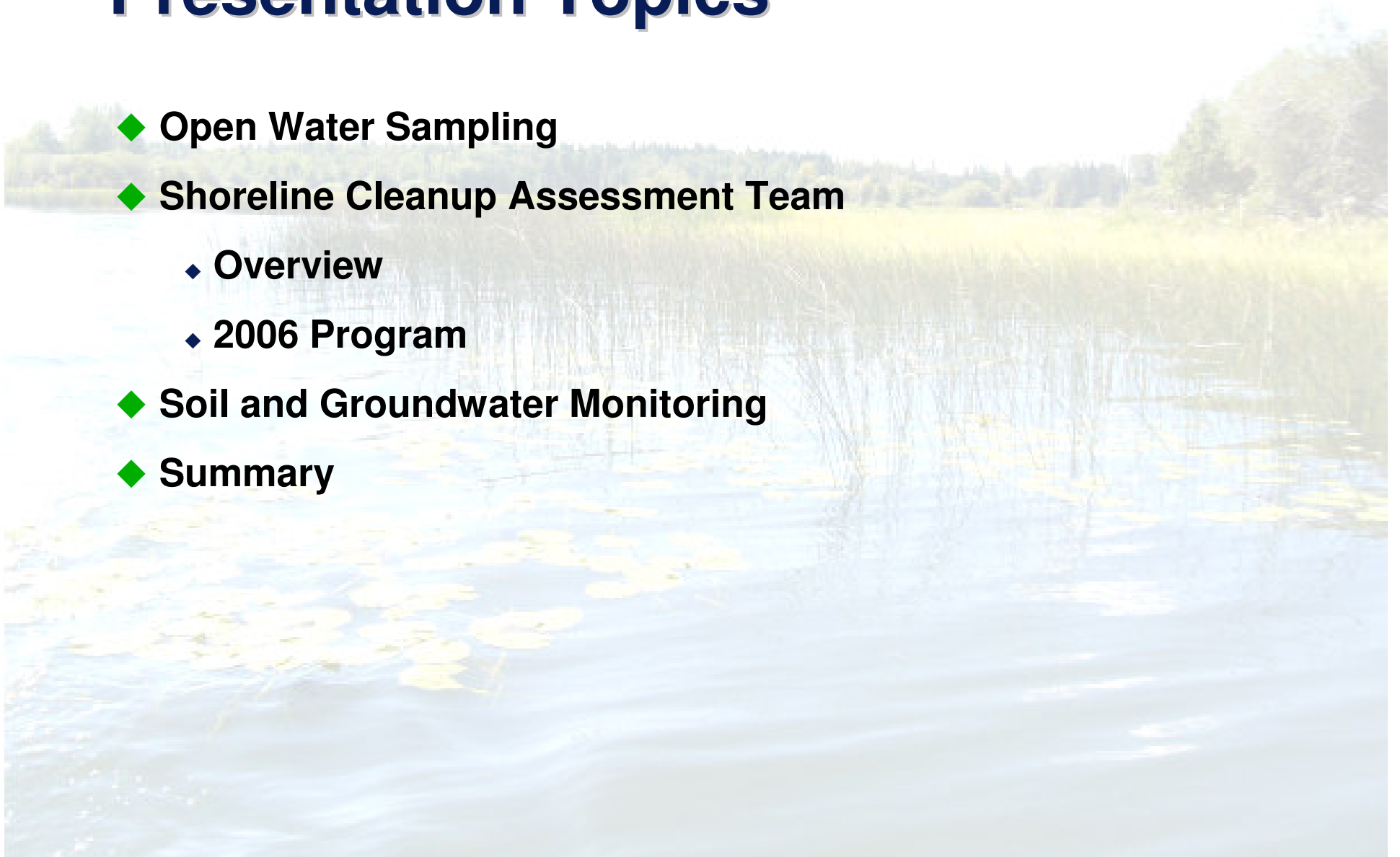


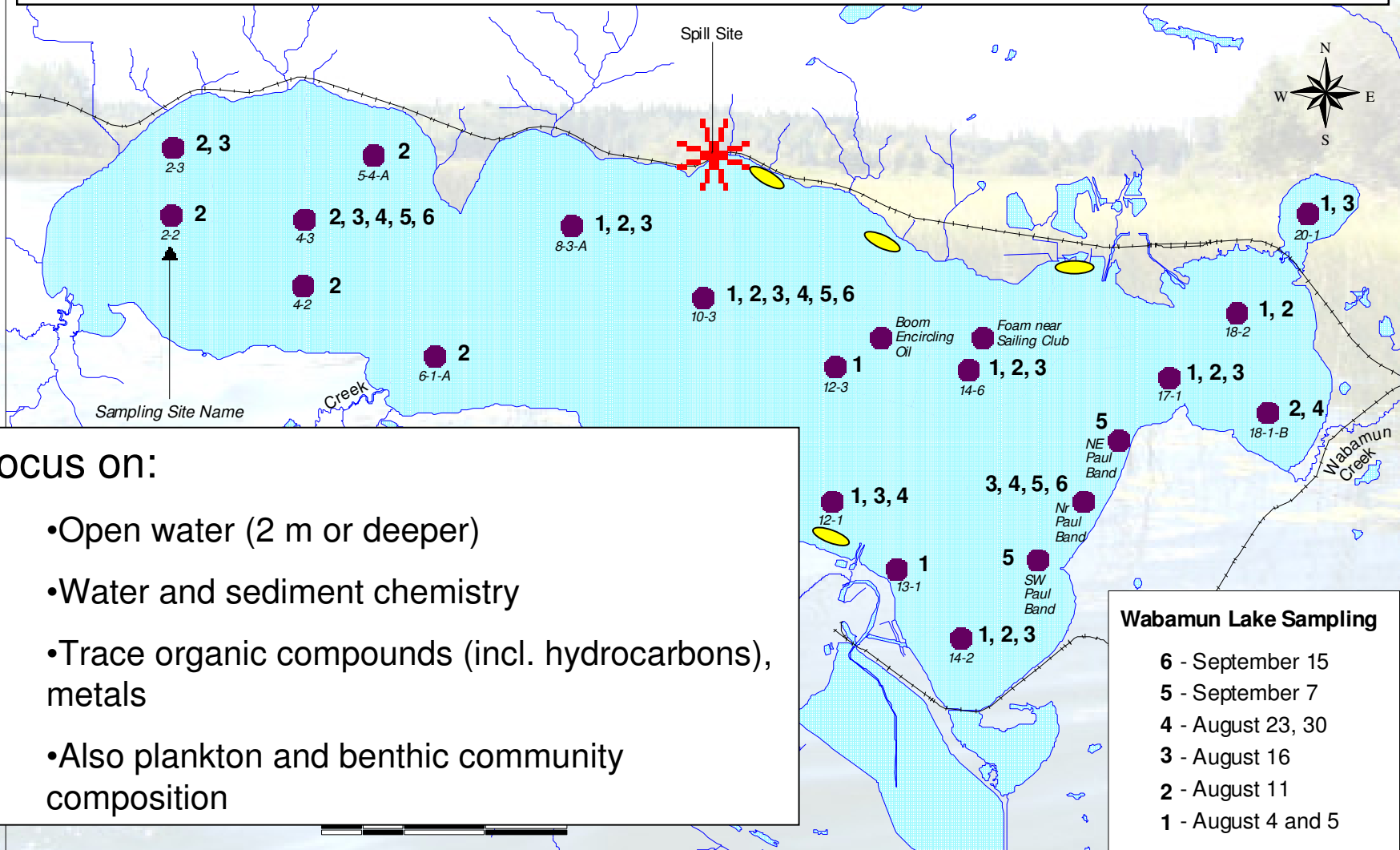
**CN Train Derailment –
Wabamun
Progress Update
May 28, 2006**

Presentation Topics

- ◆ **Open Water Sampling**
- ◆ **Shoreline Cleanup Assessment Team**
 - ◆ **Overview**
 - ◆ **2006 Program**
- ◆ **Soil and Groundwater Monitoring**
- ◆ **Summary**



AENV Open-Water Sampling: 2005



Focus on:

- Open water (2 m or deeper)
- Water and sediment chemistry
- Trace organic compounds (incl. hydrocarbons), metals
- Also plankton and benthic community composition

Wabamun Lake Sampling	
6	- September 15
5	- September 7
4	- August 23, 30
3	- August 16
2	- August 11
1	- August 4 and 5

