ephemerals. conservation remains. Change expected to occur incrementally over

EFICIAL MANAGEMENT PRACTICES GUIDE FOR NEW LBERTA'S SETTLED REGION nt Practices; Crops and wetland; Livestock and wetland BMPs that will be directly linked to conditions within regulatory

k, including networking groups (Public, Municipal, Agriculture, d new wetland knowledge and education work and avoid duplication of

ipal awareness and knowledge; this has been somewhat delayed by

GOA does not govern Federal lands. nds occur on Crown land.

rative education and awareness project, including the value of pletion March 31, 2017. Iltural producers and private landowners.

nsidered at this time. However, it may be used as part of the roll-out of

	materials on the value of ephemeral water bodies into education initiatives, where appropriate.			• Two key initiatives are currently set to examine the in agricultural producers and private landowners.
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	Municipal: Stepping Back from the Water: A beneficial in Alberta's settled region Agriculture: Environmental Beneficial Management Pra Up Stream Oil and Gas: Water Ministerial Regulation's needs.
4.2.4	Determine performance measures and annually review education initiatives to determine beneficial management practice adoption.	GoA	Long-term	Captured as part of long-term wetland policy monitoring improvement) components of the system.
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	 Ephemerals projects will be considered as part of the Immediate value and function of all wetlands (includ a number of pending research projects.
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	 Many incentives exist through Alberta Agriculture at Ducks Unlimited Canada (wetland restoration) and o EP will be working with partners, including municipa existing programs and opportunities, as well as evalued
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	Wetland Stewardship Grant Program added to AEP Stev
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	 Many incentives exist and have been developed throu Municipal Affairs (ALUS), Ducks Unlimited Canada occurring for all programs. Environment and Parks is working to establish a weth Framework, which will establish credit-based incention
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	Development of the Conservation Offsets Framework ar
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	 Given the regulatory context, the need for conservati applicable to securement of existing, at risk, high-val This will be further considered during development of construction) and related Guides.
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	 Included in the Alberta Wetland Policy – up to 10% measures, including research. Alberta Wetland Mitigation Directive – wetland rese Through the support of the Alberta Land Institute, a Version of the Alberta Land I
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	In progress and ongoing, as part of the Alberta Wetland and Parks has authority or influence.
6.1.1	Develop and fund a wetland research plan that identifies current research needs and priorities.	GoA	Short-term	A Wetland Research Strategy is under development thro available once the GOA Wetland In-Lieu Replacement A

e immediate value of wetlands (including ephemeral water bodies) to

al management practices guide for new development near water bodies

ractices including Crops and wetland; Livestock and wetland 's Codes of Practice, to be updated, in view of the policy and policy

ng, which enables the evaluation and adjustment (continuous

he Wetland Research Strategy. Priority to be established. uding ephemerals) to landowners to be more closely examined through

and Forestry programs (Growing Forward 2), Municipalities (ALUS), other partners.

ipalities and NAWMP to identify avenues for communication of luating new options and approaches for incentivizing stewardship.

ewardship Grants

rough Alberta Agriculture and Forestry programs (Growing Forward 2), da (wetland restoration) and other partners. Continuous improvement

etland restoration offset program through its Conservation Offset ntives for proactive wetland restoration in the province.

and wetland specific Wetland Restoration Offset Program

ation easements is considered relatively limited, and likely most value wetlands.

t of outstanding replacement Directives (securement, enhancement,

6 of wetland in lieu funds may be allocated to non-restorative

search may be funded from the In-Lieu Replacement account. a Wetland Research Strategy is under development.

