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Mr James Saric
Remedial Project Manager
USEPA Region 5
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Subject
Allied Paper, Inc /Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies Monthly Progress Report
Area 1 – Morrow Dam to Plainwell Dam (April 2009)

SEDIMENTS

Date
May 15, 2009

Contact
Michael J Erickson, P E

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Our ref
B0064539 00014 #2

Dear Jim.

Attached is the 26th monthly progress report for the Allied Paper, Inc /Portage Creek/Kalamazoo River Superfund Site Supplemental Remedial Investigation/ Feasibility Study (SRI/FS) – Area 1 This progress report is submitted as per Paragraph 37 of the February 2007 Administrative Settlement Agreement and Order on Consent (AOC) for Remedial Investigations/Feasibility Studies (Docket No. V-W-07-C-864), as well as Section 7 1 of the associated Statement of Work (SOW) If you have any questions, please do not hesitate to contact me

Sincerely,

ARCADIS

Michael J. Erickson, P E
Associate Vice President

Attachments

Copies
Michael Berkoff, USEPA
Sam Chummar, USEPA
Michael Ribordy, USEPA
Paul Bucholtz, MDEQ (with Attachment A)
Jeff Keiser, CH2M HILL (with Attachment A)
Todd Goeks, NOAA (with Attachment A)
Kathy Huibregtse, RMT Inc (with Attachment A)
J Michael Davis, Esq , Georgia-Pacific LLC
Garry Griffith, P E , Georgia-Pacific LLC
Paul Montney, P E , Georgia-Pacific LLC
L Chase Fortenberry, P G , Georgia-Pacific LLC

US EPA RECORDS CENTER REGION 5
407033

MONTHLY PROGRESS REPORT FOR THE ALLIED PAPER, INC./PORTAGE CREEK/ KALAMAZOO RIVER SUPERFUND SITE SRI/FS AREA 1 (MORROW DAM TO PLAINWELL DAM)

REPORT #26, APRIL 2009

PREPARED BY ARCADIS
MAY 15, 2009

ON BEHALF OF THE KALAMAZOO RIVER STUDY GROUP (KRSG)

SUBMITTED TO

JAMES SARIC, REMEDIAL PROJECT MANAGER
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA)

Monthly Progress Report for the Allied Paper, Inc./Portage Creek/ Kalamazoo River Superfund Site SRI/FS – Area 1

REPORT #26, APRIL 2009

Significant Developments and Activities during the Period, Including Actions Undertaken Pursuant to the AOC and SOW

- On April 8, ARCADIS forwarded to USEPA the analytical results for soil samples collected at the Georgia-Pacific Kalamazoo Former Mill Lagoons on April 1

- On April 16, ARCADIS forwarded to USEPA the Portage Creek sediment data from the Phase 2 SRI sampling The Phase 2 sampling is discussed in Section 3 4 1 3 of the Area 1 SRI/FS Work Plan

- On April 16, ARCADIS submitted to USEPA the revised Phase 2 work plan for the Crown Vantage area and the revised Phase 2 work plan for the focused step-out sampling in Area 1 The Crown Vantage sampling is described in Section 3 4 3 of the Area 1 SRI/FS Work Plan. The focused step-out sampling is described in Section 3 4 4 of the Area 1 SRI/FS Work Plan

- On April 21, ARCADIS, USEPA, Michigan Department of Environmental Quality (MDEQ), and the Trustees met in Detroit to discuss the general approaches to be used in the Area 1 Ecological Risk Assessment Work Plan

- On April 21, ARCADIS submitted to USEPA the revised *Source Investigation at the Former Kalamazoo and Hawthorne Mill Properties*, which is discussed in Section 2 2 1 1 of the SOW

- On April 24, the National Oceanic and Atmospheric Administration transmitted to ARCADIS updated files for the site Query Manager database

- On April 27, ARCADIS, Georgia-Pacific, USEPA, and MDEQ met in Detroit to discuss the Area 1 data On April 28, ARCADIS forwarded to USEPA a list of action items from the meeting

- On April 30, ARCADIS submitted to USEPA the Lake Allegan sediment profile imaging and sampling plan Lake Allegan is Area 6 of Operable Unit 5

- Georgia-Pacific awaits USEPA's response to the letter requesting USEPA's data usability determination for existing data for purposes of the SRI/FS, which was submitted to USEPA on August 27, 2007 These data are described in Section 1 1 2 of the SOW

- Georgia-Pacific awaits USEPA's comments on the remaining two Multi-Area FS documents described in Section 1 2 2 of the SOW (Preliminary Remedial Technology Screening [Section 1 2 2 1] and Preliminary Permitting/Equivalency Requirements [Section 1 2 2 3]) and the Candidate Technologies and Testing Needs Technical Memorandum (described in Section 4 1 of the SOW), which were submitted to USEPA on February 22, 2008

Monthly Progress Report for the Allied Paper, Inc./Portage Creek/ Kalamazoo River Superfund Site SRI/FS – Area 1

REPORT #26, APRIL 2009

- Georgia-Pacific awaits USEPA approval of the revised draft Conceptual Site Model (CSM) Report, which was submitted in March 2009 Once received, the document will be finalized The CSM is discussed in Section 1 2 1 4 of the SOW

- Georgia-Pacific awaits USEPA approval regarding the revised Phase 2 work plan for the Crown Vantage area and the revised Phase 2 work plan for the focused step-out sampling in Area 1

- Georgia-Pacific awaits USEPA comments on the revised *Source Investigation at the Former Kalamazoo and Hawthorne Mill Properties.*

Data Collected and Field Activities Conducted during the Period

- On April 1, ARCADIS collected soil samples in Former Georgia-Pacific Kalamazoo Mill Lagoons 4 and 5 for analysis Table A summarizes the samples that were sent to KAR Laboratories, Inc for PCB analysis

- On April 6, ARCADIS surveyed the locations of the staff gauges in the Plainwell time-critical removal action (TCRA) area that were installed in March Table B provides the coordinates and elevation data.

- In April, ARCADIS continued to monitor groundwater and surface water elevations at least twice a week for 2 weeks to confirm groundwater flow towards the river in the Plainwell TCRA area (Table C) (monitoring began in March) Once flow was confirmed, ARCADIS sampled these 15 wells (during the week of April 13) Table D summarizes the samples that were sent to TestAmerica Laboratories, Inc (TestAmerica) for analysis These wells are discussed in Section 3 4 6 of the Area 1 SRI/FS Work Plan

Laboratory Data Received during the Period

- In April, ARCADIS received the analytical results from TestAmerica for the post-removal sediment sampling completed in March in the Plainwell TCRA area (sample delivery groups [SDGs] TCRA116 through TCRA118) This activity is described in Section 3 4 5 of the Area 1 SRI/FS Work Plan Table E presents the samples for which data were received

- On April 11, ARCADIS received the PCB results for the soil samples collected on April 1 in the Former Georgia-Pacific Kalamazoo Mill Lagoons 4 and 5 All sample results were non-detect. The data are presented in the revised *Source Investigation at the Former Kalamazoo and Hawthorne Mill Properties* Note that the data will not be validated

- ARCADIS awaits the results of the groundwater samples collected from the wells in the Plainwell TCRA area

- Validated data for the SDGs received in February from TestAmerica are included in this monthly report These data include the Phase 2 sediment cores collected in Portage Creek in December 2008 (SDG SRI067) (Section 3 4 1 3 of the Area 1 SRI/FS Work Plan) (Table F and G), the frozen sediment cores processed in December 2008 in accordance with the SRI Phase 2 sediment core analyses plan (SDGs SRI068 through SRI078) (Table H and I), the four sediment cores that were collected from the river as duplicates of cores collected in Phase 1 sampling at locations KPT 4-2, KPT 5-3, KPT 12-8, and KPT 16-8 (SDG SRI079 and SRI080) (Table J) (Section 3 4 1 1 of the Area 1 SRI/FS Work Plan), and the surface water samples collected between January 22 and 30, 2009 (SDG TCRA115) (Section 3 4 5 of the Area 1 SRI/FS Work Plan) (Table K) In accordance with Section 2 1 of the SOW, paper and electronic copies of these laboratory data are included as part of the monthly progress reports Attachment A contains the validation reports for these data packages The enclosed CD also contains the electronic data deliverable for these data

Problems

- No problems were encountered

Actions Taken to Correct Problems

- None

Developments Anticipated during the Next Two Reporting Periods

- On May 6, Georgia-Pacific, ARCADIS, and the Michigan Department of Natural Resources are scheduled to meet at the Plainwell No 2 Dam Area to tour the area

- Beginning on May 11, ARCADIS is scheduled to perform Lake Allegan sediment profile imaging and sampling

- In June, ARCADIS is scheduled to collect the samples outlined in both the revised Phase 2 work plan for the Crown Vantage area and the revised Phase 2 work plan for the focused step-out sampling in Area 1

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #26, April 2009

Table A — Former Georgia-Pacific Kalamazoo Mill — Soil Cores Collected in April 2009

Sample ID	Depth of Boring (ft)	Interval (inches)	Description
G52092D	3 0	0-12	Some sand/fill, brown and dark gray sandy material
		12-24	Dark gray sandy material
		24-36	Dark gray sandy material
G52092E	3 0	0-12	Some sand/fill, brown and dark gray sandy material
		12-24	Dark gray/brown sandy material
		24-36	Dark gray sandy material
G52092F	3 0	0-12	Mostly sandy fill material - brown
		12-24	Dark gray/brown sandy material
		24-30	Dark gray/black sandy material
G52048G	4 0	0-12	Black fill material
		12-24	Brown/gray clayey sand
		24-36	Dark gray clayey sand
		36-48	Dark brown/gray clayey sand
G52048H	4 0	0-12	Black fill material
		12-24	Brown/gray clayey sand
		24-36	Brown/gray clayey sand
		36-48	Brown/gray clayey sand
G52048I	4 0	0-12	Black fill material
		12-21	Brown/gray clayey sand
		24-36	Brown/gray clayey sand, some gray clay mottling
		36-48	Dark gray clayey sand

Notes:
All samples collected using geoprobe on April 1
All samples had no signs of visible paper-making residuals
All samples sent to KAR Laboratories, Inc for PCB analysis

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
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Table B — Coordinates and Elevations — Staff Gauges Installed in the Plainwell TCRA Area

Staff Gauge ID	Coordinates		Elevation (ft)	Remarks
	Northing	Easting		
SG-01_09085	350394 4	12775769 3	708 00	At Route 131 Bridge
			708 0	Edge Water (4/06/09)
SG-02_09085	350979 9	12772024 3	703 00	At south bank, upstream of water control structure
			702 1	Edge Water (4/07/09)
SG-03_09085	350360 5	12772101 6	705 00	At the southeast corner of aggregate pond
			703 6	Edge Water (4/06/09)
SG-04_09085	350988 8	12772385 0	703 00	At north bank, behind old phase 2 cofferdam
			702 3	Edge Water (4/06/09)
SG-05_09085	350076 1	12773475 4	704 00	At north bank, in front of MW-05
			703 6	Edge Water (4/06/09)

Notes:
Coordinates are based on the North American Datum of 1983, Michigan South Zone
Elevations are based on the National Geodetic Vertical Datum of 1929

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Table C — Water Elevations — Wells and Staff Gauges — Plainwell TCRA Area

Location	Water Level Elevation Date						
	3/27/09	3/30/09	4/2/09	4/3/09	4/5/09	4/13/09	4/17/09
Staff Gauges							
SG-1	707 45	707 55	707 65	707 90	708 18	707 88	707 88
SG-2	700 75	701 00	701 20	701 65	702 28	701 55	701 55
SG-3	703 30	703 30	703 37	703 44	703 82	703 70	703 55
SG-4	701 30	701 55	701 77	702 10	702 61	702 05	702 08
SG-5	702 80	703 00	703 18	703 49	703 86	703 42	703 40
Monitoring Wells							
MW-1	701 67	701 83	702 00	702 20	702 64	702 28	702 20
MW-2	701 81	701 95	702 12	702 36	702 81	702 45	702 36
MW-3	702 28	702 43	702 61	702 86	703 31	702 93	702 85
MW-4	702 75	702 89	703 06	703 28	703 74	703 49	703 29
MW-5	703 02	703 17	703 35	703 58	704 02	703 66	703 58
MW-6	701 66	701 83	702 00	702 17	702 69	702 33	702 23
MW-7	702 00	702 16	702 33	702 56	703 03	702 65	702 58
MW-8	702 44	702 60	702 78	703 02	703 49	703 10	703 02
MW-9	702 88	702 96	703 07	703 19	703 65	703 46	703 28
MW-10	704 54	704 69	704 83	705 07	705 44	705 12	705 05
MW-11	705 05	705 18	705 33	705 56	705 96	705 63	705 55
MW-12	706 28	706 40	706 50	706 81	707 10	706 78	706 73
MW-13	705 43	705 54	705 68	705 91	706 27	705 99	705 89
MW-14	705 70	705 83	705 98	706 22	706 59	706 28	706 19
MW-15	706 11	706 19	706 33	706 53	706 88	706 64	706 52
Groundwater - Surface Water Gradients (ft/ft) (positive gradient indicates groundwater flow to river)							
MW-5 - SG-5	0 22	0 17	0 17	0 09	0 16	0 24	0 18
MW-1 - SG-4	0 37	0 28	0 23	0 10	0 03	0 23	0 12

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Table D — Plainwell TCRA Area — Groundwater and Surface Water Samples Collected in April 2009

Date Sampled	Sample ID	Location ID
4/13/2009	TS40000	MW-12
	TS40001	MW-14
	TS31000	SG-5
4/14/2009	TS40002 [TS40003]	MW-11
	TS40004	MW-13
	TS40005	MW-10
	TS40006	MW-15
4/15/2009	TS40007	MW-4
	TS40008	MW-5
	TS40009	MW-8
	TS40010	MW-3
	TS40011	MW-7
4/16/2009	TS40012	MW-2
	TS40013[1]	MW-6
	TS40014 [TS40015]	MW-1
4/17/2009	TS40016	MW-9
	TS31001[1] [TS31002]	SG-5

Notes:
All samples sent to TestAmerica Laboratories, Inc for the following analyses PCBs, total organic carbon (TOC), total dissolved solids (TDS), total suspended solids (TSS), chloride, sulfate and alkalinity, and total metals (i e , sodium, calcium, potassium, magnesium)

[1]MS/MSD performed on this sample

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
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Table E — Post-Removal Surface Sediment Samples in Plainwell TCRA Area — Data Received in April 2009

Date Collected	Sample Location	Original Sample ID	Corrected Sample ID	SDG
3/9/2009	PCS-9A-1	K56226	K56250	TCRA116
	PCS-9A-2	K56227	K56251	TCRA116
	PCS-9A-3	K56231	K56255	TCRA116
	PCS-9B-1	K56229	K56253	TCRA116
	PCS-9B-2	K56230	K56254	TCRA116
	PCS-9B-3	K56228	K56252	TCRA116
	PCS-10A-1	K56232	K56256	TCRA116
	PCS-10A-2	K56233	K56257	TCRA116
	PCS-10A-3	K56234	K56258	TCRA116
	PCS-10B-1	K56235	K56259	TCRA116
	PCS-10B-2	K56236	K56260	TCRA116
	PCS-10B-3	K56237	K56261	TCRA116
3/10/2009	PCS-11A-1	K56241	K56265	TCRA116
	PCS-11A-2	K56242	K56266	TCRA116
	PCS-11A-3	K56243	K56267	TCRA116
	PCS-12B-2	K56244	K56268	TCRA116
	PCS-12B-3	K56245 [K56246]	K56269 [K56270]	TCRA116 [TCRA117]
	PCS-MCC-1	K56238	K56262	TCRA116
	PCS-MCC-2[1]	K56239	K56263	TCRA116
	PCS-MCC-3	K56240	K56264	TCRA116
3/12/2009	PCS-11B-1 rev[1,2]	K56248	K56272	TCRA118
	PCS-11B-2 rev[2]	K56249	K56273	TCRA118
	PCS-11B-3	K56250	K56274	TCRA118
	PCS-12A-1	K56251 [K56252]	K56275 [K56276]	TCRA118 [TCRA118]
	PCS-12A-2	K56253	K56277	TCRA118
	PCS-12A-3	K56254	K56278	TCRA118
	PCS-12B-1 rev[2]	K56260	K56284	TCRA118
	PCS-13A-1	K56259	K56283	TCRA118
	PCS-13A-2	K56258	K56282	TCRA118
	PCS-13A-3	K56274	K56298	TCRA117
	PCS-13B-1 rev[2]	K56257	K56281	TCRA118
	PCS-13B-2 rev[2]	K56256	K56280	TCRA118
	PCS-13B-3	K56255	K56279	TCRA118
	PCS-CD1-1	K56261	K56285	TCRA118
	PCS-CD1-2	K56262	K56286	TCRA118
	PCS-CD1-3	K56263 [K56264]	K56287 [K56288]	TCRA118 [TCRA118]
	PCS-CD2-1	K56265	K56289	TCRA118
	PCS-CD2-2	K56266	K56290	TCRA118
	PCS-CD2-3[1]	K56267	K56291	TCRA117
	PCS-MCA-1	K56268	K56292	TCRA118
	PCS-MCA-2	K56269	K56293	TCRA117
	PCS-MCA-3	K56270	K56294	TCRA117
	PCS-MCB-1	K56271	K56295	TCRA117
	PCS-MCB-2	K56272	K56296	TCRA117
	PCS-MCB-3	K56273	K56297	TCRA117

See Notes on Page 2

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
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Table E — Post-Removal Surface Sediment Samples in Plainwell TCRA Area — Data Received in April 2009

Notes

1 All samples are the 0- to 2-inch interval
2 All samples collected were shipped to Test America - South Burlington for PCB, TOC and par ticle grain size distribution anal ysis
3 Duplicate sampl es are in brack ets
4 No sampl es were collected on 3/11/09 due to high fl ow conditions in the riv er and sustained wind speeds of 25-23 mph

SDG - sample delivery group

[1]MS/MSD perfor med on this sample

[2]Five sample locations were revised in the field (PCS-11B-1 , PCS-11B-2, PCS-12B-1, PCS-13B- 1 and PCS-13B-2) those locations are noted in the table (i e , P CS-11B-1 rev)

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Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
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Table F — PCB Results for Phase 2 Sediment Cores Collected in Portage Creek - Data Received in February 2009

Sample Name:		K55995	K55996	K55997	K55998	K55999	K56000	K56001	K56002	K56003	K56004	K56005	K56006	K56007	K56008	K56009
Sample Depth (in):		2 - 6	6 - 12	12 - 25	25 - 31	31 - 35	0 - 2	2 - 7	7 - 12	12 - 21	21 - 23	23 - 26	0 - 2	2 - 6	6 - 12	12 - 15
Date Collected:		12/12/08	12/12/08	12/12/08	12/12/08	12/12/08	12/12/08	12/12/08	12/12/08	12/12/08	12/12/08	12/12/08	12/12/08	12/12/08	12/12/08	12/12/08
Location ID:	Units	PCT24-1	PCT24-1	PCT24-1	PCT24-1	PCT24-1	PPT10-2	PPT10-2	PPT10-2	PPT10-2	PPT10-2	PPT10-2	PCT03-3	PCT03-3	PCT03-3	PCT03-3
PCB Aroclors																
Aroclor-1016	mg/kg	0 11 U	0 060 U	0 059 U	0 21 UJ	0 062 U	0 063 U	0 19 U	0 11 U	4 0 U [7 8 U]	0 79 U	0 60 U	0 052 U	0 052 U	0 054 U	0 16 U
Aroclor-1221	mg/kg	0 11 U	0 060 U	0 059 U	0 21 UJ	0 062 U	0 063 U	0 19 U	0 11 U	4 0 U [7 8 U]	0 79 U	0 60 U	0 052 U	0 052 U	0 054 U	0 16 U
Aroclor-1232	mg/kg	0 11 U	0 060 U	0 059 U	0 21 UJ	0 062 U	0 063 U	0 19 U	0 11 U	4 0 U [7 8 U]	0 79 U	0 60 U	0 052 U	0 052 U	0 054 U	0 16 U
Aroclor-1242	mg/kg	1 3	0 19	0 23	0 21 UJ	0 062 U	0 076	1 0	0 76	51 [64]	5 9	2 5	0 085	0 15	0 060	0 16 U
Aroclor-1248	mg/kg	0 11 U	0 060 U	0 059 U	0 21 UJ	0 062 U	0 059 J	0 19 U	0 11 U	4 0 U [7 8 U]	0 79 U	0 60 U	0 074	0 068	0 079	1 9
Aroclor-1254	mg/kg	0 16	0 060 U	0 34	0 21 UJ	0 062 U	0 063 U	0 19 U	0 063 J	4 6 J [4 3 J]	0 45 J	0 60 UJ	0 052 UJ	0 052 UJ	0 054 UJ	1 1 J
Aroclor-1260	mg/kg	0 11 UJ	0 060 UJ	0 059 UJ	0 21 UJ	0 062 UJ	0 063 UJ	0 25 J	0 11 UJ	4 0 U [7 8 U]	0 79 U	0 60 U	0 052 U	0 052 U	0 054 U	0 16 U
Total PCBs	mg/kg	1 5	0 19	0 57	0 21 UJ	0 062 UJ	0 14 J	1 3 J	0 82 J	56 [68]	6 4 J	2 5	0 16	0 22	0 14	3 0 J
Miscellaneous																
Percent Solids	%	86 7	83 8	84 8	23 6	81	79 4	77	91 8	62 4 [64 5]	63 4	82 9	95 5	95 7	92 6	62 2
Total Organic Carbon	mg/kg	12400 J	9530 J	3360 J	318000 J	4700 J	3750 J	12100 J	4470 J	55800 J [35800 J]	79500 J	17800 J	24000 J	30200 J	9680 J	42300 J

Notes:
Data received in February 2009
Duplicate results are in brackets
J - The compound was positively identified, however, the associated numerical value is an estimated concentration only
U - The compound was analyzed for but not detected The associated value is the compound quantitation limit
UJ - The compound was not detected above the reported sample quantitation limit However, the reported limit is approximate and may or may not represent the actual limit of quantitation

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Table G — Grain Size Results for Phase 2 Sediment Cores Collected in Portage Creek - Data Received in February 2009

