

## GENERAL SITE INFORMATION, CHARACTERISTICS, AND STATUS

**Project Name** **ALLIED PAPER/PORTAGE CREEK/KALAMAZOO RIVER - PROJECT 1 (Bryant Mill Pond)** **ProjectID:** 05-01

**Last Updated:** 10/21/02

**City:** Kalamazoo

**County:** Kalamazoo

**State:** MI

**Country:** USA

**Bodies of Water:** Bryant Mill Pond; Portage Creek

**US EPA Region:** V

**Status (Active, Complete, or Monitoring Only):** Active

**Date On NPL:** 1990

**ROD/ESD Date:** None

**Operable Unit:** Allied OU

**Areas of Concern (length or acres):** 22-acre 2,500 foot-long Bryant Mill Pond area of Portage Creek. This area is a small segment of the Superfund Site, which originally included the three-mile sector of Portage Creek from Cork Street just above Bryant Mill Pond to its confluence with the Kalamazoo River and a 35-mile stretch of the Kalamazoo River from this confluence to Allegan City Dam in Allegan, Michigan. Because PCB contamination was found in sediment both downstream and upstream of this river sector, the Superfund investigation was expanded to include the 80 miles of Kalamazoo River from Morrow Dam in Comstock, Michigan to Lake Michigan, as well as the three-mile sector of Portage Creek. The river is being investigated in two phases, Phase I consisting of the Upper River from Morrow Dam to Allegan Dam in addition to the three-mile sector of Portage Creek (Project ID 05-25) and the Lower River, to be investigated as Phase II (Project ID 05-37). The 80-mile stretch of the river from Morrow Dam to Lake Michigan is designated as a Great Lakes Area of Concern.

**Other Characteristics of Water Body:** Portage Creek varies in width from about 15 to 70 feet, with a 25-year average discharge of 45 cfs at Cork Street.

**Contaminants of Concern:** PCBs (1242/1254/1260)

**Source of Contamination:** De-inking of carbonless copy paper for recycling, at the Allied Paper facility. (PCBs were present in the dyes used in the carbonless copy paper.)

**Contaminated Area Physical Characteristics:** Portage Creek flows through the Bryant Mill Pond area. Bryant Mill Pond was formed years ago when predecessors to Allied Paper constructed the Alcott Street Dam. During mill operation, both treated and untreated wastewater containing residual paper pulp waste were discharged to the creek. The dam was subsequently lowered (but not removed) so that much of the 22-acre Bryant Mill Pond area was no longer under water. Releasing water from behind the dam exposed floodplain areas on either side of the creek containing residual paper pulp waste and soil contaminated with PCBs as high as 1,000 ppm. The exposed floodplains were up to 300 feet wide and, prior to the removal activity, consisted primarily of a thin layer of soil and vegetation, overlying sediment and residual paper pulp waste (found to have the consistency of clay). Sediment in Portage Creek was also found to be contaminated with PCBs.

The Bryant Mill Pond area is one of several areas of concern at the Allied Paper Inc. Operable Unit (OU-1). Other identified areas of contamination on site include: containment lagoons once used to dewater or dry paper pulp waste, known as the Historic Residuals Dewatering Lagoons (HRDLs), and the Former Residuals Decanting Lagoons (FRDLs); a former landfill; and a land disposal area.

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**Type of Regulatory Action:** Superfund. Time-critical removal action. EPA-Lead.

**Overall Status Summary:** The Superfund site originally comprised the Allied Paper property, a 3-mile stretch of Portage Creek to its confluence with the Kalamazoo River, and the 35-mile stretch of the Kalamazoo River from its confluence with Portage Creek to Allegan City Dam. The length of river being investigated was subsequently expanded by MDEQ to include the sector of river upstream to Morrow Dam and the sector of river downstream to Lake Michigan. PCBs are the targeted contaminant, originating primarily from the de-inking of carbonless copy paper for recycling. After the Fox River, EPA reports that the Kalamazoo River deposits the highest annual load of PCBs into Lake Michigan.