Results of Open-Water Sampling: 2005

- ◆ **Overall, the open water has not been seriously contaminated.**
 - ◆ **Water**
 - ◆ Very low levels of some compounds (BTEX, PAH) detected at some sites.
 - ◆ All detected compounds related to the spill were within available guidelines for protection of aquatic life and drinking water. No indication of metal contamination.
 - ◆ **Sediment – No indication of hydrocarbon or metal contamination.**
-

Shoreline Cleanup Overview

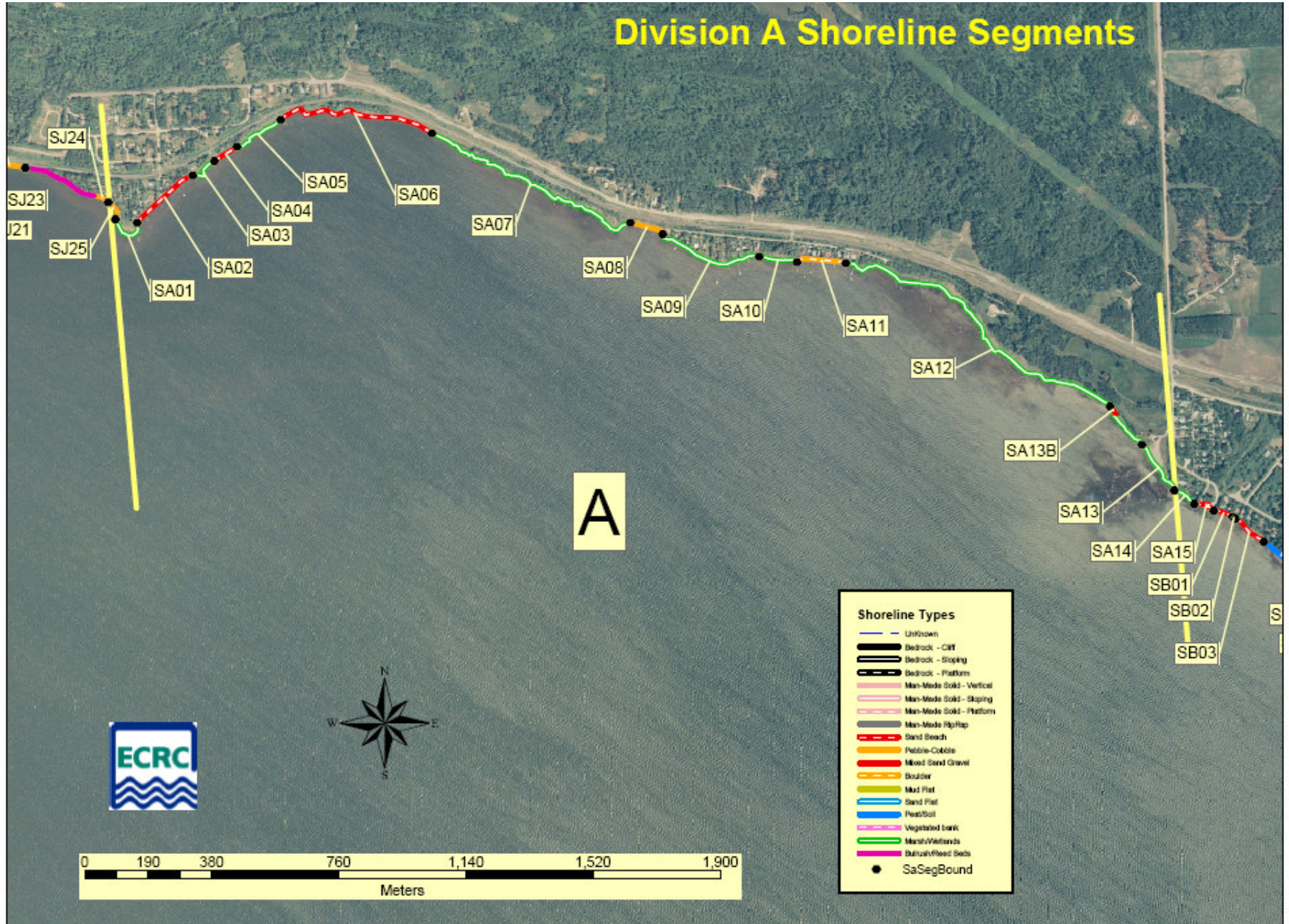
- ◆ **As part of an oil spill response, Shoreline Cleanup Assessment Technique (SCAT) team systematically surveys and documents affected shorelines.**
- ◆ **Real-time data on oiling conditions at a shoreline are needed to:**
 - ◆ provide a rapid and accurate geographic picture of oiling conditions;
 - ◆ appreciate the nature and scale of the oiling problem; and,
 - ◆ facilitate spill-response planning and decision-making.
- ◆ **SCAT team helps to define limitations on application of cleanup techniques, so that operations do not result in additional damage.**