Sample Name:		K55995	K55996	K55997	K55998	K55999	K56000	K56001	K56002	K56003	K56004	K56005	K56006	K56007	K56008	K56009
Sample Depth (in):		2 - 6	6 - 12	12 - 25	25 - 31	31 - 35	0 - 2	2 - 7	7 - 12	12 - 21	21 - 23	23 - 26	0 - 2	2 - 6	6 - 12	12 - 15
Date Collected:		12/12/08	12/12/08	12/12/08	12/12/08	12/12/08	12/12/08	12/12/08	12/12/08	12/12/08	12/12/08	12/12/08	12/12/08	12/12/08	12/12/08	12/12/08
Location ID:	Units	PCT24-1	PCT24-1	PCT24-1	PCT24-1	PCT24-1	PPT10-2	PPT10-2	PPT10-2	PPT10-2	PPT10-2	PPT10-2	PCT03-3	PCT03-3	PCT03-3	PCT03-3
Grain Size Analysis																
Gravel	%	17 7	4 9	0 8	2 4	0 5	28 2	17	27 2	4 4 [6 2]	0 2	12 4	80 8	68	48 6	18 4
Coarse Sand	%	15 9	6 2	2 3	2 7	2 6	14 7	14 1	20 5	8 3 [9 5]	1 6	13 2	9 5	12 9	15	7 6
Medium Sand	%	25 6	19 5	31	21 4	19 5	24 1	23	21 1	21 9 [23 4]	3 5	22 2	7 1	13 8	23 7	30 1
Fine Sand	%	33 1	60	62 9	42 5	66 5	29 7	39 6	29 9	35 3 [37 9]	21 9	30 2	2	4 5	11 6	35 4
Silt	%	6 4	7 4	2 4	26 5	6 3	3	5 5	0 6	21 7 [17 5]	45 8	13	0 6	0 7	0 7	6 6
Clay	%	1 3	2	0 6	4 5	4 6	0 4	0 8	0 6	8 4 [5 6]	27	9	0	0 2	0 3	1 9
75000	% passing	100	100	100	100	100	100	100	100	100 [100]	100	100	100	100	100	100
50000	% passing	100	100	100	100	100	100	100	100	100 [100]	100	100	100	100	100	100
37500	% passing	100	100	100	100	100	100	100	100	100 [100]	100	100	100	100	100	100
25000	% passing	100	100	100	100	100	91 9	100	100	100 [100]	100	100	83 6	88 7	100	100
19000	% passing	100	100	100	100	100	91 9	100	100	100 [100]	100	100	73 8	83 7	96 7	100
9500	% passing	93 9	98 7	100	100	100	85 2	94 8	94 1	98 2 [97 9]	100	91 3	36 7	51 6	74 7	89 2
4750	% passing	82 3	95 1	99 2	97 6	99 5	71 8	83	72 8	95 6 [93 8]	99 8	87 6	19 2	32	51 4	81 6
2000	% passing	66 4	88 9	96 9	94 9	96 9	57 2	68 8	52 3	87 3 [84 4]	98 2	74 4	9 7	19 2	36 4	74
850	% passing	55 9	83 3	89 3	92 5	89 8	45 7	57 9	42 4	77 9 [74 6]	97	64 5	5 2	11 6	24 9	64 2
425	% passing	40 8	69 4	65 9	73 6	77 4	33 1	45 9	31 2	65 4 [61]	94 7	52 2	2 6	5 4	12 7	43 9
250	% passing	22 7	41 6	24 1	55 3	48 8	16 3	25	12	47 9 [41 4]	89 3	35 8	1 2	1 9	3 7	19 7
180	% passing	14 7	23 4	9 2	45 6	28 8	8 1	12 1	4 3	38 5 [31 9]	83 7	28 3	0 8	1 2	1 9	12 8
150	% passing	12 1	16 6	5 6	41 6	21 3	5 7	8 9	2 7	35 2 [28 6]	80 6	25 8	0 7	1 1	1 5	11 2
75	% passing	7 7	9 4	3	31	10 9	3 4	6 3	1 3	30 1 [23 1]	72 8	22	0 6	0 9	1 1	8 5
Hydrometer Reading 1	% passing (size, um)	5 6 (37)	7 3 (36)	2 2 (37)	27 3 (37)	7 7 (37)	1 3 (37)	1 6 (37)	1 3 (37)	22 7 (33) [17 8 (35)]	65 5 (32)	17 (35)	0 2 (38)	0 7 (37)	1 (37)	4 4 (37)
Hydrometer Reading 2	% passing (size, um)	4 5 (23)	5 3 (23)	1 7 (24)	18 2 (24)	6 1 (24)	1 3 (24)	1 6 (24)	1 3 (24)	19 3 (21) [14 (22)]	57 8 (21)	15 2 (22)	0 2 (24)	0 7 (24)	1 (24)	3 8 (23)
Hydrometer Reading 3	% passing (size, um)	3 4 (13 6)	3 2 (13 6)	1 7 (13 6)	13 6 (13 6)	4 6 (13 6)	1 3 (13 6)	1 2 (13 6)	0 9 (13 6)	13 4 (12 8) [8 4 (13 3)]	44 3 (12 4)	12 5 (13)	0 2 (13 8)	0 7 (13 6)	1 (13 6)	3 1 (13 5)
Hydrometer Reading 4	% passing (size, um)	2 4 (9 5)	2 (9 4)	1 1 (9 7)	9 1 (9 7)	4 6 (9 6)	0 8 (9 5)	0 8 (9 7)	0 6 (9 7)	10 9 (9 4) [6 6 (9 3)]	34 7 (8 8)	10 8 (9 1)	0 (9 5)	0 4 (9 7)	0 7 (9 7)	2 5 (9 6)
Hydrometer Reading 5	% passing (size, um)	1 3 (6 9)	2 (6 9)	0 6 (6 7)	4 5 (7 1)	4 6 (6 7)	0 4 (7 1)	0 8 (6 9)	0 6 (7)	8 4 (6 7) [5 6 (6 8)]	27 (6 5)	9 (6 7)	0 (6 9)	0 2 (6 7)	0 3 (7 1)	1 9 (6 7)
Hydrometer Reading 6	% passing (size, um)	0 9 (3 3)	0 8 (3 3)	0 5 (3 4)	3 8 (3 4)	2 8 (3 4)	0 3 (3 5)	0 8 (3 3)	0 6 (3 3)	5 9 (3 3) [3 7 (3 2)]	17 3 (3 3)	6 3 (3 4)	0 (3 3)	0 2 (3 4)	0 3 (3 4)	1 3 (3 4)
Hydrometer Reading 7	% passing (size, um)	0 9 (1 4)	0 8 (1 4)	0 5 (1 4)	3 8 (1 4)	2 8 (1 4)	0 3 (1 4)	0 8 (1 4)	0 6 (1 4)	4 2 (1 4) [1 9 (1 4)]	9 6 (1 4)	4 5 (1 4)	0 (1 4)	0 2 (1 4)	0 3 (1 4)	1 2 (1 4)

Notes:
Data received in February 2009
Duplicate results are in brackets

Table H — PCB Results for Frozen Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56010	K56011	K56012	K56013	K56014	K56015	K56016	K56017	K56018	K56019	K56020	K56021	K56022	K56023	K56024
Sample Depth (in):		0 - 2	2 - 6	6 - 12	12 - 24	24 - 32	32 - 36	36 - 48	48 - 51	0 - 2	2 - 6	6 - 12	12 - 24	24 - 32	0 - 2	2 - 6
Date Collected:		12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08
Location ID:	Units	KRT11-8	KRT11-8	KRT11-8	KRT11-8	KRT11-8	KRT11-8	KRT11-8	KRT11-8	KRT5-4	KRT5-4	KRT5-4	KRT5-4	KRT5-4	KRT12-4	KRT12-4
PCB Aroclors																
Aroclor-1016	mg/kg	0 064 U	0 057 U	0 062 U	0 057 U	0 056 U	0 11 U	0 059 U	0 055 U	0 078 U	0 059 U	0 32 U	13 U	30 U	0 052 U	0 051 U
Aroclor-1221	mg/kg	0 064 U	0 057 U	0 062 U	0 057 U	0 056 U	0 11 U	0 059 U	0 055 U	0 078 U	0 059 U	0 32 U	13 U	30 U	0 052 U	0 051 U
Aroclor-1232	mg/kg	0 064 U	0 057 U	0 062 U	0 057 U	0 056 U	0 11 U	0 059 U	0 055 U	0 078 U	0 059 U	0 32 U	13 U	30 U	0 052 U	0 051 U
Aroclor-1242	mg/kg	0 23	0 057 U	0 046 J	0 13	0 032 J	0 11 U	0 038 J	0 041 J	0 45	0 15	2 6	170	110	0 090	0 051 U
Aroclor-1248	mg/kg	0 069	0 12	0 19	0 057 U	0 060	0 11 U	0 039 J	0 055 U	0 078 U	0 057 J	0 32 U	13 U	30 U	0 032 J	0 051 U
Aroclor-1254	mg/kg	0 11	0 057 U	0 045 J	0 059	0 051 J	0 11 U	0 059 U	0 055 U	0 11	0 040 J	0 18 J	37	91	0 034 J	0 051 U
Aroclor-1260	mg/kg	0 064 U	0 057 U	0 062 U	0 057 U	0 056 U	0 11 U	0 059 U	0 055 U	0 078 U	0 059 U	0 32 U	13 U	30 U	0 052 U	0 051 U
Total PCBs	mg/kg	0 41	0 12	0 28 J	0 19	0 14 J	0 11 U	0 077 J	0 041 J	0 56	0 25 J	2 8 J	210	200	0 16 J	0 051 U
Miscellaneous																
Percent Solids	%	78	86 8	80 4	86 5	88 7	43 9	84 6	90 3	63 8	83 7	77 8	37 3	49 6	95 7	96 7
Total Organic Carbon	mg/kg	7810	4630 J	4630 J	3860	3720	93700	7120 J	19300 J	13200 J	6350	2940 J	116000 J	86500	61500 J	4070 J

Sample Name:		K56025	K56026	K56027	K56028	K56029	K56030	K56031	K56032	K56033	K56034	K56035	K56036	K56037	K56038	K56039
Sample Depth (in):		6 - 12	12 - 24	24 - 33	0 - 2	2 - 6	6 - 12	12 - 24	24 - 35	0 - 2	2 - 6	6 - 12	12 - 21	0 - 2	2 - 6	6 - 12
Date Collected:		12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08
Location ID:	Units	KRT12-4	KRT12-4	KRT12-4	KRT15-8	KRT15-8	KRT15-8	KRT15-8	KRT15-8	KRT12-1	KRT12-1	KRT12-1	KRT12-1	KRT11-1	KRT11-1	KRT11-1
PCB Aroclors																
Aroclor-1016	mg/kg	0 052 U	0 059 U [0 061 U]	0 061 U	0 060 U	0 055 U	0 052 U	0 054 U [0 054 U]	0 056 U	0 073 U	0 072 U	0 14 U	0 25 U	0 071 U	0 050 U	0 070 U
Aroclor-1221	mg/kg	0 052 U	0 059 U [0 061 U]	0 061 U	0 060 U	0 055 U	0 052 U	0 054 U [0 054 U]	0 056 U	0 073 U	0 072 U	0 14 U	0 25 U	0 071 U	0 050 U	0 070 U
Aroclor-1232	mg/kg	0 052 U	0 059 U [0 061 U]	0 061 U	0 060 U	0 055 U	0 052 U	0 054 U [0 054 U]	0 056 U	0 073 U	0 072 U	0 14 U	0 25 U	0 071 U	0 050 U	0 070 U
Aroclor-1242	mg/kg	0 052 U	0 059 U [0 061 U]	0 061 U	0 060 U	0 055 U	0 052 U	0 054 U [0 054 U]	0 056 U	0 94	1 0	1 0	2 6	0 071 U	0 050 U	0 070 U
Aroclor-1248	mg/kg	0 052 U	0 059 U [0 061 U]	0 061 U	0 35	0 076	0 052 U	0 054 U [0 054 U]	0 056 U	0 073 U	0 072 U	0 14 U	0 25 U	0 071 U	0 050 U	0 070 U
Aroclor-1254	mg/kg	0 052 U	0 059 U [0 061 U]	0 061 U	0 19	0 051 J	0 036 J	0 054 U [0 054 U]	0 056 U	0 19	0 33	0 22	0 77	0 071 U	0 050 U	0 070 U
Aroclor-1260	mg/kg	0 052 U	0 059 U [0 061 U]	0 061 U	0 037 J	0 055 U	0 052 U	0 054 U [0 054 U]	0 056 U	0 073 U	0 072 U	0 14 U	0 25 U	0 071 U	0 050 U	0 070 U
Total PCBs	mg/kg	0 052 U	0 059 U [0 061 U]	0 061 U	0 58 J	0 13 J	0 036 J	0 054 U [0 054 U]	0 056 U	1 1	1 3	1 2	3 4	0 071 U	0 050 U	0 070 U
Miscellaneous																
Percent Solids	%	96 8	85 2 [81 8]	82 2	84 2	90 2	94 7	92 3 [92 3]	88 7	67 5	68 9	71 7	60 7	70 2	62 1	71
Total Organic Carbon	mg/kg	2420 J	4780 J [1910]	2610 J	9420 J	4940	1850 J	2870 J [2790]	1610	40100	28200	23800	66800	14100	76900	23700 J

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Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #25, March 2009

Table H — PCB Results for Frozen Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56040	K56041	K56042	K56043	K56044	K56045	K56046	K56047	K56048	K56049	K56050	K56051	K56052	K56053	K56054	K56055
Sample Depth (in):		12 - 19	0 - 2	2 - 6	6 - 12	12 - 16	0 - 2	2 - 6	6 - 13	0 - 2	2 - 6	6 - 12	12 - 14	0 - 2	2 - 6	6 - 13	0 - 2
Date Collected:		12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08
Location ID:	Units	KRT11-1	KRT14-5	KRT14-5	KRT14-5	KRT14-5	KRT16-1	KRT16-1	KRT16-1	KRT16-8	KRT16-8	KRT16-8	KRT16-8	KRT16-6	KRT16-6	KRT16-6	KRT13-8
PCB Aroclors																	
Aroclor-1016	mg/kg	0 082 U	0 053 U	0 053 U	0 060 U	0 056 U	0 063 U	0 068 U	0 31 U	0 20 U	0 39 U	0 33 U	0 11 U	0 075 U	0 065 U	0 059 U	0 10 U
Aroclor-1221	mg/kg	0 082 U	0 053 U	0 053 U	0 060 U	0 056 U	0 063 U	0 068 U	0 31 U	0 20 U	0 39 U	0 33 U	0 11 U	0 075 U	0 065 U	0 059 U	0 10 U
Aroclor-1232	mg/kg	0 082 U	0 053 U	0 053 U	0 060 U	0 056 U	0 063 U	0 068 U	0 31 U	0 20 U	0 39 U	0 33 U	0 11 U	0 075 U	0 065 U	0 059 U	0 10 U
Aroclor-1242	mg/kg	0 082 U	0 054	0 032 J	0 060 U	0 056 U	0 063 U	0 46	2 4	0 20 U	2 4	2 5	0 11 U	0 85	0 36	0 42	0 10 U
Aroclor-1248	mg/kg	0 082 U	0 053 U	0 053 U	0 060 U	0 056 U	0 17	0 068 U	0 74	2 4	2 6	0 33 U	0 91	0 075 U	0 065 U	0 059 U	0 77
Aroclor-1254	mg/kg	0 082 U	0 048 J	0 053 U	0 060 U	0 056 U	0 063 U	0 12	0 56	0 98	4 7	4 1	0 11 U	0 28	0 10	0 090	0 35
Aroclor-1260	mg/kg	0 082 U	0 053 U	0 053 U	0 060 U	0 056 U	0 13	0 064 J	0 31 U	0 36	1 0	0 66	0 20	0 075 U	0 034 J	0 059 U	0 43
Total PCBs	mg/kg	0 082 U	0 10 J	0 032 J	0 060 U	0 056 U	0 30	0 64 J	3 7	3 7	11	7 3	1 1	1 1	0 49 J	0 51	1 6
Miscellaneous																	
Percent Solids	%	61 5	94 4	94 1	83 1	89 2	78 8	74 2	79 7	24 7	38 2	45 3	44 8	67	76 9	84 6	49 2
Total Organic Carbon	mg/kg	19500 J	4240	20800 J	18600	53900 J	3920	15100 J	3100	121000	107000	128000	120000	66100 J	35600	8000 J	74500 J

Sample Name:		K56056	K56057	K56058	K56059	K56060	K56061	K56062	K56063	K56064	K56065	K56066	K56067	K56068	K56069	K56070	K56071
Sample Depth (in):		2 - 6	6 - 10	0 - 2	2 - 5	0 - 2	2 - 5	0 - 3	0 - 2	0 - 2	2 - 6	6 - 12	12 - 20	20 - 24	24 - 34	0 - 2	2 - 6
Date Collected:		12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08
Location ID:	Units	KRT13-8	KRT13-8	KRT14-7	KRT14-7	KRT15-4	KRT15-4	KRT11-5	KRT14-1	KRT6-2	KRT6-2	KRT6-2	KRT6-2	KRT6-2	KRT6-2	KRT8-2	KRT8-2
PCB Aroclors																	
Aroclor-1016	mg/kg	0 11 U	0 088 U	0 060 U	0 056 U	0 057 U	0 054 U	0 061 U	0 057 U	0 067 U	0 076 U	0 19 U	0 21 U	0 079 U	0 057 U [0 055 U]	0 073 U	0 16 U
Aroclor-1221	mg/kg	0 11 U	0 088 U	0 060 U	0 056 U	0 057 U	0 054 U	0 061 U	0 057 U	0 067 U	0 076 U	0 19 U	0 21 U	0 079 U	0 057 U [0 055 U]	0 073 U	0 16 U
Aroclor-1232	mg/kg	0 11 U	0 088 U	0 060 U	0 056 U	0 057 U	0 054 U	0 061 U	0 057 U	0 067 U	0 076 U	0 19 U	0 21 U	0 079 U	0 057 U [0 055 U]	0 073 U	0 16 U
Aroclor-1242	mg/kg	0 11 U	0 088 U	0 060 U	0 45	0 057 U	0 041 J	0 048 J	0 057 U	0 37	0 52	1 9	1 9	0 079 U	0 057 U [0 055 U]	1 0	2 0
Aroclor-1248	mg/kg	0 44	0 36	0 23	0 056 U	0 030 J	0 054 U	0 061 U	0 096	0 067 U	0 076 U	0 19 U	0 21 U	0 079 U	0 057 U [0 055 U]	0 073 U	0 16 U
Aroclor-1254	mg/kg	0 11 U	0 088 U	0 16	0 056 U	0 057 U	0 054 U	0 061 U	0 15	0 28	0 25	0 76	1 7	0 079 U	0 057 U [0 055 U]	0 33	0 44
Aroclor-1260	mg/kg	0 35	0 065 J	0 051 J	0 056 U	0 057 U	0 054 U	0 061 U	0 057 U	0 13	0 14	0 38	0 48	0 079 U	0 057 U [0 055 U]	0 086	0 16 J
Total PCBs	mg/kg	0 79	0 43 J	0 44 J	0 45	0 030 J	0 041 J	0 048 J	0 25	0 78	0 91	3 0	4 1	0 079 U	0 057 U [0 055 U]	1 4	2 6 J
Miscellaneous																	
Percent Solids	%	47 2	56 5	83 2	89 9	87 8	92 5	81 5	87 9	74	65 8	52 8	46 7	63 5	88 [90 5]	68 4	61 8
Total Organic Carbon	mg/kg	113000	50400 J	9410	3320	3330 J	12150	18360 J	3650 J	35900 J	57800	77500	129000	19100 J	2630 J [32800 J]	40700	62200

See Notes on Page 7

Table H — PCB Results for Frozen Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56072	K56073	K56074	K56075	K56076	K56077	K56078	K56079	K56080	K56081	K56082	K56083	K56084	K56085	K56086
Sample Depth (in):		6 - 12	12 - 21	21 - 31	0 - 2	2 - 6	6 - 12	12 - 24	24 - 31	0 - 2	2 - 6	6 - 12	12 - 24	24 - 26	0 - 2	2 - 6
Date Collected:		12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08
Location ID:	Units	KRT8-3	KRT8-4	KRT8-5	KRT12-8	KRT12-8	KRT12-8	KRT12-8	KRT12-8	KRT10-1	KRT10-1	KRT10-1	KRT10-1	KRT10-1	KRT6-7	KRT6-7
PCB Aroclors																
Aroclor-1016	mg/kg	0 27 U	0 85 U	0 061 U	0 16 U	0 085 U	0 079 U	0 10 U [0 10 U]	0 098 U	0 16 U	0 31 U	0 10 U	0 080 U [0 079 U]	0 062 U	0 093 U	0 098 U
Aroclor-1221	mg/kg	0 27 U	0 85 U	0 061 U	0 16 U	0 085 U	0 079 U	0 10 U [0 10 U]	0 098 U	0 16 U	0 31 U	0 10 U	0 080 U [0 079 U]	0 062 U	0 093 U	0 098 U
Aroclor-1232	mg/kg	0 27 U	0 85 U	0 061 U	0 16 U	0 085 U	0 079 U	0 10 U [0 10 U]	0 098 U	0 16 U	0 31 U	0 10 U	0 080 U [0 079 U]	0 062 U	0 093 U	0 098 U
Aroclor-1242	mg/kg	3 4	7 4	0 048 J	0 16 U	0 085 U	0 079 U	0 10 U [0 10 U]	0 098 U	0 16 U	2 7	0 10 U	0 080 U [0 079 U]	0 062 U	0 14	0 098 U
Aroclor-1248	mg/kg	0 27 U	0 85 U	0 061 U	0 44	0 19	0 044 J	0 10 U [0 10 U]	0 098 U	0 73	0 67	0 077 J	0 080 U [0 079 U]	0 062 U	0 093 U	0 098 U
Aroclor-1254	mg/kg	0 54	0 80 J	0 061 U	0 43	0 093	0 079 U	0 10 U [0 10 U]	0 098 U	0 75	1 4	0 065 J	0 080 U [0 079 U]	0 062 U	0 14	0 098 U
Aroclor-1260	mg/kg	0 29	0 83 J	0 061 U	0 15 J	0 13	0 061 J	0 10 U [0 10 U]	0 098 U	0 26	0 35	0 10 U	0 080 U [0 079 U]	0 062 U	0 093 U	0 098 U
Total PCBs	mg/kg	4 2	9 0 J	0 048 J	1 0 J	0 41	0 11 J	0 10 U [0 10 U]	0 098 U	1 7	5 1	0 14 J	0 080 U [0 079 U]	0 062 U	0 28	0 098 U
Miscellaneous																
Percent Solids	%	55 1	59 4	82	32 1	59 2	63 2	49 6 [48 2]	51	31	31 8	49 3	63 [63]	80 5	53 7	50 7
Total Organic Carbon	mg/kg	49500 J	88800 J	11600 J	75800	27800	31500 J	78100 [111000 J]	59400 J	260000	170000	99200	42100 [44900]	8420 J	52900	61900

