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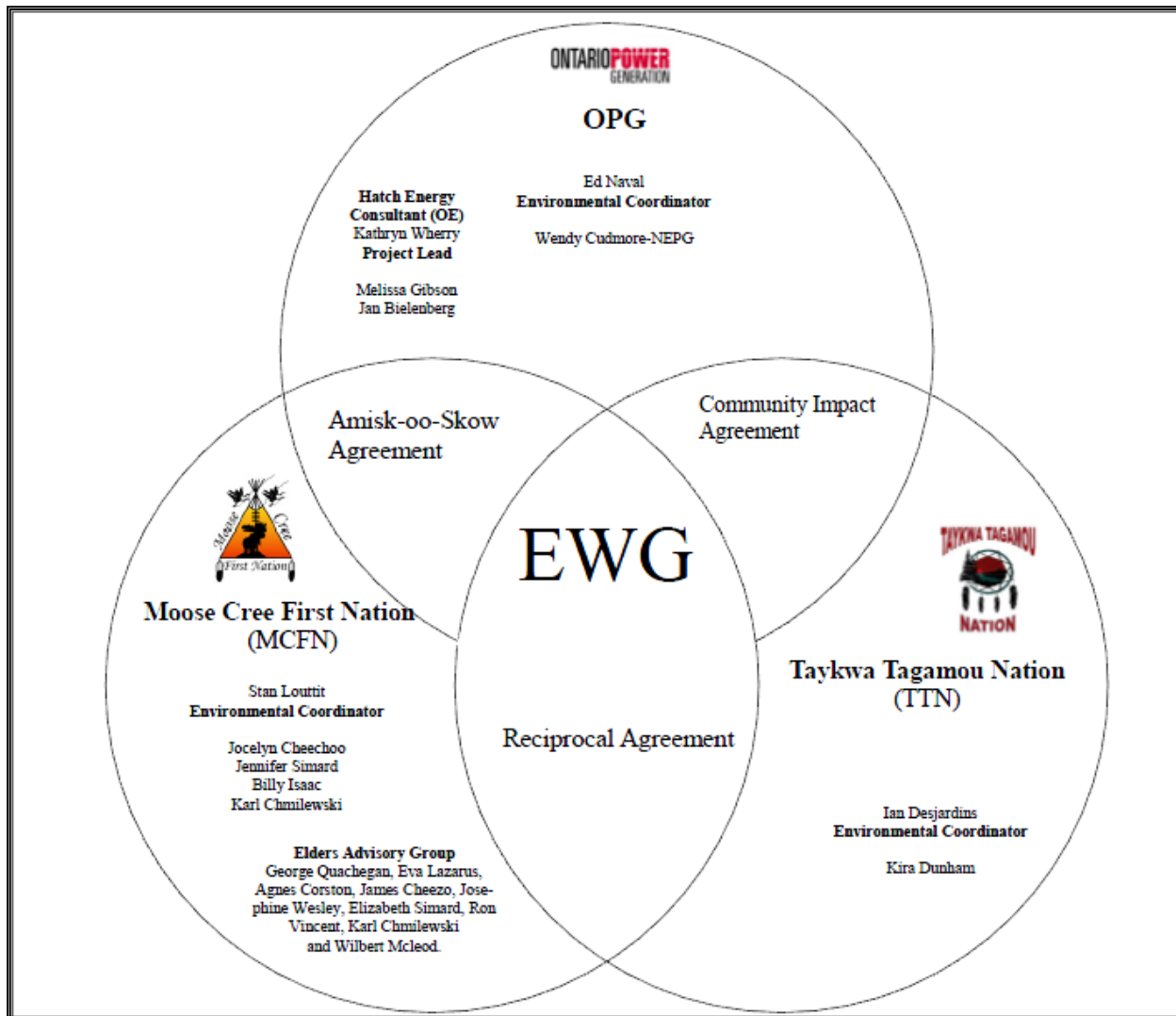
## **Environmental Working Group**