SCAT: The Lake Wabamun Team

- ◆ The team includes representatives from:
 - ◆ Alberta Environment
 - ◆ Alberta Sustainable Resource Development
 - ◆ Environment Canada
 - ◆ Indian & Northern Affairs Canada
 - ◆ Paul First Nation
 - ◆ Nichols Environmental (on behalf of Wabamun Residents' Committee)
 - ◆ Eastern Canada Response Corporation (on behalf of CN).



Division A Shoreline Segments



SCAT: 2006 Program

- ◆ Aerial and shoreline spot-surveys during April to monitor break-up of ice and any shoreline oil.
- ◆ SCAT training course held early-April for agency, Paul First Nation, and Wabamun Residents' Committee.
- ◆ SCAT calibration and safety training May 8, followed by approximately two weeks to complete spring survey.
- ◆ SCAT information will help guide plan development for remaining clean-up (e.g., 'Sunken Oil Treatment Plan').
- ◆ In late-June, a long-term plan will be developed to address periodic shoreline surveys and spot-cleaning where required.



April 19 ice conditions near Ascot Beach

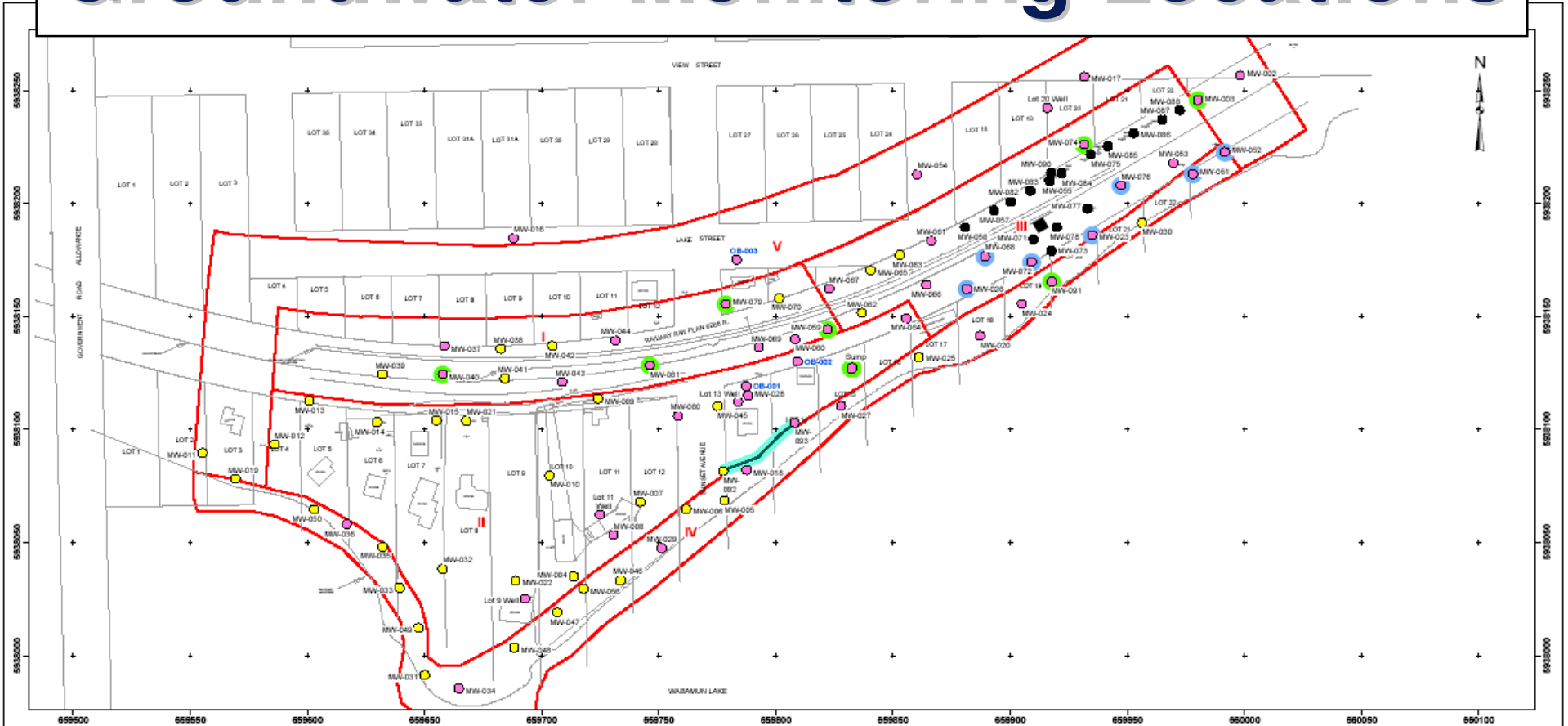
SCAT: 2005 Program

- ◆ SCAT teams surveyed shoreline and reed beds Aug. 11-25 to provide a 'picture' of initial oiling conditions.
- ◆ An 'Overall Shoreline Treatment Plan' was developed and detailed cleanup requirements for various shoreline types.
- ◆ Post-treatment shoreline evaluations were conducted late-Sept. to mid-Oct.
- ◆ SCAT survey planned for spring, 2006 to re-assess shoreline conditions. Where treatment endpoints not met, shoreline treatment would resume.



SCAT team fall 2005

Groundwater Monitoring Locations



LEGEND

- COMPLIANCE WELL
 - SUPPLEMENTARY WELL
 - MONTHLY MONITORING WELL / COMPLIANCE WELL
 - SPRING RUN-OFF COMPLIANCE WELL
 - RESPONSE AREA
 - INITIAL RESPONSE CONTAINMENT TRENCH
 - PTO RECOVERY WELL
 - ◆ PTO RECOVERY TANK
- * Spring run-off compliance wells will be sampled in April, May and June 2006.*