In December 1990, the state of Michigan entered into an Administrative Order by Consent (AOC) with Allied Paper, Inc. and its parent company, Millennium Holdings, Inc.; Georgia-Pacific Corporation; and Plainwell, Inc. The AOC required that these companies undertake an RI/FS, a process that is ongoing. In addition, Fort James Corporation (now Georgia-Pacific) agreed to participate in the RI/FS.

Five paper waste landfills are specifically targeted because they represent potential PCB sources to the river. The landfills are being addressed as four separate operable units: OU-1: Allied Paper Property/Bryant Mill Pond Area; OU-2: Willow Boulevard/A-Site; OU-3: King Highway Landfill; and OU-4: 12th Street Landfill. In addition, the 3 miles of Portage Creek and the Kalamazoo River are being investigated as a separate operable unit, OU-5.

The Bryant Mill Pond area was identified by the regulatory agencies as the most important upstream source of PCB-contamination to the Kalamazoo River. The area was estimated to have contained more than 20,000 pounds of PCBs and floodplains were found to contain PCB concentrations as high as 1,000 ppm. Bryant Mill Pond was formed years ago by a dam in Portage Creek. With the dam lowered, the 22-acre Bryant Mill Pond area was no longer under water, allowing floodplain soils and residual paper pulp waste to enter Portage Creek through surface water runoff. The removal action targeted removal of approximately 90,000 cy from the dry Bryant Mill Pond area as well as from the creek bed of Portage Creek flowing through the area.

In 1998, a time-critical removal action was initiated for the removal of PCB-contaminated floodplain soils and residual paper pulp waste from the Bryant Mill Pond area and sediment from Portage Creek. The removal began in October 1998 when 4,000 feet of Portage Creek was temporarily diverted and removal of the targeted contaminated floodplain soils and creek bed sediments by dry and wet excavation began. Removed materials were disposed of in former dewatering lagoons on the Allied Paper property. The removal action was completed in May 1999, and reportedly resulted in the removal of 146,000 cy of streambed sediment and floodplain soils containing an estimated 21,000 pounds of PCBs. The total cost for the removal is reported by EPA at approximately \$7.8 million, of which \$7.5 million was funded through a "cash out" settlement agreement with the PRP.

**Remedial Action Planned:** ☒

**Risk Assessment:** ☐

**Remedial Action Implemented:** ☒

**Status of Dredging** ☐

## **GENERAL SITE INFORMATION, CHARACTERISTICS, AND STATUS**

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***Project Name***                      **ALLIED PAPER/PORTAGE CREEK/KALAMAZOO**                      ***ProjectID:*** 05-01  
**RIVER - PROJECT 1 (Bryant Mill Pond)**

***Last Updated:***                      10/21/02

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***PRPs:***                                      ☒