### **Monthly Report**

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**May 2015**

## ENVIRONMENTAL WORKING GROUP Relationship Organizational Chart



- Weekly Environmental Working Group (EWG) and monthly EWG/Kiewit – Alarie, a Partnership (KAP) meetings.
  - The EWG review its Action Items that include priority permit reviews, and deliverables to the Mattagami Extensions Coordinating Committee (MECC).
  - KAP gives EWG a monthly construction update and discusses any upcoming issues.
  - Specific items that were discussed are below.
- During the month of May the EWG developed the justification for expanding the study area of the Environmental Effects Monitoring Plan for the MECC.
- The OPG member of the EWG also worked with Hatch and KAP to update the Rock Aggregate Management Plan to include rock/aggregate used for New Post Creek, and rock/aggregate set aside for Villeneuve and OPG's Dam Safety.
- During the month of May the EWG continued to work collaboratively to integrate Traditional Ecological Knowledge into the Monitoring Plan, and on writing pieces for the Cultural Text.
- The MECC held a meeting on May 13, in Timmins. OPG member of the EWG presented the results of the LiDAR analysis of data from 2007 and 2013, and the rehabilitation plans for Harman and Kipling. The EWG also presented the justification for expanding the study area of the Monitoring Plan. The MECC also held an in-camera session to discuss options for a new Chair.
- MCFN members of the EWG developed the study area rationale for the Monitoring Plan.
- MCFN members of the EWG /Elder inspected site for woody debris (fish habitat) placement, and proposed recommendation;
- MCFN members of the EWG organized a MCFN Elders Advisor Group meeting on May 25<sup>th</sup> to plan a meeting in Kapaskasing and a site visit to view the site rehabilitation activity. Tentative date is June 29th-30th, 2015.
- Members of the EWG continued to work on the writing submissions for the People of the Moose River Basin (Cultural Text required under EA T&C 2c).
- Inclusion of a First Nation perspective on the Cost Benefit Analysis of Mitigating and Reducing Spill in Adam Creek. MCFN have completed their draft, and TTN continues to work on their draft.
- The FN members of the EWG continue to make arrangements with John Pollock, SENES, to go to Manitoulin Island in the summer to assess the state of the organization of the collection of Cree artifacts (as per EA Term and Condition 2e).

**ACTIONS TO BE COMPLETED in 2015**

		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
EWG Face to Face Meetings													
EWG present to the MECC the result of its review of the draft "Cost Benefit Analysis of Mitigating and Reducing Adam Creek Spill" (Condition 4(c) and (e) of EA T&Cs) by Hatch.													TBD
EWG present to the MECC the results and recommendations of periodic re-evaluations (Condition 10 of EA T&Cs).													
EA T&C 3a: Visual and Aesthetic Impacts	EWG present to the MECC "Environmental Effects Monitoring Plan, Lower Mattagami Development"												
EA T&C 4b: Hydrology, Fish and Aquatic Habitat													
EA T&C 5b: Terrestrial Ecology	EWG present to the MECC "TEK - Environmental Effects Monitoring Plan, Lower Mattagami Development"												TBD
EA T&C 6: Erosion and Sedimentology													
EA T&C 7: Mercury													
EA T&C 14: Permit Review and Compliance Monitoring Protocol													
EA T&C 3a: Visual and Aesthetic Impacts	EWG present to the MECC the results and recommendations of Little Long Rehabilitation Plan												
EA T&C 5d: Terrestrial Ecology	EWG present to the MECC the results and recommendations of Harmon Rehabilitation Plan												
	EWG present to the MECC the results and recommendations of Kipling Rehabilitation Plan												
	EWG present to the MECC the results and recommendations of Smoky Falls Rehabilitation Plan												
EWG presents to the MECC a draft of the 'Peoples of the Moose River Basin', the cultural text outlined in EA T&C 2c.													
EWG to look into having a list prepared of Cree artifacts within the Moose River Basin as per EA Term and Condition 2e.													
Completed:  Pending:  *Additional work still required to fulfill EA Term and Condition													

**Construction****Little Long**

- KAP and Andritz continued to work on closing out punch list items.
- KAP and Hatch continued their red line drawing review as part of final completion activities.
- Little Long Unit 3 (Figure 1) was declared in service on January 19, 2014.



Figure 1: Little Long Unit 3 June 2014

**Harmon**

- KAP and Andritz continued to work on closing out punch list items.
- KAP and Hatch continued their red line drawing review as part of final completion activities.
- Harmon (Figure 2) was declared in-service on June 3<sup>rd</sup>, 2014.



Figure 2: Harmon overview, January 2015



**Kipling**

- KAP and Andritz continued to work on closing out punch list items.
- KAP and Hatch continued their red line drawing review as part of final completion activities.
- Kipling was declared in-service on December 17, 2014 (Figure 3).



Figure 3: Kipling overview January 2015

**Smoky Falls**

- Architectural work continued to advance throughout the powerhouse, including:
  - Fire proofing various structures throughout the plant; and,
  - Light fixtures in a number of locations throughout the powerhouse.
- Grouting operations were completed.
- KAP and Alstom continued to work on closing out punch list items.
- Construction on all the generating units are complete (Figure 4):
  - Unit 1: declared in-service on September 30, 2014.
  - Unit 2: declared in-service on October 9, 2014.
  - Unit 3: declared in-service on December 2, 2014.
- Original SF Decommissioning:
  - Diver orientation was completed and divers mobilized to site. They completed a survey and high pressure washing of the intake slots.
  - All trashrack sections were removed.
  - Labourers cut exposed rebar from the widened slots to ensure the caissons would pass through them.



