

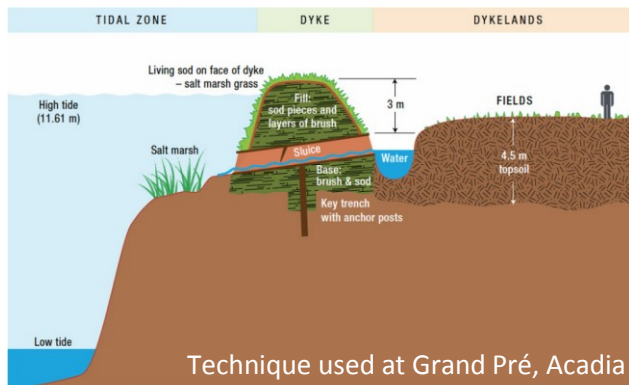
# Acadieology: Reinventing Acadia's Water Management Methods

Using *Aboiteaux*, *Dikes*, and *Polders* ("ADP") to capture more upland rainfall before it storms to the sea  
Creating new jobs, public procurement, and other ecological and economic opportunities across the world



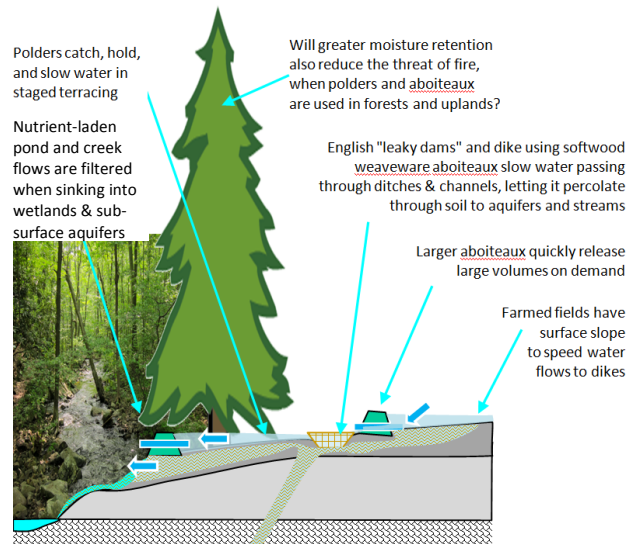
## A. THE ANCIENT ACADIAN TECHNIQUE

Using the ancient technique, here in reverse, to help nature slow surface flows in upland areas.



(Figure 2-25) Illustration of a cross-section of the dykelands at Grand Pré, including the tidal range, salt marsh, aboiteau system and fields.

## B. COULD THIS SAFELY SLOW WATERSHED RUN-OFF?



## C. CONCEPT for THE WORLD: NEW TRADES

### New industry with thousands of new jobs

- Local knowledge and skills for maintenance
- Summer jobs for thousands of students

### Trades' Certifications & Certificates

- Master Upland Polderer
- Upland Polderer Supervisor
- Apprentice Polderer
- License: Prov. Polder, Dike, & Aboiteaux Builder
- License: Prov. Polder, Dike, & Aboiteaux Inspector
- License: Prov. Softwood Weaveware Production
- License: Upland Watershed Run-Off Management

### Concept: Mission-driven Technical Training

- Technical College Training programs
- Canada: Regional Programs:
  - Atlantic
  - Quebec
  - Ontario
  - Prairies/Pacific

### Evangelizing / "Evangeline"-izing\*

- Teach nationally and internationally
- Cross-cultural low-impact eco-tech exchanges

## D. CELEBRATING OUR COMMON HERITAGE

### Celebrate ancient Acadian/French/Dutch heritage

- A method to build national capacity
- A new international 'water capture dialogue'



Canada



The Netherlands



Louisiana



France

## E. USEFUL FOR MANY COUNTRIES?

### Research is needed to assess effectiveness/risks

### Softwood Off-Cuts: Useful in dike weaveware?

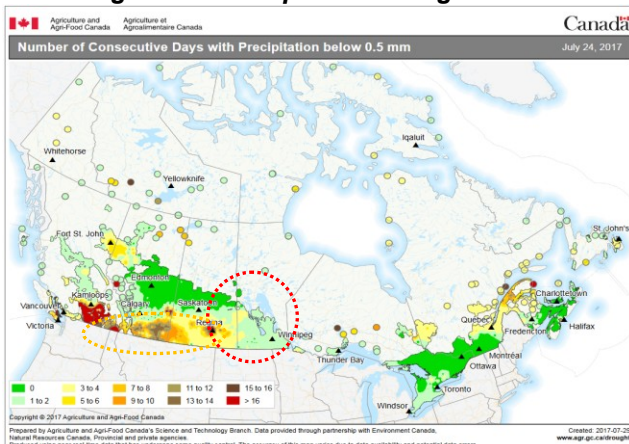
"Weaveware" = natural materials refashioned into a baffle laid in the heart of the barrier