***Contacts:***                                ☒

***References:***                            ☒

***Modeling:***                               ☐

***Fishing Advisory:***                   ☒

***Key Conditions:***                      dedicated landfill or CDF, floodplains targeted, Great Lakes AOC

## REMEDIAL ACTION PLANNED

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<b>Project Name</b>	<b><u>ALLIED PAPER/PORTAGE CREEK/KALAMAZOO RIVER - PROJECT 1 (Bryant Mill Pond)</u></b>	<b>ProjectID:</b> 05-01
<b>Last Updated:</b>	08/01/01	
<b>Target Sediment Cleanup Standards (TSCS):</b>	The performance standard for removal is 10 ppm PCBs. The performance standard goal is 1 ppm PCBs.	
<b>How TSCS Established:</b>	Per EPA Action Memorandum	
<b>Target Bank and Floodplain Cleanup Levels (if applicable):</b>	see "Target Sediment Cleanup Standards (TSCS)"	
<b>Other Target:</b>		
<b>Environmental Sample Data References:</b>	<ul style="list-style-type: none"><li>• <b>Sediment:</b></li><li>• <b>Water:</b></li><li>• <b>Fish:</b></li></ul>	
<b>Estimated Target Volume:</b>	90,000 cy (Bryant Mill Pond area)	
<b>Planned Disposal Method:</b>	Temporary storage into an onsite former dewatering lagoon, until a final remedy for the onsite former lagoon areas is implemented.	
<b>Estimated Calendar Time to Implement Remedy:</b>	June 1998 to June 1999	
<b>Estimated Time to Implement Remedy:</b>	one year	
<b>Estimated Cost to Implement Remedy:</b>	\$7.5 million ("cash-out" amount) plus \$0.5 million of fund money.	
<b>Stated Remedial Action Objectives (and Source):</b>	Source: Reference A-333: "Excavation, containment, and appropriately covering the PCB-contaminated soil, sediment, and residual paper waste will mitigate the public health threat posed by direct human and wildlife contact. Excavation and containment will also mitigate the threats posed to aquatic life and wildlife threatened by ongoing releases of PCBs to Portage Creek. Removing the contaminated material from the Portage Creek floodplain will end the ongoing release of PCBs to the creek and the Kalamazoo River downstream. U.S. EPA anticipates the removal cleanup will be consistent with the final remedy selected by MDEQ, addressing cleanup of the remainder of the Allied Paper Operable Unit."	
<b>Measures of Success to be Used:</b>	Collection and analysis of verification samples from approximately 6 inches below the depth of excavation to confirm that the cleanup action level has been met.	
<b>Planned Monitoring and Restoration:</b>	Excavation areas will be backfilled with clean sand, as necessary; upon completion of the excavation activities, the Bryant Mill Pond area will be restored by reseeded, replanting, and performing erosion control, as necessary.	
<b>Agency Position on Sediment Removal (and Source):</b>	Removal to be conducted by USEPA as an interim action. The MDEQ concurred with the interim action as being consistent with its objectives for remedial action.	

## REMEDIAL ACTION IMPLEMENTED

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<b>Project Name:</b>	<b><u>ALLIED PAPER/PORTAGE CREEK/KALAMAZOO RIVER - PROJECT 1 (Bryant Mill Pond)</u></b>	<b>ProjectID:</b> 05-01
<b>Last Updated:</b>	08/01/01	
<b>Physical Target:</b>	90,000 cy of PCB-contaminated creek sediments and floodplain soil and residual paper pulp in the 22-acre Bryant Mill Pond area, exposed as a result of a dam lowering.	
<b>Goals:</b>	10 ppm PCBs target; 1 ppm PCBs goal (the MDEQ recommended PCB cleanup goal for Allied Paper OU-1 was 0.33 ppm).	
<b>Primary Contractor:</b>	Baily Construction	
<b>Other Contractors:</b>	Roy F. Weston, Inc. (oversight); US Army Corps of Engineers (oversight)	
<b>Generic Remediation Method:</b>	Dry and wet excavation	
<b>Equipment:</b>	Long-reach excavators	
<b>Material Handling:</b>	The removed material was saturated and was temporarily placed in a staging area to allow water to drain prior to being placed in the disposal lagoons. Once dewatered, the material was transported to the disposal area where it was solidified in-place by mechanical working (i.e., use of a disc). Pilot solidification studies were also conducted using additives (e.g., CKD, flyash) on a limited basis.	
<b>Volume Removed:</b>	146,000 cy	
<b>Calendar Time:</b>	Clearing and grubbing began in June 1998. Removal: October 1998 - May 1999. Restoration: June-October 1999.	
<b>Time To Implement:</b>	8 months working typically 10 hrs. per day, 6 days per week. In addition, site preparation and restoration required 4 months and 5 months, respectively.	
<b>Total Cost:</b>	<p>\$7.8 million</p> <p>Further breakdown:</p> <ul style="list-style-type: none"><li>- Site Visits/Work Plans \$45.6K</li><li>- Air Monitoring/Sampling \$64.9K</li><li>- Site Clearing/Grubbing \$232.7K</li><li>- Site Restoration \$244.8K</li><li>- Confirmation Sampling/Other \$449.4K</li><li>- Water Treatment Operation \$480.2K</li><li>- Landfill Operations \$1,054.7K</li><li>- Office/Site Management \$1,279.5K</li><li>- Excavation \$3,936.4K</li></ul>	
<b>Dredging Cost:</b>	Above, under "Excavation," in "Total Cost" field.	
<b>Disposal of Sediment:</b>	Onsite disposal in former dewatering lagoons following stabilization. Disposal area was graded to meet MDEQ landfill slope requirements and a vent layer consisting of 6-12" of sand was placed over the primary disposal area (Bryant HRDL).	
<b>Volume of Water:</b>	7.5 million gallons	
<b>Method of Water Treatment:</b>	On-site combination sand/carbon filtration system with discharge to the City of Kalamazoo wastewater treatment facility.	
<b>Water Discharge Limit:</b>	0.1 ppb (reportedly consistently met)	

