

Former Plainwell Impoundment Time-Critical Removal Action

U.S. EPA Public Meeting – February 26, 2009
Plainwell, Michigan

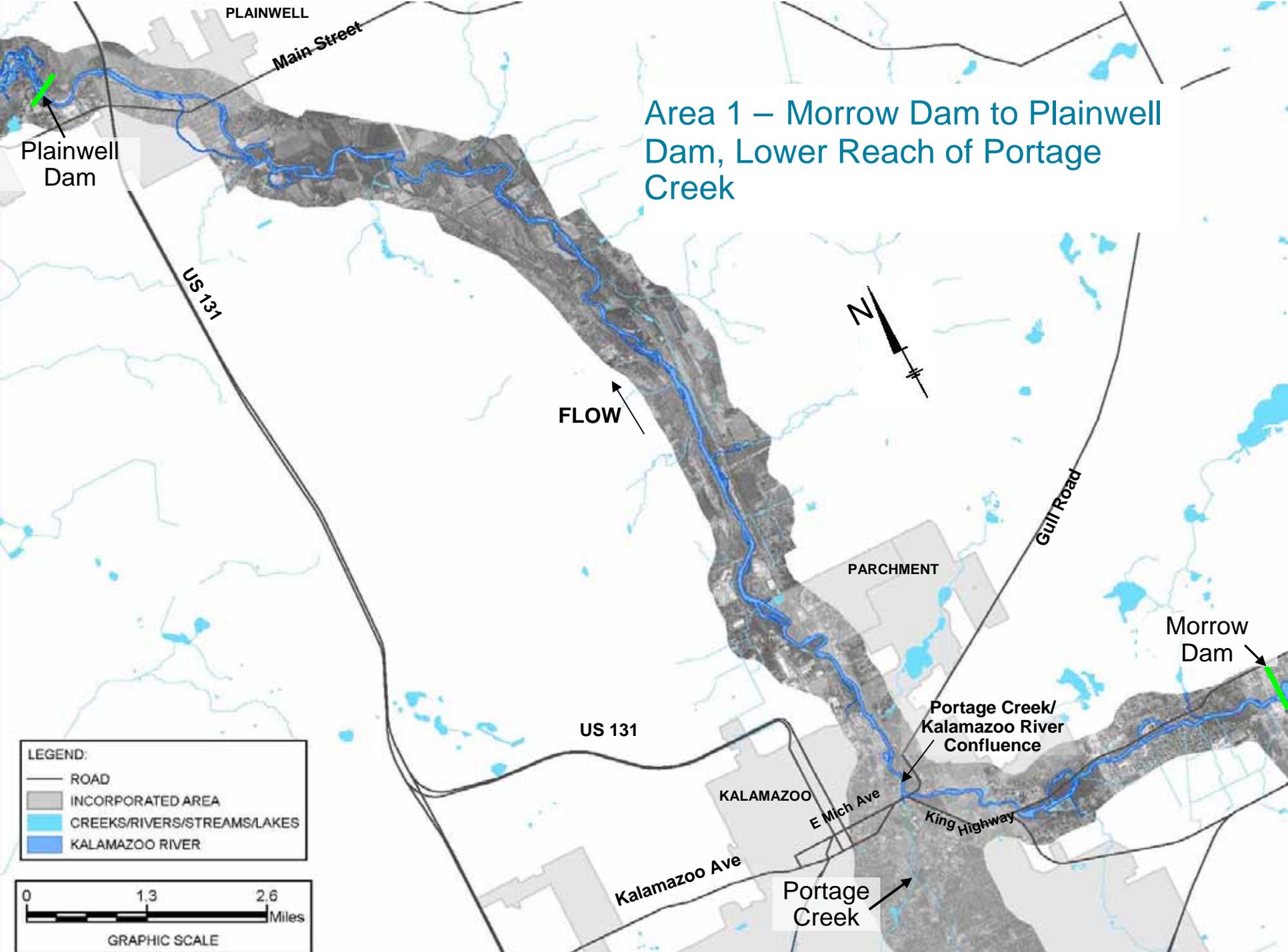
**Mike Ribordy, On-Scene Coordinator
U.S. Environmental Protection Agency**



Allied Paper, Inc./Portage Creek/ Kalamazoo River Superfund Site

- Operable Unit 1: Allied Paper Landfill
- Operable Unit 2: Willow Boulevard and A-Site Landfill
- Operable Unit 3: King Highway Landfill
- Operable Unit 4: 12th Street Landfill
- **Operable Unit 5: Portage Creek and 80 miles of Kalamazoo River**
- Georgia Pacific/Hawthorn Mill Properties
- Operable Unit 7: Plainwell Mill Property

Area 1 – Morrow Dam to Plainwell Dam, Lower Reach of Portage Creek



LEGEND:

