

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of streambed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
A1	06-13-01	42° 27' 21.94"	085° 40' 00.94"	0	54.84	--	700.9	698.4	698.4	0.0
A1	06-13-01	42° 27' 21.97"	085° 40' 01.29"	26	54.84	--	700.9	695.0	695.0	.0
A1	06-13-01	42° 27' 21.99"	085° 40' 01.59"	50	54.84	--	700.9	691.0	690.0	1.0
A1	06-13-01	42° 27' 22.01"	085° 40' 01.86"	70	54.84	--	700.9	691.5	690.5	1.0
A1	06-13-01	42° 27' 22.03"	085° 40' 02.17"	93	54.84	--	700.9	691.5	690.5	1.0
A1	06-13-01	42° 27' 22.04"	085° 40' 02.50"	118	54.84	--	700.9	692.5	691.5	1.0
A1	06-13-01	42° 27' 22.07"	085° 40' 02.80"	140	54.84	--	700.9	693.5	692.5	1.0
A1	06-13-01	42° 27' 22.09"	085° 40' 03.14"	166	54.84	--	700.9	695.0	694.0	1.0
A1	06-13-01	42° 27' 22.12"	085° 40' 03.48"	191	54.84	--	700.9	695.0	694.0	1.0
A1	06-13-01	42° 27' 22.13"	085° 40' 03.80"	216	54.84	--	700.9	696.0	694.0	2.0
A1	06-13-01	42° 27' 22.15"	085° 40' 04.15"	242	54.84	--	700.9	698.0	696.0	2.0
A1	06-13-01	42° 27' 22.18"	085° 40' 04.39"	260	54.84	--	700.9	699.0	696.0	3.0
A1	06-13-01	42° 27' 22.19"	085° 40' 04.61"	277	54.84	--	700.9	699.5	698.5	1.0
A1	06-13-01	42° 27' 22.20"	085° 40' 04.85"	295	54.84	--	700.9	700.0	698.5	1.5
A2	06-13-01	42° 27' 23.22"	085° 40' 00.22"	0	54.80	--	700.9	700.2	700.2	.0
A2	06-13-01	42° 27' 23.29"	085° 40' 00.65"	33	54.80	--	700.9	698.0	698.0	.0
A2	06-13-01	42° 27' 23.36"	085° 40' 01.02"	62	54.80	--	700.9	697.5	697.5	.0
A2	06-13-01	42° 27' 23.41"	085° 40' 01.37"	89	54.80	--	700.9	698.0	697.0	1.0
A2	06-13-01	42° 27' 23.48"	085° 40' 01.80"	122	54.80	--	700.9	698.0	698.0	.0
A2	06-13-01	42° 27' 23.55"	085° 40' 02.17"	151	54.80	--	700.9	699.0	698.5	.5
A2	06-13-01	42° 27' 23.61"	085° 40' 02.55"	180	54.80	--	700.9	700.0	699.5	.5
A2	06-13-01	42° 27' 23.68"	085° 40' 02.99"	214	54.80	--	700.9	699.5	699.2	.3
A2	06-13-01	42° 27' 23.75"	085° 40' 03.40"	246	54.80	--	700.9	700.0	700.0	.0
A2	06-13-01	42° 27' 23.81"	085° 40' 03.81"	276	54.80	--	700.9	700.2	700.2	.0
A2	06-13-01	42° 27' 23.94"	085° 40' 04.54"	333	54.80	--	700.9	700.0	699.7	.3
A2	06-13-01	42° 27' 24.00"	085° 40' 04.88"	359	54.80	--	700.9	699.0	699.0	.0
A2	06-13-01	42° 27' 24.08"	085° 40' 05.28"	390	54.80	--	700.9	699.5	699.5	.0
A2	06-13-01	42° 27' 24.12"	085° 40' 05.65"	419	54.80	--	700.9	697.5	697.5	.0
A3	05-22-01	42° 27' 22.70"	085° 40' 05.88"	0	54.83	0.00	700.9	699.4	698.1	1.3
A3	05-22-01	42° 27' 22.69"	085° 40' 06.08"	15	54.83	.00	700.9	698.4	697.5	.9
A3	05-22-01	42° 27' 22.69"	085° 40' 06.29"	30	54.83	.00	700.9	697.9	697.7	.2
A3	05-22-01	42° 27' 22.69"	085° 40' 06.48"	45	54.83	.00	700.9	698.0	697.7	.3
A3	05-22-01	42° 27' 22.69"	085° 40' 06.68"	60	54.83	.00	700.9	697.7	697.6	.1
A3	05-22-01	42° 27' 22.68"	085° 40' 06.88"	75	54.83	.00	700.9	697.4	697.4	.0

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of streambed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
A3	05-22-01	42° 27' 22.68"	085° 40' 07.09"	90	54.83	0.00	700.9	696.6	696.5	0.1
A3	05-22-01	42° 27' 22.68"	085° 40' 07.29"	105	54.83	.00	700.9	696.8	696.6	.2
A3	05-22-01	42° 27' 22.67"	085° 40' 07.49"	120	54.83	.00	700.9	697.3	696.7	.6
A3	05-22-01	42° 27' 22.67"	085° 40' 07.75"	140	54.83	.00	700.9	699.1	698.6	.5
A4	05-22-01	42° 27' 24.32"	085° 40' 06.23"	0	54.78	.00	700.9	698.9	698.9	.0
A4	05-22-01	42° 27' 24.32"	085° 40' 06.31"	10	54.78	.00	700.9	698.7	698.3	.4
A4	05-22-01	42° 27' 24.32"	085° 40' 06.45"	20	54.78	.00	700.9	698.4	697.5	.9
A4	05-22-01	42° 27' 24.32"	085° 40' 06.58"	30	54.78	.00	700.9	698.1	697.2	.9
A4	05-22-01	42° 27' 24.32"	085° 40' 06.71"	40	54.78	.00	700.9	698.0	697.1	.9
