IMPROVING COMPLIANCE, CAPACITY, AND COMMUNICATION

The Wek'èezhìi Land and Water Board's Approach with Community Water Licences

Mark Cliffe-Phillips & Rebecca R. Chouinard 2010 NTWWA Conference, AGM, and Operators Workshop



Yellowknife, NT

Outline

- Who we are and what we do
- WLWB and Community Water Licences
- The Community Training Program
 - Compliance
 - Capacity Building
 - Communication



Wek'èezhìi Land and Water Board

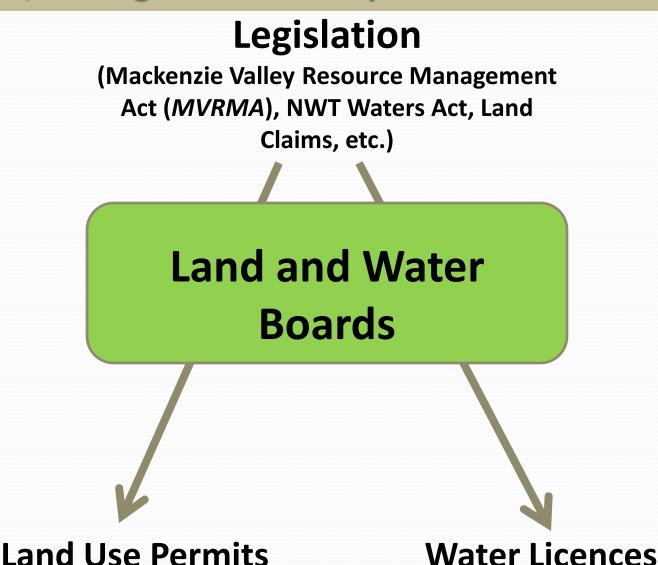
- The purpose of the Wek'èezhìi Land and Water Board (WLWB) is to regulate the use of land and water and the deposit of waste throughout the Wek'èezhìi Management Area.
- Providing for the conservation, development and utilization of land and water resources to provide the optimum benefit for all Canadians and, in particular, for residents of Wek'èezhìi.



The Wek'èezhìi Management Area



Boards regulate the use of land and water, and the deposit of waste, through issuance of permits and licences



Wek'èezhìi Land and Water Board











WLWB Mandate – Community Water Licences

- No Land Use Permits
- Water Use Quantity Only
- Not Drinking Water Quality
- Solid Waste Disposal
- Sewage Disposal



WLWB Toolbox – Community Water Licences

- Terms and Conditions
- Management Plans
- Enforcement and Compliance
- Annual Reporting
- Sampling and Monitoring Surveillance Network Programs (SNP)

Community Water Licences - Challenges

- Communities without water licences
- Management Plans
- Enforcement and Compliance
- Annual Reporting
- Sampling and Monitoring Surveillance Network Programs (SNP)
- Capacity!!!

Community Water Licences Challenges – What to do?

- Licence all Communities
- Management Plans Guidelines
- Enforcement and Compliance
- Annual Reporting Templates

Sampling and Monitoring – Surveillance Network

Programs (SNP)

Capacity!!!





Training Objectives

COMPLIANCE



Water Licence/SNP Requirements

CAPACITY



Sampling/Reporting Protocols

COMMUNICATION



Communities,Organizations, Partners

This talk will....

•Highlight some examples over the last year (WHAT)

•Highlight the training approaches and methods we use (HOW)

WHAT

Train communities to comply with Water Licence requirements

- Terms &Conditions
- •Surveillance Network Program



Example 1: Wekweeti



Wekweeti solid waste facility

STATUS: Non-Compliant with Water Licence

- SNP Sampling not conducted
- No Annual Report on File
- No Management Plans on File

The Wek'èezhìi Management Area



Wekweeti outflow to Snare Lake

Wekweeti

September 7, 2010

- ½ Day Classroom
 Discussion
- ½ Day Field SNP Sampling

October 14, 2010

½ Community Sampling

November 25, 2010

Results & Reporting

Wekweeti wetland





Who Was There?

- Chief Charlie Football
- Community SAO
- Foreman and Field Staff
- INAC Waters, Inspectors
- GNWT MACA
- WLWB
- Interested community members
- Absent: EC, Ecology North





Wekweeti solid waste facility

We focussed on sampling procedures





Results & Reporting

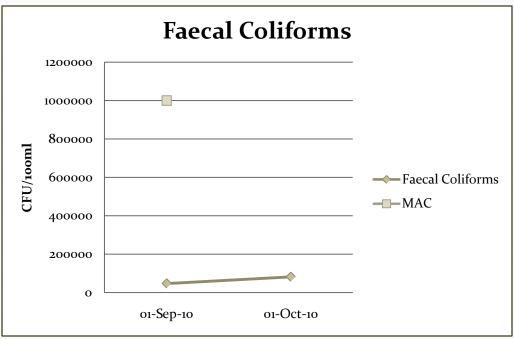
- Annual Report Template
- Sampling Results Template

Parameters		Sample Date:	07-Sep-10	14-Oct-10
	Max. Av. Conc.			
Suspended Soilds	240		126	36
(mg/L)				
Oil & Grease	5		Incomplete	5
(mg/L)				
BOD5	260		Incomplete	38
(mg/L)				
Fecal Coliforms	1000000		48000	83000
(CFU/100ml)				
рН	6 to 9		6.67	6.86
Total Mercury			<0.01	<0.01
(ug/L)				
Ammonia			3.94	14.3
(mg/L)				

Results...