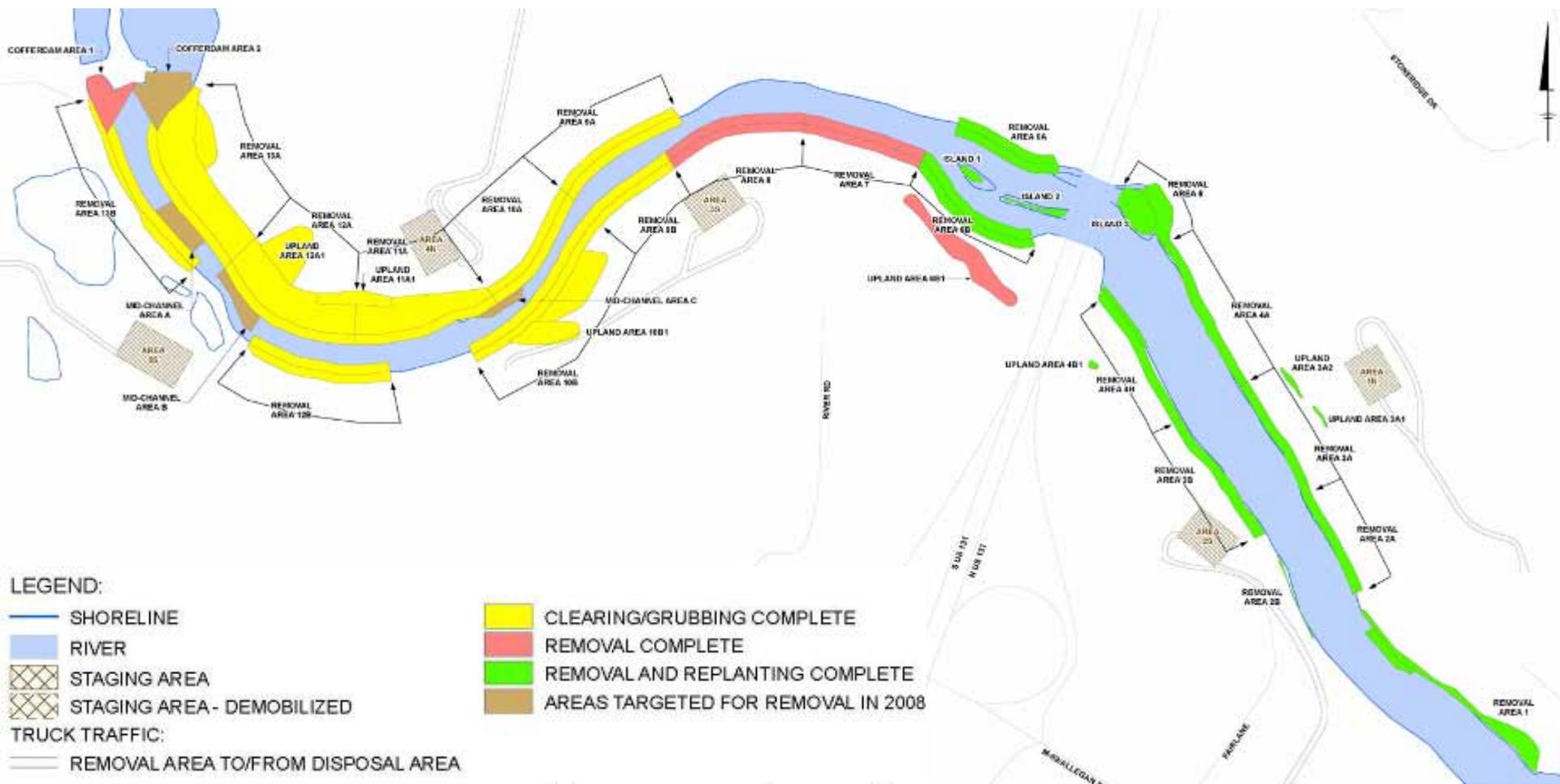
- ROAD
- INCORPORATED AREA
- CREEKS/RIVERS/STREAMS/LAKES
- KALAMAZOO RIVER

0 1.3 2.6 Miles
GRAPHIC SCALE

Kalamazoo River – The Problem

- Approximately 113,000 lbs. of PCBs are currently located in the aquatic system, primarily as the result of waste practices associated with the de-inking of carbonless copy paper between the 1950s and early 1980s.
- The State of Michigan has issued a “DO NOT EAT” advisory since 1977 for many species of PCB-contaminated fish in the Kalamazoo River.
- The ongoing, uncontrolled erosion of contaminated paper wastes and soils from the river banks is the most significant source of PCB loading to the Kalamazoo River.