REFERENCE

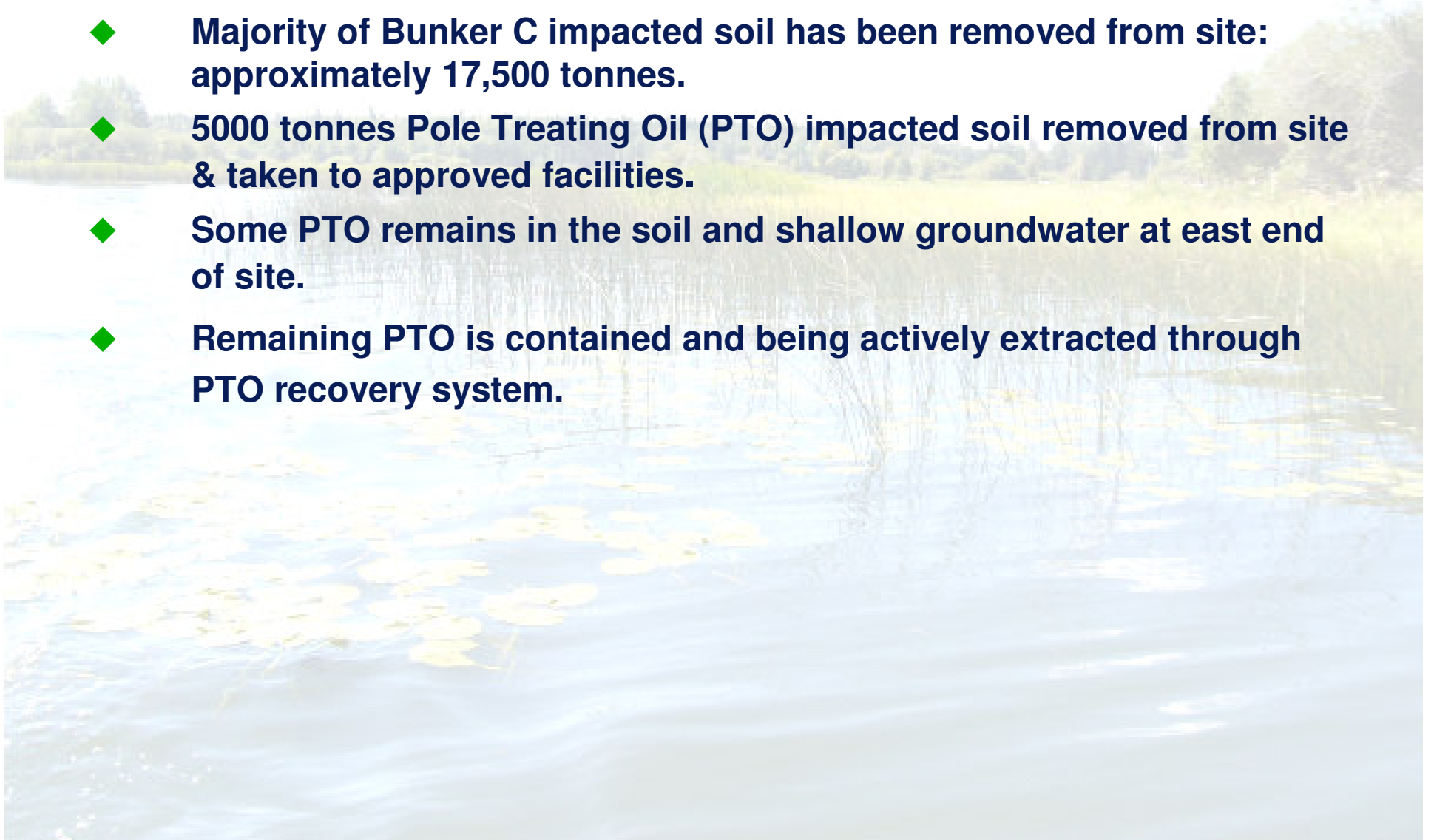
Digital basedata collected by Golder Associates and Don Wilson Survey.
Projection: Transverse Mercator Datum: NAD 83 Coordinate System: UTM Zone 11

50 0 50
SCALE 1:1 600 METRES

PROJECT		CN DERAILMENT AT WABAMUN LAKE	
TITLE		PROPOSED LONG-TERM MONITORING PLAN	
<p>Golder Associates Calgary, Alberta</p>	PROJECT No. 05-034-102	SCALE AS SHOWN	REV. 0
	DESIGN I	JUL 12 SEPT 2005	
	CHECK	JUL 15 DEC 2005	
	REVIEW		
			FIGURE: 39

