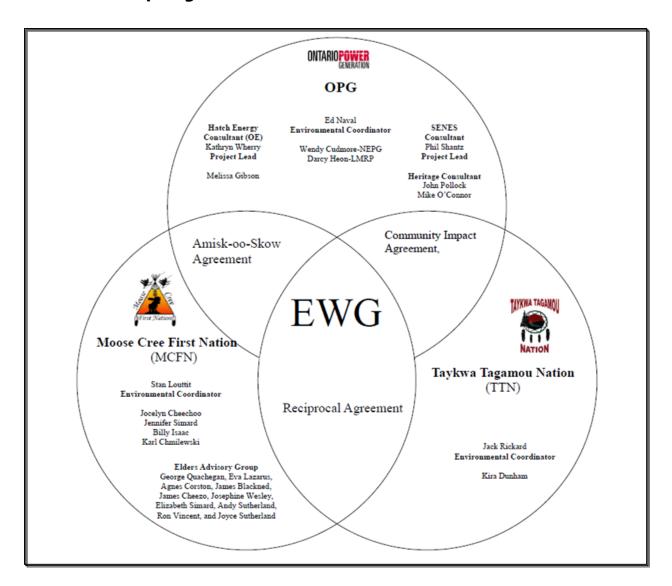


Environmental Working Group

Monthly Report

March 2012

ENVIRONMENTAL WORKING GROUPRelationship Organizational Chart



- Weekly Environmental Working Group (EWG) and 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 construction up date every week and discusses any upcoming issues and/or urgent permit reviews.
 - > Specific items that were discussed are below.
- Revision of Cost Benefit Analysis of Mitigating and Reducing Spill in Adam Creek based on further EWG comments. MCFN has
 completed a questionnaire and is currently conducting community interviews. TTN has prepared its questionnaire and will be
 conducting community interviews.
- Review and revisions of Environmental Effects Monitoring Workshop Report by ESSA, Hatch and OPG.
- Review of the Fish Habitat Assessment Report and Mercury in Fish Flesh Summary Report intended to fulfill EA Term and Condition 4b.
- Review of KAPs Waste Management Plan and the LMRP domestic waste disposal documentation intended to fulfill EA Term and Condition 19.
- Ongoing coordination of historical text and map required for condition 2c.
- Communication and preparation for KAP's construction activities for the start of the fish window (April 1, 2012).

ACTIONS TO BE COMPLETED in 2012

ACTIONS TO BE COL	VIII EE I	LD 111 2	.012									
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
EA Terms and Conditions Environmental Compliance Plan – EWG Review and												
Submission to MECC.												
EWG Environnemental Due Diligence Audit #2												
EWG present to the MECC the result of its review of the LMRP "Operations												
Report" (Condition 4(a) of EA T&Cs).												
EWG present to the MECC the result of its review of the "Fish Habitat			Date to be determined									
Assessment Report", and "Baseline Fish Methyl Mercury Report" (Condition 4b.												
of EA T&Cs) by Hatch.												
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.												
EWG present to the MECC the "Waste Management Plan" (EA T&C 19).												
EWG present to the MECC "The Noise Protocol Plan" (Condition 18 of EA T&Cs).												
EWG present to the MECC "Environmental Monitoring Plan, Lower Mattagami												
Development" (EA T&C 14).												
EWG present to the MECC the "Erosion Monitoring Plan" (EA T&C 6).												

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
EWG present to the MECC the "Evaluation of the Need to Conduct Terrestrial Habitat Restoration Downstream of Kipling" (EA T&C 5).												
Draft of Traditional Ecological Knowledge in relation to the Lower Mattagami												
River Project.												
EWG present to the MECC the results and recommendations of periodic re-												
evaluations (Condition 10 of EA T&Cs).												

Construction Little Long

- Concrete work is progressing well, with 1,438 m3 of concrete poured in the powerhouse and intake areas. Work continues to advance at an accelerated pace despite occasional cold weather.
- Rebar and form work continues to progress at a good pace.
- The Unit 3 stay ring was installed.
- Electrical systems (light, heat and alarms) were removed from the east wall of the existing powerhouse.
- Work on the pit liner (to be installed on top of the stay ring) is progressing (Figure 1).