Figure 4: Smoky Falls overview January 2015

### Demobilization

- The Demobilization crew demobilized the following temporary structures or equipment:
  - Batch Plant 2 disassembly (including packaging for shipment);
  - Packaging the crusher for shipment off-site;
  - Hub office trailers;
  - The megadome (see Figure 5); and
  - Various dorms at the permanent camp.



Figure 5: Megadome demobilization

## Monthly Summary – May 2015

SPILLS			
No. of Spills:		7 Spill Reports 506-512 (see Figure 6 for LMRP spills breakdown).	
Classification of Spills:		<u>KAP Project Classification</u> Minor – 7   Moderate – 0   Major – 0   To Water - 0 <u>MOE Classification</u> Non-reportable - 7 Reportable to MOE <ul style="list-style-type: none"><li>- Class C – 0</li><li>- Class B – 0</li><li>- Class A – 0</li></ul>	
Reportable Spills			
No.	Quantity /Product Spilled	Spill Site	Reason for being Reportable
n/a	n/a	n/a	n/a
KAP Project Classification Minor: ≤ 10L Moderate: Between 10L and 100L Major: ≥100L To Water: Any amount is reportable to the MOE (See Figure 7: KAP Spills Response Flowchart)			MOE Classification (see Reportable and Non-reportable Spills definition below) Non-reportable: < 100L Reportable to MOE <ul style="list-style-type: none"><li>• Class C - Less Serious</li><li>• Class B – Serious</li><li>• Class A – Very Serious</li></ul>
Sediment Pond Exceedance of Effluent Objective			
No. of Exceedance days recorded	Location	Mitigation Measures used	
n/a			



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## **Spills Response**

When **any spill** occurs on site, KAPs spill response process is to be followed (Figure 7). This includes notification of the Supervisor and KAPs Environmental Department, and an assessment of the severity of the spill. Regardless of the quantity, clean-up measures are implemented for **every spill** using spill kits that are available throughout the site (materials used for clean-up and any contaminated soil are removed from the site). A spill report is then prepared for **each spill that occurs** which outlines the location, type, severity and quantity of the spill, in addition to details on how the spill occurred, how it was cleaned up and measures implemented on how the spill could be avoided for the future. This report is sent out to several OPG and Hatch representatives as well as all EWG members.

### **Reportable and Non-reportable Spills:**

Section 92 of the *Environmental Protection Act* (EPA) requires that **a spill** be reported forthwith to the Ministry of the Environment. The definition of a spill in the EPA (subsection 91.1) is: a discharge,

- (a) into the natural environment,
- (b) from or out of a structure, vehicle or other container, and
- (c) that is abnormal in quality (e.g. the product spilled) or quantity (e.g. the amount spilled) in light of all the circumstances of the discharge.

Spills that are exempt from reporting to the Ministry of the Environment (ie. non-reportable) are discharges that don't fall within the 'spill' definition or, are exempted under EPA Regulation 675/98, *Classification and Exemptions of Spills and Reporting of Discharges*. This includes (not limited to) Class VI – Motor Vehicle exemptions, which exempts reporting of spills that are less than 100 L of fluid from a motor vehicle.

Subsection 30 .2 of the *Ontario Water Resources Act*, requires that the discharge of any material of any kind into water that is not in the normal course of events (e.g. regardless of quantity or quality) be reported to the Ministry of the Environment.