A4	05-22-01	42° 27' 24.32"	085° 40' 06.85"	50	54.78	.00	700.9	698.0	697.1	.9
A4	05-22-01	42° 27' 24.32"	085° 40' 06.98"	60	54.78	.00	700.9	697.9	696.7	1.2
A4	05-22-01	42° 27' 24.31"	085° 40' 07.11"	70	54.78	.00	700.9	697.7	696.4	1.3
A4	05-22-01	42° 27' 24.31"	085° 40' 07.25"	80	54.78	.00	700.9	696.9	696.4	.5
A4	05-22-01	42° 27' 24.31"	085° 40' 07.38"	90	54.78	.00	700.9	696.9	696.1	.8
A4	05-22-01	42° 27' 24.31"	085° 40' 07.51"	100	54.78	.00	700.9	696.4	696.4	.0
A4	05-22-01	42° 27' 24.31"	085° 40' 07.65"	110	54.78	.00	700.9	697.8	697.4	.4
A4	05-22-01	42° 27' 24.31"	085° 40' 07.78"	120	54.78	.00	700.9	699.7	699.1	.6
A5	06-11-01	42° 27' 27.29"	085° 40' 05.61"	0	54.73	.00	698.9	698.1	696.1	2.0
A5	06-11-01	42° 27' 27.30"	085° 40' 05.72"	10	54.73	2.45	698.9	698.1	698.1	.0
A5	06-11-01	42° 27' 27.31"	085° 40' 05.85"	20	54.73	3.74	698.9	698.3	698.3	.0
A5	06-11-01	42° 27' 27.31"	085° 40' 05.97"	30	54.73	3.28	698.9	698.1	698.1	.0
A5	06-11-01	42° 27' 27.32"	085° 40' 06.11"	40	54.73	3.32	698.9	697.5	697.5	.0
A5	06-11-01	42° 27' 27.33"	085° 40' 06.23"	50	54.73	3.89	698.9	697.9	697.9	.0
A5	06-11-01	42° 27' 27.34"	085° 40' 06.36"	60	54.73	3.12	698.9	697.2	697.2	.0
A5	06-11-01	42° 27' 27.35"	085° 40' 06.50"	70	54.73	3.95	698.9	696.4	696.4	.0
A5	06-11-01	42° 27' 27.35"	085° 40' 06.64"	80	54.73	4.04	698.9	695.4	695.4	.0
A5	06-11-01	42° 27' 27.36"	085° 40' 06.76"	90	54.73	3.82	698.9	693.6	693.6	.0
A5	06-11-01	42° 27' 27.37"	085° 40' 06.90"	100	54.73	3.50	698.9	691.9	691.9	.0
A5	06-11-01	42° 27' 27.38"	085° 40' 07.03"	110	54.73	2.28	698.9	691.1	691.1	.0
A5	06-11-01	42° 27' 27.38"	085° 40' 07.16"	120	54.73	2.25	698.9	691.6	691.6	.0
A5	06-11-01	42° 27' 27.39"	085° 40' 07.30"	130	54.73	3.36	698.9	693.4	693.4	.0
A5	06-11-01	42° 27' 27.40"	085° 40' 07.43"	140	54.73	1.73	698.9	694.8	694.8	.0
A5	06-11-01	42° 27' 27.41"	085° 40' 07.56"	150	54.73	.81	698.9	696.1	696.1	.0
A5	06-11-01	42° 27' 27.42"	085° 40' 07.67"	160	54.73	.00	698.9	698.6	698.6	.0

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of stream-bed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
A6	05-15-01	42° 27' 29.31"	085° 40' 05.52"	0	54.68	0.66	698.5	697.8	697.8	0.0
A6	05-15-01	42° 27' 29.31"	085° 40' 05.64"	10	54.68	2.16	698.5	696.6	696.6	.0
A6	05-15-01	42° 27' 29.30"	085° 40' 05.80"	20	54.68	2.44	698.5	696.6	696.6	.0
A6	05-15-01	42° 27' 29.30"	085° 40' 05.92"	30	54.68	3.79	698.5	695.6	695.6	.0
A6	05-15-01	42° 27' 29.30"	085° 40' 06.04"	40	54.68	5.12	698.5	694.6	694.6	.0
A6	05-15-01	42° 27' 29.30"	085° 40' 06.19"	50	54.68	5.58	698.5	693.6	693.6	.0
A6	05-15-01	42° 27' 29.30"	085° 40' 06.31"	60	54.68	6.13	698.5	693.6	693.6	.0
A6	05-15-01	42° 27' 29.30"	085° 40' 06.46"	70	54.68	6.45	698.5	694.1	694.1	.0
A6	05-15-01	42° 27' 29.30"	085° 40' 06.71"	90	54.68	3.76	698.5	695.6	695.6	.0
A6	05-15-01	42° 27' 29.30"	085° 40' 06.92"	105	54.68	.00	698.5	698.5	698.5	.0
A7	05-15-01	42° 27' 31.16"	085° 40' 04.64"	0	54.65	.00	698.2	697.5	694.5	3.0
A7	05-15-01	42° 27' 31.19"	085° 40' 04.76"	10	54.65	.45	698.2	696.3	694.8	1.5
A7	05-15-01	42° 27' 31.22"	085° 40' 04.90"	20	54.65	.90	698.2	695.5	695.0	.5
A7	05-15-01	42° 27' 31.25"	085° 40' 05.03"	30	54.65	2.73	698.2	695.3	695.3	.0
A7	05-15-01	42° 27' 31.28"	085° 40' 05.14"	40	54.65	3.82	698.2	695.3	695.3	.0
A7	05-15-01	42° 27' 31.31"	085° 40' 05.27"	50	54.65	5.10	698.2	695.3	695.3	.0
A7	05-15-01	42° 27' 31.34"	085° 40' 05.39"	60	54.65	5.27	698.2	695.3	695.3	.0
A7	05-15-01	42° 27' 31.38"	085° 40' 05.51"	70	54.65	6.08	698.2	695.3	695.3	.0
A7	05-15-01	42° 27' 31.41"	085° 40' 05.66"	80	54.65	5.89	698.2	695.3	695.3	.0