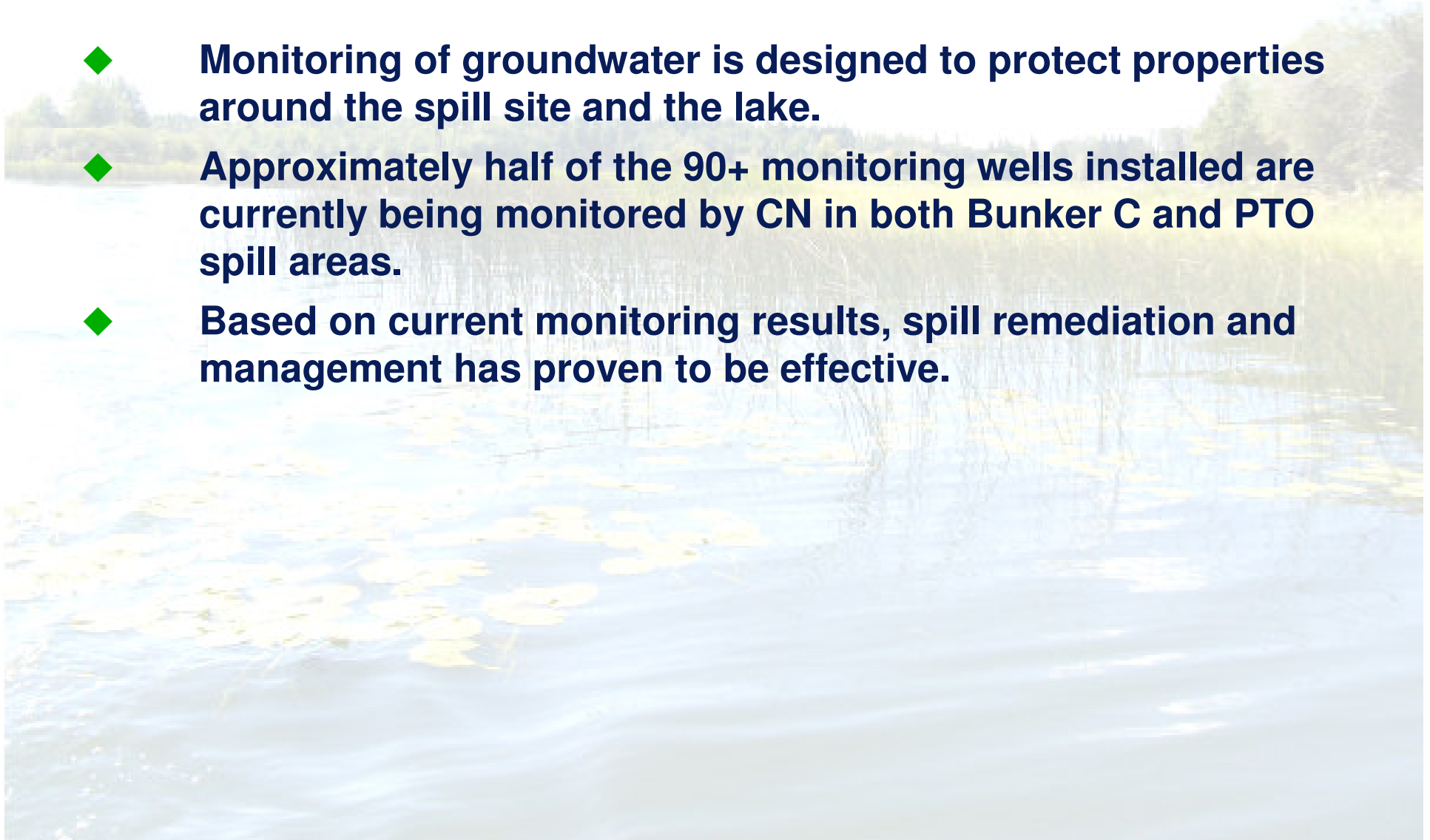
Derailment Site: Soil & Groundwater

- ◆ Majority of Bunker C impacted soil has been removed from site: approximately 17,500 tonnes.
- ◆ 5000 tonnes Pole Treating Oil (PTO) impacted soil removed from site & taken to approved facilities.
- ◆ Some PTO remains in the soil and shallow groundwater at east end of site.
- ◆ Remaining PTO is contained and being actively extracted through PTO recovery system.



Derailment Site: Soil & Groundwater

- ◆ **Monitoring of groundwater is designed to protect properties around the spill site and the lake.**
- ◆ **Approximately half of the 90+ monitoring wells installed are currently being monitored by CN in both Bunker C and PTO spill areas.**
- ◆ **Based on current monitoring results, spill remediation and management has proven to be effective.**



Soil and Groundwater at the Derailment Site

- ◆ **Monitoring and remediation activity is outlined in the following documents:**
 - ◆ Delineation Report
 - ◆ Detailed Remediation Plan
 - ◆ Long Term Soil and Groundwater Monitoring Plan

Summary

◆ Environmental Protection Order

- ◆ CN has met the requirements of the EPO to date, which include a long-term monitoring plan and a detailed remediation plan.

◆ Investigation

- ◆ Alberta Environment's investigation of the response to the spill is still underway.

◆ Reporting

- ◆ Copies of all reports mentioned are posted on the Alberta Environment site, along with other relevant info:

www.environment.gov.ab.ca.

- ◆ Copies can also be picked up from our Village of Wabamun office at 5124 – 53 Avenue.

Thank-you for your continued participation:

**Paul First Nation
Village of Wabamun
Lake Wabamun Residents' Committee
Permanent Residents/Cottage Owners
Local Authorities
TransAlta Utilities**

Alberta Environment is committed to the restoration of Lake Wabamun