## **REMEDIAL ACTION IMPLEMENTED**

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**Project Name:** **ALLIED PAPER/PORTAGE CREEK/KALAMAZOO RIVER - PROJECT 1 (Bryant Mill Pond)** **ProjectID:** 05-01

**Last Updated:** 08/01/01

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**Air Monitoring During Remediation:** Perimeter air sampling alert level for total PCBs: 0.18 ug/m3. Personal air sampling action level for total PCBs: 0.25 ug/m3. No PCB levels above action or alert levels were detected.

Potentially PCB-containing dust levels were periodically above action levels, in which case personal protective equipment was upgraded to level C or an operational change was temporarily implemented.

**Water Monitoring During Remediation:** All treated effluent wastewater met the discharge criteria for the City of Kalamazoo sanitary sewer.

**Outcome:** MDEQ has reported that streambed verification samples collected following completion of the removal action show (1) PCB levels remaining in sediment range from nondetect to 0.46 ppm; (2) that approximately 92 percent of all verification samples analyzed (sediment and floodplain soils) were below 1 ppm PCBs; and (3) that the removal action resulted in the removal of an estimated 21,000 pounds of PCBs. Analytical results for samples from excavation sidewalls were not factored into the MDEQ's report of outcome.

**Restoration and Post-Monitoring:**

**Site-Specific Difficulties:** Incomplete characterization of the targeted material and expansion after removal resulted in the amount of material removed increasing from an in-place estimate of 90,000 cy to an excavated volume of 146,000 cy. Contamination was found to be more extensive (deeper) than previously collected samples had indicated.

**Monitoring Data References:**

- **Sediment**
- **Water:**
- **Fish:**

**POTENTIALLY RESPONSIBLE PARTIES**

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**Project Name** ALLIED PAPER/PORTAGE CREEK/KALAMAZOO RIVER -  
PROJECT 1 (Bryant Mill Pond)

**ProjectID:** 05-01

**PRP Name:** PRP INFORMATION NOT RELEASED

**PRPID:**

**Street Address:**

**City:**

**State:**

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## **KEY CONTACTS**

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***Project Name*** **ALLIED PAPER/PORTAGE CREEK/KALAMAZOO RIVER -  
PROJECT 1 (Bryant Mill Pond)**

***ProjectID:*** 05-01

***Last Name:*** KEY CONTACT INFORMATION NOT RELEASED

***Contact ID:***

***First Name:***

***Title:***

***Company:***

***Address:***

***City:***

***State:***

***Postal Code:***

***Work Phone # :***

***Other Phone #:***

***Fax # :***

***Email Address:***

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## REFERENCES

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**Project Name** **ALLIED PAPER/PORTAGE CREEK/KALAMAZOO RIVER -  
PROJECT 1 (Bryant Mill Pond)**