Sample Name:		K56087	K56088	K56089	K56090	K56091	K56092	K56093	K56094	K56095	K56096	K56097	K56098	K56099	K56100	K56101
Sample Depth (in):		6 - 12	12 - 19	19 - 23	0 - 2	2 - 6	6 - 12	12 - 21	0 - 2	2 - 6	6 - 12	12 - 15	15 - 23	0 - 2	2 - 6	6 - 12
Date Collected:		12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08
Location ID:	Units	KRT6-7	KRT6-7	KRT6-7	KRT8-8	KRT8-8	KRT8-8	KRT8-8	KRT7-1	KRT7-1	KRT7-1	KRT7-1	KRT7-1	KRT10-5	KRT10-5	KRT10-5
PCB Aroclors																
Aroclor-1016	mg/kg	0 13 U	0 10 U	0 057 U	0 081 U	0 077 U	0 074 U	0 10 U	0 12 U	0 58 U	0 11 U	0 10 U	0 066 U	0 053 U	0 059 U	0 058 U
Aroclor-1221	mg/kg	0 13 U	0 10 U	0 057 U	0 081 U	0 077 U	0 074 U	0 10 U	0 12 U	0 58 U	0 11 U	0 10 U	0 066 U	0 053 U	0 059 U	0 058 U
Aroclor-1232	mg/kg	0 13 U	0 10 U	0 057 U	0 081 U	0 077 U	0 074 U	0 10 U	0 12 U	0 58 U	0 11 U	0 10 U	0 066 U	0 053 U	0 059 U	0 058 U
Aroclor-1242	mg/kg	0 13 U	0 10 U	0 057 U	0 081 U	0 077 U	0 074 U	0 10 U	0 12 U	0 58 U	0 11 U	0 10 U	0 066 U	0 053 U	0 059 U	0 058 U
Aroclor-1248	mg/kg	0 13 U	0 10 U	0 057 U	0 062 J	0 077 U	0 074 U	0 10 U	0 65	0 58 U	0 11 U	0 10 U	0 066 U	0 053 U	0 059 U	0 058 U
Aroclor-1254	mg/kg	0 13 U	0 10 U	0 057 U	0 15	0 12	0 074 U	0 10 U	1 2	7 3	0 15	0 10 U	0 066 U	0 053 U	0 059 U	0 030 J
Aroclor-1260	mg/kg	0 13 U	0 10 U	0 057 U	0 081 U	0 077 U	0 074 U	0 10 U	0 25	1 7	0 34	0 065 J	0 066 U	0 053 U	0 059 U	0 058 U
Total PCBs	mg/kg	0 13 U	0 10 U	0 057 U	0 21 J	0 12	0 074 U	0 10 U	2 1	9 0	0 49	0 065 J	0 066 U	0 053 U	0 059 U	0 030 J
Miscellaneous																
Percent Solids	%	37 8	49 4	87 4	62 4	64 9	67 2	49 3	80 1	42 6	43 8	47 5	75 8	94 9	84 4	87 3
Total Organic Carbon	mg/kg	87300	57900	4240	92800	116000	157000	141000	19500 J	138000	144000	104000	24700	3750 J	3080	3940

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Kalamazoo River Study Group
Allied Paper, Inc /Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #25, March 2009

Table H — PCB Results for Frozen Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56102	K56103	K56104	K56105	K56106	K56107	K56108	K56109	K56110	K56111	K56112	K56113	K56114	K56115	K56116	K56117	K56118
Sample Depth (in):		12 - 18	0 - 2	2 - 6	6 - 12	12 - 16	0 - 2	2 - 6	6 - 12	12 - 15	0 - 2	2 - 6	6 - 12	12 - 14	0 - 2	2 - 6	6 - 12	12 - 14
Date Collected:		12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08
Location ID:	Units	KRT10-5	KRT6-8	KRT6-8	KRT6-8	KRT6-8	KRT9-5	KRT9-5	KRT9-5	KRT9-5	KRT8-1	KRT8-1	KRT8-1	KRT8-1	KRT8-5	KRT8-5	KRT8-5	KRT8-5
PCB Aroclors																		
Aroclor-1016	mg/kg	0 059 U	0 089 U	0 092 U	0 082 U	0 066 U	0 056 U	0 054 U	0 055 U	0 058 U	1 1 U	0 20 U	0 082 U	0 063 U	0 062 U	0 060 U	0 066 U	0 068 U
Aroclor-1221	mg/kg	0 059 U	0 089 U	0 092 U	0 082 U	0 066 U	0 056 U	0 054 U	0 055 U	0 058 U	1 1 U	0 20 U	0 082 U	0 063 U	0 062 U	0 060 U	0 066 U	0 068 U
Aroclor-1232	mg/kg	0 059 U	0 089 U	0 092 U	0 082 U	0 066 U	0 056 U	0 054 U	0 055 U	0 058 U	1 1 U	0 20 U	0 082 U	0 063 U	0 062 U	0 060 U	0 066 U	0 068 U
Aroclor-1242	mg/kg	0 059 U	0 089 U	0 092 U	0 082 U	0 066 U	0 20	0 15	0 14	0 19	1 1 U	0 20 U	0 082 U	0 063 U	0 061 J	0 060 U	0 041 J	0 068 U
Aroclor-1248	mg/kg	0 059 U	0 089 U	0 092 U	0 082 U	0 066 U	0 056 U	0 054 U	0 055 U	0 058 U	4 2	0 90	0 18	0 032 J	0 062 U	0 060 U	0 066 U	0 068 U
Aroclor-1254	mg/kg	0 059 U	0 089 U	0 092 U	0 082 U	0 066 U	0 056 U	0 054 U	0 055 U	0 058 U	5 2	0 59	0 059 J	0 063 U	0 062 U	0 060 U	0 066 U	0 068 U
Aroclor-1260	mg/kg	0 059 U	0 089 U	0 092 U	0 082 U	0 066 U	0 056 U	0 054 U	0 055 U	0 058 U	1 1 U	0 43	0 082 U	0 063 U	0 062 U	0 060 U	0 066 U	0 068 U
Total PCBs	mg/kg	0 059 U	0 089 U	0 092 U	0 082 U	0 066 U	0 20	0 15	0 14	0 19	9 4	1 9	0 24 J	0 032 J	0 061 J	0 060 U	0 041 J	0 068 U
Miscellaneous																		
Percent Solids	%	85 2	55 7	54 2	61	76 5	88 5	93 1	90 3	85 9	46 7	49 8	61 2	79	80 8	84	76 2	73 8
Total Organic Carbon	mg/kg	1920 J	73600	90700	58700	12200	5520 J	2980 J	1020 J	20200 J	114000	102000	35000	5800 J	20300 J	4110 J	7320 J	34100 J

Sample Name:		K56119	K56120	K56121	K56122	K56123	K56124	K56125	K56126	K56127	K56128	K56129	K56130	K56131	K56132	K56133	K56134	K56135
Sample Depth (in):		0 - 2	2 - 6	6 - 11	0 - 2	2 - 6	6 - 9	0 - 2	2 - 6	6 - 8	0 - 2	2 - 5	0 - 2	2 - 5	0 - 2	2 - 6	6 - 12	12 - 24
Date Collected:		12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/17/08	12/17/08	12/17/08	12/17/08
Location ID:	Units	KRT9-2	KRT9-2	KRT9-2	KRT7-5	KRT7-5	KRT7-5	KRT10-2	KRT10-2	KRT10-2	KRT13-1	KRT13-1	KRT9-8	KRT9-8	KRT2-2	KRT2-2	KRT2-2	KRT2-2
PCB Aroclors																		
Aroclor-1016	mg/kg	0 080 U	0 074 U	0 067 U	0 057 U	0 057 U	0 057 U	0 066 U	0 060 U	0 060 U	0 079 U	0 18 U	0 10 UJ	0 12 U	0 054 U	0 052 U	0 052 U	0 050 UJ
Aroclor-1221	mg/kg	0 080 U	0 074 U	0 067 U	0 057 U	0 057 U	0 057 U	0 066 U	0 060 U	0 060 U	0 079 U	0 18 U	0 10 UJ	0 12 U	0 054 U	0 052 U	0 052 U	0 050 UJ
Aroclor-1232	mg/kg	0 080 U	0 074 U	0 067 U	0 057 U	0 057 U	0 057 U	0 066 U	0 060 U	0 060 U	0 079 U	0 18 U	0 10 UJ	0 12 U	0 054 U	0 052 U	0 052 U	0 050 UJ
Aroclor-1242	mg/kg	0 19	0 10	0 067 U	0 049 J	0 030 J	0 057 U	0 066 U	0 060 U	0 060 U	0 55	0 49	0 10 UJ	0 48	0 040 J	0 046 J	0 052 U	0 051 J
Aroclor-1248	mg/kg	0 053 J	0 074 U	0 067 U	0 057 U	0 057 U	0 057 U	0 044 J	0 060 U	0 060 U	0 079 U	1 3	0 54 J	0 12 U	0 054 U	0 052 U	0 052 U	0 050 UJ
Aroclor-1254	mg/kg	0 19	0 074 U	0 067 U	0 030 J	0 057 U	0 057 U	0 048 J	0 047 J	0 060 U	0 22	0 19	0 28 J	0 42	0 056	0 049 J	0 052 U	0 076 J
Aroclor-1260	mg/kg	0 080 U	0 074 U	0 067 U	0 057 U	0 057 U	0 057 U	0 066 U	0 060 U	0 060 U	0 041 J	0 18 U	0 15 J	0 12 U	0 054 U	0 052 U	0 052 U	0 050 UJ
Total PCBs	mg/kg	0 43 J	0 10	0 067 U	0 079 J	0 030 J	0 057 U	0 092 J	0 047 J	0 060 U	0 81 J	2 0	0 97 J	0 90	0 096 J	0 095 J	0 052 U	0 13 J
Miscellaneous																		
Percent Solids	%	62	67 8	73 8	86 9	88 4	88 2	76 3	82 7	84 1	63 2	57 3	38 2	42 6	91 8	96	96 7	95 5
Total Organic Carbon	mg/kg	39500	11800 J	8850 J	7900 J	7380 J	1810 J	24400	3500 J	1750	33200	29300	80700	92600	2420 J	3150 J	1190 J	1080 J

See Notes on Page 7

Table H — PCB Results for Frozen Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56136	K56137	K56138	K56139	K56140	K56141	K56142	K56143	K56144	K56145	K56146	K56147	K56148	K56149
Sample Depth (in):		24 - 36	36 - 48	48 - 60	60 - 64	0 - 2	2 - 4	4 - 6	6 - 12	12 - 24	24 - 27	27 - 36	36 - 48	48 - 54	0 - 2
Date Collected:		12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08
Location ID:	Units	KRT2-2	KRT2-2	KRT2-2	KRT2-2	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT5-3
PCB Aroclors															
Aroclor-1016	mg/kg	0 053 U [0 053 U]	0 057 U	0 089 U	0 085 U	0 071 U	1 6 U	4 6 U	5 7 U	1 1 U [1 1 U]	0 94 U	0 054 U	0 067 U	0 058 U	0 096 U
Aroclor-1221	mg/kg	0 053 U [0 053 U]	0 057 U	0 089 U	0 085 U	0 071 U	1 6 U	4 6 U	5 7 U	1 1 U [1 1 U]	0 94 U	0 054 U	0 067 U	0 058 U	0 096 U
Aroclor-1232	mg/kg	0 053 U [0 053 U]	0 057 U	0 089 U	0 085 U	0 071 U	1 6 U	4 6 U	5 7 U	1 1 U [1 1 U]	0 94 U	0 054 U	0 067 U	0 058 U	0 096 U
Aroclor-1242	mg/kg	0 078 [0 040 J]	0 19	0 12	0 085 U	0 50	12	33	32	9 0 [12]	8 3	0 14	0 067 U	0 058 U	0 71
Aroclor-1248	mg/kg	0 053 U [0 029 J]	0 057 U	0 089 U	0 085 U	0 071 U	1 6 U	4 6 U	5 7 U	1 1 U [1 1 U]	0 94 U	0 054 U	0 067 U	0 058 U	0 096 U
Aroclor-1254	mg/kg	0 065 [0 11]	0 27	0 064 J	0 085 U	0 31	2 1	13	27	11 [16]	5 2	0 082	0 067 U	0 058 U	0 37
Aroclor-1260	mg/kg	0 053 U [0 053 U]	0 057 U	0 089 U	0 085 U	0 071 U	1 6 U	4 6 U	5 7 U	1 1 U [1 1 U]	0 94 U	0 054 U	0 061 J	0 058 U	0 096 U
Total PCBs	mg/kg	0 14 [0 18 J]	0 46	0 18 J	0 085 U	0 81	14	46	59	20 [28]	14	0 22	0 061 J	0 058 U	1 1
Miscellaneous															
Percent Solids	%	94 9 [94]	88 1	56 4	59	71	63 7	53 5	44 1	46 7 [47]	52 5	91 8	75 1	86 4	51 9
Total Organic Carbon	mg/kg	2100 J [2220 J]	6160 J	34600	58500	20300	37200	70400	107000	108000 [128000]	94100	21700 J	27000	7220	38900

Sample Name:		K56150	K56151	K56152	K56153	K56154	K56155	K56156	K56157	K56158	K56159	K56160	K56161	K56162	K56163
Sample Depth (in):		2 - 6	6 - 12	12 - 24	24 - 36	36 - 48	0 - 2	2 - 6	6 - 12	12 - 24	24 - 36	0 - 2	2 - 6	6 - 12	12 - 22
Date Collected:		12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08
Location ID:	Units	KRT5-3	KRT5-3	KRT5-3	KRT5-3	KRT5-3	KRT2-8	KRT2-8	KRT2-8	KRT2-8	KRT2-8	KRT2-6	KRT2-6	KRT2-6	KRT2-6
PCB Aroclors															
Aroclor-1016	mg/kg	0 18 U	0 38 U	12 U [11 U]	11 U	3 3 U	0 066 U	0 063 U	0 070 U	3 6 U [2 5 U]	0 12 U	0 060 U	0 065 U	0 10 U	0 089 U [0 090 U]
Aroclor-1221	mg/kg	0 18 U	0 38 U	12 U [11 U]	11 U	3 3 U	0 066 U	0 063 U	0 070 U	3 6 U [2 5 U]	0 12 U	0 060 U	0 065 U	0 10 U	0 089 U [0 090 U]
Aroclor-1232	mg/kg	0 18 U	0 38 U	12 U [11 U]	11 U	3 3 U	0 066 U	0 063 U	0 070 U	3 6 U [2 5 U]	0 12 U	0 060 U	0 065 U	0 10 U	0 089 U [0 090 U]
Aroclor-1242	mg/kg	1 6	3 2	110 J [110 J]	84	18	0 066 U	0 093	0 070 U	43 [18 J]	0 12	0 15	0 27	0 10 U	0 089 U [0 090 U]
Aroclor-1248	mg/kg	0 18 U	0 38 U	12 U [11 U]	11 U	11	0 066 U	0 063 U	0 070 U	3 6 U [2 5 U]	0 12 U	0 060 U	0 065 U	0 10 U	0 089 U [0 090 U]
Aroclor-1254	mg/kg	0 37	0 38 U	12 J [9 3 J]	18	8 3	0 13	0 12	0 070 U	9 3 [12 J]	0 060 J	0 070	0 12	0 14	0 089 U [0 090 U]
Aroclor-1260	mg/kg	0 18 U	0 56	12 U [11 U]	11 U	3 3 U	0 041 J	0 034 J	0 31	3 6 U [2 5 U]	0 062 J	0 060 U	0 063 J	0 26	0 080 J [0 15]
Total PCBs	mg/kg	2 0	3 8	120 J [120 J]	100	37	0 17 J	0 25 J	0 31	52 [30 J]	0 24 J	0 22	0 45 J	0 40	0 080 J [0 15]
Miscellaneous															
Percent Solids	%	54 9	53 4	43 4 [44 4]	46 1	74 7	76 4	79 8	70 6	42 3 [39 7]	42 7	83 8	76 5	49 3	55 8 [55 6]
Total Organic Carbon	mg/kg	36300	62800 J	71200 [70800]	109000	45600 J	195000 J	92900 J	317000 J	97700 [108000]	174000 J	5520	12400 J	63600	37800 J [43000 J]

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Table H — PCB Results for Frozen Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56164	K56165	K56166	K56167	K56168	K56169	K56170	K56171	K56172	K56173	K56174	K56175	K56176	K56177	K56178	K56179	K56180	K56181
Sample Depth (In):		22 - 27	0 - 2	2 - 6	6 - 12	12 - 16	16 - 26	0 - 2	2 - 6	6 - 12	12 - 22	0 - 2	2 - 6	6 - 12	12 - 19	0 - 2	2 - 6	6 - 12	12 - 15
Date Collected		12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08
Location ID:	Units	KRT2-6	KRT3-8	KRT3-8	KRT3-8	KRT3-8	KRT3-8	KRT5-1	KRT5-1	KRT5-1	KRT5-1	KRT1-6	KRT1-6	KRT1-6	KRT1-6	KRT4-5	KRT4-5	KRT4-5	KRT4-5
PCB Aroclors																			
Aroclor-1016	mg/kg	0 066 U	0 12 U	0 13 U	0 11 U	0 069 U	0 076 U	0 082 U	0 084 U	0 070 U	0 067 U	0 069 U	0 061 U	0 055 U	0 054 U	0 061 U	0 053 U	0 44 U	0 060 U
Aroclor-1221	mg/kg	0 066 U	0 12 U	0 13 U	0 11 U	0 069 U	0 076 U	0 082 U	0 084 U	0 070 U	0 067 U	0 069 U	0 061 U	0 055 U	0 054 U	0 061 U	0 053 U	0 44 U	0 060 U
Aroclor-1232	mg/kg	0 066 U	0 12 U	0 13 U	0 11 U	0 069 U	0 076 U	0 082 U	0 084 U	0 070 U	0 067 U	0 069 U	0 061 U	0 055 U	0 054 U	0 061 U	0 053 U	0 44 U	0 060 U
Aroclor-1242	mg/kg	0 066 U	0 12 U	0 13 U	0 11 U	0 069 U	0 076 U	0 082 U	0 084 U	0 070 U	0 049 J	0 069 U	0 061 U	0 055 U	0 054 U	0 11	0 35	4 6	0 65
Aroclor-1248	mg/kg	0 066 U	0 12 U	0 13 U	0 11 U	0 069 U	0 22	0 25	0 35	0 070	0 067 U	0 069 U	0 061 U	0 055 U	0 054 U	0 032 J	0 096	0 44 U	0 060 U
Aroclor-1254	mg/kg	0 066 U	0 074 J	0 13 U	0 11 U	0 069 U	0 39	0 47	0 62	0 17	0 067 U	0 095	0 076	0 055 U	0 027 J	0 060 J	0 24	1 2	0 20
Aroclor-1260	mg/kg	0 066 U	0 12 U	0 13 U	0 11 U	0 069 U	0 076 U	0 082 U	0 084 U	0 042 J	0 067 U	0 069 U	0 061 U	0 055 U	0 054 U	0 061 U	0 053 U	0 44 U	0 060 U
Total PCBs	ug/kg	0 066 U	0 074 J	0 13 U	0 11 U	0 069 U	0 61	0 72	0 97	0 28 J	0 049 J	0 095	0 076	0 055 U	0 027 J	0 20 J	0 69	5 8	0 85
Miscellaneous																			
Percent Solids	%	75 8	39 6	39 3	45 1	72 3	65 7	61 4	59 9	72 2	74 5	71 9	82 3	91	92	81 5	94 3	57 4	83
Total Organic Carbon	mg/kg	5520 J	185000 J	206000 J	83300 J	27500 J	5990 J	32700 J	33000 J	8260 J	1140 J	3440 J	2070 J	1830 J	782 J	8110 J	3530 J	4390	11100 J

Sample Name:		K56182	K56183	K56184	K56185	K56186	K56187	K56188	K56189	K56190	K56191	K56192	K56193	K56194	K56195	K56196	K56197	K56198	K56199
Sample Depth (In):		0 - 2	2 - 6	6 - 10	10 - 14	0 - 2	2 - 6	6 - 12	12 - 15	0 - 2	2 - 6	6 - 12	12 - 19	0 - 2	2 - 6	6 - 10	0 - 2	2 - 6	6 - 9
Date Collected:		12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08
Location ID:	Units	KRT3-1	KRT3-1	KRT3-1	KRT3-1	KRT1-4	KRT1-4	KRT1-4	KRT1-4	KRT4-8	KRT4-8	KRT4-8	KRT4-8	KRT2-7	KRT2-7	KRT2-7	KRT3-4	KRT3-4	KRT3-4
PCB Aroclors																			
Aroclor-1016	mg/kg	0 11 U	0 10 U	0 085 U	0 055 U	0 053 U	0 054 U	0 070 U	0 056 U	0 057 U	0 073 U	0 067 U	0 078 U	0 11 U	0 12 U	0 056 U	0 060 U	0 056 U	0 055 U
Aroclor-1221	mg/kg	0 11 U	0 10 U	0 085 U	0 055 U	0 053 U	0 054 U	0 070 U	0 056 U	0 057 U	0 073 U	0 067 U	0 078 U	0 11 U	0 12 U	0 056 U	0 060 U	0 056 U	0 055 U
Aroclor-1232	mg/kg	0 11 U	0 10 U	0 085 U	0 055 U	0 053 U	0 054 U	0 070 U	0 056 U	0 057 U	0 073 U	0 067 U	0 078 U	0 11 U	0 12 U	0 056 U	0 060 U	0 056 U	0 055 U
Aroclor-1242	mg/kg	0 11 U	0 10 U	0 085 U	0 055 U	0 053 U	0 054 U	0 050 J	0 035 J	0 057 U	0 073 U	0 067 U	0 078 U	0 14	0 080 J	0 035 J	0 15	0 085	0 26
Aroclor-1248	mg/kg	0 11 U	0 10 U	0 085 U	0 055 U	0 053 U	0 054 U	0 070 U	0 042 J	0 057 U	0 073 U	0 067 U	0 078 U	0 11 U	0 12 U	0 056 U	0 060 U	0 056 U	0 055 U
Aroclor-1254	mg/kg	0 14	0 10 U	0 085 U	0 055 U	0 080	0 054 U	0 057 J	0 047 J	0 057 U	0 073 U	0 067 U	0 078 U	0 11 U	0 12 U	0 056 U	0 072	0 060	0 080
Aroclor-1260	mg/kg	0 26	0 074 J	0 085 U	0 055 U	0 053 U	0 054 U	0 070 U	0 056 U	0 057 U	0 073 U	0 067 U	0 078 U	0 16	0 14	0 056 U	0 060 U	0 056 U	0 055 U
Total PCBs	ug/kg	0 40	0 074 J	0 085 U	0 055 U	0 080	0 054 U	0 11 J	0 12 J	0 057 U	0 073 U	0 067 U	0 078 U	0 30	0 22 J	0 035 J	0 22	0 15	0 34
Miscellaneous																			
Percent Solids	%	46 3	49 7	59	92 3	93 6	92 8	71	88 9	87 6	68 9	75 5	63 9	45 4	42 9	88 5	82 8	88 6	90 7
Total Organic Carbon	mg/kg	74700	86000 J	70400 J	5320 J	4580 J	2300 J	4590 J	2200 J	4200 J	11200 J	2160 J	6920 J	67700 J	84400 J	2870 J	3120 J	2040 J	3070 J

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Table H — PCB Results for Frozen Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name: Sample Depth (in): Date Collected: Location ID:	Units	K56200 0 - 2 12/17/08 KRT15-1	K56201 2 - 6 12/17/08 KRT15-1	K56202 6 - 9 12/17/08 KRT15-1
PCB Aroclors				
Aroclor-1016	mg/kg	0 075 U	0 059 U	0 057 U
Aroclor-1221	mg/kg	0 075 U	0 059 U	0 057 U
Aroclor-1232	mg/kg	0 075 U	0 059 U	0 057 U
Aroclor-1242	mg/kg	0 075 U	0 059 U	0 057 U
Aroclor-1248	mg/kg	0 057 J	0 059 U	0 057 U
Aroclor-1254	mg/kg	0 22	0 086	0 057 U
Aroclor-1260	mg/kg	0 049 J	0 059 U	0 057 U
Total PCBs	ug/kg	0 33 J	0 086	0 057 U
Miscellaneous				
Percent Solids	%	66 6	84 5	87 2
Total Organic Carbon	mg/kg	31400 J	6420 J	2790 J