A7	05-15-01	42° 27' 31.45"	085° 40' 05.83"	95	54.65	5.23	698.2	695.3	695.3	.0
A7	05-15-01	42° 27' 31.50"	085° 40' 06.02"	110	54.65	4.64	698.2	695.3	695.3	.0
A7	05-15-01	42° 27' 31.55"	085° 40' 06.21"	125	54.65	3.57	698.2	695.8	695.8	.0
A7	05-15-01	42° 27' 31.58"	085° 40' 06.33"	135	54.65	1.76	698.2	695.8	695.8	.0
A7	05-15-01	42° 27' 31.60"	085° 40' 06.41"	140	54.65	1.16	698.2	696.3	696.0	.3
A7	05-15-01	42° 27' 31.65"	085° 40' 06.65"	160	54.65	.00	698.2	697.3	694.8	2.5
A8	05-15-01	42° 27' 33.66"	085° 40' 04.23"	0	54.61	3.30	697.8	695.5	695.5	.0
A8	05-15-01	42° 27' 33.68"	085° 40' 04.36"	10	54.61	4.04	697.8	695.5	695.5	.0
A8	05-15-01	42° 27' 33.70"	085° 40' 04.49"	20	54.61	3.70	697.8	695.5	695.5	.0
A8	05-15-01	42° 27' 33.71"	085° 40' 04.60"	30	54.61	4.00	697.8	695.5	695.5	.0
A8	05-15-01	42° 27' 33.72"	085° 40' 04.76"	40	54.61	3.90	697.8	695.5	695.5	.0
A8	05-15-01	42° 27' 33.74"	085° 40' 04.89"	50	54.61	3.80	697.8	695.5	695.5	.0
A8	05-15-01	42° 27' 33.75"	085° 40' 05.01"	60	54.61	3.88	697.8	695.0	695.0	.0
A8	05-15-01	42° 27' 33.76"	085° 40' 05.15"	70	54.61	4.31	697.8	695.0	695.0	.0
A8	05-15-01	42° 27' 33.78"	085° 40' 05.28"	80	54.61	3.76	697.8	694.5	694.5	.0
A8	05-15-01	42° 27' 33.79"	085° 40' 05.42"	90	54.61	4.00	697.8	695.0	695.0	.0

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of streambed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
A8	05-15-01	42° 27' 33.80"	085° 40' 05.55"	100	54.61	3.69	697.8	696.0	696.0	0.0
A8	05-15-01	42° 27' 33.82"	085° 40' 05.68"	110	54.61	3.30	697.8	695.3	695.3	.0
A8	05-15-01	42° 27' 33.83"	085° 40' 05.83"	120	54.61	2.37	697.8	696.9	696.9	.0
A8	05-15-01	42° 27' 33.86"	085° 40' 05.95"	130	54.61	.64	697.8	696.8	696.2	.6
A8	05-15-01	42° 27' 33.86"	085° 40' 06.10"	140	54.61	.00	697.8	697.5	696.5	1.0
A9	05-15-01	42° 27' 37.03"	085° 40' 02.83"	0	54.54	.00	697.8	696.5	696.0	.5
A9	05-15-01	42° 27' 37.03"	085° 40' 02.96"	10	54.54	.00	697.8	695.0	694.0	1.0
A9	05-15-01	42° 27' 37.02"	085° 40' 03.08"	20	54.54	.50	697.8	694.0	693.5	.5
A9	05-15-01	42° 27' 37.02"	085° 40' 03.21"	30	54.54	1.64	697.8	694.0	693.5	.5
A9	05-15-01	42° 27' 37.02"	085° 40' 03.36"	40	54.54	2.15	697.8	694.0	692.0	2.0
A9	05-15-01	42° 27' 37.02"	085° 40' 03.50"	50	54.54	1.81	697.8	693.0	692.0	1.0
A9	05-15-01	42° 27' 37.02"	085° 40' 03.63"	60	54.54	2.70	697.8	692.0	692.0	.0
A9	05-15-01	42° 27' 37.01"	085° 40' 03.75"	70	54.54	3.50	697.8	692.5	692.5	.0
A9	05-15-01	42° 27' 37.01"	085° 40' 03.88"	80	54.54	3.91	697.8	692.5	692.5	.0
A9	05-15-01	42° 27' 37.01"	085° 40' 04.00"	90	54.54	3.87	697.8	693.0	693.0	.0
A9	05-15-01	42° 27' 37.01"	085° 40' 04.16"	100	54.54	2.44	697.8	694.0	694.0	.0
A9	05-15-01	42° 27' 37.03"	085° 40' 04.22"	105	54.54	1.22	697.8	696.0	695.5	.5
A10	05-15-01	42° 27' 40.41"	085° 40' 05.66"	0	54.46	.24	697.7	693.4	693.4	.0
A10	05-15-01	42° 27' 40.35"	085° 40' 05.77"	10	54.46	3.00	697.7	691.9	691.9	.0
A10	05-15-01	42° 27' 40.29"	085° 40' 05.87"	20	54.46	4.03	697.7	691.9	691.9	.0
A10	05-15-01	42° 27' 40.24"	085° 40' 05.96"	30	54.46	3.50	697.7	691.9	691.9	.0
A10	05-15-01	42° 27' 40.16"	085° 40' 06.08"	40	54.46	3.85	697.7	691.9	691.9	.0
A10	05-15-01	42° 27' 40.11"	085° 40' 06.19"	50	54.46	3.77	697.7	692.4	692.4	.0
A10	05-15-01	42° 27' 40.05"	085° 40' 06.28"	60	54.46	3.52	697.7	692.9	692.9	.0
A10	05-15-01	42° 27' 39.99"	085° 40' 06.39"	70	54.46	3.62	697.7	693.4	693.4	.0
A10	05-15-01	42° 27' 39.92"	085° 40' 06.49"	80	54.46	2.70	697.7	694.9	694.9	.0
A10	05-15-01	42° 27' 39.87"	085° 40' 06.60"	90	54.46	1.61	697.7	694.9	694.4	.5
A10	05-15-01	42° 27' 39.81"	085° 40' 06.70"	100	54.46	.80	697.7	695.9	695.4	.5