**ProjectID:** 05-01

**Reference Type:** A

**ReferenceID:** 299

**Title:** **Notice: Request for Public Comment on Proposed CERCLA  
122(h)(1) Agreement for the Bryant Mill Pond Area of the Allied  
Paper Superfund Site**

**Location:** AEM

**Category:** Legal

**Prepared by/Author:** US EPA HQ

**Preparer/Author  
Address:**

**Prepared For:** Federal Register

**Date Published:** June 9, 1998

**Key Words and  
Phrases:**

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**Reference Type:** A

**ReferenceID:** 333

**Title:** **Fact Sheet: Allied Paper Operable Unit Site**

**Location:** AEM

**Category:** Site Update

**Prepared by/Author:** US EPA Region V

**Preparer/Author  
Address:** 77 West Jackson Blvd.  
Chicago, IL 60604

**Prepared For:** General Public

**Date Published:** August 1998

**Key Words and  
Phrases:**

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## REFERENCES

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**Project Name** ALLIED PAPER/PORTAGE CREEK/KALAMAZOO RIVER -  
PROJECT 1 (Bryant Mill Pond)

**ProjectID:** 05-01

**Reference Type:** A

**ReferenceID:** 370

**Title:** *Revised Action Memorandum: Request for a Time-Critical Removal Action and a \$2 Million Exemption at the Allied Paper/Portage Creek/Kalamazoo River Superfund Site*

**Location:** AEM

**Category:** ROD/Proposed Plan/Action Memo/Decision Document

**Prepared by/Author:** US EPA Region V

**Preparer/Author Address:** Chicago, IL

**Prepared For:** General Public

**Date Published:** Undated (circa mid-1998)

**Key Words and Phrases:**

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**Reference Type:** A

**ReferenceID:** 582

**Title:** *Letter re: Executed copy of 122(h) Settlement Agreement and Modifications to Action Memorandum for the Bryant Mill Pond Area Time-Critical Removal Action*

**Location:** AEM

**Category:** ROD/Proposed Plan/Action Memo/Decision Document

**Prepared by/Author:** Eileen L. Furey, Associate Regional Counsel

**Preparer/Author Address:** US EPA Region V

**Prepared For:** Bonnie Barnett, Drinker Biddle & Reath LLP

**Date Published:** June 12, 1998

**Key Words and Phrases:**

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## REFERENCES

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**Project Name** **ALLIED PAPER/PORTAGE CREEK/KALAMAZOO RIVER -  
PROJECT 1 (Bryant Mill Pond)**

**ProjectID:** 05-01

**Reference Type:** A **ReferenceID:** 675  
**Title:** *Final Work Plan; Interim Removal Action at Bryant Mill Pond*  
**Location:** BBL  
**Category:** Remedial Action Plan/Work Plan  
**Prepared by/Author:** Roy F. Weston, Inc.  
**Preparer/Author Address:** West Chester, PA  
**Prepared For:** U.S. Army Corps of Engineers - Omaha District  
**Date Published:** April 1998  
**Key Words and Phrases:**

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**Reference Type:** A **ReferenceID:** 774  
**Title:** *Unilateral Administrative Order Between the United States and Millennium Holdings, Inc.*  
**Location:** AEM  
**Category:** Legal  
**Prepared by/Author:** US EPA Region V  
**Preparer/Author Address:**  
**Prepared For:** U.S. Department of Justice  
**Date Published:** June 2, 1998  
**Key Words and Phrases:**

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**Reference Type:** A **ReferenceID:** 896  
**Title:** *Preliminary Health Assessment for: Allied Corp Kalamazoo Plant*  
**Location:** AEM  
**Category:** Risk Assessment  
**Prepared by/Author:** Michigan Department of Public Health and U.S Department of Health and Human Services, Public Health Service, Agency for Toxic Substances and Disease Registry  
**Preparer/Author Address:**  
**Prepared For:** General Public  
**Date Published:** December 23, 1991  
**Key Words and Phrases:**