Notes
Data received in February 2009
Duplicate results are in brackets
J - The compound was positively identified, however, the associated numerical value is an estimated concentration only
U - The compound was analyzed for but not detected The associated value is the compound quantitation limit
UB - Analyte considered non-detect at the listed value due to associated blank contamination

Table I — Grain Size Results for Frozen Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56010	K56011	K56012	K56013	K56014	K56015	K56016	K56017	K56018	K56019	K56020	K56021	K56022
Sample Depth (in):		0 - 2	2 - 6	6 - 12	12 - 24	24 - 32	32 - 36	36 - 48	48 - 51	0 - 2	2 - 6	6 - 12	12 - 24	24 - 32
Date Collected:		12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08
Location ID:	Units	KRT11-8	KRT11-8	KRT11-8	KRT11-8	KRT11-8	KRT11-8	KRT11-8	KRT11-8	KRT5-4	KRT5-4	KRT5-4	KRT5-4	KRT5-4
Grain Size Analysis														
Gravel	%	1 7	0	0	3 2	13 5	7 4	14 9	6	1	3 6	10 7	0	1 8
Coarse Sand	%	6 5	0 5	0 2	10 6	23	13 2	28	31 7	2	2 3	6 8	0	2 9
Medium Sand	%	11	10 7	10 4	32 9	44 1	15 5	32 8	50 1	27	30 2	21 7	2 2	13 8
Fine Sand	%	76	85 4	81 8	46 3	13 1	24 3	19 6	11 4	55 4	62 8	45 8	31 1	25 6
Silt	%	5 1	2 1	5 6	5 6	5 4	32 9	3 9	0 2	13 3	0 6	10 7	38 8	35
Clay	%	-0 3	1 3	2	1 4	0 9	6 8	0 9	0 5	1 4	0 5	4 3	27 8	20 8
75000	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100
50000	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100
37500	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100
25000	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100
19000	% passing	100	100	100	100	88 8	100	100	100	100	100	100	100	100
9500	% passing	100	100	100	100	88 8	100	99 4	98 2	100	100	95 7	100	100
4750	% passing	98 3	100	100	96 8	86 5	92 6	85 1	94	99	96 4	89 3	100	98 2
2000	% passing	91 9	99 5	99 8	86 1	63 5	79 5	57 2	62 3	97	94 1	82 5	100	95 3
850	% passing	89 2	97 8	98 9	74 6	37 6	69 8	41 2	28 7	91 8	89 9	76 1	99 7	89 2
425	% passing	80 8	88 8	89 4	53 3	19 4	64	24 4	12 2	70	64	60 8	97 8	81 5
250	% passing	39 8	48 8	52 6	22 8	10 1	60 6	7 5	2 4	39 8	17 6	33 4	94 3	74 8
180	% passing	15	14 4	20 4	11 4	7 2	55 3	5 6	0 9	25 2	4 4	22 7	87 3	67 5
150	% passing	10	9 1	13 9	9 7	6 9	53 3	5 5	0 9	22 7	3 2	20 8	84 3	65 5
75	% passing	4 8	3 4	7 6	7	6 3	39 7	4 8	0 7	14 6	1 2	15	66 7	55 8
Hydrometer Reading 1	% passing (size, um)	2 9 (38)	3 7 (37)	3 8 (36)	3 2 (36)	1 9 (37)	24 9 (36)	1 4 (37)	0 7 (37)	3 3 (37)	1 2 (37)	9 3 (35)	48 (34)	36 9 (34)
Hydrometer Reading 2	% passing (size, um)	2 9 (24)	2 4 (23)	3 3 (23)	2 3 (23)	1 9 (23)	18 1 (23)	1 4 (23)	0 7 (24)	3 3 (24)	1 2 (24)	6 8 (23)	43 (22)	32 1 (22)
Hydrometer Reading 3	% passing (size, um)	2 9 (13 8)	2 6 (13 5)	2 9 (13 3)	1 8 (13 5)	1 4 (13 5)	11 3 (13 4)	1 4 (13 5)	0 7 (13 6)	1 7 (13 6)	0 5 (13 7)	6 2 (13 2)	37 9 (12 8)	27 2 (12 6)
Hydrometer Reading 4	% passing (size, um)	1 3 (9 6)	1 9 (9 6)	2 4 (9 5)	1 8 (9 7)	1 4 (9 7)	9 (9 4)	1 4 (9 4)	0 7 (9 5)	1 7 (9 3)	0 5 (9 7)	4 9 (9 4)	32 9 (9 1)	24 (8 9)
Hydrometer Reading 5	% passing (size, um)	-0 3 (7 1)	1 3 (6 8)	2 (6 8)	1 4 (6 9)	0 9 (6 6)	6 8 (6 8)	0 9 (6 8)	0 5 (6 9)	1 4 (6 9)	0 5 (6 7)	4 3 (6 9)	27 8 (6 4)	20 8 (6 6)
Hydrometer Reading 6	% passing (size, um)	-0 3 (3 5)	0 6 (3 3)	1 (3 3)	0 9 (3 3)	0 5 (3 3)	2 3 (3 4)	0 5 (3 5)	-0 1 (3 3)	-0 3 (3 3)	0 5 (3 3)	2 5 (3 3)	17 7 (3 3)	14 4 (3 3)
Hydrometer Reading 7	% passing (size, um)	-0 3 (1 4)	0 5 (1 4)	0 9 (1 4)	0 8 (1 4)	0 4 (1 4)	-0 4 (1 4)	0 4 (1 4)	-0 1 (1 4)	-0 3 (1 4)	0 5 (1 4)	1 2 (1 4)	9 7 (1 4)	9 6 (1 4)

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Table I — Grain Size Results for Frozen Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56023	K56024	K56025	K56026	K56027	K56028	K56029	K56030	K56031	K56032	K56033	K56034	K56035	K56036
Sample Depth (in):		0 - 2	2 - 6	6 - 12	12 - 24	24 - 33	0 - 2	2 - 6	6 - 12	12 - 24	24 - 36	0 - 2	2 - 6	6 - 12	12 - 21
Date Collected:		12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08
Location ID:	Units	KRT12-4	KRT12-4	KRT12-4	KRT12-4	KRT12-4	KRT15-8	KRT15-8	KRT15-8	KRT15-8	KRT15-8	KRT12-1	KRT12-1	KRT12-1	KRT12-1
Grain Size Analysis															
Gravel	%	28 6	59 5	44 6	11 9 [12 5]	0	19 3	21 8	30 6	22 1 [15 6]	6 9	0	0	0	0
Coarse Sand	%	8 7	11 7	20	1 9 [5 4]	0 1	9	13 2	5	8 3 [9 3]	8 9	0	0	0	0 8
Medium Sand	%	44 8	17	24 9	26 9 [31 4]	15 2	22 9	26 3	18 6	41 4 [44 3]	55 9	2 1	1 3	1 4	1 3
Fine Sand	%	16 3	9 1	8 2	52 2 [39 2]	80 7	37	31 8	42 9	24 [27 2]	26 1	82 7	87 2	86 6	71 9
Silt	%	1 5	2 7	1 3	7 1 [8 2]	2 8	9 6	4 1	0 8	3 [1 9]	0 8	11 3	5 4	8 5	20 2
Clay	%	0	0	0 9	0 [3 3]	1 1	2 3	2 8	2 2	1 1 [1 7]	1 4	3 9	6 2	3 5	5 8
75000	% passing	100	100	100	100 [100]	100	100	100	100	100 [100]	100	100	100	100	100
50000	% passing	100	100	100	100 [100]	100	100	100	100	100 [100]	100	100	100	100	100
37500	% passing	100	100	100	100 [100]	100	100	100	100	100 [100]	100	100	100	100	100
25000	% passing	100	75 4	87 8	100 [100]	100	100	100	86 4	100 [100]	100	100	100	100	100
19000	% passing	100	61 1	78 4	100 [93 3]	100	100	100	86 4	100 [100]	100	100	100	100	100
9500	% passing	75 6	49 1	66 2	91 [90 5]	100	86 7	88 1	74 4	86 7 [91 1]	97 7	100	100	100	100
4750	% passing	71 4	40 5	55 4	88 1 [87 5]	100	80 7	78 2	69 4	77 9 [84 4]	93 1	100	100	100	100
2000	% passing	62 7	28 8	35 4	86 2 [82]	99 9	71 7	65	64 4	69 6 [75 1]	84 2	100	100	100	99 2
850	% passing	41 2	20 4	20 9	82 7 [74 2]	98 9	64 1	56 1	59	59 3 [62 2]	64 5	99 8	99 9	99 9	99
425	% passing	17 8	11 8	10 5	59 3 [50 7]	84 6	48 8	38 8	45 9	28 1 [30 8]	28 3	97 9	98 7	98 6	97 9
250	% passing	4 7	5 4	3 6	11 4 [15 2]	27 7	28 1	21 2	23 8	13 1 [12 7]	7 4	93 1	93 7	92 4	92 5
180	% passing	2 6	3 8	2 7	7 5 [12 1]	8 4	19 5	11 7	7 6	5 7 [5 3]	3 4	59 4	57 9	56 2	65 2
150	% passing	2 2	3 3	2 5	7 3 [11 8]	5 9	16 7	10 3	5 2	5 [4 5]	3 1	46 5	42 4	41 9	53 6
75	% passing	1 5	2 7	2 2	7 1 [11 5]	3 9	11 8	6 9	3	4 1 [3 6]	2 2	15 2	11 5	12	26
Hydrometer Reading 1	% passing (size, um)	1 3 (37)	0 6 (38)	1 9 (37)	0 9 (38) [7 7 (35)]	2 2 (37)	6 8 (37)	5 7 (37)	3 (37)	2 9 (37) [2 8 (37)]	2 3 (37)	9 7 (37)	11 1 (36)	8 2 (37)	12 4 (35)
Hydrometer Reading 2	% passing (size, um)	0 6 (24)	0 (24)	1 9 (23)	0 9 (24) [6 6 (23)]	2 2 (23)	5 7 (23)	5 (23)	3 (23)	2 (24) [2 5 (23)]	2 3 (23)	7 8 (24)	11 1 (23)	8 2 (23)	10 7 (23)
Hydrometer Reading 3	% passing (size, um)	0 6 (13 7)	0 (13 8)	1 4 (13 6)	0 9 (13 8) [5 5 (13 2)]	1 7 (13 6)	4 5 (13 5)	4 3 (13 5)	2 6 (13 5)	2 (13 6) [2 5 (13 4)]	1 8 (13 5)	5 8 (13 6)	8 6 (13 4)	5 9 (13 5)	9 1 (13 2)
Hydrometer Reading 4	% passing (size, um)	0 6 (9 7)	0 (9 7)	0 9 (9 8)	0 (9 9) [3 8 (9 3)]	1 1 (9 5)	3 4 (9 3)	3 6 (9 6)	2 2 (9 6)	2 (9 8) [2 1 (9 3)]	1 8 (9 4)	5 8 (9 5)	7 4 (9 2)	4 7 (9 6)	7 4 (9 4)
Hydrometer Reading 5	% passing (size, um)	0 (6 9)	0 (7)	0 9 (6 9)	0 (6 7) [3 3 (6 8)]	1 1 (6 9)	2 3 (6 8)	2 8 (6 8)	2 2 (6 9)	1 1 (7) [1 7 (6 7)]	1 4 (6 8)	3 9 (6 9)	6 2 (6 8)	3 5 (6 7)	5 8 (6 9)
Hydrometer Reading 6	% passing (size, um)	0 (3 3)	-0 6 (3 3)	0 4 (3 4)	-1 3 (3 4) [2 2 (3 4)]	0 6 (3 3)	1 1 (3 3)	2 1 (3 3)	1 3 (3 3)	0 (3 4) [1 2 (3 4)]	0 9 (3 5)	3 6 (3 3)	3 7 (3 3)	2 3 (3 3)	4 1 (3 3)
Hydrometer Reading 7	% passing (size, um)	-0 6 (1 4)	-0 6 (1 4)	0 4 (1 4)	-1 3 (1 4) [1 5 (1 4)]	0 5 (1 4)	0 9 (1 4)	1 4 (1 4)	0 9 (1 4)	-0 2 (1 4) [0 3 (1 4)]	0 4 (1 4)	1 6 (1 4)	3 5 (1 4)	1 (1 4)	2 5 (1 4)

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Table I — Grain Size Results for Frozen Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56037	K56038	K56039	K56040	K56041	K56042	K56043	K56044	K56045	K56046	K56047	K56048	K56049	K56050	K56051
Sample Depth (in):		0 - 2	2 - 6	6 - 12	12 - 19	0 - 2	2 - 6	6 - 12	12 - 16	0 - 2	2 - 6	6 - 13	0 - 2	2 - 6	6 - 12	12 - 14
Date Collected:		12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08
Location ID:	Units	KRT11-1	KRT11-1	KRT11-1	KRT11-1	KRT14-5	KRT14-5	KRT14-5	KRT14-5	KRT16-1	KRT16-1	KRT16-1	KRT16-8	KRT16-8	KRT16-8	KRT16-8
Grain Size Analysis																
Gravel	%	1 1	0 6	1 4	33 4	62	52 2	17	20 7	13	0 7	25 6	4 2	1 8	0	5 4
Coarse Sand	%	4 5	5 1	4 4	15 1	11 2	21 4	39 7	48 4	0 2	0 1	0 8	3 3	0 6	0	1 8
Medium Sand	%	40 1	30 5	39 8	18 3	21 1	20 3	24 8	19 6	3 8	2 7	23 6	1 8	4 1	1 6	1 4
Fine Sand	%	37	25	41 7	24 3	4	5	12 9	2 5	80	87 1	46 8	9 9	8 3	6	8 7
Silt	%	12 3	29 9	9 6	7 4	1 7	0 6	4 5	8 7	3	7 5	2 2	62 5	71 1	75 5	66 4
Clay	%	4 9	9	3	1 5	0	0 5	1 2	0	0	1 8	0 9	18 3	14 2	16 9	16 3
75000	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
50000	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
37500	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
25000	% passing	100	100	100	100	63 9	100	100	100	100	100	74 9	100	100	100	100
19000	% passing	100	100	100	82 6	49 1	78 7	100	100	100	100	74 9	100	100	100	100
9500	% passing	100	100	100	74 2	43 6	59 2	93 9	92 3	87 7	99 4	74 9	100	100	100	100
4750	% passing	98 9	99 4	98 6	66 6	38	47 8	83	79 3	87	99 3	74 4	95 8	98 2	100	94 6
2000	% passing	94 3	94 3	94 2	51 5	26 8	26 4	43 4	30 9	86 8	99 2	73 5	92 5	97 7	100	92 8
850	% passing	74 5	77	80 7	40 9	14 1	13 6	24 9	13 1	86 4	98 9	67 9	92	96 4	99 5	92 3
425	% passing	54 2	63 8	54 4	33 2	5 7	6 1	18 6	11 2	83	96 5	49 9	90 7	93 6	98 4	91 4
250	% passing	42 6	59	31 7	26 3	3 2	2 9	14 4	10 4	59 9	76 8	25 9	88 7	91 3	97 2	90
180	% passing	30 4	50 7	24	21 4	2 5	2	12	9 9	33 7	49	12 8	87 1	89 7	96 2	88 4
150	% passing	27 1	48 3	20 1	17 5	2 3	1 7	10 1	9 7	21	34	8 5	86 2	89	95 7	87 2
75	% passing	17 2	38 9	12 6	8 9	1 7	1 1	5 7	8 7	3	9 4	3 2	80 8	85 3	92 4	82 8
Hydrometer Reading 1	% passing (size, um)	12 6 (35)	21 2 (36)	8 2 (36)	4 7 (37)	1 2 (38)	1 (38)	3 7 (37)	1 7 (38)	2 5 (38)	5 5 (37)	2 (38)	59 6 (35)	43 9 (36)	37 2 (36)	35 4 (36)
Hydrometer Reading 2	% passing (size, um)	10 7 (23)	17 7 (23)	6 7 (23)	3 9 (24)	1 2 (24)	1 (24)	3 1 (24)	1 2 (24)	2 5 (24)	4 6 (24)	2 (24)	45 8 (23)	36 5 (23)	34 3 (23)	33 (23)
Hydrometer Reading 3	% passing (size, um)	7 8 (13 3)	12 5 (13 3)	5 2 (13 5)	3 1 (13 7)	0 6 (13 8)	0 5 (13 8)	2 5 (13 6)	1 2 (13 8)	1 3 (13 8)	2 7 (13 7)	0 9 (13 8)	32 1 (13 3)	29 1 (13 5)	31 4 (13 3)	28 3 (13 2)
Hydrometer Reading 4	% passing (size, um)	6 7 (9 5)	10 7 (9 3)	3 7 (9 6)	1 5 (9 8)	0 6 (9 9)	0 5 (9 9)	1 9 (9 5)	0 6 (9 6)	1 3 (9 6)	1 8 (9 4)	0 9 (9 8)	18 3 (9 4)	21 7 (9 6)	25 6 (9 5)	23 5 (9 3)
Hydrometer Reading 5	% passing (size, um)	4 9 (6 6)	9 (6 9)	3 (6 9)	1 5 (7)	0 (7 1)	0 5 (6 7)	1 2 (6 9)	0 (7)	0 (7)	1 8 (6 9)	0 9 (6 8)	18 3 (6 9)	14 2 (7)	16 9 (6 6)	16 3 (6 9)
Hydrometer Reading 6	% passing (size, um)	2 9 (3 4)	5 2 (3 4)	1 5 (3 3)	0 8 (3 3)	0 (3 4)	0 (3 4)	0 6 (3 5)	0 (3 5)	0 (3 3)	0 9 (3 3)	0 5 (3 4)	9 2 (3 4)	11 1 (3 4)	11 6 (3 4)	11 5 (3 5)
Hydrometer Reading 7	% passing (size, um)	1 8 (1 4)	3 2 (1 4)	1 4 (1 4)	0 7 (1 4)	-0 1 (1 4)	-0 1 (1 4)	-0 1 (1 4)	-0 1 (1 4)	-0 2 (1 4)	0 8 (1 4)	0 4 (1 4)	3 8 (1 4)	6 8 (1 4)	5 3 (1 4)	6 8 (1 4)

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Table I — Grain Size Results for Frozen Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56052	K56053	K56054	K56055	K56056	K56057	K56058	K56059	K56060	K56061	K56062	K56063	K56064	K56065	K56066	K56067
Sample Depth (in):		0 - 2	2 - 6	6 - 13	0 - 2	2 - 6	6 - 10	0 - 2	2 - 5	0 - 2	2 - 5	0 - 3	0 - 2	0 - 2	2 - 6	6 - 12	12 - 20
Date Collected:		12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/15/08	12/16/08	12/16/08	12/16/08	12/16/08
Location ID:	Units	KRT16-6	KRT16-6	KRT16-6	KRT13-8	KRT13-8	KRT13-8	KRT14-7	KRT14-7	KRT15-4	KRT15-4	KRT11-5	KRT14-1	KRT6-2	KRT6-2	KRT6-2	KRT6-2
Grain Size Analysis																	
Gravel	%	3 4	6 4	13 4	12 1	0	35 1	53 1	62 7	9 8	55 5	59 5	89 4	0 3	1	0 2	6 1
Coarse Sand	%	4 5	5 6	11 7	1 2	0	2 7	8 8	9 2	19 9	14 5	10	1 5	1 4	0 6	0 1	1 1
Medium Sand	%	12 7	15 4	14 4	3 1	2 4	12 1	10 2	13 6	41 2	18 6	13 6	3 2	3 8	2 7	2	6 8
Fine Sand	%	62 8	62 5	57 9	24 8	16 2	13 3	18 2	13 4	26 8	10 4	15 6	3 3	85 2	79	56 6	49 4
Silt	%	15 2	9 3	2 1	54 6	65 7	27 4	9 7	1 8	3 9	0 4	1 3	2 6	8	14 4	30 3	31 9
Clay	%	1 5	0 7	0 4	4 2	15 6	9 4	0	-0 6	-1 7	0 5	0	0	1 3	2 4	10 8	4 6
75000	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
50000	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
37500	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
25000	% passing	100	100	100	100	100	100	100	67 8	100	100	69 8	100	100	100	100	100
19000	% passing	100	100	100	100	100	100	100	45 8	100	84 8	51 8	62 3	100	100	100	100
9500	% passing	100	97 6	96 9	93	100	68 4	55 2	44 3	100	59 8	44 7	14 7	100	100	100	94 2
4750	% passing	96 6	93 6	86 6	87 9	100	64 9	46 9	37 3	90 2	44 5	40 5	10 6	99 7	99	99 8	93 9
2000	% passing	92 1	88	74 9	86 7	100	62 3	38 1	28 1	70 3	30	30 5	9 1	98 3	98 4	99 7	92 7
850	% passing	86 2	81 1	67 7	85 4	99 4	58 9	34	23 3	52 8	21 2	23 4	8 1	97 1	97 8	99 1	90 5
425	% passing	79 4	72 6	60 4	83 6	97 6	50 1	27 9	14 5	29 1	11 4	16 9	5 9	94 4	95 8	97 7	85 9
250	% passing	60 2	50 5	36 4	77 9	93 6	43 5	19 4	6 1	8 2	3 1	9 1	4 1	90 3	92 3	95 1	80 3
180	% passing	40 6	30 3	16 7	71 5	89 4	41 1	14 2	3	4 2	1 7	4 8	3 4	65 4	73 9	86 8	65 8
150	% passing	31 9	21 6	9 1	68 4	87 2	40	12 2	2 1	3 3	1 4	3 4	3 1	47 3	59 7	80 4	59 3
75	% passing	16 7	10	2 5	58 8	81 4	36 8	9 7	1 2	2 2	1	1 3	2 6	9 3	16 8	41 1	36 5
Hydrometer Reading 1	% passing (size, um)	4 6 (37)	2 8 (37)	2 1 (37)	16 9 (36)	38 (35)	22 8 (35)	1 4 (37)	0 6 (37)	0 (38)	0 6 (37)	1 4 (37)	2 1 (37)	3 9 (37)	5 9 (37)	24 6 (33)	16 3 (35)
Hydrometer Reading 2	% passing (size, um)	3 1 (24)	2 (24)	1 2 (23)	10 6 (23)	31 3 (22)	20 1 (22)	0 7 (24)	0 6 (24)	0 (24)	0 6 (24)	0 7 (24)	1 4 (24)	2 6 (24)	4 8 (23)	21 7 (21)	14 6 (23)
Hydrometer Reading 3	% passing (size, um)	1 5 (13 6)	2 (13 6)	0 8 (13 6)	8 5 (13 5)	24 6 (13)	14 7 (13)	0 7 (13 6)	0 (13 7)	0 (13 7)	0 6 (13 6)	0 7 (13 6)	0 7 (13 6)	2 6 (13 6)	3 6 (13 5)	18 7 (12 5)	11 9 (13 1)
Hydrometer Reading 4	% passing (size, um)	1 5 (9 6)	1 3 (9 7)	0 8 (9 8)	6 3 (9 7)	20 1 (9 1)	12 1 (9 1)	0 7 (9 5)	0 (9 4)	0 (9 7)	0 6 (9 6)	0 7 (9 6)	0 7 (9 5)	1 3 (9 6)	2 4 (9 6)	14 8 (9 2)	9 (9 5)
Hydrometer Reading 5	% passing (size, um)	1 5 (6 9)	0 7 (6 9)	0 4 (6 9)	4 2 (6 6)	15 6 (6 6)	9 4 (6 7)	0 (6 9)	-0 6 (6 9)	-1 7 (6 8)	0 5 (7)	0 (6 7)	0 (7)	1 3 (6 9)	2 4 (6 9)	10 8 (6 6)	4 6 (6 6)
Hydrometer Reading 6	% passing (size, um)	0 (3 3)	0 7 (3 3)	0 4 (3 3)	2 1 (3 3)	11 2 (3 3)	5 4 (3 4)	0 (3 3)	-0 6 (3 3)	-1 7 (3 4)	-0 7 (3 4)	-0 1 (3 4)	0 (3 5)	0 (3 3)	0 (3 3)	6 9 (3 3)	1 5 (3 3)
Hydrometer Reading 7	% passing (size, um)	-0 3 (1 4)	0 6 (1 4)	-0 5 (1 4)	-0 4 (1 4)	2 2 (1 4)	1 3 (1 4)	-0 1 (1 4)	-0 8 (1 4)	-3 1 (1 4)	-0 7 (1 4)	-0 8 (1 4)	-0 1 (1 4)	-0 6 (1 4)	-0 6 (1 4)	2 5 (1 4)	-1 (1 4)