A10	05-15-01	42° 27' 39.74"	085° 40' 06.81"	110	54.46	.00	697.7	697.4	695.4	2.0
A11	05-14-01	42° 27' 42.29"	085° 40' 08.41"	0	54.41	.00	697.7	693.5	693.5	.0
A11	05-14-01	42° 27' 42.24"	085° 40' 08.45"	7	54.41	.00	697.7	693.5	693.5	.0
A11	05-14-01	42° 27' 42.18"	085° 40' 08.50"	14	54.41	.00	697.7	692.0	692.0	.0
A11	05-14-01	42° 27' 42.12"	085° 40' 08.55"	21	54.41	.32	697.7	690.5	690.5	.0
A11	05-14-01	42° 27' 42.05"	085° 40' 08.60"	28	54.41	.96	697.7	689.0	689.0	.0

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of stream-bed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
A11	05-14-01	42° 27' 41.99"	085° 40' 08.66"	35	54.41	1.87	697.7	687.5	687.5	0.0
A11	05-14-01	42° 27' 41.94"	085° 40' 08.69"	42	54.41	2.66	697.7	689.5	689.5	.0
A11	05-14-01	42° 27' 41.88"	085° 40' 08.75"	49	54.41	3.35	697.7	691.0	691.0	.0
A11	05-14-01	42° 27' 41.82"	085° 40' 08.80"	56	54.41	3.05	697.7	691.5	691.5	.0
A11	05-14-01	42° 27' 41.76"	085° 40' 08.85"	63	54.41	2.72	697.7	692.2	692.2	.0
A11	05-14-01	42° 27' 41.70"	085° 40' 08.89"	70	54.41	2.53	697.7	693.0	693.0	.0
A11	05-14-01	42° 27' 41.64"	085° 40' 08.94"	77	54.41	2.41	697.7	693.5	693.5	.0
A11	05-14-01	42° 27' 41.58"	085° 40' 08.99"	84	54.41	1.06	697.7	695.0	691.0	4.0
A11	05-14-01	42° 27' 41.52"	085° 40' 09.03"	91	54.41	.36	697.7	695.0	693.0	2.0
A11	05-14-01	42° 27' 41.44"	085° 40' 09.11"	100	54.41	.00	697.7	697.0	694.2	2.8
A12	05-14-01	42° 27' 42.64"	085° 40' 14.85"	0	54.33	.00	697.4	693.7	690.7	3.0
A12	05-14-01	42° 27' 42.56"	085° 40' 14.82"	10	54.33	.39	697.4	692.2	690.7	1.5
A12	05-14-01	42° 27' 42.49"	085° 40' 14.79"	20	54.33	.48	697.4	691.2	690.7	.5
A12	05-14-01	42° 27' 42.40"	085° 40' 14.75"	30	54.33	.68	697.4	691.7	691.0	.8
A12	05-14-01	42° 27' 42.30"	085° 40' 14.72"	40	54.33	1.71	697.4	691.7	691.2	.5
A12	05-14-01	42° 27' 42.21"	085° 40' 14.68"	50	54.33	2.19	697.4	691.7	691.7	.0
A12	05-14-01	42° 27' 42.10"	085° 40' 14.65"	60	54.33	2.39	697.4	692.2	692.2	.0
A12	05-14-01	42° 27' 41.99"	085° 40' 14.61"	70	54.33	2.69	697.4	693.7	693.7	.0
A12	05-14-01	42° 27' 41.89"	085° 40' 14.57"	80	54.33	2.54	697.4	694.7	694.7	.0
A12	05-14-01	42° 27' 41.80"	085° 40' 14.54"	90	54.33	1.98	697.4	695.2	690.2	5.0
A12	05-14-01	42° 27' 41.71"	085° 40' 14.49"	100	54.33	1.49	697.4	694.1	690.2	3.9
A12	05-14-01	42° 27' 41.62"	085° 40' 14.47"	110	54.33	1.99	697.4	695.1	690.2	4.9
A12	05-14-01	42° 27' 41.52"	085° 40' 14.42"	120	54.33	1.63	697.4	694.8	690.2	4.6
A12	05-14-01	42° 27' 41.42"	085° 40' 14.40"	130	54.33	1.36	697.4	694.2	689.2	5.0
A12	05-14-01	42° 27' 41.33"	085° 40' 14.35"	140	54.33	.00	697.4	696.5	690.1	6.4
A13	05-14-01	42° 27' 39.23"	085° 40' 17.71"	0	54.26	1.92	697.1	694.4	690.6	3.8
A13	05-14-01	42° 27' 39.23"	085° 40' 17.60"	7	54.26	1.06	697.1	691.4	690.4	1.0
A13	05-14-01	42° 27' 39.23"	085° 40' 17.51"	14	54.26	3.00	697.1	690.4	690.4	.0
A13	05-14-01	42° 27' 39.23"	085° 40' 17.42"	21	54.26	2.86	697.1	690.9	690.9	.0
A13	05-14-01	42° 27' 39.23"	085° 40' 17.32"	28	54.26	2.74	697.1	691.4	691.4	.0
A13	05-14-01	42° 27' 39.24"	085° 40' 17.23"	35	54.26	2.66	697.1	692.4	692.4	.0
A13	05-14-01	42° 27' 39.24"	085° 40' 17.14"	42	54.26	2.54	697.1	692.9	692.9	.0
A13	05-14-01	42° 27' 39.24"	085° 40' 17.04"	49	54.26	2.60	697.1	693.8	693.8	.0
A13	05-14-01	42° 27' 39.24"	085° 40' 16.95"	56	54.26	2.21	697.1	694.9	693.9	1.0
A13	05-14-01	42° 27' 39.24"	085° 40' 16.86"	63	54.26	2.29	697.1	694.5	693.9	.6

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of stream-bed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
A13	05-14-01	42° 27' 39.24"	085° 40' 16.78"	70	54.26	2.14	697.1	694.5	689.4	5.1