d Policy Implementation process, and to the extent that Environment

rough the Alberta Land Institute. Some proportion of funding will be t Account 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	As items are identified they will be made available on
6.1.3	Promote research efforts to better understand effectiveness of restoration activities.	GoA	Medium-term	 Restoration effectiveness research will be considered. The Wetland Research Strategy is currently under descent strategy is a mean approvals.
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	Alberta Wetland Classification System
6.2.2	Communicate the classification system to stakeholders and use it in wetland inventories, landscape assessments and other tools.	GoA	Short-term	Available on the <u>Alberta Wetland Policy Implementati</u> communicated at training and outreach sessions.
6.3.1	Develop provincial wetland inventory data standards, including how frequently inventories will be repeated.	GoA	Immediate	The data and inventory standards conversation has bee EP, AF, Environment Canada, Ducks Unlimited, and A
6.3.2	Develop a seamless provincial wetland inventory of the distribution of wetland classes in Alberta.	GoA	Medium-term	Alberta Merged Wetland Inventory – Subject to contin
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	Alberta Merged Wetland Inventory Alberta Wetland Rapid Evaluation Tool – Estimator (A to continuous improvement. Available on the <u>Alberta Wetland Policy Implementati</u> Stage Subject to continuous improvement
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 inventory database.	GoA	Medium-term	AEP and AER operations have been involved with the <i>EPEA</i>). Key tools include: <u>Alberta Wetland Mitigation</u> (WAIR) and Wetland Administrative Procedure. Wetla the Alberta Merged Wetland Inventory (AMWI) databative databative for the Alberta Merged Wetland Inventory (AMWI) databative for the Alberta Merged Wetland Inventory (Alberta Merged Wetland Inventory (Alber
6.3.5	Classify and incorporate into the provincial wetland inventory any restored, constructed and enhanced wetlands.	GoA	Long-term	Restored and constructed wetland inventory data is bei Merged Wetland Inventory (AMWI) database.
6.4.1	Develop a standardized methodology, appropriate indicators, and guidance material for conducting individual and landscape-level wetland health assessments.	GoA	Short-term	 Directives and tools have been developed: Alberta Wetland Identification and Delineation Directive; A White Area and Green Area. A wetland health assessment tool for restored wetla All tools are subject to continuous improvement and
6.4.2	Where appropriate, develop long-term wetland monitoring programs for assessing wetland health.	GoA	Medium-term	Under development, to support both the Wetland Mana recently hired by the Environmental Monitoring and Se
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</i> <i>the Watershed</i> reporting and planning processes.	GoA, WPACs	Long-term	 To be executed as part of the ongoing policy evaluation information captured through EMSD. Under development by WPACs, with direction from Supported by WPAC NGO's Watershed Manageme Likely to comprise a component of Lake Watershed
6.4.4	Improve understanding of the relationship of wetlands to ground and surface water quality and supply.	GoA	Short-term	 NAWMP Partnership Education & Outreach Network Industry). The goal is to identify and share wetland DUC and EP to undertake additional research proje wetlands and their functions at a more localized sca
6.5.1	Develop criteria, an accreditation process and a registry to promote the development of Wetland	GoA	Short-term	To be termed "Wetland Replacement Agent" Wetland Replacement Agents cease to exist as of April

the Alberta Wetland Policy Implementation web page

ed as part of the Wetland Research Strategy. Priority to be established. development.

as of testing the success of restoration projects linked to regulatory

on web page, under the Wetland Assessment Stage and regularly

en kicked off by Alberta NAWMP partnership and currently includes ABMI.

uous improvement

<u>NBWRET-E)</u> – White Area available, Green Area in progress – Subject

on web page, under the Wetland Planning and Legislative Alignment

integration of the Policy into Approvals (*Water Act, Public Lands Act,* <u>Directive</u>, <u>Alberta Wetland Assessment and Impact Report Directive</u> and inventory data are being submitted for eventual incorporation with pase.

ing submitted and stored for eventual incorporation with the Alberta

Wetland Assessment and Impact Report Directive (WAIR); Alberta Alberta Wetland Rapid Evaluation Tool - Actual (ABWRET-A) for the

ands is under consideration. Id refinement.

agement System and broader policy evaluation. A wetland scientist was cience Division to oversee the Wetland Monitoring Program.

ation process, as supported by regulatory data and inventory/monitoring

m GOA

ent Planning

Management Policy, to be developed in the near future.

ork, including networking groups (Public, Municipal, Agriculture, l knowledge and education, including water quality and supply. ects in the near future that will provide additional understanding of ale.