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Table I — Grain Size Results for Frozen Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56068	K56069	K56070	K56071	K56072	K56073	K56074	K56075	K56076	K56077	K56078	K56079	K56080
Sample Depth (in):		20 - 24	24 - 34	0 - 2	2 - 6	6 - 12	12 - 21	21 - 31	0 - 2	2 - 6	6 - 12	12 - 24	24 - 31	0 - 2
Date Collected:		12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08
Location ID:	Units	KRT6-2	KRT6-2	KRT8-2	KRT8-2	KRT8-3	KRT8-4	KRT8-5	KRT12-8	KRT12-8	KRT12-8	KRT12-8	KRT12-8	KRT10-1
Grain Size Analysis														
Gravel	%	17 4	43 5 [54 3]	1 7	0 9	0	3 5	17 1	0	0	0	0 [0]	0	0
Coarse Sand	%	5	14 6 [13 2]	0 7	1 2	0 6	2 4	8 8	0	1	0	0 [0]	0	0
Medium Sand	%	17	29 9 [22 8]	4 8	3 5	4 8	11 2	30 7	2	3	4 2	2 4 [2 7]	4 1	7 8
Fine Sand	%	15 9	11 1 [8 3]	82 2	85 1	83	72 1	36 4	33 6	72 1	66 3	32 7 [33 7]	46 7	19 4
Silt	%	43 1	-0 2 [1]	9 2	7 8	8 8	8 6	4 2	53 5	16 7	22 1	44 5 [47 7]	32 8	64 7
Clay	%	1 6	1 1 [0 5]	1 4	1 5	2 9	2 2	2 8	10 8	7 2	7 3	20 4 [15 9]	16 3	8 1
75000	% passing	100	100 [100]	100	100	100	100	100	100	100	100	100 [100]	100	100
50000	% passing	100	100 [100]	100	100	100	100	100	100	100	100	100 [100]	100	100
37500	% passing	100	100 [100]	100	100	100	100	100	100	100	100	100 [100]	100	100
25000	% passing	100	100 [65 1]	100	100	100	100	100	100	100	100	100 [100]	100	100
19000	% passing	100	78 7 [56 8]	100	100	100	100	100	100	100	100	100 [100]	100	100
9500	% passing	86 1	64 1 [49 6]	100	100	100	100	88 5	100	100	100	100 [100]	100	100
4750	% passing	82 6	56 5 [45 7]	98 3	99 1	100	96 5	82 9	100	100	100	100 [100]	100	100
2000	% passing	77 6	42 [32 5]	97 6	97 9	99 4	94 1	74 1	100	99	100	100 [100]	100	100
850	% passing	67 6	21 4 [16 8]	96 5	97 1	98 3	89 9	62 6	99 2	98	99	99 5 [99 3]	98 9	96 6
425	% passing	60 6	12 [9 7]	92 8	94 4	94 7	82 9	43 4	98	96	95 8	97 6 [97 3]	95 9	92 2
250	% passing	53 7	5 8 [4 7]	86 6	87 7	87	70 1	27 1	93 8	78 1	76 6	95 [91 5]	88 9	87 8
180	% passing	48 9	2 5 [2 5]	61 9	58 5	57 3	49 1	16 8	87 3	53 1	54 7	86 3 [83]	76 4	84 7
150	% passing	47 9	2 1 [2 2]	46 1	40 2	40 1	38 9	12 6	82 4	41 4	45 5	81 7 [78 2]	68 4	82 7
75	% passing	44 7	0 9 [1 5]	10 6	9 3	11 7	10 8	7	64 4	23 9	29 5	64 9 [63 6]	49 2	72 8
Hydrometer Reading 1	% passing (size, um)	5 1 (36)	1 1 (37) [1 (37)]	7 2 (37)	6 1 (37)	6 7 (36)	7 8 (36)	6 9 (36)	41 5 (36)	22 2 (36)	18 9 (33)	45 5 (35) [39 3 (33)]	40 5 (31)	48 9 (37)
Hydrometer Reading 2	% passing (size, um)	4 (23)	1 1 (24) [0 5 (24)]	4 3 (23)	4 6 (23)	4 8 (23)	6 7 (23)	5 7 (23)	33 8 (23)	19 2 (23)	15 5 (22)	40 4 (22) [30 5 (22)]	31 7 (21)	40 7 (23)
Hydrometer Reading 3	% passing (size, um)	3 (13 3)	1 1 (13 6) [0 5 (13 6)]	4 3 (13 5)	3 (13 6)	4 8 (13 4)	4 5 (13 5)	4 (13 5)	18 5 (13 6)	14 7 (13 3)	11 4 (12 8)	30 2 (13 2) [24 7 (12 8)]	25 1 (12 5)	24 4 (13 6)
Hydrometer Reading 4	% passing (size, um)	2 1 (9 3)	1 1 (9 5) [0 5 (9 3)]	4 3 (9 6)	1 5 (9 6)	2 9 (9 6)	3 3 (9 4)	3 4 (9 6)	14 7 (9 7)	11 7 (9 7)	9 4 (9 4)	25 1 (9 4) [20 3 (9 1)]	19 6 (8 9)	8 1 (9 6)
Hydrometer Reading 5	% passing (size, um)	1 6 (6 7)	1 1 (6 9) [0 5 (6 8)]	1 4 (6 7)	1 5 (7)	2 9 (6 6)	2 2 (7)	2 8 (6 9)	10 8 (7)	7 2 (6 9)	7 3 (6 5)	20 4 (6 8) [15 9 (6 7)]	16 3 (6 5)	8 1 (6 9)
Hydrometer Reading 6	% passing (size, um)	1 (3 4)	1 1 (3 5) [0 4 (3 3)]	1 4 (3 3)	1 3 (3 4)	1 8 (3 4)	0 9 (3 5)	2 2 (3 3)	3 8 (3 3)	4 5 (3 3)	4 1 (3 3)	10 2 (3 3) [8 8 (3 4)]	9 9 (3 3)	0 (3 3)
Hydrometer Reading 7	% passing (size, um)	0 7 (1 4)	0 4 (1 4) [0 2 (1 4)]	0 5 (1 4)	0 8 (1 4)	0 3 (1 5)	-0 7 (1 5)	1 6 (1 4)	3 2 (1 4)	1 2 (1 4)	1 9 (1 4)	5 1 (1 4) [4 2 (1 4)]	5 3 (1 4)	-1 4 (1 4)

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Table I — Grain Size Results for Frozen Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56081	K56082	K56083	K56084	K56085	K56086	K56087	K56088	K56089	K56090	K56091	K56092	K56093	K56094
Sample Depth (in):		2 - 6	6 - 12	12 - 24	24 - 26	0 - 2	2 - 6	6 - 12	12 - 19	19 - 23	0 - 2	2 - 6	6 - 12	12 - 21	0 - 2
Date Collected:		12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08
Location ID:	Units	KRT10-1	KRT10-1	KRT10-1	KRT10-1	KRT6-7	KRT6-7	KRT6-7	KRT6-7	KRT6-7	KRT8-8	KRT8-8	KRT8-8	KRT8-8	KRT7-1
Grain Size Analysis															
Gravel	%	0	2 6	12 1 [14 5]	0	0	1 6	1 6	15 6	67 3	56 3	70 2	36 9	2 1	4 1
Coarse Sand	%	0	0 8	0 8 [0 7]	0	0	0 6	4 3	1 3	7	8 6	6 5	10	2 3	7 4
Medium Sand	%	2 9	2 6	1 6 [1 4]	0 7	3 3	1 6	5 2	1 5	5 9	2 6	4 3	12 4	17 3	38 6
Fine Sand	%	23 4	38 3	40 8 [40 2]	49 7	62 2	45 1	54 1	42 8	15 8	10 3	7 9	16 9	40 8	43 3
Silt	%	62 9	41 3	34 5 [32 2]	34 4	28 8	41 5	24 3	31 6	2 2	19 4	8 4	19 9	24 8	6 6
Clay	%	10 8	14 4	10 2 [11]	15 2	5 7	9 7	10 5	7 1	1 8	2 8	2 7	3 9	12 8	0
75000	% passing	100	100	100 [100]	100	100	100	100	100	100	100	100	100	100	100
50000	% passing	100	100	100 [100]	100	100	100	100	100	100	100	100	100	100	100
37500	% passing	100	100	100 [100]	100	100	100	100	100	100	100	100	100	100	100
25000	% passing	100	100	100 [100]	100	100	100	100	100	100	100	100	100	100	100
19000	% passing	100	100	100 [86 9]	100	100	100	100	100	100	100	68 2	100	100	100
9500	% passing	100	98 9	89 9 [86 9]	100	100	100	100	89 2	52 2	59 6	43 1	76 5	100	100
4750	% passing	100	97 4	87 9 [85 5]	100	100	98 4	98 4	84 4	32 7	43 7	29 8	63 1	97 9	95 9
2000	% passing	100	96 6	87 1 [84 7]	100	100	97 8	94 1	83 1	25 7	35 2	23 3	53 1	95 7	88 5
850	% passing	99	95 5	86 5 [84 4]	99 7	99	97 2	92 4	82 5	22 8	35 2	21 1	46 7	90 1	73 1
425	% passing	97 1	94	85 5 [83 3]	99 3	96 7	96 3	88 8	81 6	19 8	32 5	19	40 6	78 4	49 9
250	% passing	95	91 2	83 3 [82 4]	99 3	96 7	96 2	86 9	81 5	16 7	32 5	18 8	35 6	64	24 1
180	% passing	91 3	83 8	78 [76 3]	93 7	85 8	88 2	69 9	71 1	12 2	30 5	17 3	31 8	54 8	15 3
150	% passing	87 6	76 3	71 1 [68 9]	85 8	73 1	78 4	56 5	60 7	9 1	28 8	16 1	29 6	50 3	11 8
75	% passing	73 7	55 7	44 8 [43 2]	49 6	34 5	51 2	34 7	38 8	4	22 2	11 1	23 8	37 6	6 6
Hydrometer Reading 1	% passing (size, um)	54 1 (35)	44 (34)	29 (35) [29 6 (34)]	32 5 (36)	18 (37)	31 9 (35)	27 9 (36)	25 8 (36)	3 7 (37)	16 3 (37)	8 6 (37)	11 5 (36)	35 5 (33)	2 4 (37)
Hydrometer Reading 2	% passing (size, um)	39 7 (23)	35 6 (22)	23 9 (23) [22 2 (22)]	24 9 (23)	11 8 (24)	22 3 (23)	23 5 (23)	22 1 (23)	3 1 (24)	12 9 (24)	7 2 (24)	9 6 (23)	29 8 (21)	2 4 (24)
Hydrometer Reading 3	% passing (size, um)	25 3 (13 4)	27 1 (13 1)	17 1 (13 3) [17 2 (13 1)]	19 8 (13 5)	11 8 (13 7)	15 8 (13 4)	17 (13 5)	14 6 (13 5)	2 4 (13 7)	9 6 (13 8)	5 7 (13 7)	6 7 (13 5)	22 7 (12 7)	2 4 (13 6)
Hydrometer Reading 4	% passing (size, um)	18 (9 3)	20 8 (9 4)	13 7 (9 5) [14 7 (9 5)]	19 8 (9 7)	8 7 (9 6)	12 6 (9 4)	14 8 (9 4)	12 7 (9 3)	2 4 (9 7)	6 2 (9 8)	4 2 (9 7)	5 8 (9 4)	17 (9 2)	2 4 (9 6)
Hydrometer Reading 5	% passing (size, um)	10 8 (6 8)	14 4 (6 6)	10 2 (6 8) [11 (6 5)]	15 2 (6 9)	5 7 (6 9)	9 7 (6 8)	10 5 (6 9)	7 1 (6 9)	1 8 (6 7)	2 8 (7 1)	2 7 (6 8)	3 9 (7)	12 8 (6 6)	0 (7)
Hydrometer Reading 6	% passing (size, um)	3 6 (3 3)	8 5 (3 3)	6 8 (3 3) [6 2 (3 3)]	10 1 (3 3)	2 6 (3 5)	4 8 (3 5)	6 5 (3 3)	3 7 (3 3)	1 2 (3 4)	2 8 (3 4)	3 (3 4)	2 9 (3 5)	8 3 (3 2)	-0 4 (3 3)
Hydrometer Reading 7	% passing (size, um)	3 (1 4)	1 8 (1 4)	3 1 (1 4) [3 7 (1 4)]	7 2 (1 4)	2 6 (1 4)	4 6 (1 4)	4 3 (1 4)	3 4 (1 4)	1 2 (1 4)	2 8 (1 4)	1 2 (1 4)	1 8 (1 4)	5 2 (1 4)	-2 8 (1 4)

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Table I — Grain Size Results for Frozen Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56095	K56096	K56097	K56098	K56099	K56100	K56101	K56102	K56103	K56104	K56105	K56106	K56107	K56108	K56109
Sample Depth (in):		2 - 6	6 - 12	12 - 15	15 - 23	0 - 2	2 - 6	6 - 12	12 - 18	0 - 2	2 - 6	6 - 12	12 - 16	0 - 2	2 - 6	6 - 12
Date Collected:		12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08
Location ID:	Units	KRT7-1	KRT7-1	KRT7-1	KRT7-1	KRT10-5	KRT10-5	KRT10-5	KRT10-5	KRT6-8	KRT6-8	KRT6-8	KRT6-8	KRT9-5	KRT9-5	KRT9-5
Grain Size Analysis																
Gravel	%	0	0	0	8 1	35 3	13 1	35	31 9	0 6	0	0 9	0	48 9	9 9	22 4
Coarse Sand	%	0	0	0	6 2	16	11 8	11 8	14	1	0	1 8	0	2	17 4	13 8
Medium Sand	%	15 8	4 9	5 1	10 4	32 9	36 4	20 9	23 5	2 5	3 1	1 3	0 5	17 1	51 5	39 1
Fine Sand	%	16 7	16 1	21 9	64 5	14 1	24 6	24	21 5	52 3	50 2	45 2	59 1	27 1	17 2	22 8
Silt	%	54 8	56 7	52	7 8	1 1	11 9	6 2	7 1	36 7	43 5	36 2	24 2	3 6	3 1	0 9
Clay	%	12 7	22 3	21	3	0 7	2 1	2 1	2	7	3 2	14 7	16 2	1 2	0 9	1
75000	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
50000	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
37500	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
25000	% passing	100	100	100	100	100	100	100	100	100	100	100	100	52 8	100	100
19000	% passing	100	100	100	100	84 2	100	98 3	94 8	100	100	100	100	52 8	100	100
9500	% passing	100	100	100	97 6	76 9	90 5	78 1	84 2	100	100	100	100	52 8	94 2	91 4
4750	% passing	100	100	100	91 9	64 7	86 9	65	68 1	99 4	100	99 1	100	51 1	90 1	77 6
2000	% passing	100	100	100	85 7	48 7	75 1	53 2	54 1	98 5	100	97 4	100	49 1	72 7	63 9
850	% passing	93 6	98 9	99 5	81 2	33 1	56 6	44	44 1	98	98 9	96 9	99 8	43 9	44 8	47 9
425	% passing	84 2	95 1	94 9	75 3	15 8	38 7	32 3	30 6	95 9	96 9	96 1	99 5	31 9	21 3	24 7
250	% passing	77 8	91 6	90 2	57 8	7 5	25 5	20 9	18 5	93 4	93 5	94 2	95 6	16 9	9 3	13 6
180	% passing	74 7	89 5	84 8	39 7	4 7	20 5	15 4	14 1	86 1	86	89 2	86 3	9 5	5 8	10
150	% passing	73 1	88 2	81 4	29 7	3 5	18 3	12 8	12 3	77 4	78 5	82 5	78 4	7 4	5	3
75	% passing	67 5	79	73	10 8	1 8	14	8 3	9 1	43 7	46 8	50 9	40 4	4 8	4	1 9
Hydrometer Reading 1	% passing (size, um)	47 5 (35)	56 8 (33)	57 8 (34)	7 7 (35)	1 7 (37)	5 3 (36)	4 9 (36)	4 6 (37)	21 1 (37)	19 3 (36)	33 1 (33)	29 8 (32)	1 9 (38)	1 9 (37)	1 5 (38)
Hydrometer Reading 2	% passing (size, um)	41 2 (22)	46 6 (21)	47 3 (22)	6 (23)	1 7 (24)	4 5 (23)	3 8 (23)	4 1 (23)	14 (23)	11 3 (23)	26 9 (22)	25 3 (21)	1 2 (24)	1 9 (24)	1 5 (24)
Hydrometer Reading 3	% passing (size, um)	28 5 (13 2)	36 5 (12 6)	34 1 (12 9)	5 4 (13 2)	1 7 (13 6)	3 8 (13 4)	3 2 (13 3)	3 1 (13 5)	11 7 (13 6)	6 4 (13 6)	20 8 (12 8)	20 7 (12 4)	1 2 (13 8)	1 4 (13 7)	1 (13 8)
Hydrometer Reading 4	% passing (size, um)	19 (9 6)	30 4 (9 2)	26 3 (9 1)	4 2 (9 2)	1 5 (9 5)	3 (9 2)	2 7 (9 5)	3 1 (9 7)	9 4 (9 8)	4 8 (9 5)	17 1 (9 1)	18 (8 8)	1 2 (9 4)	0 9 (9 7)	1 (9 7)
Hydrometer Reading 5	% passing (size, um)	12 7 (6 8)	22 3 (6 4)	21 (6 6)	3 (6 8)	0 7 (6 9)	2 1 (6 8)	2 1 (6 6)	2 (6 9)	7 (6 7)	3 2 (6 9)	14 7 (6 6)	16 2 (6 4)	1 2 (6 9)	0 9 (6 7)	1 (7 1)
Hydrometer Reading 6	% passing (size, um)	5 8 (3 3)	11 8 (3 3)	12 7 (3 4)	2 4 (3 4)	0 7 (3 3)	2 1 (3 3)	1 1 (3 3)	1 5 (3 4)	4 7 (3 4)	3 2 (3 4)	9 8 (3 4)	12 6 (3 1)	0 6 (3 3)	0 8 (3 4)	0 9 (3 4)
Hydrometer Reading 7	% passing (size, um)	-0 5 (1 4)	3 7 (1 4)	4 8 (1 4)	1 (1 4)	0 6 (1 4)	1 3 (1 4)	0 9 (1 4)	1 4 (1 4)	4 3 (1 4)	1 3 (1 4)	4 7 (1 4)	8 9 (1 4)	0 5 (1 4)	0 8 (1 4)	0 9 (1 4)