Plainwell TCRA – 2007 Overview





2007 Disposal Volumes

•Non-TSCA cy removed	33,915
•TSCA cy removed	3,010
•Total cy removed	36,925

Plainwell TCRA – 2008 Overview

- Begin excavation work during the week of March 17
- 17.5 acres to be excavated in 2008
 - Removal Areas 9-13
 - Mid-Channel Areas A-C
 - Upland Areas 10B1, 11A1, 12A1
- Approximately 83,000 cubic yards (cy) of material targeted for removal. 17,430 cy TSCA.
- Conclude work in December

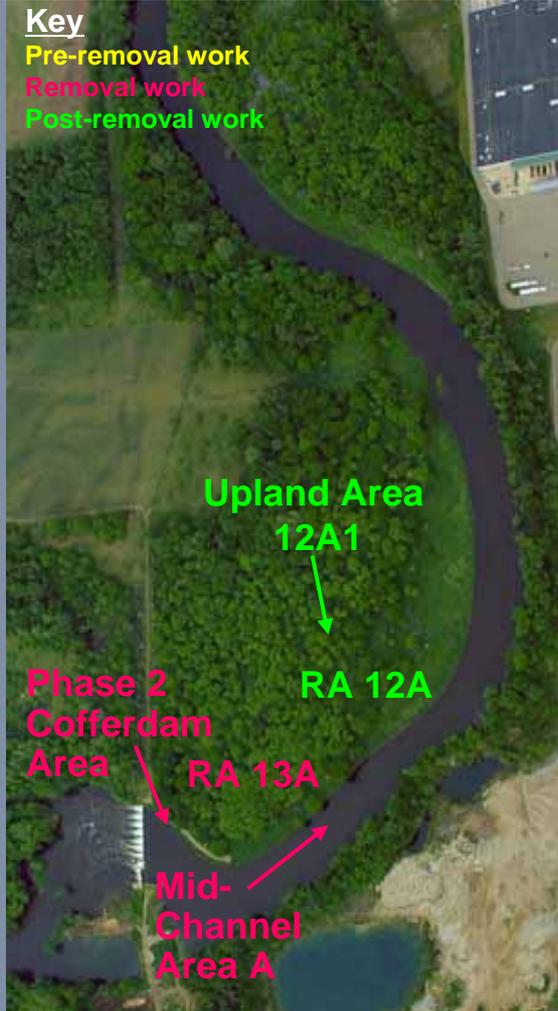
Plainwell TCRA – Truck Hauling

- On average, 20 to 30 trucks per day leaving the project area to landfills
- Non-TSCA (less than 50 ppm PCBs) material transported to either Allied Waste's C&C Landfill near Marshall, MI, and their Ottawa Farms Landfill near Coopersville, MI
- TSCA material transported to EQ's Wayne Township Landfill, Belleville, MI.



Plainwell TCRA – October 2008 Work Activities

- Continue removal at Phase 2 Cofferdam Area, RA 13A and 13B, and Mid-Channel Area A
- Finish post-removal activities in RAs 11A, 12A, 12A1, and 13B
- Decommission of Staging Area 5S
- Operate WCS



Plainwell TCRA – November 2008 Work Activities

- Continued removal in RA 13A and Phase 2 Cofferdam
- Post-removal work in RA 13A and 13B
- Begin removal of WCS
- Completed decommission of Staging Area 5S
- Operate WCS



Plainwell TCRA – December 2008 Work Activities

- Continued removal in RA 13A and Phase 2 Cofferdam
- Post-removal work in RA 13A and 13B
- Begin removal of WCS
- Completed decommission of Staging Area 5S
- Operate WCS



Plainwell TCRA – December 2008 Work Activities

- Completed removal activities in Phase 2 Cofferdam
- Continued removal in RA 13A
- Continue removal of WCS



Key

Pre-removal work

Removal work

Post-removal work



Plainwell TCRA – January 2009 Work Activities

- Continued removal of WCS and started removal of Phase 2 Cofferdam
- Continued removal in RA 13A
- Decommission Staging Area 4N



Plainwell TCRA – February 2009 Work Activities

- Continued removal of WCS



Key

Pre-removal work

Removal work

Post-removal work

WCS

Plainwell TCRA – Ongoing 2009 Work Activities

- Restoration activities in RA 13A and 13B
- Post-removal sampling
- Monitoring well installation and sampling
- Ongoing restoration/maintenance activities





2008/2009 Disposal Volumes

•Non-TSCA cy removed	71,680
•TSCA cy removed	17,920
•Total cy removed	89,600



Project Summary

•Non-TSCA cy removed	107,695
•TSCA cy removed	20,930
•Total cy removed	128,625
•Total # of Truck Loads	3,077

Plainwell TCRA – Summary of 2008/2009 TCRA Activities



- Construction Season: March 2008 through February 2009
- 89,000 cy of material removed containing 4,000 pounds of PCBs
- Cofferdam and WCS installation, operation, and removal

US-131

Allegan St. / M-89

Plainwell Dam

River flowing freely through new Western Channel