- Restrict use to domestic weave applications
- Domestic softwood off-cuts should not be treated
- Banned from export to protect foreign forests from any cross-contamination risks
- Off-cuts should not be charged a disposal fee as this is recycling into a useful ecological product

\* Note the tourism opportunities that parallel what *Anne of Green Gables* has done for PEI, Canada

## E. IMPLICATIONS

### Directing waters to aquifer recharge



Method is adaptable to a wide variety of landscapes  
ADP materials will be locally site-sensitive

### Concept: Forest Fire Prevention Tax Credit (FFPTC)

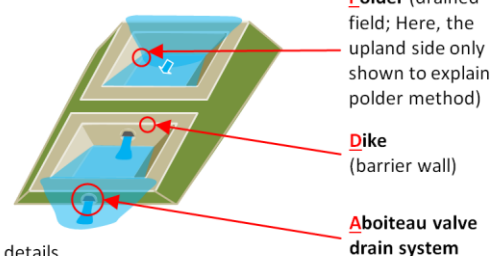
- Annual Federal Tax Credit to re-use woodland ignition sources
  - Obtained by property owners in provinces and territories
  - Designed to produce moisture retention and fire breaks
  - FFPTC = Base Calculation + Certified Proof of Work Performed
- Note: Would not include controlled burns for fire management

### Concept: Aquifer Recharge Tax Credit (ARTC)

- Annual Federal Tax Credit for measureable contributions
- Aquifer recharge is the service provided by the landowner
- Service provided to public bodies (Federal Crown, First Nations)
- Assigned to property owners in provinces and territories
- ARTC = Base Calculation + Certified Proof of Work Performed

### Infrastructure Spending

Here, Dike Height might range from several metres down to as low as 10cm or less



Angled view exaggerated to show details

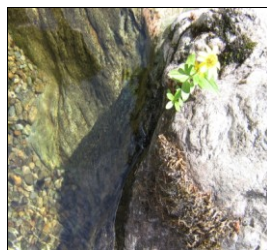
- ADP concept reinvents the historic Acadia technique
- Will the solution concept aid cities and recharge regional aquifers?
- May solve a threatening, clear and present danger to water supply
- Creating thousands of jobs and certification at many labour points
- Training expertise that is exportable to neighbouring regions
- Training expertise for international students and agencies

### Precipitation Water Capture & Protection

- Could this enlist landowners to protect vital water resources?
- Could thousands of local owners obtain multi-decade contracts?
- Or, ADP tax credit contracts assigned to property as an easement?
- Protectable domestic supply chain method to protect watersheds?
- New income for millions of small farms and property owners?

### Concept: "Acadieology" Surface Waterflow Maintenance

- Weaveware = steady procurement?
- Each Province, Region, or State creates Weaveware contracts?
- Producing steady domestic demand for manufactured Weaveware?
- New domestic supply to public and private domestic markets?
- Locally ecologically restricted to protect local flora & fauna?



### Public Water Assets - Concept Note for Canada

- Water would not be redefined as private property
- Easement defined as not able to be owned by foreigners
- FFPC and ARC income not claimable by foreigners
- Easement Duty continues in perpetuity, but Tax Credit income reverts to Crown when a foreign-controlled corporation acquires control of real property receiving drainage and/or discharge
- Foreign executives and shareholders simultaneously swear allegiance to Her Majesty the Queen in Right of Canada ("Canada") and forswear allegiance to any foreign sovereign and/or State.

### Sources:

#### ADP History

<http://www.landscapeofgrandpre.ca/the-acadians-and-the-creation-of-the-dykeland-1680ndash1755.html>

<https://sencanada.ca/en/senators/poirier-rose-may/> re: Government media release (2010)

Hatvany, Matthew G., The Origins of the Acadian Aboiteau: An Environmental-Historical Geography of the Northeast, Historical Geography, Volume 30 (2002): 121-37 <https://ejournals.unm.edu/index.php/historicalgeography/article/download/2983/2462> cf. Matthew G. Hatvany: Assistant Professor, Geography, Université Laval: Sainte-Foy, QC <https://2ulaval.academia.edu/MatthewHatvany>

#### Climate

<http://www.agr.gc.ca/DW-GS/current-actuelles.aspx?lang=eng&jsEnabled=true>

#### Photo: "Cowichan Water" - Wildflower beside Water

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