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Table I — Grain Size Results for Frozen Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56110	K56111	K56112	K56113	K56114	K56115	K56116	K56117	K56118	K56119	K56120	K56121	K56122	K56123	K56124	K56125
Sample Depth (in):		12 - 15	0 - 2	2 - 6	6 - 12	12 - 14	0 - 2	2 - 6	6 - 12	12 - 14	0 - 2	2 - 6	6 - 11	0 - 2	2 - 6	6 - 9	0 - 2
Date Collected:		12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08
Location ID:	Units	KRT9-5	KRT8-1	KRT8-1	KRT8-1	KRT8-1	KRT8-5	KRT8-5	KRT8-5	KRT8-5	KRT9-2	KRT9-2	KRT9-2	KRT7-5	KRT7-5	KRT7-5	KRT10-2
Grain Size Analysis																	
Gravel	%	10 3	0	0	0	0 1	94 5	35	20 9	25 8	8 2	1 6	11 2	46 9	37 9	50 3	61 7
Coarse Sand	%	13	0	0	0	1	3 7	11 6	14 1	14 7	9 4	7 5	16	12 1	20 9	18 3	10 7
Medium Sand	%	59 6	4 2	3 1	1 3	2 7	7	25 4	28 6	27 9	12 8	20 9	17	15 5	25 3	17 4	11 6
Fine Sand	%	15 2	8 9	8 9	37 3	87 8	7 5	25 5	28 3	23 4	52 9	56 8	51 1	21 9	13 5	11 6	9 7
Silt	%	1 1	72 9	70 2	41 3	7	-13 6	1 7	6 5	5 5	15 1	11 6	2 4	3 2	2 1	1 9	4 6
Clay	%	0 8	13 9	17 8	20	1 4	1	0 7	1 6	2 7	1 5	1 6	2 2	0 4	0 4	0 5	1 7
75000	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
50000	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
37500	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
25000	% passing	100	100	100	100	100	43 2	100	100	100	100	100	100	100	100	100	100
19000	% passing	100	100	100	100	100	22 9	85 8	94 8	87 2	100	100	100	100	90	85 6	86 5
9500	% passing	95	100	100	100	100	11 8	71 5	86	83 9	97 1	99 3	97 2	84	78 5	67 4	51 8
4750	% passing	89 7	100	100	100	99 9	5 5	65	79 1	74 2	91 8	98 4	88 8	53 1	62 1	49 7	38 3
2000	% passing	76 7	100	100	100	98 9	1 8	53 4	65	59 5	82 4	90 9	72 8	41	41 2	31 5	27 6
850	% passing	56 2	98 9	98 9	99 5	98 6	-1 5	42 6	49	44 8	75 5	79 9	63	36 4	29 1	21 6	22 3
425	% passing	17	95 8	96 9	98 6	96 2	-5 2	28	36 4	31 6	69 5	70	55 7	25 6	16	14	16
250	% passing	4 3	93 9	95	91 6	75 5	-8 6	15 7	23 5	20 1	55 1	53 2	43	8 5	5 3	5 9	11
180	% passing	2 8	92 1	93 1	80 6	45 3	-10 7	8 7	15 7	14 3	40 4	35	24 8	4 5	3 4	3 9	9 4
150	% passing	2 4	91 3	92 1	74 7	29 3	-11 4	6 2	12 7	12 3	31 8	25 8	15 9	4 1	3 1	3 5	8 7
75	% passing	1 8	86 9	88	61 4	8 4	-12 7	2 5	8 1	8 2	16 6	13 2	4 6	3 6	2 4	2 4	6 3
Hydrometer Reading 1	% passing (size, um)	1 5 (38)	31 4 (37)	43 3 (33)	41 1 (29)	3 9 (37)	2 6 (37)	2 (37)	4 2 (36)	8 2 (36)	5 8 (37)	4 (37)	4 4 (37)	1 5 (38)	1 7 (37)	2 2 (37)	6 (37)
Hydrometer Reading 2	% passing (size, um)	1 5 (24)	27 9 (23)	35 9 (21)	35 7 (19)	3 9 (23)	1 8 (24)	1 3 (24)	3 2 (23)	7 3 (23)	5 8 (24)	4 (23)	4 4 (23)	1 (24)	1 3 (24)	1 6 (24)	5 2 (23)
Hydrometer Reading 3	% passing (size, um)	1 5 (13 8)	20 9 (13 5)	28 5 (12 6)	29 3 (11 7)	2 6 (13 6)	1 (13 7)	1 3 (13 6)	2 1 (13 5)	5 5 (13 5)	4 4 (13 6)	2 4 (13 6)	3 3 (13 5)	0 4 (13 8)	1 3 (13 7)	1 1 (13 8)	4 3 (13 5)
Hydrometer Reading 4	% passing (size, um)	0 8 (9 8)	17 4 (9 4)	22 3 (9 1)	23 7 (8 6)	2 6 (9 8)	1 (9 8)	0 7 (9 5)	1 6 (9 4)	3 7 (9 4)	2 9 (9 4)	2 4 (9 6)	2 7 (9 6)	0 4 (9 8)	0 8 (9 9)	0 5 (10)	2 6 (9 5)
Hydrometer Reading 5	% passing (size, um)	0 8 (6 7)	13 9 (7)	17 8 (6 6)	20 (6 3)	1 4 (7)	1 (6 7)	0 7 (6 8)	1 6 (6 8)	2 7 (6 9)	1 5 (6 9)	1 6 (6 7)	2 2 (6 9)	0 4 (7)	0 4 (7)	0 5 (6 8)	1 7 (6 9)
Hydrometer Reading 6	% passing (size, um)	0 6 (3 5)	10 5 (3 5)	10 4 (3 2)	12 7 (3 1)	1 (3 4)	0 7 (3 4)	0 5 (3 5)	1 (3 5)	1 7 (3 3)	1 2 (3 3)	0 7 (3 4)	1 6 (3 3)	0 4 (3 4)	0 4 (3 4)	0 5 (3 4)	0 7 (3 5)
Hydrometer Reading 7	% passing (size, um)	0 6 (1 4)	6 4 (1 4)	5 7 (1 4)	6 2 (1 4)	1 (1 4)	0 7 (1 4)	0 5 (1 4)	0 9 (1 4)	0 6 (1 4)	1 (1 4)	0 5 (1 4)	1 (1 4)	0 4 (1 4)	0 4 (1 4)	0 5 (1 4)	0 7 (1 4)

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Table I — Grain Size Results for Frozen Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56126	K56127	K56128	K56129	K56130	K56131	K56132	K56133	K56134	K56135	K56136	K56137	K56138	K56139	K56140
Sample Depth (in):		2 - 6	6 - 8	0 - 2	2 - 5	0 - 2	2 - 5	0 - 2	2 - 6	6 - 12	12 - 24	24 - 36	36 - 48	48 - 60	60 - 64	0 - 2
Date Collected:		12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/16/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08
Location ID:	Units	KRT10-2	KRT10-2	KRT13-1	KRT13-1	KRT9-8	KRT9-8	KRT2-2	KRT2-2	KRT2-2	KRT2-2	KRT2-2	KRT2-2	KRT2-2	KRT2-2	KRT4-2
Grain Size Analysis																
Gravel	%	29 8	23 2	33 5	0	0	91 8	0 4	0 7	0 8	0	0 8 [0]	0	2 4	1 7	0 8
Coarse Sand	%	11 6	15 6	0 9	4 7	5 2	1 1	2 7	5 3	3	2 1	1 [1]	1 5	1	1 6	0 5
Medium Sand	%	27 9	26	4 7	15 5	6 1	1 1	36 6	47 8	42 9	38 2	26 7 [28 6]	39 1	5 3	8 2	2 1
Fine Sand	%	18 6	27 5	50 2	49 5	46 7	2 8	58 2	43 7	51 4	55 5	66 1 [67 6]	53 9	59 8	52	90 7
Silt	%	9 8	6 9	8 3	21 3	31 6	2 5	2 2	0 9	0 5	1 8	2 [1 3]	3 9	19	24 7	6
Clay	%	2 3	0 8	2 5	9	10 4	0 6	-0 1	1 6	1 4	2 4	3 4 [1 5]	1 5	12 5	11 9	-0 2
75000	% passing	100	100	100	100	100	100	100	100	100	100	100 [100]	100	100	100	100
50000	% passing	100	100	100	100	100	100	100	100	100	100	100 [100]	100	100	100	100
37500	% passing	100	100	100	100	100	100	100	100	100	100	100 [100]	100	100	100	100
25000	% passing	100	100	100	100	100	35 3	100	100	100	100	100 [100]	100	100	100	100
19000	% passing	100	100	66 5	100	100	35 3	100	100	100	100	100 [100]	100	100	100	100
9500	% passing	85 5	98 3	66 5	100	100	12 5	100	100	100	100	100 [100]	100	100	100	100
4750	% passing	70 2	76 8	66 5	100	100	8 2	99 6	99 3	99 2	100	99 2 [100]	100	97 6	98 3	99 2
2000	% passing	58 6	61 2	65 6	95 3	94 8	7 1	97	94	96 2	97 9	98 1 [99]	98 5	96 6	96 7	98 6
850	% passing	45 1	51 2	64 8	91	93 3	6 7	86 8	75 7	83 1	90 4	92 5 [92 8]	87 3	94 6	93 4	98 2
425	% passing	30 6	35 2	61	79 7	88 7	6	60 4	46 2	53 3	59 7	71 4 [70 4]	59 4	91 3	88 5	96 5
250	% passing	18	16 6	43 6	55 6	83 7	5 4	20 8	13 4	11 4	12 8	23 5 [20 6]	26 7	82 2	77 8	85 3
180	% passing	14 8	11 9	29 5	43 9	76 7	5	7 1	4 8	3 1	5 4	7 8 [5 3]	13 2	67 3	65 4	59 5
150	% passing	14 5	10 5	23 4	39 8	69 9	4 6	5 5	3 4	2 3	4 8	6 4 [4]	9	56 2	58 4	39 4
75	% passing	12	7 8	10 8	30 3	42	3 1	2 1	2 5	1 9	4 2	5 4 [2 8]	5 5	31 5	36 5	5 8
Hydrometer Reading 1	% passing (size, um)	6 3 (36)	3 (37)	6 7 (37)	21 7 (35)	27 5 (37)	2 8 (37)	0 6 (38)	2 1 (37)	1 9 (37)	3 7 (38)	4 6 (37) [2 6 (37)]	3 1 (37)	25 9 (32)	29 3 (34)	1 7 (38)
Hydrometer Reading 2	% passing (size, um)	5 1 (23)	2 9 (24)	5 3 (24)	18 2 (22)	21 8 (24)	2 1 (24)	0 6 (24)	2 1 (24)	1 9 (24)	3 7 (24)	4 6 (24) [2 6 (24)]	2 6 (24)	22 (21)	23 9 (22)	1 7 (24)
Hydrometer Reading 3	% passing (size, um)	4 (13 4)	1 9 (13 8)	3 9 (13 7)	15 9 (13)	16 1 (13 7)	1 4 (13 8)	0 6 (13 8)	2 1 (13 7)	1 4 (13 7)	3 7 (13 7)	3 4 (13 7) [2 1 (13 7)]	2 6 (13 6)	17 2 (12 5)	18 6 (13)	1 7 (13 7)
Hydrometer Reading 4	% passing (size, um)	2 8 (9 5)	1 9 (9 6)	2 5 (9 4)	11 3 (9 4)	10 4 (9 7)	0 6 (9 8)	0 5 (9 6)	2 1 (9 7)	1 4 (9 7)	2 4 (9 9)	3 4 (9 9) [1 5 (9 7)]	2 1 (9 5)	14 9 (8 8)	14 5 (9 1)	0 8 (9 7)
Hydrometer Reading 5	% passing (size, um)	2 3 (6 8)	0 8 (7)	2 5 (6 9)	9 (6 5)	10 4 (7 1)	0 6 (6 8)	-0 1 (7 1)	1 6 (6 9)	1 4 (7)	2 4 (7)	3 4 (6 7) [1 5 (6 7)]	1 5 (6 9)	12 5 (6 5)	11 9 (6 7)	-0 2 (7)
Hydrometer Reading 6	% passing (size, um)	1 6 (3 5)	0 8 (3 3)	1 2 (3 3)	4 6 (3 3)	4 7 (3 4)	-0 1 (3 5)	-0 1 (3 5)	1 6 (3 3)	1 4 (3 3)	2 4 (3 4)	3 4 (3 4) [1 5 (3 3)]	1 5 (3 5)	8 6 (3 1)	7 8 (3 3)	-0 2 (3 4)
Hydrometer Reading 7	% passing (size, um)	1 (1 4)	0 7 (1 4)	1 2 (1 4)	1 9 (1 4)	4 7 (1 4)	-0 2 (1 5)	-0 1 (1 4)	1 6 (1 4)	0 9 (1 4)	1 1 (1 4)	2 2 (1 4) [1 5 (1 4)]	1 5 (1 4)	5 4 (1 4)	3 8 (1 4)	-2 (1 5)

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Table I — Grain Size Results for Frozen Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56141	K56142	K56143	K56144	K56145	K56146	K56147	K56148	K56149	K56150	K56151	K56152	K56153
Sample Depth (in):		2 - 4	4 - 6	6 - 12	12 - 24	24 - 27	27 - 36	36 - 48	48 - 54	0 - 2	2 - 6	6 - 12	12 - 24	24 - 36
Date Collected:		12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08
Location ID:	Units	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT5-3	KRT5-3	KRT5-3	KRT5-3	KRT5-3
Grain Size Analysis														
Gravel	%	1 8	0 7	0	0 [0]	2 2	0 6	1 3	34 2	0	0	0	0 [0]	0
Coarse Sand	%	1 1	0 5	0	0 [0]	1 6	8 6	4 2	13 7	0 4	0 4	0 5	0 [0 8]	1 4
Medium Sand	%	4 6	3 5	0 8	2 1 [2 5]	6 4	62 6	26 6	16 3	3 8	3 8	4 1	5 3 [4 6]	10 2
Fine Sand	%	83 6	37 5	10 1	19 4 [19 9]	34 2	20 4	49 8	26 1	91 8	80 4	85 8	45 4 [36 8]	37 7
Silt	%	7 8	39 9	56 9	56 8 [57]	44 1	6 8	14 6	7 8	4 4	12 8	7 1	26 8 [32]	29 7
Clay	%	1 1	17 9	32 1	21 7 [20 6]	11 6	1	3 4	1 9	-0 3	2 6	2 5	22 5 [25 8]	21
75000	% passing	100	100	100	100 [100]	100	100	100	100	100	100	100	100 [100]	100
50000	% passing	100	100	100	100 [100]	100	100	100	100	100	100	100	100 [100]	100
37500	% passing	100	100	100	100 [100]	100	100	100	100	100	100	100	100 [100]	100
25000	% passing	100	100	100	100 [100]	100	100	100	100	100	100	100	100 [100]	100
19000	% passing	100	100	100	100 [100]	100	100	100	100	100	100	100	100 [100]	100
9500	% passing	100	100	100	100 [100]	98 3	100	99 5	82 1	100	100	100	100 [100]	100
4750	% passing	98 2	99 3	100	100 [100]	97 8	99 4	98 7	65 8	100	100	100	100 [100]	100
2000	% passing	97 1	98 8	100	100 [100]	96 2	90 8	94 4	52 1	99 6	99 6	99 5	100 [99 2]	98 6
850	% passing	96 1	98	99 8	99 8 [99 9]	95 3	56 5	82 5	44 8	98 7	98 6	98 6	98 4 [98]	95 5
425	% passing	92 6	95 3	99 2	97 9 [97 5]	89 8	28 2	67 8	35 8	95 8	95 8	95 4	94 7 [94 6]	88 4
250	% passing	77 5	87 2	97 9	94 9 [94 2]	81 8	11 8	51	23 8	83 3	75 2	81 3	81 1 [84 2]	77 9
180	% passing	55 5	77 3	96 3	91 7 [90 9]	76 2	9 9	38 5	18 2	53 1	43 3	53 2	63 [70 9]	67 4
150	% passing	40 5	71 3	95 2	89 2 [88 4]	72 4	9 4	32 1	15 3	32 7	31 6	35	59 6 [66 2]	62 2
75	% passing	8 9	57 8	89 1	78 5 [77 6]	55 7	7 8	18	9 8	4	15 3	9 6	49 3 [57 8]	50 7
Hydrometer Reading 1	% passing (size, um)	5 2 (37)	41 4 (35)	64 6 (33)	51 (33) [53 (33)]	35 4 (34)	3 2 (37)	9 2 (35)	7 6 (36)	3 7 (37)	5 2 (37)	6 8 (37)	43 6 (33) [51 9 (32)]	39 8 (33)
Hydrometer Reading 2	% passing (size, um)	3 8 (24)	36 2 (22)	55 9 (21)	43 7 (21) [43 5 (21)]	28 6 (22)	2 6 (23)	7 5 (23)	6 1 (23)	2 7 (24)	3 9 (24)	5 1 (24)	38 4 (21) [44 2 (21)]	36 (21)
Hydrometer Reading 3	% passing (size, um)	2 5 (13 7)	28 3 (13 2)	47 3 (12 5)	34 5 (12 7) [35 9 (12 7)]	21 8 (13)	1 5 (13 7)	6 6 (13 1)	4 (13 4)	2 7 (13 7)	3 9 (13 6)	5 1 (13 6)	33 1 (12 6) [38 1 (12 4)]	29 8 (12 5)
Hydrometer Reading 4	% passing (size, um)	1 1 (9 7)	23 1 (9 6)	40 8 (9 1)	27 2 (9) [28 2 (9)]	16 7 (9 1)	1 (9 7)	4 5 (9 4)	3 (9 6)	0 7 (9 6)	3 2 (9 7)	3 3 (9 7)	27 8 (9) [31 9 (8 8)]	26 (9 1)
Hydrometer Reading 5	% passing (size, um)	1 1 (7)	17 9 (6 8)	32 1 (6 3)	21 7 (6 6) [20 6 (6 6)]	11 6 (6 7)	1 (6 7)	3 4 (6 9)	1 9 (6 7)	-0 3 (7 1)	2 6 (6 9)	2 5 (7)	22 5 (6 5) [25 8 (6 5)]	21 (6 6)
Hydrometer Reading 6	% passing (size, um)	-0 2 (3 4)	10 (3 3)	19 1 (3 3)	10 7 (3 4) [11 1 (3 2)]	4 8 (3 3)	-0 1 (3 4)	1 6 (3 4)	1 (3 4)	-0 3 (3 5)	1 2 (3 4)	0 7 (3 4)	15 5 (3 2) [16 6 (3 3)]	12 3 (3 3)
Hydrometer Reading 7	% passing (size, um)	-0 5 (1 4)	4 4 (1 4)	7 9 (1 4)	3 1 (1 4) [3 2 (1 4)]	1 4 (1 4)	-0 2 (1 4)	0 4 (1 4)	-0 2 (1 4)	-0 3 (1 5)	0 6 (1 4)	-0 1 (1 4)	6 7 (1 4) [7 4 (1 4)]	7 3 (1 4)

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Table I — Grain Size Results for Frozen Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56154	K56155	K56156	K56157	K56158	K56159	K56160	K56161	K56162	K56163	K56164	K56165	K56166
Sample Depth (in):		36 - 48	0 - 2	2 - 6	6 - 12	12 - 24	24 - 36	0 - 2	2 - 6	6 - 12	12 - 22	22 - 27	0 - 2	2 - 6
Date Collected:		12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08
Location ID:	Units	KRT5-3	KRT2-8	KRT2-8	KRT2-8	KRT2-8	KRT2-8	KRT2-6	KRT2-6	KRT2-6	KRT2-6	KRT2-6	KRT3-8	KRT3-8
Grain Size Analysis														
Gravel	%	8 3	14 4	25 2	18 6	0 [0]	0	1 6	15 5	3 4	0 [0 4]	16 5	0	0
Coarse Sand	%	12 1	11 3	9 7	13 9	0 1 [0]	0	2 8	4 7	2 7	1 1 [0 5]	10 2	0	0 3
Medium Sand	%	36 5	29 1	16 6	18 1	1 5 [0 8]	0 6	29 7	29 2	7 5	2 7 [3 3]	19 6	2 4	2 8
Fine Sand	%	31	35	19 7	28 8	8 4 [8 5]	6 9	64 8	46 1	38 9	58 7 [56 4]	51 5	52 6	47 4
Silt	%	8 3	8 6	27 7	14 6	51 7 [58 6]	56 3	1 9	3 9	27 2	23 4 [28 3]	-0 7	32 5	36 5
Clay	%	3 7	1 5	1 1	6	38 3 [32 1]	36 2	-0 7	0 6	20 3	14 1 [11 1]	2 9	12 4	12 8
75000	% passing	100	100	100	100	100 [100]	100	100	100	100	100 [100]	100	100	100
50000	% passing	100	100	100	100	100 [100]	100	100	100	100	100 [100]	100	100	100
37500	% passing	100	100	100	100	100 [100]	100	100	100	100	100 [100]	100	100	100
25000	% passing	100	100	100	100	100 [100]	100	100	86 9	100	100 [100]	100	100	100
19000	% passing	100	100	90 5	100	100 [100]	100	100	86 9	100	100 [100]	100	100	100
9500	% passing	100	95 1	83 8	95	100 [100]	100	99 9	86 9	98 3	100 [100]	90 4	100	100
4750	% passing	91 7	85 6	74 8	81 4	100 [100]	100	98 4	84 5	96 6	100 [99 6]	83 5	100	100
2000	% passing	79 6	74 3	65 1	67 5	99 9 [100]	100	95 6	79 8	93 9	98 9 [99 1]	73 3	100	99 6
850	% passing	63 2	61 3	58	57 3	99 8 [99 9]	99 8	86 2	68 3	91 3	98 3 [98 3]	65 5	99 7	99 5
425	% passing	43 1	45 2	48 5	49 4	98 4 [99 2]	99 4	65 9	50 6	86 4	96 2 [95 8]	53 7	97 6	96 8
250	% passing	23 2	24 7	36 7	39 7	97 [98 3]	98 7	25 8	26	80 9	86 4 [83 7]	35 5	87	86 1
180	% passing	18 4	16 2	32 4	31 4	95 9 [97 1]	98 1	10 5	13 4	71 4	70 9 [66 1]	19 4	72 7	75 8
150	% passing	16 4	13 8	31 1	28 1	95 2 [96 4]	97 8	6 6	10	65 6	61 7 [62 5]	12 2	65 9	71 6
75	% passing	12 1	10 1	28 8	20 6	90 [90 7]	92 5	1 1	4 5	47 4	37 5 [39 4]	2 2	44 9	49 4
Hydrometer Reading 1	% passing (size, um)	7 6 (36)	4 9 (37)	2 8 (37)	14 2 (36)	72 2 (32) [68 8 (32)]	77 7 (32)	0 5 (38)	3 4 (37)	38 5 (31)	28 7 (35) [26 5 (33)]	6 9 (35)	31 5 (34)	33 5 (35)
Hydrometer Reading 2	% passing (size, um)	6 9 (23)	4 (24)	2 2 (24)	12 2 (23)	63 1 (21) [60 2 (21)]	68 6 (21)	0 5 (24)	3 4 (23)	34 2 (20)	25 5 (22) [22 4 (21)]	5 9 (23)	26 7 (22)	27 9 (22)
Hydrometer Reading 3	% passing (size, um)	5 6 (13 4)	3 2 (13 7)	2 2 (13 7)	10 1 (13 4)	56 4 (12 1) [51 5 (12 3)]	57 1 (12 3)	-0 1 (13 8)	1 3 (13 7)	29 9 (12)	22 (13 1) [18 3 (12 7)]	4 9 (13 2)	20 4 (13)	20 4 (13 1)
Hydrometer Reading 4	% passing (size, um)	4 4 (9 7)	2 4 (9 6)	1 6 (9 6)	8 1 (9 2)	47 4 (8 8) [42 9 (9)]	45 3 (9)	-0 1 (9 9)	1 3 (9 5)	24 6 (8 6)	17 3 (9 4) [13 2 (8 9)]	3 4 (9 3)	17 2 (9 3)	16 6 (9 4)
Hydrometer Reading 5	% passing (size, um)	3 7 (6 6)	1 5 (7)	1 1 (7)	6 (6 8)	38 3 (6 4) [32 1 (6 5)]	36 2 (6 3)	-0 7 (6 8)	0 6 (6 9)	20 3 (6 3)	14 1 (6 9) [11 1 (6 6)]	2 9 (6 8)	12 4 (6 5)	12 8 (6 9)
Hydrometer Reading 6	% passing (size, um)	2 4 (3 4)	0 7 (3 5)	0 5 (3 3)	3 9 (3 3)	22 2 (3 2) [16 9 (3 3)]	20 2 (3 3)	-0 7 (3 4)	-0 1 (3 4)	11 6 (3 3)	8 (3 3) [4 8 (3 3)]	1 4 (3 2)	5 8 (3 3)	5 3 (3 4)
Hydrometer Reading 7	% passing (size, um)	1 2 (1 4)	-0 1 (1 4)	-0 1 (1 4)	0 9 (1 4)	13 2 (1 4) [6 1 (1 4)]	11 (1 4)	-0 7 (1 4)	-0 8 (1 4)	5 2 (1 4)	4 5 (1 4) [1 9 (1 4)]	0 4 (1 4)	1 3 (1 4)	1 6 (1 4)