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## REFERENCES

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**Project Name** ALLIED PAPER/PORTAGE CREEK/KALAMAZOO RIVER -  
PROJECT 1 (Bryant Mill Pond)

**ProjectID:** 05-01

**Reference Type:**

A

**ReferenceID:** 980

**Title:**

**Final Report - Appendices: A, B1, B2 (CD-ROM)**

**Location:**

AEM

**Category:**

Close-Out Report

**Prepared by/Author:**

Roy F. Weston, Inc.

**Preparer/Author  
Address:**

Vernon Hills, IL

**Prepared For:**

US EPA Region V; USACE - Omaha District

**Date Published:**

January 2000

**Key Words and  
Phrases:**

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**Reference Type:**

A

**ReferenceID:** 981

**Title:**

**Final Report - Appendices: C1 thru N (CD-ROM)  
(June '98 - July '98)  
(AEM Note: Also contains Appendices O, P, and Q)**

**Location:**

AEM

**Category:**

Close-Out Report

**Prepared by/Author:**

Roy F. Weston, Inc.

**Preparer/Author  
Address:**

Vernon Hills, IL

**Prepared For:**

US EPA Region V; USACE - Omaha District

**Date Published:**

January 2000

**Key Words and  
Phrases:**

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## REFERENCES

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**Project Name** **ALLIED PAPER/PORTAGE CREEK/KALAMAZOO RIVER -  
PROJECT 1 (Bryant Mill Pond)**

**ProjectID:** 05-01

**Reference Type:** B

**ReferenceID:** 265

**Title:** ***E-Mail Update on Bryant Mill Pond***

**Location:** AEM

**Category:** Site Update

**Prepared by/Author:** A. Silfer

**Preparer/Author  
Address:** General Electric Environmental Programs  
General Electric Company  
100 Woodlawn Avenue  
Pittsfield, MA 01201

**Prepared For:** Internal Distribution

**Date Published:** June 17, 1998

**Key Words and  
Phrases:**

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**Reference Type:** B

**ReferenceID:** 459

**Title:** ***Information Bulletin - Time Critical Removal was an Outstanding  
Success!***

**Location:** AEM

**Category:** Site Update

**Prepared by/Author:** Michigan Department of Environmental Quality

**Preparer/Author  
Address:**

**Prepared For:** General Public

**Date Published:** December 1999

**Key Words and  
Phrases:**

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## REFERENCES

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**Project Name** ALLIED PAPER/PORTAGE CREEK/KALAMAZOO RIVER -  
PROJECT 1 (Bryant Mill Pond)

**ProjectID:** 05-01

**Reference Type:** B

**ReferenceID:** 784

**Title:** *Realizing Remediation I - Great Lakes Contaminated Sediments  
Kalamazoo River - Allied Paper  
(see Reference A-905)*

**Location:** AEM

**Category:** Dredging: Remedial (Contaminated Sediments)

**Prepared by/Author:** US EPA Great Lakes National Program Office (GLNPO)

**Preparer/Author  
Address:** 77 West Jackson Boulevard (G-17J)  
Chicago, IL 60604

**Prepared For:** General Public

**Date Published:** August 1, 2002

**Key Words and  
Phrases:**

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**Reference Type:** B

**ReferenceID:** 815

**Title:** *Realizing Remediation II - Updated Summary:  
Kalamazoo River - Allied Paper (Project 1)  
(see Reference A-907)*

**Location:** AEM

**Category:** Dredging: Remedial (Contaminated Sediments)

**Prepared by/Author:** US EPA Great Lakes National Program Office (GLNPO)

**Preparer/Author  
Address:** 77 West Jackson Boulevard (G-17J)  
Chicago, IL 60604

**Prepared For:** General Public

**Date Published:** July 2000

**Key Words and  
Phrases:**

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## REFERENCES

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**Project Name** **ALLIED PAPER/PORTAGE CREEK/KALAMAZOO RIVER -  
PROJECT 1 (Bryant Mill Pond)**