2017. Instead, projects will be executed on a contract or grant basis,

		I	
	Restoration and Construction Agencies.		
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
6.5.3	Encourage research, development and continuous improvement of restoration, construction and enhancement techniques.	GoA	Medium-term
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
6.5.5	Develop monitoring protocols for constructed and restored wetlands for various landscapes.	GoA	Medium-term
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
6.6.1	Encourage post-secondary institutions to provide opportunities for undergraduate and graduate students to develop knowledge and understanding of wetland functions and processes.	GoA	Medium-term
6.6.2	Develop, facilitate and promote the use of professional educational opportunities.	GoA	Medium-term
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
7.1.2	Where appropriate, investigate using statutory and policy tools to designate wetlands of exceptional value for protection.	GoA	Immediate
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
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
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
7.1.6	Where appropriate, purchase or lease lands and	GoA	Medium-term

whereby any wetland replacement project must be overseen and authorized by a practicing professional. Standards and competencies for authorization on replacement projects will be administered by 10 professional organizations -Professional Practice Standard for Wetland Science, Design and Engineering Ongoing engagement with all interested stakeholders. Alberta Wetland Restoration Directive recently completed. Construction Directive in progress. Enhancement Directive will follow. These will be available on the Alberta Wetland Policy Implementation web page upon completion. Many projects commenced with approval of the Alberta Wetland Policy. The Wetland Research Strategy, under development, will further encourage such research and development. Priority of research projects will need to be established to focus research in needed areas. As part of the Wetland Management System and the Wetland Offset Program, Wetland Restoration, Construction, Enhancement, and Securement Guides are planned to complement the Wetland Restoration, Construction, Enhancement and Securement Directives. Wetlands Best Management Practices Workshop Compendium or resource list of BMPs under development by Ducks Unlimited Canada. As part of the Wetland Management System and the Wetland Offset Program, a Wetland Monitoring Guide is planned. Alberta Transportation has piloted monitoring on wetlands constructed from borrow pits. Clear and explicit guidelines for wetland restoration/construction/enhancement are a key deliverable of the provincial Wetland Management System and the Wetland Offset Program. EP is committed to developing BMPs and Codes of Practice for a range of activities impacting wetlands in the Province. DUC is currently piloting a post-secondary wetland course through academic institutions in the province. Additional engagement with stakeholders is taking place through the Alberta NAWMP Partnership. The Competencies identified by the 10 professional organizations participating in Professional Practice Standard for Wetland Science, Design and Engineering may form the basis for future education focus. EP is working with DUC and NAWMP to advance wetland education on multiple fronts, including opportunities for professionals. Competencies required for wetland science will be administered by 10 professional organizations - Professional Practice Standard for Wetland Science, Design and Engineering. Implementation of these competencies is expected to promote the establishment of more professional development opportunities for practitioners in the province. EP is working to elaborate existing tools to support staff and partners (municipal, WPAC, WSG) in identifying wetlands of exceptional value. Wetland conservation/protection is a key priority of the provincial policy, and will require the contribution of multiple players to need to be identified and designated locally and regionally. Engagement locally and regionally is ongoing through regional plans, watershed organizations, and municipalities and associations. As identified in Section 3 (bullets 3-6) and 4 of the Alberta Wetland Mitigation Directive. EP is working with departmental elements and key external partners (e.g., municipalities) toward enabling and informing the use of existing tools and legislation (e.g., Municipal Government Act, Alberta Land Stewardship Act) in wetland conservation/protection. As identified in Section 3 (bullets 1-3) and 4 of the Alberta Wetland Mitigation Directive. Both the provincial wetland inventory and the relative wetland value estimator (ABWRET-E) are subject to continuous improvement, with the expectation that wetlands and wetland areas of high function/value will eventually be identifiable on the basis of remotely acquired information. This will help drive the conservation/protection conversation. Training has been provided to public lands officers on wetland avoidance and conservation. This is ultimately in the jurisdiction of the municipality, as enabled under the Municipal Government Act. EP is working with municipalities to develop the tools that will help municipal partners make key decisions around wetland conservation/protection, and to create the system for translation of those decisions into the provincial wetland management program. As identified in Section 3 (bullet 6) of the Alberta Wetland Mitigation Directive. EP will be working with land trusts and the Alberta Association for Conservation Offsets to develop a directive for wetland securement, once directives for construction and enhancement have been finalized and implemented.

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Conservation of exceptional areas is being pursued as part of the EP mandate. However, these plans are comprehensive area,

	designate them as appropriate to protect wetlands of			not wetland specific.
	exceptional value.			Parallel with the Policy, The Beaver Hills Initiative resul
	exceptional value.			
				19, 2016.
717	Develop guidelines for appropriate use of low-	GoA	Medium-term	To be pursued as part of the wetland securement directive
/ • 1 • /	impact activities (bird-watching, gathering natural	Son	Wiedrum term	
	foods, etc.) on wetlands of exceptional value,			
	including when water is absent.			

sulted in the area being designated as a UNESCO Biosphere on March

tive.