Risk, Rigour and Demonstration: How Science Can Address Policy Needs

Grassland Carbon Workshop

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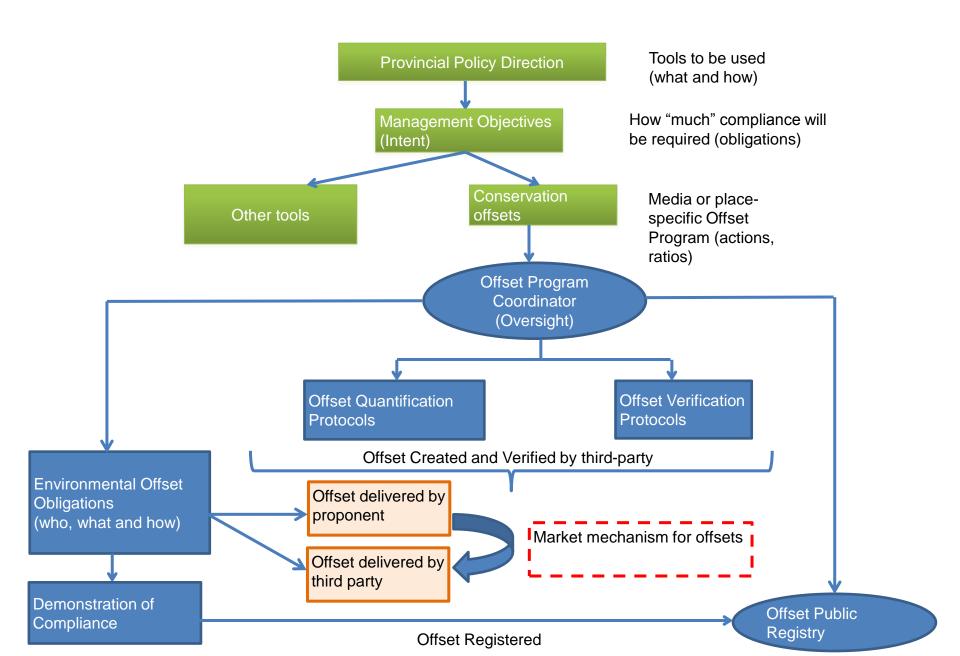
Policy Context

- Need for additional tools/approaches to address resource management issues
 - Conservation offset: measureable outcomes that result from actions designed to counteract significant impacts
 - Land Use Framework and Alberta Land Stewardship Act expanded the potential use of offset and intent to cover different media
 - Carbon management Climate Change and Emission
 Management Act and Regulations predates the Framework
 but provides a useful regulatory architecture for
 conservation offset

Policy Need

- Link to policy objectives
- Meet regulatory quality
 - Verifiable
 - Sufficiently measurable
 - audit and record keeping

Regulatory Architecture



Principles

- Integration offset are aligned with resource management objectives
- Transparency public reporting of oversight and accountability
- Place based offsets reflect management outcomes and priorities
- Continuous improvement regular review and update of the framework
- Cost effective offset provide cost effective opportunities towards meeting objective
- Stackable offset may be designed to meet multiple objectives

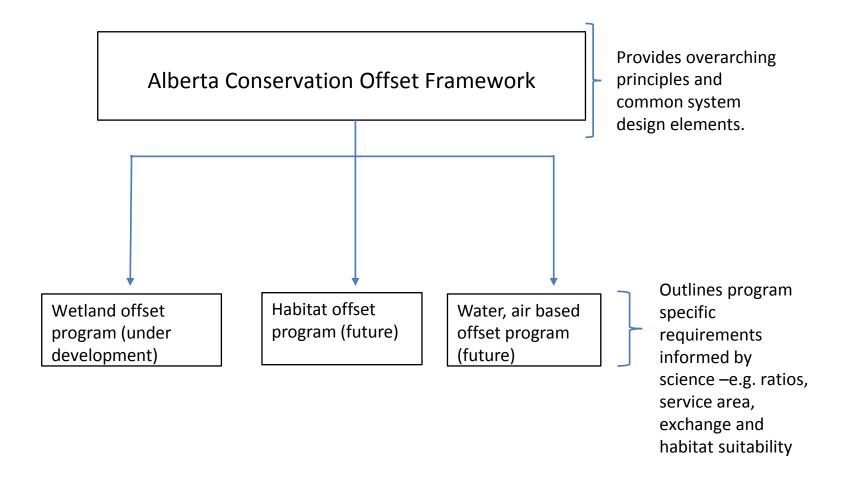
Offset Design Characteristics

- *Impact* What is the impact to be offset
- Baseline and Eligible Actions (Additionality) What type of actions count as offset
- Equivalency— relationship between the impact and offset
- Offset Service Area- defines the geographic scale over which impacts and offsets are accounted
- Temporal Scale and Duration when and for how long an offset is required
- Monitoring tracking of offset success and program monitoring

Common elements – Wetland offset example

Program Element	Wetland Offset Program
Policy Direction	Wetland Policy Outcome: Minimize wetland loss or degradation. Approach: An impact to permanently occurring wetland requires an authorization and a replacement.
Management Objective	Value based ratios define replacement requirements – 8:1 for impact to A value wetland, 1:1 for D value wetland
Specification of obligation	Attached to specific authorization that generated the impact.
Demonstration of obligation compliance	 Provide an offset Pay in lieu – payments are collected into a Fund administered by ESRD.
Offset Program Coordinator	ESRD to oversee this program.
Offset protocols	Under development
Offset Public Registry	Options being assessed

Conservation Offset Path



Thank youQuestions?

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