A13	05-14-01	42° 27' 39.25"	085° 40' 16.68"	77	54.26	1.25	697.1	694.6	689.2	5.4
A13	05-14-01	42° 27' 39.25"	085° 40' 16.58"	84	54.26	.88	697.1	695.6	689.4	6.2
A13	05-14-01	42° 27' 39.25"	085° 40' 16.48"	91	54.26	.00	697.1	696.4	689.2	7.2
A13	05-14-01	42° 27' 39.25"	085° 40' 16.39"	98	54.26	.00	697.1	696.4	689.4	7.0
A13	05-14-01	42° 27' 39.25"	085° 40' 16.26"	110	54.26	.00	697.1	696.4	688.6	7.8
B1	05-16-01	42° 27' 39.22"	085° 40' 16.11"	0	54.25	.00	697.1	697.1	686.9	10.2
B1	05-16-01	42° 27' 39.12"	085° 40' 16.11"	10	54.25	.00	697.1	696.4	687.4	9.0
B1	05-16-01	42° 27' 39.03"	085° 40' 16.09"	20	54.25	.83	697.1	693.9	686.9	7.0
B1	05-16-01	42° 27' 38.93"	085° 40' 16.08"	30	54.25	1.77	697.1	693.1	686.8	6.3
B1	05-16-01	42° 27' 38.83"	085° 40' 16.08"	40	54.25	1.96	697.1	693.9	686.8	7.1
B1	05-16-01	42° 27' 38.73"	085° 40' 16.06"	50	54.25	1.95	697.1	694.4	686.4	8.0
B1	05-16-01	42° 27' 38.63"	085° 40' 16.04"	60	54.25	2.00	697.1	694.9	685.7	9.2
B1	05-16-01	42° 27' 38.53"	085° 40' 16.04"	70	54.25	1.84	697.1	695.6	684.4	11.2
B1	05-16-01	42° 27' 38.43"	085° 40' 16.03"	80	54.25	1.78	697.1	695.9	686.4	9.5
B1	05-16-01	42° 27' 38.33"	085° 40' 16.01"	90	54.25	1.45	697.1	696.3	687.7	8.6
B1	05-16-01	42° 27' 38.23"	085° 40' 16.01"	100	54.25	.00	697.1	696.9	687.4	9.5
B2	05-16-01	42° 27' 38.82"	085° 40' 10.27"	0	54.45	.00	697.3	697.3	692.5	4.8
B2	05-16-01	42° 27' 38.68"	085° 40' 10.32"	15	54.45	3.41	697.3	695.2	692.7	2.5
B2	05-16-01	42° 27' 38.58"	085° 40' 10.36"	25	54.45	2.27	697.3	694.2	692.7	1.5
B2	05-16-01	42° 27' 38.48"	085° 40' 10.40"	35	54.45	2.94	697.3	694.2	692.9	1.3
B2	05-16-01	42° 27' 38.38"	085° 40' 10.44"	45	54.45	1.74	697.3	695.7	693.2	2.5
B2	05-16-01	42° 27' 38.29"	085° 40' 10.46"	55	54.45	1.10	697.3	696.7	691.7	5.0
B2	05-16-01	42° 27' 38.14"	085° 40' 10.51"	70	54.45	.00	697.3	697.2	692.2	5.0
B3	05-17-01	42° 27' 36.29"	085° 40' 08.95"	0	54.56	.67	697.5	695.9	693.9	2.0
B3	05-17-01	42° 27' 36.29"	085° 40' 09.07"	10	54.56	2.71	697.5	693.9	693.9	.0
B3	05-17-01	42° 27' 36.29"	085° 40' 09.20"	20	54.56	2.45	697.5	693.9	693.9	.0
B3	05-17-01	42° 27' 36.28"	085° 40' 09.35"	30	54.56	2.66	697.5	694.1	694.1	.0
B3	05-17-01	42° 27' 36.28"	085° 40' 09.48"	40	54.56	1.43	697.5	694.3	693.3	1.0
B3	05-17-01	42° 27' 36.28"	085° 40' 09.62"	50	54.56	.00	697.5	697.5	692.5	5.0
B4	05-17-01	42° 27' 34.74"	085° 40' 07.86"	0	54.60	.00	697.6	697.6	693.1	4.5
B4	05-17-01	42° 27' 34.68"	085° 40' 07.98"	10	54.60	.18	697.6	695.7	694.0	1.7
B4	05-17-01	42° 27' 34.63"	085° 40' 08.08"	20	54.60	1.76	697.6	694.8	694.2	.6

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of streambed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
B4	05-17-01	42° 27' 34.57"	085° 40' 08.21"	30	54.60	2.69	697.6	694.2	694.2	0.0
B4	05-17-01	42° 27' 34.52"	085° 40' 08.31"	40	54.60	3.01	697.6	694.0	693.0	1.0
B4	05-17-01	42° 27' 34.46"	085° 40' 08.42"	50	54.60	1.58	697.6	694.2	692.5	1.7
B4	05-17-01	42° 27' 34.41"	085° 40' 08.52"	60	54.60	.75	697.6	697.6	695.6	2.0
B5	05-17-01	42° 27' 34.77"	085° 40' 07.05"	0	54.60	1.17	697.7	694.5	693.3	1.2
B5	05-17-01	42° 27' 34.67"	085° 40' 07.06"	10	54.60	2.34	697.7	695.3	693.8	1.5
B5	05-17-01	42° 27' 34.56"	085° 40' 07.06"	20	54.60	1.81	697.7	695.3	694.8	.5
B5	05-17-01	42° 27' 34.44"	085° 40' 07.06"	30	54.60	1.01	697.7	694.8	694.8	.0
B5	05-17-01	42° 27' 34.36"	085° 40' 07.06"	40	54.60	1.53	697.7	694.3	694.1	.2
B5	05-17-01	42° 27' 34.27"	085° 40' 07.05"	50	54.60	.78	697.7	694.8	694.1	.7
B6	05-17-01	42° 27' 34.03"	085° 40' 07.98"	0	54.61	.00	697.6	697.6	697.1	.5
B6	05-17-01	42° 27' 34.10"	085° 40' 08.08"	10	54.61	.72	697.6	696.6	694.4	2.2