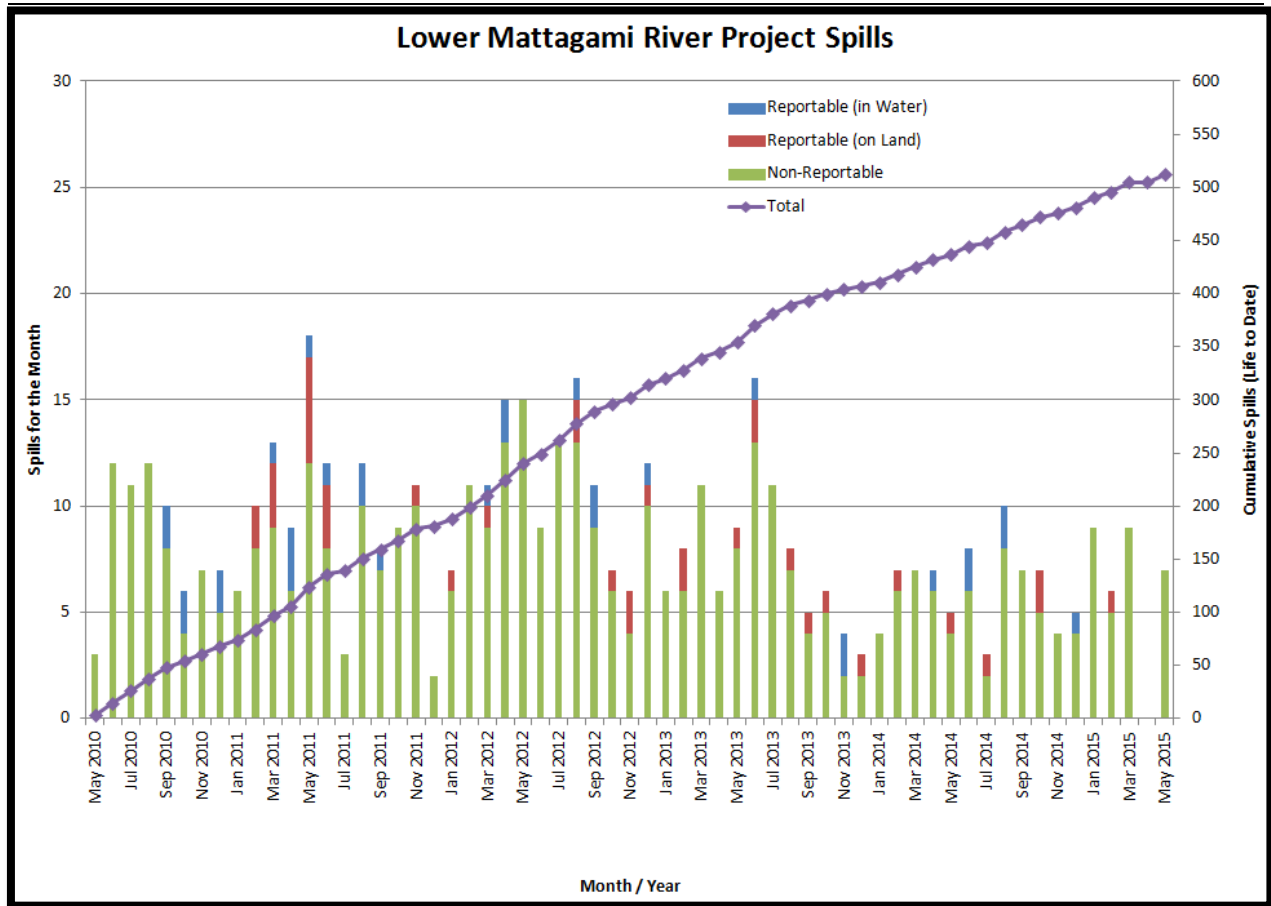


Figure 6: Lower Mattagami River Project spills

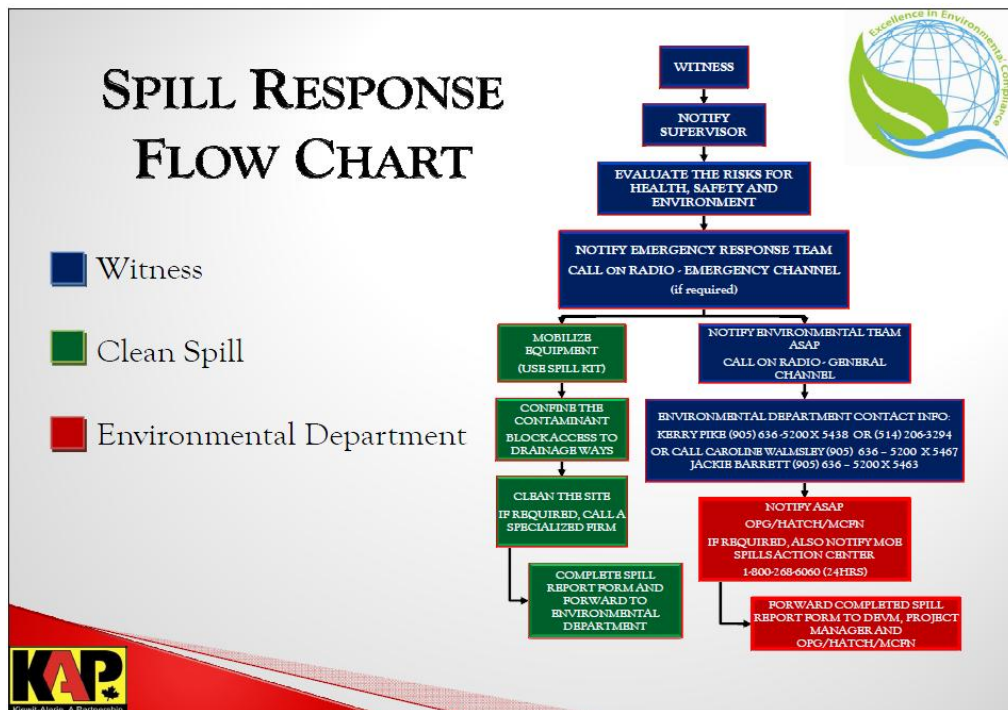

















































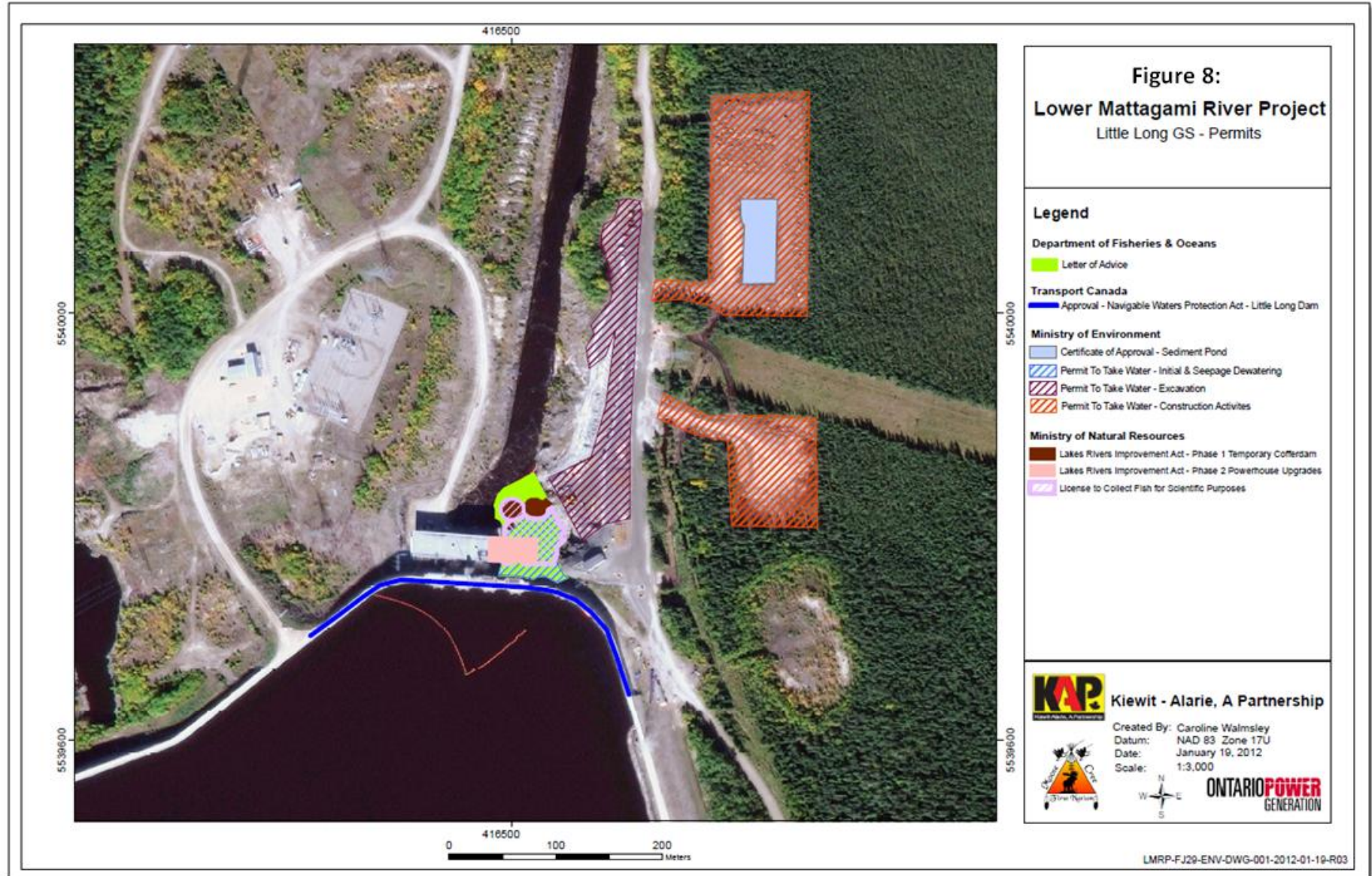
Figure 7: KAP Spills Response Flowchart

**Monthly Permit and Approval Review Table**

No.	PERMIT AND/OR APPROVAL REVIEW	Reviewed by EWG	Submitted to KAP
-	0	0	0

**Provincial Environmental Assessment Term and Condition (EA T&C)**  
**Reports Review and Environmental Audits Table**

No.	Report or Audit	Applicable EA T&C	Reviewed or Under Review by EWG	Submitted to KAP	Submitted to MECC	Passed by the MECC
16	Rock Aggregate Management Plan	24				-
15	SF Decommissioning Plan	11				-
14	KAP Kipling Site Rehabilitation Plan.	3a and 5				-
13	KAP Harmon Site Rehabilitation Plan.	3a and 5				-
12	Cost Benefit Analysis of Mitigating and Reducing Spill in Adam Creek	4c		n/a	-	-
11	Mercury in Fish Flesh Summary Report	4b and 7a		n/a		-
10	Fish Habitat Assessment Report	4b		n/a		-
9	Terrestrial Habitat Restoration Downstream of Kipling GS	5b		n/a	-	-
8	Draft Environmental Effects Monitoring Plan	3a, 4b, 5b, 6, 7 and 14		n/a		-
7	KAP Little Long Site Rehabilitation Plan.	3a and 5				
6	Operation Overview Report	4a		n/a		
5	Waste Management Plan	19				
4	Noise Control Plan	18				
3	The Interim Measures Agreement as it relates to EA Term and Condition 14c (Permit Review and Compliance Monitoring Protocol)	14c				
2	2013 Environmental Audit	14				
1	2012 Environmental Audit	14				