Figure 1: Formwork and stay ring at install at Little Long
Powerhouse

Harmon

- Prefabricated curved forms for the draft tube are now assembled.
- 1,257 m3 of concrete was poured this month, 148 m3 in the intake and 1,109 m3 in the powerhouse (Figure 2).
- Rebar and form work for the next intake and powerhouse pours are advancing.



Figure 2: Pouring at Harmon

Kipling

- Cell #2 grout curtain drilling has started now that backfill operations are complete.
- The installation and grouting of post-tensioned anchors in Cofferdam Cell #3 is complete.
- Shore tie-in work continues, frames, sheet piles, rockfill, sand and tremie concrete have all been placed.
- Issues around freshet appear to have passed and construction operations were not affected, though KAP continues to monitor the situation.
- Work on the cofferdam arc cells is progressing, the downstream template for arc cell between Cells 1 and 2 is in place and sheet pile installation will start shortly (Figure 3).



Figure 3: Sand Backfill at the Kipling cofferdam

Smoky Falls

- Concrete pours in the service bay, powerhouse, and intake areas continued, with a total of 2,644 m3 of concrete poured in March (Figure 4).
- There are twenty four other pours in total with work under way (rebar and form work) at the end of the month, and more being planned for on a daily basis.
- Work continues on the reconstruction of the Smoky Falls Unit 2 / Unit 3 bullnose. Installation of form work and rebar installations are progressing. Hoarding was removed in the intake area at the end of the month.
- Work to connect the existing dam to the new West gravity dam has started, as has foundation clearing for the East gravity dam.
- Prefabricated curved draft tube form sections for Unit 2 have been installed and the forms for Unit 1 are more than half complete at month-end.



Figure 4: Draft tube pour at Smoky falls

Monthly Summary – March 2012

SPILL	.S	10111	any Summary Water 2							
	No. of Spills: 11; Spill Reports 200-210 (see Figure 6 for LMRP spills									
110. 0	n Spins.		breakdown).	· · · · · · · · · · · · · · · · · · ·						
Class	ification of	Snills	Project Classification							
Classification of Spills:			Minor – 9 Moderate – 0 Major – 1 To Water - 1							
Willion - 5 Woderate - 6 Wajor - 1 10 Water - 1										
	MOE Classification									
			Non-reportable - 9							
			Reportable to MOE							
			- Class C – 2							
			- Class B – 0							
_			- Class A – 0							
керо	rtable Spill	<u>S</u>								
No.	Quantity ,	Product Spilled	Spill Site	Reason for being Reportable						
	450 L/Dies	el Fuel	Road from Harmon to	Quantity of spill on land						
1			Smoky Falls wash out area, to							
the Batch Plant.										
Unknown/Sediment Laden			Kipling Crane Pad	The Smoky Falls sediment pond						
	Water			was above the effluent objective of 30NTU and effluent limit of						
				25mg/L TSS. The increase in the						
2	2			NTU and TSS levels was due to						
				site prep washing that took						
				place in Group 3 of the Intake,						
				as well warmer temperatures						
				and heavy rain that occurred.						
Project Classification (KAP)				MOE Classification						
Minor: ≤ 10L				Non-reportable: < 100L						
Moderate: Between 10L and 100L				Reportable to MOE						
Major: ≥100L				 Class C - Less Serious 						
To Water: Any amount is reportable to the MOE (See Figure 7: KAP Spills Response Flowchart)				 Class B – Serious 						
(See	rigure 7: K	Ar Spills Kespons	Class A – Very Serious							
Sediment Pond Exceedance of Effluent Objective (>15mg/L)										
ſ	easures used									
	eedance									
days	recorded									
With the warmer temperatures there is an increas										
	3		the pond and the bubblers are working against the settling							
(Ma	rch 9-11)	Smoky Falls	effect. To correct this, the bubble	. •						
dur				during the night when temperatures drop and are shut off						
			during the day.							