B6	05-17-01	42° 27' 34.16"	085° 40' 08.17"	20	54.61	.88	697.6	695.3	694.6	.7
B6	05-17-01	42° 27' 34.22"	085° 40' 08.28"	30	54.61	.58	697.6	695.7	695.7	.0
B6	05-17-01	42° 27' 34.29"	085° 40' 08.39"	40	54.61	.00	697.6	696.2	695.2	1.0
B7	05-17-01	42° 27' 32.12"	085° 40' 06.65"	0	54.65	.00	698.0	698.0	698.0	.0
B7	05-17-01	42° 27' 32.03"	085° 40' 06.63"	8	54.65	.30	698.0	695.5	695.3	.2
B7	05-17-01	42° 27' 31.91"	085° 40' 06.60"	18	54.65	.82	698.0	695.6	695.6	.0
B7	05-17-01	42° 27' 31.81"	085° 40' 06.59"	28	54.65	.98	698.0	695.6	694.6	1.0
B7	05-17-01	42° 27' 31.71"	085° 40' 06.57"	38	54.65	.00	698.0	697.4	694.8	2.6
C1	06-11-01	42° 27' 24.59"	085° 40' 00.62"	0	54.83	1.68	700.6	699.8	699.8	.0
C1	06-11-01	42° 27' 24.60"	085° 40' 00.69"	5	54.83	3.53	700.6	699.8	699.8	.0
C1	06-11-01	42° 27' 24.61"	085° 40' 00.75"	10	54.83	3.31	700.6	699.7	699.7	.0
C1	06-11-01	42° 27' 24.62"	085° 40' 00.82"	15	54.83	3.90	700.6	699.4	699.4	.0
C1	06-11-01	42° 27' 24.64"	085° 40' 00.89"	20	54.83	3.79	700.6	699.6	699.6	.0
C1	06-11-01	42° 27' 24.65"	085° 40' 00.94"	25	54.83	3.72	700.6	700.0	700.0	.0
C1	06-11-01	42° 27' 24.66"	085° 40' 01.00"	30	54.83	1.86	700.6	700.1	700.1	.0
C2	05-16-01	42° 27' 28.84"	085° 40' 01.23"	0	54.69	.00	698.7	698.7	698.7	.0
C2	05-16-01	42° 27' 28.84"	085° 40' 01.38"	10	54.69	1.43	698.7	696.3	696.3	.0
C2	05-16-01	42° 27' 28.82"	085° 40' 01.51"	20	54.69	.73	698.7	696.9	696.5	.4
C2	05-16-01	42° 27' 28.81"	085° 40' 01.66"	30	54.69	1.09	698.7	696.9	696.8	.1
C2	05-16-01	42° 27' 28.80"	085° 40' 01.79"	40	54.69	2.02	698.7	696.8	696.8	.0
C2	05-16-01	42° 27' 28.78"	085° 40' 01.96"	55	54.69	1.79	698.7	697.2	697.2	.0

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of streambed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
C3	05-16-01	42° 27' 28.66"	085° 40' 03.24"	0	54.69	0.00	698.6	698.4	696.7	1.7
C3	05-16-01	42° 27' 28.63"	085° 40' 03.53"	20	54.69	.00	698.6	696.7	696.0	.7
C3	05-16-01	42° 27' 28.61"	085° 40' 03.80"	40	54.69	.00	698.6	697.4	697.0	.4
C3	05-16-01	42° 27' 28.59"	085° 40' 04.00"	55	54.69	.00	698.6	698.6	696.9	1.7
C4	05-16-01	42° 27' 30.09"	085° 40' 02.00"	0	54.67	.00	698.6	698.6	698.6	.0
C4	05-16-01	42° 27' 30.09"	085° 40' 02.06"	5	54.67	.36	698.6	698.0	697.1	.9
C4	05-16-01	42° 27' 30.08"	085° 40' 02.19"	15	54.67	1.41	698.6	696.9	696.9	.0
C4	05-16-01	42° 27' 30.06"	085° 40' 02.39"	30	54.67	1.43	698.6	696.7	696.7	.0
C4	05-16-01	42° 27' 30.05"	085° 40' 02.59"	45	54.67	.88	698.6	695.7	694.2	1.5
C4	05-16-01	42° 27' 30.03"	085° 40' 02.87"	65	54.67	.00	698.6	697.2	697.2	.0
C4	05-16-01	42° 27' 30.02"	085° 40' 03.07"	80	54.67	.00	698.6	696.7	695.4	1.3
C4	05-16-01	42° 27' 30.00"	085° 40' 03.27"	95	54.67	.00	698.6	697.2	695.8	1.4
C4	05-16-01	42° 27' 29.99"	085° 40' 03.47"	110	54.67	.00	698.6	697.7	695.4	2.3
C4	05-16-01	42° 27' 29.98"	085° 40' 03.52"	115	54.67	.00	698.6	698.6	698.6	.0
C5	05-16-01	42° 27' 32.79"	085° 40' 02.37"	0	54.62	.00	697.9	697.9	697.9	.0
C5	05-16-01	42° 27' 32.79"	085° 40' 02.41"	3	54.62	.00	697.9	697.9	694.4	3.5
C5	05-16-01	42° 27' 32.78"	085° 40' 02.61"	18	54.62	1.34	697.9	695.6	694.5	1.1
C5	05-16-01	42° 27' 32.78"	085° 40' 02.79"	33	54.62	1.36	697.9	695.3	694.0	1.3
C5	05-16-01	42° 27' 32.78"	085° 40' 02.99"	48	54.62	.78	697.9	694.9	694.7	.2
C5	05-16-01	42° 27' 32.78"	085° 40' 03.19"	63	54.62	.29	697.9	695.7	694.7	1.0
C5	05-16-01	42° 27' 32.78"	085° 40' 03.31"	71	54.62	.00	697.9	696.5	695.5	1.0
C6	05-15-01	42° 27' 33.41"	085° 40' 03.75"	0	54.62	.00	697.9	697.6	697.1	.5
C6	05-15-01	42° 27' 33.31"	085° 40' 03.68"	7	54.62	.65	697.9	696.8	695.3	1.5
C6	05-15-01	42° 27' 33.22"	085° 40' 03.63"	17	54.62	1.29	697.9	696.1	695.1	1.0