**Figure 9:**  
**Lower Mattagami River Project**  
Harmon GS - Permits

#### Legend

##### Department of Fisheries & Oceans


 Letter of Advice

##### Transport Canada

 Navigable Waters Protection Act - Temporary Bridge

 Navigable Waters Protection Act - Harmon Dam


##### Ministry of Environment


 Amended - Certificate of Approval - Sediment Pond


 Permit To Take Water - Dewatering

##### Ministry of Natural Resources

 Lakes Rivers Improvement Act - Phase 1A Marine Access Pad

 Lakes River Improvement Act - Phase 1B - Temporary Cofferdam

 Lakes River Improvement Act - Phase 2 Powerhouse Upgrades

 License To Collect Fish for Scientific Purposes



#### Kiewit - Alarie, A Partnership

Created By: Caroline Walmsley

Datum: Zone 17U

Date: January 19, 2012

Scale: 1: 5,500



**ONTARIO POWER**  
GENERATION

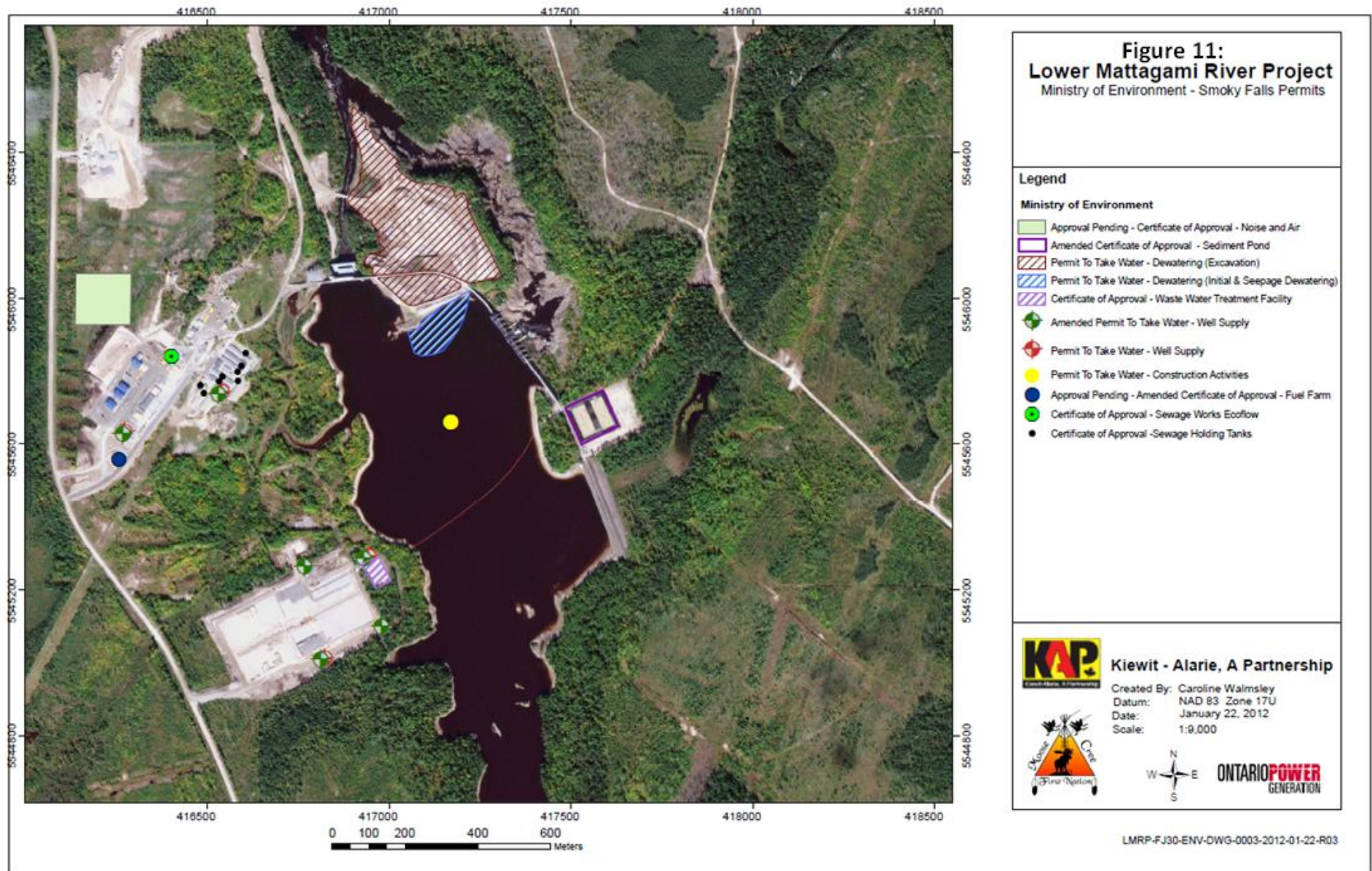
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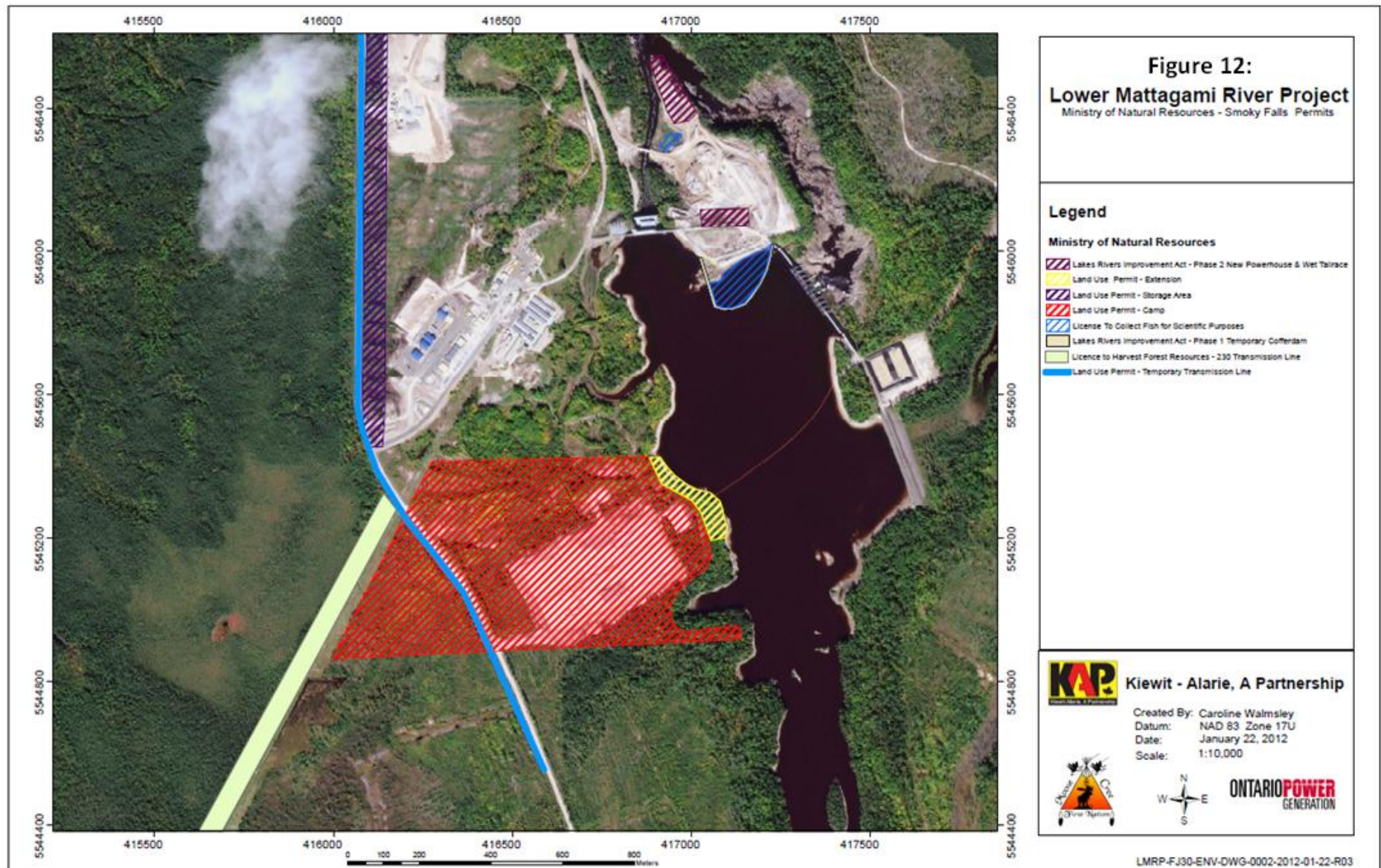