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Table I — Grain Size Results for Frozen Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56167	K56168	K56169	K56170	K56171	K56172	K56173	K56174	K56175	K56176	K56177	K56178	K56179	K56180	K56181	K56182
Sample Depth (in):		6 - 12	12 - 16	16 - 26	0 - 2	2 - 6	6 - 12	12 - 22	0 - 2	2 - 6	6 - 12	12 - 19	0 - 2	2 - 6	6 - 12	12 - 15	0 - 2
Date Collected:		12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08
Location ID:	Units	KRT3-8	KRT3-8	KRT3-8	KRT5-1	KRT5-1	KRT5-1	KRT5-1	KRT1-6	KRT1-6	KRT1-6	KRT1-6	KRT4-5	KRT4-5	KRT4-5	KRT4-5	KRT3-1
Grain Size Analysis																	
Gravel	%	1 7	27 5	1 1	5 8	0	0	3 7	0 5	0 9	14 7	48 5	74 6	40 7	42 1	40 8	3 6
Coarse Sand	%	1 7	5 5	3 9	3 3	0	0	8 2	1 2	2 3	21 1	14 4	6 7	22 5	21 6	16 4	1 6
Medium Sand	%	7 5	6 2	45 4	18 3	9 3	2 2	32 9	21 6	30 3	31	20 2	8 8	21 7	21 7	31 3	7 8
Fine Sand	%	42 4	45 6	38	30 9	32	79	52 4	72 8	61 4	29 7	14 5	8 9	13 9	12 9	9 2	30 2
Silt	%	36	11 4	8 1	29	40 2	11	1 8	3 3	4 7	3	2	1	0 8	1 3	1 9	43 1
Clay	%	10 8	3 8	3 6	12 6	18 6	7 8	1	0 6	0 5	0 5	0 4	0	0 4	0 5	0 4	13 7
75000	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
50000	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
37500	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
25000	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
19000	% passing	100	100	100	100	100	100	100	100	100	100	84 8	75 2	100	79 3	81 9	100
9500	% passing	100	83 7	100	96 5	100	100	97 9	100	99 7	97 6	74 1	35 8	76 7	75 1	70 4	99 1
4750	% passing	98 3	72 5	98 9	94 2	100	100	96 3	99 5	99 1	85 3	51 5	25 4	59 3	57 9	59 2	96 4
2000	% passing	96 7	67 1	95 1	90 8	100	100	88 1	98 3	96 9	64 1	37 1	18 7	36 8	36 3	42 9	94 8
850	% passing	94 9	65 3	69 7	83 4	94 4	99 5	74 3	93 9	90 1	49 3	27 9	14 9	26 4	24 6	30 3	93 2
425	% passing	89 2	60 9	49 7	72 5	90 7	97 8	55 2	76 7	66 6	33 1	16 9	9 8	15 1	14 6	11 6	87
250	% passing	80 4	52 5	31 5	64 4	87 9	87 4	24	35 9	22 1	9 8	5 7	4 8	6 6	7	3 7	79 5
180	% passing	70 9	41 7	22 2	58 5	83 8	66	8 2	16 1	10 4	4 4	3 4	2 3	2 9	4 1	3	73 6
150	% passing	65 7	33 5	18 5	54 7	79 3	49 6	5 1	10	7 7	3 8	3	2	2 3	3 6	2 9	71 8
75	% passing	46 8	15 3	11 7	41 6	58 8	18 8	2 8	3 9	5 2	3 5	2 4	1	1 2	1 7	2 3	56 8
Hydrometer Reading 1	% passing (size, um)	28 4 (33)	11 (35)	9 4 (36)	31 6 (34)	40 6 (32)	16 1 (33)	2 5 (37)	2 (37)	1 1 (38)	1 (38)	1 2 (37)	0 5 (37)	0 9 (37)	1 4 (37)	2 1 (37)	32 1 (36)
Hydrometer Reading 2	% passing (size, um)	22 9 (22)	9 (22)	6 5 (23)	23 7 (22)	33 6 (21)	13 7 (21)	2 5 (23)	1 4 (24)	1 1 (24)	1 (24)	1 2 (24)	0 5 (24)	0 4 (24)	0 9 (24)	1 6 (23)	25 (23)
Hydrometer Reading 3	% passing (size, um)	18 5 (12 7)	6 4 (13 2)	5 1 (13 4)	18 9 (13 1)	26 7 (12 4)	11 3 (12 6)	2 (13 5)	1 4 (13 6)	1 1 (13 7)	1 (13 7)	0 8 (13 7)	0 5 (13 6)	0 4 (13 6)	0 9 (13 6)	1 2 (13 5)	21 4 (13 3)
Hydrometer Reading 4	% passing (size, um)	14 1 (9 2)	5 1 (9 2)	4 3 (9 5)	15 8 (9 3)	23 2 (9)	9 5 (9 2)	1 5 (9 5)	0 6 (9 6)	0 5 (9 6)	0 5 (9 4)	0 4 (9 7)	0 (9 9)	0 4 (9 8)	0 5 (9 5)	0 8 (9 4)	14 3 (9 4)
Hydrometer Reading 5	% passing (size, um)	10 8 (6 4)	3 8 (6 9)	3 6 (6 8)	12 6 (6 8)	18 6 (6 5)	7 8 (6 4)	1 (6 9)	0 6 (6 9)	0 5 (6 9)	0 5 (6 9)	0 4 (6 7)	0 (7)	0 4 (6 7)	0 5 (6 8)	0 4 (6 9)	13 7 (6 8)
Hydrometer Reading 6	% passing (size, um)	5 3 (3 4)	1 9 (3 4)	2 2 (3 3)	7 9 (3 3)	12 8 (3 2)	5 4 (3 3)	1 (3 4)	0 6 (3 5)	0 5 (3 3)	0 5 (3 3)	0 4 (3 4)	-0 1 (3 4)	0 4 (3 4)	-0 1 (3 4)	-0 1 (3 5)	6 5 (3 3)
Hydrometer Reading 7	% passing (size, um)	2 (1 4)	0 5 (1 4)	2 (1 4)	7 9 (1 4)	7 9 (1 4)	3 6 (1 4)	1 (1 4)	0 6 (1 4)	0 5 (1 4)	0 5 (1 4)	0 3 (1 4)	-0 1 (1 4)	0 4 (1 4)	-0 1 (1 4)	-0 1 (1 4)	3 (1 4)

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Table I — Grain Size Results for Frozen Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56183	K56184	K56185	K56186	K56187	K56188	K56189	K56190	K56191	K56192	K56193	K56194	K56195	K56196	K56197	K56198
Sample Depth (in):		2 - 6	6 - 10	10 - 14	0 - 2	2 - 6	6 - 12	12 - 15	0 - 2	2 - 6	6 - 12	12 - 19	0 - 2	2 - 6	6 - 10	0 - 2	2 - 6
Date Collected:		12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08	12/17/08
Location ID:	Units	KRT3-1	KRT3-1	KRT3-1	KRT1-4	KRT1-4	KRT1-4	KRT1-4	KRT4-8	KRT4-8	KRT4-8	KRT4-8	KRT2-7	KRT2-7	KRT2-7	KRT3-4	KRT3-4
Grain Size Analysis																	
Gravel	%	0 7	9 1	57 1	62	56 4	56 1	50 5	41 3	3 2	7 1	2 7	0	1 2	27 7	6 2	38 8
Coarse Sand	%	1 1	3 7	14	14 9	14 1	15 6	15 8	9 6	3 6	2 1	2 3	1 3	0 4	17 5	4 4	16 6
Medium Sand	%	6 3	4 8	18 6	14 1	18 5	15 9	14 9	25 7	40 5	20 2	29 8	3 6	0 8	22	42 2	23 5
Fine Sand	%	27 7	20 5	7 5	6 9	10	10 5	16 9	20	36 3	61	50	34 1	11 4	30	45 2	20 3
Silt	%	48 7	42 9	2 9	1 8	1 2	1 9	1 4	1 5	13 4	8 1	12 7	43 4	57 6	2 2	1 4	0 9
Clay	%	15 5	19 1	-0 1	0 3	-0 1	0	0 6	2	2 9	1 5	2 6	17 7	28 6	0 6	0 7	0
75000	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
50000	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
37500	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
25000	% passing	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
19000	% passing	100	100	92 8	100	91 2	94 4	90 8	100	100	100	100	100	100	82 6	100	100
9500	% passing	99 9	95 2	62 1	63 4	64 7	69 1	70 7	79 6	100	96 2	100	100	100	79 4	98 7	84 6
4750	% passing	99 3	90 9	42 9	38	43 6	43 9	49 5	58 7	96 8	92 9	97 3	100	98 8	72 3	93 8	61 2
2000	% passing	98 2	87 2	28 9	23 1	29 5	28 3	33 8	49 2	93 1	90 8	95 1	98 7	98 4	54 8	89 4	44 6
850	% passing	97 6	85 7	21	17	22	20 7	28 3	39 2	73 1	81 4	84	97 9	98 2	38 5	78 4	36
425	% passing	91 9	82 4	10 3	9	11 1	12 4	18 8	23 5	52 6	70 6	65 3	95 1	97 6	32 8	47 3	21 1
250	% passing	86	78 3	4 9	4	2 7	4 2	5 7	10 6	37	46 4	46 4	90 9	96 3	16 4	11 6	4 9
180	% passing	81 5	74 6	3 9	2 9	1 7	2 7	3 2	6 4	27 6	25 4	30 4	84 7	95	7 6	3 7	1 8
150	% passing	79 9	73 4	3 7	2 7	1 6	2 5	2 9	5 7	26 5	22 1	29 2	83 4	94 5	7 2	2 9	1 3
75	% passing	64 2	62	2 8	2 1	1 1	1 9	2	3 5	16 3	9 6	15 3	61 1	86 2	2 8	2 1	0 9
Hydrometer Reading 1	% passing (size, um)	38 6 (34)	42 (31)	1 6 (37)	1 2 (37)	0 5 (37)	0 4 (38)	1 2 (38)	3 (37)	7 9 (37)	5 2 (37)	7 8 (36)	45 5 (35)	65 1 (30)	1 9 (37)	1 5 (38)	0 4 (38)
Hydrometer Reading 2	% passing (size, um)	33 3 (22)	36 3 (20)	0 8 (24)	1 2 (23)	0 5 (24)	0 4 (24)	1 2 (24)	3 (24)	6 9 (23)	4 5 (23)	6 9 (23)	37 9 (22)	54 (20)	1 9 (24)	1 5 (24)	0 4 (24)
Hydrometer Reading 3	% passing (size, um)	26 3 (12 8)	29 5 (12)	0 3 (13 7)	0 8 (13 6)	0 5 (13 6)	0 (13 8)	0 6 (13 8)	2 (13 7)	3 9 (13 6)	3 (13 6)	5 2 (13 5)	30 3 (13 1)	42 9 (12 1)	1 3 (13 7)	1 5 (13 8)	0 (13 8)
Hydrometer Reading 4	% passing (size, um)	19 (9)	25 (8 7)	0 3 (9 7)	0 3 (9 7)	-0 1 (9 6)	0 (9 8)	0 6 (9 7)	2 (9 9)	2 9 (9 8)	2 2 (9 5)	3 4 (9 4)	22 7 (9 2)	34 9 (8 5)	0 6 (9 7)	0 7 (9 7)	0 (9 8)
Hydrometer Reading 5	% passing (size, um)	15 5 (6 6)	19 1 (6 2)	-0 1 (7 1)	0 3 (6 7)	-0 1 (7 1)	0 (7)	0 6 (7)	2 (7)	2 9 (6 7)	1 5 (6 9)	2 6 (6 9)	17 7 (6 8)	28 6 (6 4)	0 6 (6 7)	0 7 (7 1)	0 (7 1)
Hydrometer Reading 6	% passing (size, um)	10 2 (3 2)	14 6 (3 2)	-0 1 (3 4)	0 3 (3 4)	-0 1 (3 5)	0 (3 3)	0 6 (3 3)	2 (3 4)	2 (3 4)	1 5 (3 4)	2 6 (3 5)	8 (3 2)	15 9 (3 2)	0 6 (3 4)	0 7 (3 5)	0 (3 4)
Hydrometer Reading 7	% passing (size, um)	6 7 (1 4)	6 6 (1 4)	-0 1 (1 4)	0 3 (1 4)	-0 1 (1 4)	0 (1 4)	0 6 (1 4)	2 (1 4)	2 (1 4)	1 5 (1 4)	2 4 (1 4)	2 5 (1 4)	7 9 (1 4)	0 6 (1 4)	-0 1 (1 5)	0 (1 4)

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Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #26, April 2009

Table I — Grain Size Results for Frozen Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56199	K56200	K56201	K56202
Sample Depth (in):		6 - 9	0 - 2	2 - 6	6 - 9
Date Collected:		12/17/08	12/17/08	12/17/08	12/17/08
Location ID:	Units	KRT3-4	KRT15-1	KRT15-1	KRT15-1
Grain Size Analysis					
Gravel	%	39 1	3 8	16 1	9 1
Coarse Sand	%	16 7	4 5	6 7	14 3
Medium Sand	%	21 3	27 2	27 3	32 8
Fine Sand	%	20 1	38 1	39 4	36 5
Silt	%	3 2	12 3	6 9	5 5
Clay	%	-0 4	14	3 7	1 9
75000	% passing	100	100	100	100
50000	% passing	100	100	100	100
37500	% passing	100	100	100	100
25000	% passing	100	100	100	100
19000	% passing	100	100	86 7	100
9500	% passing	85 2	100	86 7	100
4750	*% passing*	*60 9*	*96 2*	*83 9*	*90 9*
2000	% passing	44 2	91 6	77 2	76 7
850	% passing	35 9	82 6	68 8	62 6
425	% passing	22 9	64 4	49 9	43 9
250	% passing	7 5	40 8	22 4	16 2
180	% passing	4 1	32 8	14 2	10 2
150	% passing	3 4	30 5	12 9	9
75	% passing	2 8	26 3	10 5	7 3
Hydrometer Reading 1	% passing (size, um)	0 4 (38)	23 7 (35)	7 9 (35)	4 3 (37)
Hydrometer Reading 2	% passing (size, um)	0 4 (24)	22 3 (22)	6 8 (23)	4 3 (23)
Hydrometer Reading 3	% passing (size, um)	0 4 (13 8)	19 5 (13)	5 8 (13 2)	3 1 (13 5)
Hydrometer Reading 4	% passing (size, um)	0 (9 8)	16 7 (9 1)	4 2 (9 4)	2 5 (9 6)
Hydrometer Reading 5	% passing (size, um)	-0 4 (6 8)	14 (6 8)	3 7 (6 9)	1 9 (6 7)
Hydrometer Reading 6	% passing (size, um)	-0 4 (3 5)	9 8 (3 4)	2 1 (3 3)	1 2 (3 4)
Hydrometer Reading 7	% passing (size, um)	-0 4 (1 4)	8 4 (1 4)	1 (1 4)	0 6 (1 4)

Notes:
Data received in February 2009
Duplicate results are in brackets
NA - Not analyzed

Table J — Non-PCB Results for Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56226	K56227	K56228	K56229	K56230	K56231	K56232	K56234	K56235	K56236	K56237
Sample Depth(in):		0 - 2	2 - 6	6 - 12	12 - 24	24 - 36	36 - 39	0 - 2	2 - 6	6 - 12	12 - 24	24 - 36
Date Collected:		01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09
Location ID:	Units	KRT12-8	KRT12-8	KRT12-8	KRT12-8	KRT12-8	KRT12-8	KRT5-3	KRT5-3	KRT5-3	KRT5-3	KRT5-3
Percent Solids	%	57 2	56 7	61 2	51 3	50 8	41 5	75 1 [79 7]	59 1	45 8	53 1	44 4 [41]
Volatile Organics												
2-Butanone	ug/kg	39	55 J	36 J	75	87 J	160 J	11 U	110 J	40	47	130 [96]
Acetone	ug/kg	99	170 J	100 J	230	220 J	420 J	11 UB	280 J	120	120	310 [240]
Benzene	ug/kg	R	8 3 U	7 6 U	9 3 U	9 3 U	16 U	5 5 U	3 2 J	8 5 U	8 6 U	5 7 J [15 U]
Carbon Disulfide	ug/kg	9 2 U	8 3 U	7 6 U	9 3 U	9 3 U	16 U	5 5 U	3 7 J	8 5 U	8 6 U	13 J [9 3 J]
Cyclohexane	ug/kg	R	8 3 U	7 6 U	9 3 U	9 3 U	16 U	5 5 U	13 J	8 5 U	8 6 U	R [15 U]
m,p-Xylene	ug/kg	R	8 3 U	7 6 U	9 3 U	9 3 U	16 U	5 5 U	R	8 5 U	8 6 U	5 9 J [15 U]
Toluene	ug/kg	3 4 J	8 3 U	7 6 U	5 7 J	3 6 J	16 U	5 5 U	5 9 J	4 J	5 4 J	11 J [6 4 J]
Semivolatile Organics												
1,1'-Biphenyl	ug/kg	300 U	300 U	280 U	330 U	330 UJ	830 UJ	230 U	290 U	43 J	71 J	770 UJ [830 UJ]
2,4-Dimethylphenol	ug/kg	300 U	300 U	280 U	330 U	330 U	830 U	230 U	290 U	370 U	320 U	770 U [830 U]
2-Methylnaphthalene	ug/kg	300 U	31 J	30 J	70 J	100 J	830 U	230 U	35 J	91 J	140 J	210 J [180 J]
2-Methylphenol	ug/kg	300 U	300 U	280 U	330 U	330 U	830 U	230 U	290 U	370 U	33 J	100 J [830 U]
4-Methylphenol	ug/kg	300 U	300 U	280 U	38 J	62 J	100 J	230 U	290 U	82 J	87 J	770 U [830 U]
Acenaphthene	ug/kg	300 U	62 J	57 J	110 J	400 J	330 J	50 J	130 J	380	490 J	770 UJ [290 J]
Acenaphthylene	ug/kg	300 U	51 J	210 J	170 J	460 J	450 J	230 U	35 J	70 J	110 J	770 UJ [830 UJ]
Anthracene	ug/kg	62 J	210 J	220 J	360 J	2200 J	1200 J	130 J	350	890	900 J	130 J [280 J]
Benzaldehyde	ug/kg	75 J	77 J	51 J	150 J	200 J	290 J	230 U	290 U	220 J	180 J	770 U [830 U]
Benzo(a)anthracene	ug/kg	360 J	740	1100	1000 J	3400	3200 J	670	1600	3800	3300	740 J [1200 J]
Benzo(a)pyrene	ug/kg	410	770	1300	1200	3500 D	3400	730	2100	4500	3600	780 [1200]
Benzo(b)fluoranthene	ug/kg	430	640	980	1400	3700 D	3600	750	2600	3900 D	2700 D	950 [1400]
Benzo(g,h,i)perylene	ug/kg	130 J	95 J	140 J	160 J	480 J	370 J	210 J	310 J	520 J	400 J	140 J [240 J]
Benzo(k)fluoranthene	ug/kg	360	920	1100	1100	3200 D	3000	690	2100	4800 D	4000	620 J [1300]
bis(2-Ethylhexyl)phthalate	ug/kg	300 UB	300 UB	280 U	330 U	330 U	830 U	430	480	1800	1400	3100 J [3200 J]
Butylbenzylphthalate	ug/kg	300 UJ	300 U	280 U	330 U	330 U	830 U	230 UB	290 UB	370 UB	320 UB	770 UJ [830 UJ]
Carbazole	ug/kg	40 J	88 J	65 J	88 J	180 J	830 UJ	73 J	210 J	540	540 J	110 J [190 J]
Chrysene	ug/kg	510 J	890	1300	1300 J	3700	4300 J	910	2400	5500	4200	1100 J [1800 J]
Dibenzo(a,h)anthracene	ug/kg	33 J	51 J	63 J	63 J	160 J	140 J	86 J	120 J	180 J	160 J	770 UJ [82 J]
Dibenzofuran	ug/kg	300 U	46 J	280 U	51 J	130 J	830 UJ	25 J	75 J	230 J	390 J	770 UJ [150 J]
Dimethylphthalate	ug/kg	300 U	300 U	280 U	330 U	330 UJ	830 UJ	56 J	86 J	250 J	320 UJ	770 UJ [830 UJ]
Di-n-Butylphthalate	ug/kg	30 J	300 U	280 U	330 UJ	330 UJ	830 UJ	230 U	37 J	43 J	63 J	770 U [830 U]
Di-n-Octylphthalate	ug/kg	300 U	300 U	280 U	330 U	330 UJ	830 U	230 U	140 J	370 U	320 U	770 U [830 U]
Fluoranthene	ug/kg	620	1300	1100	2200 J	7700 DJ	7400 J	1600	4500 D	11000 D	7800 D	1300 [2400]
Fluorene	ug/kg	300 U	86 J	72 J	160 J	700 J	320 J	59 J	180 J	600	750 J	770 UJ [300 J]
Indeno(1,2,3-cd)pyrene	ug/kg	140 J	110 J	140 J	150 J	430 J	360 J	240 J	370 J	590 J	450 J	150 J [240 J]
Naphthalene	ug/kg	300 U	41 J	32 J	130 J	180 J	180 J	230 U	55 J	170 J	410	93 J [140 J]
Phenanthrene	ug/kg	370	850	600	990 J	5100 DJ	3700 J	830	2500	5500 D	5200 D	880 [2000]
Phenol	ug/kg	300 U	300 U	280 U	330 U	330 U	830 U	230 U	290 U	370 U	94 J	78 J [830 U]
Pyrene	ug/kg	820 J	1200	1400	1300 J	4800 D	4900 J	2200	4800 DJ	9700 D	6300 D	1400 J [2500 J]