C6	05-15-01	42° 27' 33.13"	085° 40' 03.57"	27	54.62	1.86	697.9	695.5	694.9	.6
C6	05-15-01	42° 27' 33.05"	085° 40' 03.52"	37	54.62	2.31	697.9	695.3	695.3	.0
C6	05-15-01	42° 27' 32.96"	085° 40' 03.46"	47	54.62	1.94	697.9	695.1	695.1	.0
C6	05-15-01	42° 27' 32.87"	085° 40' 03.40"	57	54.62	1.89	697.9	695.3	695.3	.0
C6	05-15-01	42° 27' 32.78"	085° 40' 03.34"	67	54.62	.00	697.9	696.1	696.1	.0
C7	05-15-01	42° 27' 34.53"	085° 40' 01.09"	0	54.57	1.74	697.9	696.6	695.6	1.0
C7	05-15-01	42° 27' 34.56"	085° 40' 01.23"	10	54.57	1.52	697.9	695.9	695.3	.6
C7	05-15-01	42° 27' 34.60"	085° 40' 01.43"	25	54.57	3.24	697.9	695.4	695.1	.3
C7	05-15-01	42° 27' 34.63"	085° 40' 01.62"	40	54.57	3.12	697.9	695.4	695.1	.3
C7	05-15-01	42° 27' 34.66"	085° 40' 01.79"	55	54.57	2.50	697.9	697.6	696.6	1.0

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of streambed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
C7	05-15-01	42° 27' 34.68"	085° 40' 01.86"	59	54.57	0.00	697.9	697.9	696.4	1.5
C7	05-15-01	42° 27' 34.72"	085° 40' 02.07"	76	54.57	.00	697.9	697.9	696.9	1.0
C7	05-15-01	42° 27' 34.74"	085° 40' 02.19"	85	54.57	1.20	697.9	697.5	697.1	.4
C7	05-15-01	42° 27' 34.78"	085° 40' 02.38"	100	54.57	1.18	697.9	697.6	697.1	.5
C8	05-15-01	42° 27' 35.62"	085° 40' 02.85"	0	54.57	.00	697.8	697.8	693.8	4.0
C8	05-15-01	42° 27' 35.48"	085° 40' 02.90"	14	54.57	.00	697.8	697.8	694.0	3.8
C8	05-15-01	42° 27' 35.40"	085° 40' 02.94"	24	54.57	.91	697.8	697.3	693.7	3.6
C8	05-15-01	42° 27' 35.30"	085° 40' 02.98"	34	54.57	.00	697.8	697.8	692.8	5.0
C9	05-15-01	42° 27' 37.31"	085° 40' 02.05"	0	54.54	.00	697.8	696.0	693.7	2.3
C9	05-15-01	42° 27' 37.27"	085° 40' 02.17"	10	54.54	1.68	697.8	693.5	692.0	1.5
C9	05-15-01	42° 27' 37.23"	085° 40' 02.29"	20	54.54	2.35	697.8	693.5	692.2	1.3
C9	05-15-01	42° 27' 37.18"	085° 40' 02.40"	30	54.54	2.24	697.8	695.5	692.7	2.8
C9	05-15-01	42° 27' 37.14"	085° 40' 02.52"	40	54.54	2.56	697.8	695.5	695.2	.3
C9	05-15-01	42° 27' 37.10"	085° 40' 02.63"	50	54.54	1.92	697.8	696.0	695.5	.5
C9	05-15-01	42° 27' 37.05"	085° 40' 02.78"	60	54.54	.00	697.8	697.8	695.8	2.0
C10	05-22-01	42° 27' 40.05"	085° 40' 04.23"	0	54.48	.89	697.8	696.4	693.9	2.5
C10	05-22-01	42° 27' 40.10"	085° 40' 04.35"	10	54.48	1.03	697.8	696.2	694.2	2.0
C10	05-22-01	42° 27' 40.16"	085° 40' 04.45"	20	54.48	1.62	697.8	694.9	693.4	1.5
C10	05-22-01	42° 27' 40.21"	085° 40' 04.56"	30	54.48	1.48	697.8	693.9	693.4	.5
C10	05-22-01	42° 27' 40.26"	085° 40' 04.67"	40	54.48	1.86	697.8	693.6	693.6	.0
C10	05-22-01	42° 27' 40.29"	085° 40' 04.75"	45	54.48	.00	697.8	693.8	693.2	.6
C11	05-22-01	42° 27' 43.62"	085° 40' 03.45"	0	54.44	1.67	697.8	697.2	690.9	6.3
C11	05-22-01	42° 27' 43.66"	085° 40' 03.58"	10	54.44	2.75	697.8	694.9	690.9	4.0
C11	05-22-01	42° 27' 43.71"	085° 40' 03.69"	20	54.44	1.81	697.8	694.9	691.7	3.2
C11	05-22-01	42° 27' 43.75"	085° 40' 03.81"	30	54.44	1.94	697.8	694.6	692.4	2.2
C11	05-22-01	42° 27' 43.80"	085° 40' 03.93"	40	54.44	1.22	697.8	696.2	693.2	3.0
C11	05-22-01	42° 27' 43.82"	085° 40' 04.00"	45	54.44	.00	697.8	697.4	693.3	4.1
C12	05-22-01	42° 27' 45.41"	085° 40' 03.32"	0	54.43	1.61	697.7	695.2	690.1	5.1
C12	05-22-01	42° 27' 45.37"	085° 40' 03.43"	10	54.43	1.86	697.7	694.1	690.7	3.4
C12	05-22-01	42° 27' 45.32"	085° 40' 03.55"	20	54.43	1.80	697.7	694.8	690.1	4.7
C12	05-22-01	42° 27' 45.27"	085° 40' 03.67"	30	54.43	2.23	697.7	694.8	690.5	4.3
C12	05-22-01	42° 27' 45.22"	085° 40' 03.77"	40	54.43	1.33	697.7	695.5	689.9	5.6
C12	05-22-01	42° 27' 45.17"	085° 40' 03.89"	50	54.43	.00	697.7	697.1	690.3	6.8

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of stream-bed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