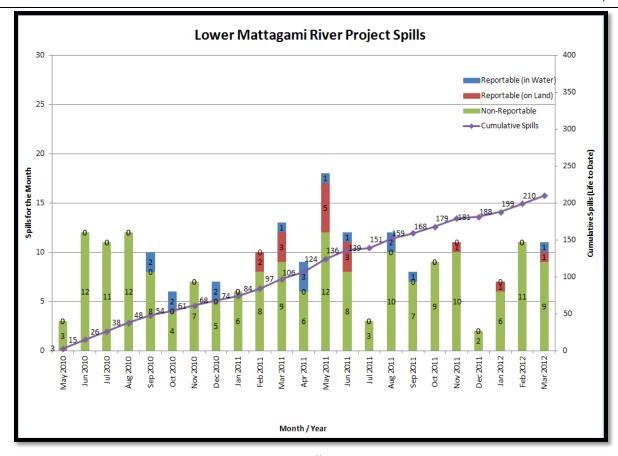


Figure 6: Lower Mattagami River Project spills

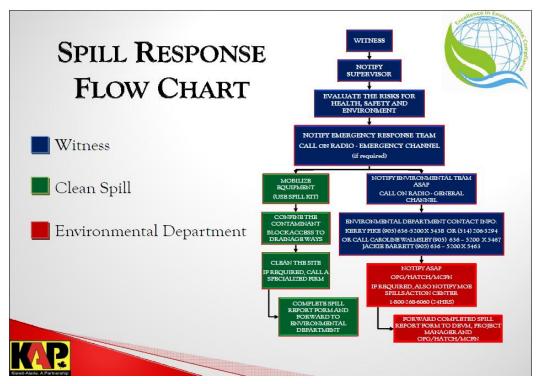
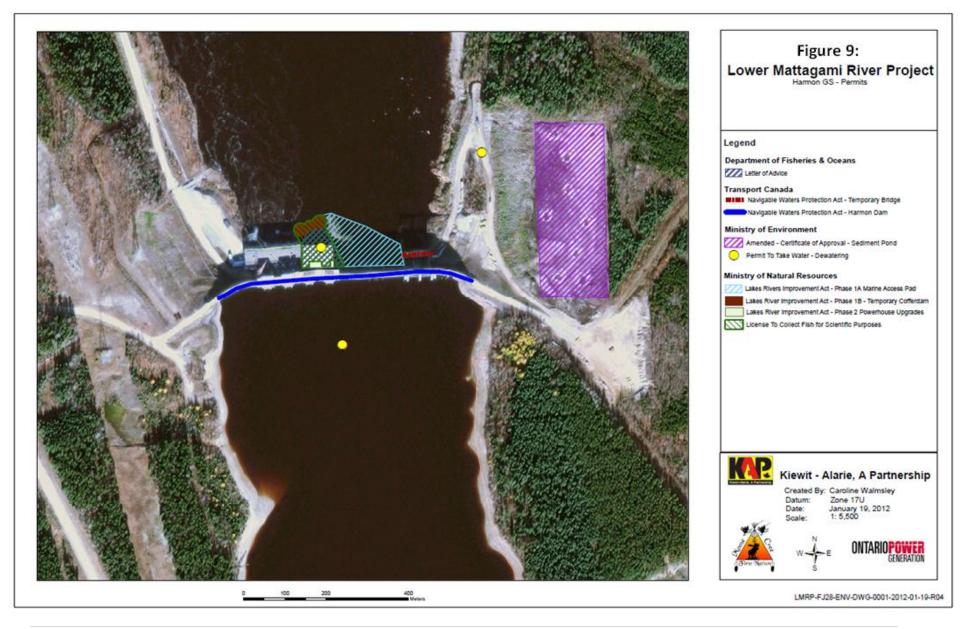
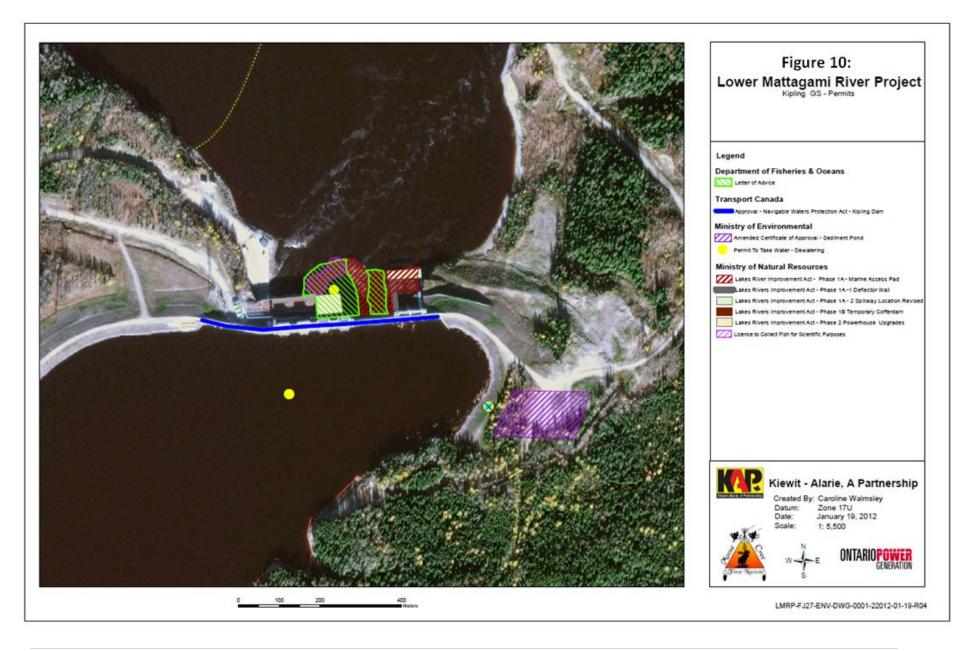