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Table J — Non-PCB Results for Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56226	K56227	K56228	K56229	K56230	K56231	K56232	K56234	K56235	K56236	K56237
Sample Depth(in):		0 - 2	2 - 6	6 - 12	12 - 24	24 - 36	36 - 39	0 - 2	2 - 6	6 - 12	12 - 24	24 - 36
Date Collected:		01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09
Location ID:	Units	KRT12-8	KRT12-8	KRT12-8	KRT12-8	KRT12-8	KRT12-8	KRT5-3	KRT5-3	KRT5-3	KRT5-3	KRT5-3
Pesticides												
4,4'-DDD	ug/kg	5 8 U	5 8 U	5 4 U	6 5 U	6 5 U	8 U	2 4 J	5 6 U	12	22	130 J [RX]
4,4'-DDE	ug/kg	5 8 U	5 8 U	5 4 U	6 5 U	6 5 U	8 U	3 J	6 2 JN	15	26	120 [110]
4,4'-DDT	ug/kg	7 7 JN	5 7 J	5 4 U	6 5 U	6 5 U	8 U	3 J	8 3 J	9 3	18 J	3000 DJ [110 JN]
Alpha-BHC	ug/kg	3 U	3 U	2 8 U	3 3 U	3 3 U	4 1 U	2 3 U	2 9 U	3 7 U	3 2 U	5 8 J [5 2 J]
Alpha-Chlordane	ug/kg	1 6 J	1 6 J	2 8 U	3 3 U	3 3 U	4 1 U	1 4 J	2 4 J	7 2 J	8 4 J	12 U [8 3 U]
Beta-BHC	ug/kg	3 U	3 U	2 8 U	3 3 U	3 3 U	4 1 U	RX	RX	3 7 U	RX	RX [RX]
Delta-BHC	ug/kg	3 U	3 U	2 8 U	3 3 U	3 3 U	4 1 U	2 3 U	2 9 U	3 7 U	89 DJ	1200 D [1100 D]
Dieldrin	ug/kg	5 8 U	5 8 U	5 4 U	6 5 U	6 5 U	8 U	4 4 U	5 6 U	7 2 U	6 2 U	63 JN [58 JN]
Endosulfan I	ug/kg	3 U	1 6 J	2 8 U	3 3 U	3 3 U	4 1 U	2 3 U	2 9 U	4 1	5 6 JN	44 J [40 J]
Endosulfan Sulfate	ug/kg	5 8 U	5 8 U	5 4 U	6 5 U	6 5 U	8 U	4 4 U	5 6 U	7 2 U	4 5 J	22 U [16 U]
Endrin	ug/kg	5 8 U	5 8 U	5 4 U	6 5 U	6 5 U	8 U	4 4 U	5 6 U	7 2 U	6 2 U	36 J [34 J]
Endrin Aldehyde	ug/kg	5 8 U	5 8 U	5 4 U	6 5 U	6 5 U	8 U	4 4 U	5 6 U	8 9 J	6 2 U	22 U [16 U]
Endrin Ketone	ug/kg	5 8 U	5 8 J	3 3 J	6 5 U	6 5 U	8 U	2 5 J	4 7 J	7 8	11 J	38 JN [40 J]
Gamma-BHC (Lindane)	ug/kg	3 U	3 U	2 8 U	3 3 U	3 3 U	4 1 U	2 3 U	2 9 U	2 4 J	26 JN	RX [110 J]
Gamma-Chlordane	ug/kg	3 U	3 U	2 8 U	3 3 U	3 3 U	4 1 U	2 3 U	2 9 U	3 7 U	RX	120 J [RX]
Heptachlor	ug/kg	3 U	3 U	2 8 U	3 3 U	3 3 U	4 1 U	2 3 U	2 3 J	R	21 J	150 J [140 DJ]
Heptachlor Epoxide	ug/kg	3 U	3 U	2 8 U	3 3 U	3 3 U	4 1 U	2 3 U	RX	3 7 U	RX	RX [70 RX]
Inorganics												
Aluminum	mg/kg	4030	8560	7120	10300	9420	15800	1440	2460	3440	2820	12400 [13100]
Antimony	mg/kg	0 98 J	3 1 J	2 1 J	2 4 J	2 2 J	3 9 J	7 8 UJ	0 66 J	1 7 J	1 1 J	0 67 J [0 77 J]
Arsenic	mg/kg	6 2	11 3	11 4	11 8	12 1	20 6	3 3	8 8	12 5	7 3	13 7 [14 4]
Barium	mg/kg	143	378	407	403	552	652	31 3	66 7	101	63 8	180 [178]
Beryllium	mg/kg	0 25 J	0 56 J	0 47 J	0 38 J	0 34 J	0 62 J	0 12 J	0 15 J	0 22 J	0 17 J	0 58 J [0 57 J]
Cadmium	mg/kg	1 5	4 9	4 9	3 9	3 2	5 6	0 23 J	0 57 J	0 96 J	0 86	3 3 [3 4]
Calcium	mg/kg	35700	33400	29000	42300	43700	42500	20400	38700	41900	18800	13500 [12700]
Chromium	mg/kg	46 6 J	131 J	72 3 J	73 1 J	66 1 J	112 J	9 6 J	22 2 J	31 6 J	32 9 J	146 [159]
Cobalt	mg/kg	3 8 J	7 5 J	6 2 J	7 8 J	6 J	7 8 J	1 9 J	2 9 J	4 2 J	4 2 J	6 6 J [6 6 J]
Copper	mg/kg	50 8	161	148	204	214	381	9 2	30 5	49 5	41	189 [199]
Iron	mg/kg	11500	13900	13500	15200	14900	23600	6430	10300	13500	9000	14200 [14700]
Lead	mg/kg	129	596	488	531	439	745	28 2	65 4	147	156	541 J [615 J]
Magnesium	mg/kg	6280	7240	6140	8560	5540	7020	4040	4830	5840	3360	4030 [4040]
Manganese	mg/kg	324	285	340	321	317	437	269	458	537	269	243 [248]
Mercury	mg/kg	0 39	1 2	1 3	2 5	2 3	6 3	0 028 J	0 17	0 3	0 41	4 [2 6]
Nickel	mg/kg	14 4	31 1	16 5	19 4	18 6	26 4	4 4 J	8 6	13 8	12 8	22 3 [25 5]
Potassium	mg/kg	360 J	478 J	422 J	670 J	573 J	1170	168 J	234 J	346 J	195 J	446 J [381 J]
Selenium	mg/kg	5 8 U	0 69 J	1 4 J	1 J	1 1 J	1 5 J	4 5 U	5 5 U	7 3 U	4 7 U	1 1 J [1 4 J]
Silver	mg/kg	0 71 J	2 1 J	1 7 J	2 6 J	2 7 J	5 5 J	1 3 UJ	1 6 UJ	2 1 UJ	0 24 J	2 9 [3 1]
Sodium	mg/kg	126 J	167 J	210 J	165 J	155 J	195 J	72 6 J	103 J	138 J	98 J	203 J [211 J]
Thallium	mg/kg	4 2 U	4 3 U	3 8 U	4 8 U	4 8 U	5 7 U	3 2 U	4 U	5 2 U	3 4 U	5 2 U [4 9 U]
Vanadium	mg/kg	11 3	17 7	14 5	18 6	15 3	24 4	6 7	8 2	11 2	6 9	20 7 [21 5]
Zinc	mg/kg	169	450	486	441	425	667	49 7	116	217	146	538 [593]

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Table J — Non-PCB Results for Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56226	K56227	K56228	K56229	K56230	K56231	K56232	K56234	K56235	K56236	K56237
Sample Depth(in):		0 - 2	2 - 6	6 - 12	12 - 24	24 - 36	36 - 39	0 - 2	2 - 6	6 - 12	12 - 24	24 - 36
Date Collected:		01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09
Location ID:	Units	KRT12-8	KRT12-8	KRT12-8	KRT12-8	KRT12-8	KRT12-8	KRT5-3	KRT5-3	KRT5-3	KRT5-3	KRT5-3
AVS/SEM												
Cadmium	umole/g	0 0098 J	NA	NA	NA	NA	NA	0 014 UB [0 013 UB]	NA	NA	NA	NA
Copper	umole/g	0 42	NA	NA	NA	NA	NA	0 063 J [0 087 J]	NA	NA	NA	NA
Lead	umole/g	0 54 J	NA	NA	NA	NA	NA	0 14 J [0 13 J]	NA	NA	NA	NA
Mercury	umole/g	R	NA	NA	NA	NA	NA	R [R]	NA	NA	NA	NA
Nickel	umole/g	0 1 J	NA	NA	NA	NA	NA	0 031 J [0 017 J]	NA	NA	NA	NA
Silver	umole/g	0 0047 J	NA	NA	NA	NA	NA	0 03 UJ [0 028 UJ]	NA	NA	NA	NA
Zinc	umole/g	1 8 J	NA	NA	NA	NA	NA	0 5 J [0 5 J]	NA	NA	NA	NA
Acid Volatile Sulfide	umole/g	10	NA	NA	NA	NA	NA	0 64 U [0 61 U]	NA	NA	NA	NA
Ratio of SEM*/AVS	none	0 29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table J — Non-PCB Results for Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56239	K56240	K56241	K56242	K56243	K56244	K56245	K56246	K56247	K56248	K56249
Sample Depth(in):		36 - 39	0 - 2	2 - 6	6 - 12	12 - 24	24 - 36	36 - 48	48 - 60	0 - 2	2 - 6	6 - 12
Date Collected:		01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09
Location ID:	Units	KRT5-3	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT16-8	KRT16-8	KRT16-8
Percent Solids	%	80 1	51 8	61 8	39 1	40 8	73 3	79 8	88 3	37	41 7	63 8
Volatile Organics												
2-Butanone	ug/kg	28 J	36 J	43 J	79	95 J	22	24 J	12	160	95 J	56 J
Acetone	ug/kg	69 J	99 J	110	180	280 J	32	52	17	470	260 J	160
Benzene	ug/kg	5 7 U	6 8 U	2 9 J	17 U	15 U	5 8 U	2 J	5 2 U	3 2 J	R	R
Carbon Disulfide	ug/kg	2 6 J	6 8 U	3 4 J	13 J	13 J	5 J	8 2	6	4 5 J	10 J	5 6 J
Cyclohexane	ug/kg	5 7 U	6 8 U	R	17 U	15 U	5 8 U	5 3 U	5 2 U	R	R	R
m,p-Xylene	ug/kg	5 7 U	6 8 U	4 J	7 2 J	15 U	5 8 U	5 3 U	5 2 U	R	R	R
Toluene	ug/kg	2 1 J	2 9 J	5 5 J	12 J	9 J	2 7 J	4 J	2 1 J	3 9 J	7 9 J	3 3 J
Semivolatile Organics												
1,1'-Biphenyl	ug/kg	210 U	330 U	270 UJ	870 UJ	830 U	230 UJ	66 J	62 J	460 U	410 U	270 U
2,4-Dimethylphenol	ug/kg	210 U	330 U	270 U	870 U	800 J	230 U	210 U	190 U	460 U	410 U	270 U
2-Methylnaphthalene	ug/kg	30 J	37 J	69 J	350 J	150 J	41 J	160 J	150 J	460 U	410 U	32 J
2-Methylphenol	ug/kg	24 J	330 U	89 J	110 J	830 U	230 U	210 U	190 U	460 U	410 U	270 U
4-Methylphenol	ug/kg	210 U	380	69 J	130 J	120 J	230 U	23 J	20 J	460 U	410 U	270 U
Acenaphthene	ug/kg	170 J	140 J	140 J	220 J	160 J	94 J	280	250	460 U	410 U	270 U
Acenaphthylene	ug/kg	210 U	59 J	60 J	870 UJ	830 U	230 UJ	47 J	41 J	460 U	410 U	93 J
Anthracene	ug/kg	320	330	280	310 J	340 J	130 J	410	380	460 U	57 J	110 J
Benzaldehyde	ug/kg	210 U	330 U	270 U	870 U	830 U	230 U	210 U	190 U	170 J	46 J	35 J
Benzo(a)anthracene	ug/kg	820 J	1500	1200 J	1200 J	1000 J	470	960 J	780 J	230 J	190 J	350 J
Benzo(a)pyrene	ug/kg	790	1700	1300	1300	910	500	850 J	870 J	280 J	200 J	430 J
Benzo(b)fluoranthene	ug/kg	830	1800	1300	1600	1200	520	540 J	910 J	380 J	270 J	420 J
Benzo(g,h,i)perylene	ug/kg	180 J	390 J	260 J	270 J	190 J	81 J	270 J	260 J	61 J	47 J	61 J
Benzo(k)fluoranthene	ug/kg	390	2100	1500	1100	760 J	420	1000 J	730 J	430 J	200 J	460 J
bis(2-Ethylhexyl)phthalate	ug/kg	210 UBJ	370	1100 J	1900 J	950 J	230 UJ	210 UBJ	190 UBJ	460 UB	410 UBJ	270 U
Butylbenzylphthalate	ug/kg	210 UJ	330 UB	630 J	870 UJ	830 UJ	230 U	210 UJ	190 UJ	460 U	410 UJ	270 U
Carbazole	ug/kg	160 J	200 J	190 J	160 J	160 J	72 J	260	250	460 U	410 UJ	32 J
Chrysene	ug/kg	980 J	2200	1800 J	1800 J	1500 J	690 J	1300 J	1000 J	410 J	300 J	500 J
Dibenzo(a,h)anthracene	ug/kg	89 J	140 J	80 J	870 UJ	830 UJ	27 J	120 J	120 J	460 U	410 UJ	270 UJ
Dibenzofuran	ug/kg	76 J	67 J	76 J	870 UJ	94 J	48 J	210 J	210	460 U	410 U	270 U
Dimethylphthalate	ug/kg	210 U	330 U	270 U	870 UJ	830 U	230 UJ	210 U	190 U	460 U	410 U	270 U
Di-n-Butylphthalate	ug/kg	50 J	330 U	270 U	870 U	830 UJ	230 U	210 U	190 U	460 U	170 J	270 UJ
Di-n-Octylphthalate	ug/kg	210 U	330 U	270 U	870 U	830 U	230 UJ	210 UJ	190 UJ	460 U	410 U	270 UJ
Fluoranthene	ug/kg	2500	4500	3400	2500	2700 J	1400	2400	2200	680	350 J	690 J
Fluorene	ug/kg	180 J	160 J	190 J	270 J	190 J	79 J	290	250	460 U	410 U	38 J
Indeno(1,2,3-cd)pyrene	ug/kg	200 J	430 J	240 J	220 J	150 J	79 J	270 J	270 J	61 J	410 UJ	50 J
Naphthalene	ug/kg	43 J	51 J	85 J	220 J	150 J	80 J	490	450	460 U	410 U	33 J
Phenanthrene	ug/kg	1700	2300	1700	1500	1400 J	750 J	3000	2500	210 J	190 J	290 J
Phenol	ug/kg	210 U	330 U	270 U	100 J	830 UJ	230 U	210 U	190 U	460 U	410 U	270 U
Pyrene	ug/kg	1800 J	3500	2500 J	2100 J	1600 J	770	2000 J	2000 J	510	210 J	400 J

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Table J — Non-PCB Results for Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56239	K56240	K56241	K56242	K56243	K56244	K56245	K56246	K56247	K56248	K56249
Sample Depth(in):		36 - 39	0 - 2	2 - 6	6 - 12	12 - 24	24 - 36	36 - 48	48 - 60	0 - 2	2 - 6	6 - 12
Date Collected:		01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09
Location ID:	Units	KRT5-3	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT16-8	KRT16-8	KRT16-8
Pesticides												
4,4'-DDD	ug/kg	26 JN	8 3	RX	220	190 D	4 5 U	4 1 U	3 7 U	RX	43 J	5 2 U
4,4'-DDE	ug/kg	25	8	25	75	87 J	4 5 U	4 1 U	3 7 U	RX	25 JN	7 1
4,4'-DDT	ug/kg	28 JN	6 J	42	180 J	130 J	4 J	4 1 U	6 4 JN	45 JN	46 JN	7 8
Alpha-BHC	ug/kg	2 1 U	3 3 U	2 7 U	8 7 U	7 2	1 7 J	2 1 U	1 9 U	4 6 U	4 U	2 7 U
Alpha-Chlordane	ug/kg	5 5 JN	3 9 J	11	38	20	2 3 U	2 1 U	1 9 U	5 2 JN	5 5 J	1 4 J
Beta-BHC	ug/kg	RX	11 J	RX	RX	RX	2 6 JN	2 1 U	1 9 U	4 6 U	RX	5 1
Delta-BHC	ug/kg	230 D	3 3 U	220 D	630 D	200 D	2 3 U	2 1 U	1 9 U	10 JN	17 J	2 7 U
Dieldrin	ug/kg	13 JN	6 4 U	16 JN	60 JN	35 JN	4 5 U	4 1 U	3 7 U	13 JN	13 JN	5 2 U
Endosulfan I	ug/kg	8 9 J	3 2 J	11	44	27 JN	2 3 U	2 1 U	1 9 U	RX	7 4 JN	2 7 J
Endosulfan Sulfate	ug/kg	4 1 U	6 4 U	5 3 U	17 U	4 1 J	4 5 U	4 1 U	3 7 U	8 9 U	7 8 U	5 2 U
Endrin	ug/kg	11	6 4 U	13 J	46 J	34 J	4 5 U	4 1 U	3 7 U	9 7 J	8 1 JN	5 2 U
Endrin Aldehyde	ug/kg	4 1 U	6 4 U	RX	RX	RX	4 5 U	4 1 U	3 7 U	8 9 U	RX	5 2 U
Endrin Ketone	ug/kg	9 J	5 J	9 9 JN	17 U	28 J	8 9	4 1 U	3 4 J	12 JN	19 J	6 3
Gamma-BHC (Lindane)	ug/kg	RX	3 3 U	RX	RX	RX	2 3 U	2 1 U	1 9 U	4 6 U	4 U	2 7 U
Gamma-Chlordane	ug/kg	RX	3 3 U	30 J	110 J	120 DJN	2 3 U	2 1 U	1 9 U	RX	RX	2 7 U
Heptachlor	ug/kg	26	3 3 JN	33	40 JN	44 JN	2 5	2 1 U	1 9 U	4 6 U	5 4 JN	2 3 J
Heptachlor Epoxide	ug/kg	19 DJ	3 3 U	RX	RX	RX	2 3 U	2 1 U	1 9 U	RX	RX	2 7 U
Inorganics												
Aluminum	mg/kg	3610	2740	5170	11100	10400	2950	2680	3200	2990	17600	9080
Antimony	mg/kg	7 4 UJ	11 5 UJ	0 79 J	1 8 J	2 2 J	7 7 UJ	1 2 J	6 7 UJ	1 J	1 3 J	1 1 J
Arsenic	mg/kg	5 3	8 5	6 7	15 3	19 6	4 2	3 9	3 8	6	16 3	10
Barium	mg/kg	36 4	75	152	566	763	170	41 3	33 1	120	1030	408
Beryllium	mg/kg	0 15 J	0 17 J	0 47 J	0 72 J	0 81 J	0 14 J	0 13 J	0 08 J	0 18 J	1 2	0 66
Cadmium	mg/kg	0 56 J	0 71 J	1 8	6 8	8 3	7 9	1 7	0 45 J	0 9 J	8 9	5 8
Calcium	mg/kg	32300	41100	32700	18900	24000	73900	44000	37900	18000	12300	17700
Chromium	mg/kg	19 2	27 8 J	56 6	194	269	36 6	25	33 3	47 9 J	401	168
Cobalt	mg/kg	4 1 J	3 2 J	4 3 J	10 1 J	48 3 J	4 1 J	3 2 J	2 2 J	2 2 J	14 4 J	10 3 J
Copper	mg/kg	23 4	25 9	91 4	281	404	82 8	34 3	16	49 4	504	210
Iron	mg/kg	14200	12000	10100	15500	15000	6220	7060	5940	7810	16900	11500
Lead	mg/kg	55 6 J	69 9	270 J	723 J	1040 J	290 J	142 J	292 J	111	1080 J	588 J
Magnesium	mg/kg	6570	5520	6400	5190	4080	10900	9470	6230	2000	5140	5600
Manganese	mg/kg	168	647	341	180	190	146	156	124	212	305	217
Mercury	mg/kg	0 4	0 29	0 82	3 3	5 2	0 81	0 21	0 11	1 5	4	1 1
Nickel	mg/kg	10 7	9 9	22 6	39 2	115	18 2	14 2	8 3	12	99 1	50 2
Potassium	mg/kg	298 J	295 J	437 J	606 J	421 J	193 J	222 J	159 J	235 J	627 J	453 J
Selenium	mg/kg	4 3 U	6 7 U	0 59 J	1 2 J	1 9 J	0 54 J	4 1 U	3 9 U	9 5 U	2 2 J	1 1 J
Silver	mg/kg	1 8	0 37 J	0 82 J	3 7	10 7	1 1 J	0 4 J	1 1 U	0 79 J	5 8	3 1
Sodium	mg/kg	89 J	141 J	227 J	285 J	394 J	135 J	146 J	199 J	147 J	309 J	213 J
Thallium	mg/kg	3 1 U	4 8 U	3 5 U	5 6 U	5 9 U	3 2 U	2 9 U	2 8 U	6 8 U	5 4 U	3 2 U
Vanadium	mg/kg	15 1	9 J	11	22 9	20 5	7 4	7 8	7 6	5 8 J	28 8	17 6
Zinc	mg/kg	61 7	128	217	639	775	158	86 8	56 4	129	875	458

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Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #26, April 2009

Table J — Non-PCB Results for Sediment Cores Collected in Kalamazoo River - Data Received in February 2009

Sample Name:		K56239	K56240	K56241	K56242	K56243	K56244	K56245	K56246	K56247	K56248	K56249
Sample Depth(in):		36 - 39	0 - 2	2 - 6	6 - 12	12 - 24	24 - 36	36 - 48	48 - 60	0 - 2	2 - 6	6 - 12
Date Collected:		01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09	01/07/09
Location ID:	Units	KRT5-3	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT4-2	KRT16-8	KRT16-8	KRT16-8
AVS/SEM												
Cadmium	umole/g	NA	0 0068 J	NA	NA	NA	NA	NA	NA	0 011 J	NA	NA
Copper	umole/g	NA	0 19	NA	NA	NA	NA	NA	NA	0 14 J	NA	NA
Lead	umole/g	NA	0 82 J	NA	NA	NA	NA	NA	NA	0 46 J	NA	NA
Mercury	umole/g	NA	R	NA	NA	NA	NA	NA	NA	R	NA	NA
Nickel	umole/g	NA	0 24 J	NA	NA	NA	NA	NA	NA	0 13 J	NA	NA
Silver	umole/g	NA	0 043 UJ	NA	NA	NA	NA	NA	NA	0 058 UJ	NA	NA
Zinc	umole/g	NA	2 3 J	NA	NA	NA	NA	NA	NA	2 4 J	NA	NA
Acid Volatile Sulfide	umole/g	NA	17 2 J	NA	NA	NA	NA	NA	NA	46 5	NA	NA
Ratio of SEM*/AVS	none	NA	0 21	NA	NA	NA	NA	NA	NA	0 067	NA	NA

Notes:
Only detected compounds are shown
Data received in February 2009
Duplicate results are in brackets
NA - Not analyzed
D - Concentration is based on a diluted sample analysis
J - The compound was positively identified, however, the associated numerical value is an estimated concentration only
JN - The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification The associated numerical value is an estimated concentration only
R - The sample results are rejected
U - The compound was analyzed for but not detected The associated value is the compound quantitation limit
UB - Analyte considered non-detect at the listed value due to associated blank contamination
UJ - The compound was not detected above the reported sample quantitation limit However, the reported limit is approximate and may or may not represent the actual limit of quantitation
X - In the case where the sample results between dissimilar columns exhibit a percent difference greater than 200% and matrix interference is present, the sample results will be qualified as rejected This rejection of the data are suspected to be matrix related due to either an un-identifiable non-target compound, or the presence of high concentration of PCBs and not a laboratory quality issue

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #25, March 2009

Table K — Results for Upstream/Downstream Surface Water — Plainwell TCRA — Samples Collected in January 2009

Sample I.D.: Location ID: Sample Date:	Units	K31097 01/22/09 Farmer St.	K31098 01/22/09 10th St.	K31099 01/24/09 Farmer St.	K31100 01/24/09 10th St.	K31101 01/26/09 Farmer St.	K31102 01/26/09 10th St.	K31103 01/28/09 Farmer St.	K31104 01/28/09 10th St.	K31105 01/30/09 Farmer St.	K31106 01/30/09 10th St.
PCB Aroclors											
Aroclor-1016	µg/L	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U
Aroclor-1221	µg/L	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U
Aroclor-1232	µg/L	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U
Aroclor-1242	µg/L	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U
Aroclor-1248	µg/L	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U
Aroclor-1254	µg/L	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0.047 U	0 047 U	0 047 U	0 047 U
Aroclor-1260	µg/L	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U
Total PCBs	µg/L	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U	0 047 U
Miscellaneous											
Total Suspended Solids	mg/L	4 3	2 3	1 8	1 6	3 2	2	2 4	1 9	3	2

Notes:
U - The compound was analyzed for but not detected The associated value is the compound quantitation limit
Data received in February 2009