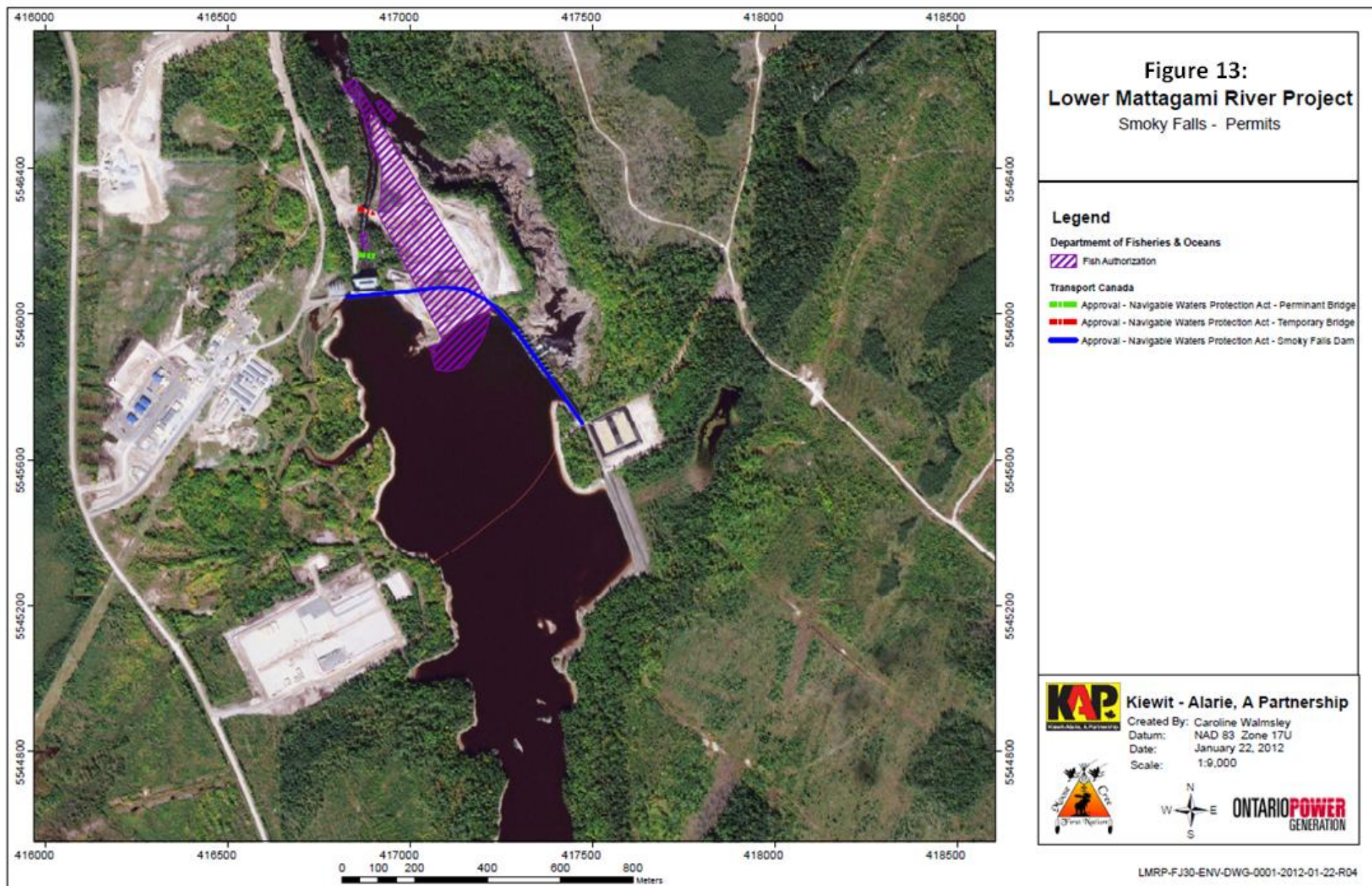












**Issues and Concerns**

- MCFN members of the EWG were concerned with the timing of KAP cleanup of the trash/pieces of boom in headponds on the edges of shoreline.

Action Required: The EWG follow-up with KAP ensuring that trash/pieces of boom in headponds on the edges of shoreline are adequately cleaned up in a timely manner.