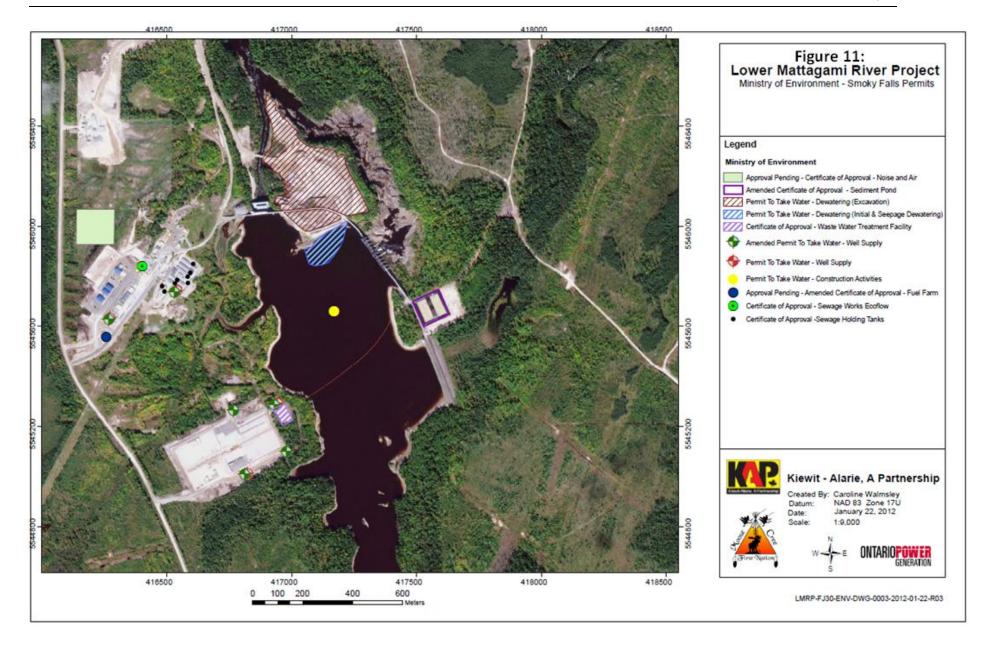
Figure 7: KAP Spills Response Flowchart

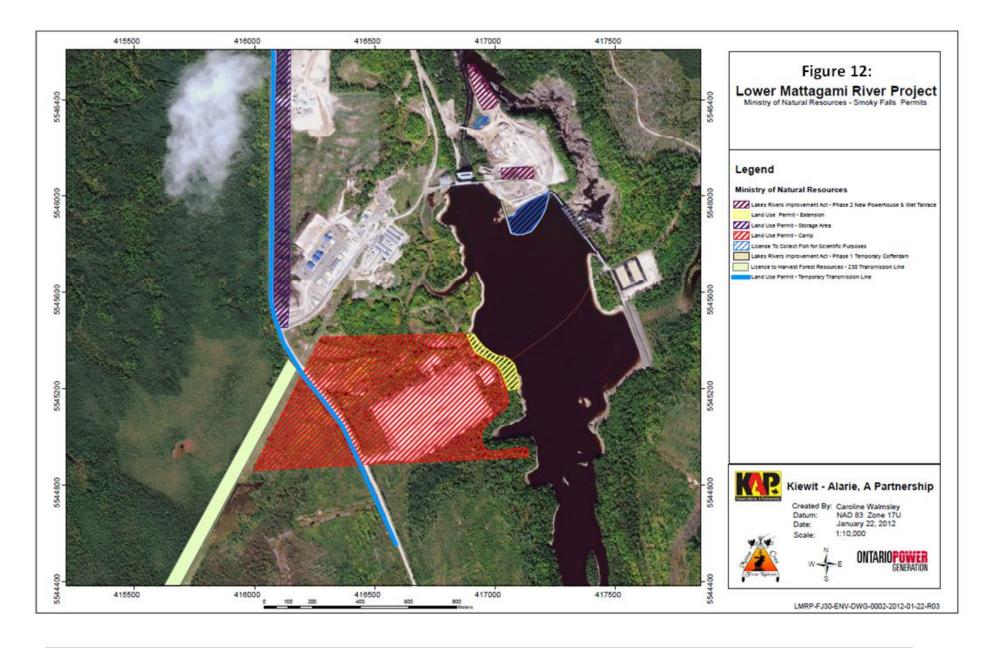
PERMIT AND APPI	ROVAL REVIEW	V						
No. Reviewed:	0	List:						
No. Sent to KAP:	0	List:						
Reports Review								
No. Reviewed for KAP	0	List:						
No. Sent to KAP	0	List:						
No. Reviewed for MECC	3	List:	 On-going: Cost Benefit Analysis of Mitigating and Reducing Spill in Adam Creek. Mercury in Fish Flesh Summary Report. Fish Habitat Assessment Report 					
No. Review Completed	1	List:	Operation Overview Report.					
REQUESTS FOR INFORMATION (RFIs)								
No. Reviewed:	0	List:	n/a					