**ProjectID:** 05-01

**Reference Type:** C

**ReferenceID:** 262

**Title:** **Roy F. Weston provides Subcontract Opportunities at Allied Paper**

**Location:** AEM

**Category:** Site Update

**Prepared by/Author:**

**Preparer/Author  
Address:**

**Prepared For:** Superfund Week

**Date Published:** June 19, 1998

**Key Words and  
Phrases:**

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**Reference Type:** C

**ReferenceID:** 578

**Title:** **Sediment Remediation Can Improve Great Lakes Water Quality**

**Location:** AEM

**Category:** Miscellaneous

**Prepared by/Author:** (1) John H. Hartig, (2) Lisa Maynard, (3) Michael A. Zarull, (4) Gail Krantzberg

**Preparer/Author  
Address:** (1) Greater Detroit American Heritage River Institute  
Detroit, MI

(2) International Joint Commission  
Windsor, Ontario, Canada

(3) National Water Research Institute  
Burlington, Ontario, Canada

(4) Ontario Ministry of Environment

**Prepared For:** Water Environment & Technology (WE&T)

**Date Published:** October 1999

**Key Words and  
Phrases:**

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## REFERENCES

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**Project Name** ALLIED PAPER/PORTAGE CREEK/KALAMAZOO RIVER -  
PROJECT 1 (Bryant Mill Pond)

**ProjectID:** 05-01

**Reference Type:** M **ReferenceID:** 249  
**Title:** *Environmental Dredging: An Evaluation of Its Effectiveness in Controlling Risks*  
**Location:** AEM  
**Category:** Contaminated Sediments: Overview of Issues  
**Prepared by/Author:** Blasland, Bouck & Lee, Inc.  
**Preparer/Author Address:** 6723 Towpath Road  
P.O. Box 66  
Syracuse, NY 13214  
**Prepared For:** General Electric Company  
**Date Published:** August 2000  
**Key Words and Phrases:**

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**Reference Type:** R **ReferenceID:** 26  
**Title:** *Letter to PRP re: Case Histories: Contaminated Sediment Sites (with written response from Drinker Biddle & Reath)*  
**Location:** AEM  
**Category:** Site Update  
**Prepared by/Author:** AEM, Inc.  
**Preparer/Author Address:** Malvern, PA 19355  
**Prepared For:** Drinker Biddle & Reath, submitted to  
**Date Published:** May 14, 1999  
**Key Words and Phrases:**