Graphing Trends





Results...

Community Communication



Sewage Outflow	Compliance
TSS	
BOD	
pН	
Faecal Col.	
Oil & Grease	

Example 2: Behchoko



Edzo sewage cell outflow channel Photo Credit: Mary Kelly

STATUS: Non-Compliant with Water Licence

- SNP Sampling not conducted
- No Recent Annual Report on File
- Missing Management Plans

Rae decant Photo Credit: Mary Kelly

Behchoko

October 15, 2010

½ Day Field SNP Sampling

November 4, 2010

- ½ Day Classroom
 Discussion
- Results & Reporting





Who Was There?

- Community SAO & Lands Officer
- Foreman, Waters/Works staff
- EC
- INAC Waters, Inspectors
- GNWT MACA
- Ecology North
- WLWB
- (updated Chief Council Mtg)



Rae water treatment facility



We focussed on management plans (O&M Plan)



Rae solid waste facility



Edzo sewage cell Photo Credit: Mary Kelly

Results & Reporting

- Annual Report Template
- Sampling Results Template
- Will aid in graphing trends
- Will aid in community communication

TRAINING METHODS

Cater content to the community



Sampling Procedures, Wekweeti



Solid Waste Facility, Behchoko

TRAINING METHODS

- Easy to follow for current and new staff
- Visual Field Guide, Templates

Order Bottles From Taiga Lab



Taiga Lab: 867-669-2788

Get Your Vaccinations

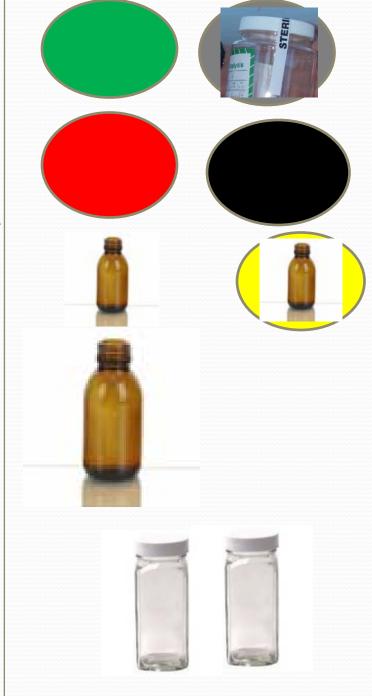


- Hepatitis A&B
- Tetanus

SNP 0041-R8: Runoff from solid waste disposal facility



Once a month from June – October

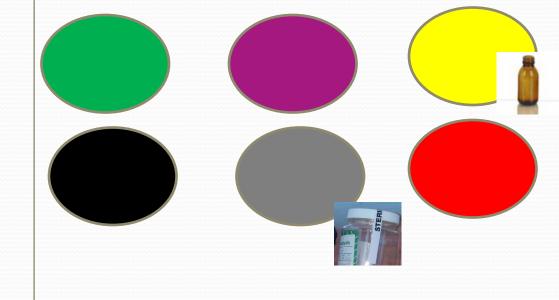


May require multiple samples, such as those collected in October.

Behchoko

SNP 001-3: Snare Lake wetland outflow





SNP 001-4: Domestic solid waste runoff





If there is no water pooling at the domestic solid waste site, take one from the wetland

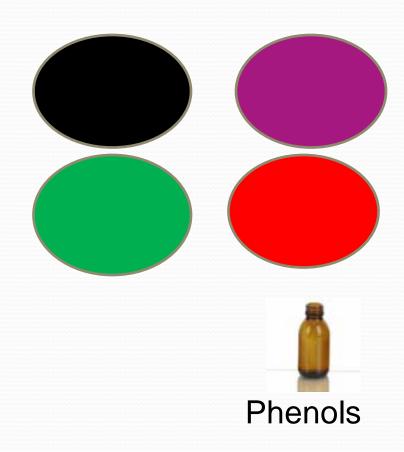
Procedures

- •Rinse X 3
- •Fill to top









Next Steps:

Whati

Gameti





Are We Meeting Our Objectives?

COMPLIANCE



Are communities starting to comply?

CAPACITY



Are communities sampling & reporting?

COMMUNICATION



Are partnerships developing?

QUESTIONS?

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