No. Sent to KAP:	0	List:	n/a					
See figures 8 to 13	below for site	location of the	e permits that have been or are pending approval.					

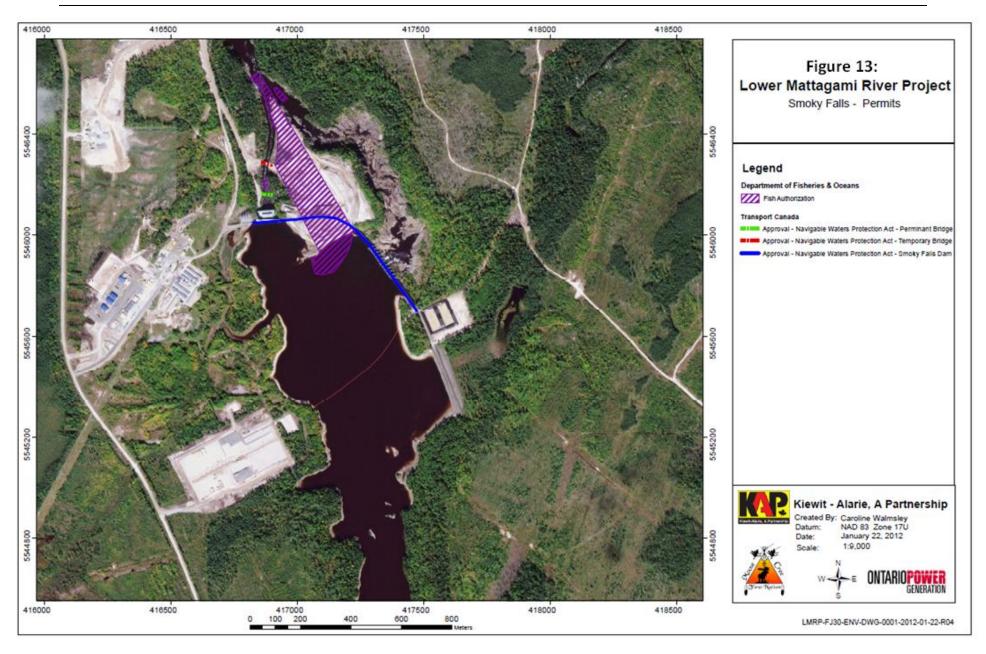












Issues and Concerns

• The EWG expressed concerns over the sediment effluent exceedances at the Smoky Falls sediment pond.

Action Required: EWG to get clarification from KAP on cause and mitigation for sediment effluent exceedances.

• MCFN members of the EWG expressed concerns with the state of the fence surrounding the MCFN Cultural Heritage site.

Action Required: EWG to see if KAP can reinforce the fence.