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## **FISH ADVISORIES**

**Project Name** **ALLIED PAPER/PORTAGE CREEK/KALAMAZOO RIVER -  
PROJECT 1 (Bryant Mill Pond)**

**ProjectID:** 05-01

<b>Advisory:</b>	Portage Creek	<b>AdvisoryID:</b> 149
<b>Extent:</b>	Downstream from Monarch Mill Pond (Kalamazoo County)	
<b>Pollutant:</b>	PCBs (total)	
<b>Species:</b>	all fish except banned species	
<b>Population:</b>	RGP	
<b>Population Definition:</b>	Restricted Consumption-General Population: Advises the general population to restrict the size of the organisms and/or the frequency of meals consumed.	
<b>Advisory Type:</b>	River	<b>Advisory Number:</b> 243
<b>Status (Active or Rescinded):</b>	Active	<b>Date Rescinded:</b>
<b>Contact Name:</b>	David R. Wade	<b>Contact Number:</b> 517-335-8834
<b>Advisory:</b>	Portage Creek	<b>AdvisoryID:</b> 150
<b>Extent:</b>	Downstream from Monarch Mill Pond (Kalamazoo County)	
<b>Pollutant:</b>	PCBs (total)	
<b>Species:</b>	bass-largemouth	
<b>Population:</b>	NCGP	
<b>Population Definition:</b>	No Consumption-General Population: Advise against consumption by the general population.	
<b>Advisory Type:</b>	River	<b>Advisory Number:</b> 243
<b>Status (Active or Rescinded):</b>	Active	<b>Date Rescinded:</b>
<b>Contact Name:</b>	David R. Wade	<b>Contact Number:</b> 517-335-8834
<b>Advisory:</b>	Portage Creek	<b>AdvisoryID:</b> 151
<b>Extent:</b>	Downstream from Monarch Mill Pond (Kalamazoo County)	
<b>Pollutant:</b>	PCBs (total)	
<b>Species:</b>	bass-smallmouth	
<b>Population:</b>	NCGP	
<b>Population Definition:</b>	No Consumption-General Population: Advise against consumption by the general population.	
<b>Advisory Type:</b>	River	<b>Advisory Number:</b> 243
<b>Status (Active or Rescinded):</b>	Active	<b>Date Rescinded:</b>
<b>Contact Name:</b>	David R. Wade	<b>Contact Number:</b> 517-335-8834

## **FISH ADVISORIES**

**Project Name** **ALLIED PAPER/PORTAGE CREEK/KALAMAZOO RIVER -  
PROJECT 1 (Bryant Mill Pond)**

**ProjectID:** 05-01

**Advisory:** Portage Creek **AdvisoryID:** 152  
**Extent:** Downstream from Monarch Mill Pond (Kalamazoo County)  
**Pollutant:** PCBs (total)  
**Species:** carp-common  
**Population:** NCGP  
**Population Definition:** No Consumption-General Population: Advise against consumption by the general population.

**Advisory Type:** River **Advisory Number:** 243

**Status (Active or Rescinded):** Active **Date Rescinded:**

**Contact Name:** David R. Wade **Contact Number:** 517-335-8834

**Advisory:** Portage Creek **AdvisoryID:** 153  
**Extent:** Downstream from Monarch Mill Pond (Kalamazoo County)  
**Pollutant:** PCBs (total)  
**Species:** catfish  
**Population:** NCGP  
**Population Definition:** No Consumption-General Population: Advise against consumption by the general population.

**Advisory Type:** River **Advisory Number:** 243

**Status (Active or Rescinded):** Active **Date Rescinded:**

**Contact Name:** David R. Wade **Contact Number:** 517-335-8834

**Advisory:** Portage Creek **AdvisoryID:** 154  
**Extent:** Downstream from Monarch Mill Pond (Kalamazoo County)  
**Pollutant:** PCBs (total)  
**Species:** all fish  
**Population:** NCSP  
**Population Definition:** No Consumption-Subpopulation(s): Advises against consumption for populations that are potentially at greater risk, e.g., pregnant or nursing women, and small children.

**Advisory Type:** River **Advisory Number:** 243

**Status (Active or Rescinded):** Active **Date Rescinded:**

**Contact Name:** David R. Wade **Contact Number:** 517-335-8834

## ***FISH ADVISORIES***

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***Project Name*** ***ALLIED PAPER/PORTAGE CREEK/KALAMAZOO RIVER -  
PROJECT 1 (Bryant Mill Pond)***

***ProjectID:*** 05-01

***Advisory:*** Portage Creek

***AdvisoryID:*** 155

***Extent:*** Downstream from Monarch Mill Pond (Kalamazoo County)

***Pollutant:*** PCBs (total)

***Species:*** sucker

***Population:*** NCGP

***Population Definition:*** No Consumption-General Population: Advise against consumption by the general population.

***Advisory Type:*** River

***Advisory Number:*** 243

***Status (Active or  
Rescinded):*** Active

***Date Rescinded:***

***Contact Name:*** David R. Wade

***Contact Number:*** 517-335-8834

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