C13	05-22-01	42° 27' 47.03"	085° 40' 06.08"	0	54.42	0.00	697.7	695.8	690.7	5.1
C13	05-22-01	42° 27' 47.07"	085° 40' 05.87"	15	54.42	.21	697.7	695.5	691.1	4.4
C13	05-22-01	42° 27' 47.10"	085° 40' 05.67"	30	54.42	.67	697.7	696.1	691.8	4.3
C13	05-22-01	42° 27' 47.13"	085° 40' 05.47"	45	54.42	1.17	697.7	696.1	686.8	9.3
C13	05-22-01	42° 27' 47.16"	085° 40' 05.28"	60	54.42	1.96	697.7	696.5	691.7	4.8
C13	05-22-01	42° 27' 47.19"	085° 40' 05.09"	75	54.42	2.09	697.7	695.8	690.1	5.7
C13	05-22-01	42° 27' 47.21"	085° 40' 04.90"	90	54.42	2.07	697.7	694.7	689.8	4.9
C13	05-22-01	42° 27' 47.24"	085° 40' 04.70"	105	54.42	.89	697.7	695.4	688.2	7.2
D1	05-21-01	42° 27' 47.81"	085° 40' 10.78"	0	54.38	.00	697.6	696.7	690.6	6.1
D1	05-21-01	42° 27' 47.84"	085° 40' 10.89"	8	54.38	2.28	697.6	696.0	694.4	1.6
D1	05-21-01	42° 27' 47.86"	085° 40' 10.98"	15	54.38	2.38	697.6	696.2	690.6	5.6
D1	05-21-01	42° 27' 47.88"	085° 40' 11.06"	22	54.38	2.34	697.6	696.4	691.2	5.2
D1	05-21-01	42° 27' 47.90"	085° 40' 11.15"	29	54.38	1.15	697.6	696.8	691.5	5.3
D1	05-21-01	42° 27' 47.92"	085° 40' 11.24"	35	54.38	.00	697.6	697.2	691.6	5.6
D2	05-21-01	42° 27' 45.43"	085° 40' 09.49"	0	54.39	1.15	697.6	697.0	693.5	3.5
D2	05-21-01	42° 27' 45.38"	085° 40' 09.59"	10	54.39	2.25	697.6	696.4	693.5	2.9
D2	05-21-01	42° 27' 45.33"	085° 40' 09.71"	20	54.39	1.87	697.6	696.2	693.2	3.0
D2	05-21-01	42° 27' 45.27"	085° 40' 09.83"	30	54.39	.62	697.6	696.9	692.3	4.6
D2	05-21-01	42° 27' 45.22"	085° 40' 09.94"	40	54.39	.00	697.6	697.3	688.4	8.9
D3	05-22-01	42° 27' 43.74"	085° 40' 07.64"	0	54.41	.00	697.7	696.8	691.2	5.6
D3	05-22-01	42° 27' 43.70"	085° 40' 07.69"	4	54.41	2.18	697.7	696.5	691.5	5.0
D3	05-22-01	42° 27' 43.63"	085° 40' 07.80"	14	54.41	1.90	697.7	696.4	692.3	4.1
D3	05-22-01	42° 27' 43.56"	085° 40' 07.87"	24	54.41	1.33	697.7	696.6	693.6	3.0
D3	05-22-01	42° 27' 43.50"	085° 40' 07.94"	32	54.41	.00	697.7	697.5	694.3	3.2
D4	05-22-01	42° 27' 41.74"	085° 40' 06.93"	0	54.43	.00	697.7	697.4	691.4	6.0
D4	05-22-01	42° 27' 41.80"	085° 40' 07.02"	9	54.43	.49	697.7	696.7	691.7	5.0
D4	05-22-01	42° 27' 41.85"	085° 40' 07.13"	19	54.43	1.57	697.7	696.2	691.4	4.8
D4	05-22-01	42° 27' 41.91"	085° 40' 07.25"	29	54.43	1.63	697.7	695.6	692.1	3.5
D4	05-22-01	42° 27' 41.96"	085° 40' 07.36"	39	54.43	1.10	697.7	696.8	692.0	4.8
D4	05-22-01	42° 27' 42.03"	085° 40' 07.48"	49	54.43	1.62	697.7	697.3	696.2	1.1
D4	05-22-01	42° 27' 42.08"	085° 40' 07.59"	59	54.43	1.62	697.7	696.5	695.4	1.1
D4	05-22-01	42° 27' 42.14"	085° 40' 07.70"	69	54.43	1.15	697.7	695.9	692.0	3.9

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of streambed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
D5	05-22-01	42° 27' 43.80"	085° 40' 06.88"	0	54.42	0.00	697.7	697.3	692.4	4.9
D5	05-22-01	42° 27' 43.79"	085° 40' 07.01"	10	54.42	.81	697.7	696.2	692.0	4.2
D5	05-22-01	42° 27' 43.79"	085° 40' 07.15"	20	54.42	1.69	697.7	696.1	691.9	4.2
D5	05-22-01	42° 27' 43.78"	085° 40' 07.28"	30	54.42	1.51	697.7	696.7	691.3	5.4
D5	05-22-01	42° 27' 43.77"	085° 40' 07.36"	36	54.42	.00	697.7	697.7	690.3	7.4
D7	05-21-01	42° 27' 46.86"	085° 40' 06.77"	0	54.41	.00	697.7	696.0	692.4	3.6
D7	05-21-01	42° 27' 46.80"	085° 40' 06.87"	10	54.41	.27	697.7	695.7	690.0	5.7
D7	05-21-01	42° 27' 46.74"	085° 40' 06.98"	20	54.41	.41	697.7	694.3	689.0	5.3
D7	05-21-01	42° 27' 46.68"	085° 40' 07.09"	30	54.41	.37	697.7	694.3	689.1	5.2
D7	05-21-01	42° 27' 46.61"	085° 40' 07.19"	40	54.41	.79	697.7	692.3	688.9	3.4
D7	05-21-01	42° 27' 46.56"	085° 40' 07.28"	50	54.41	1.67	697.7	692.3	688.6	3.7
D7	05-21-01	42° 27' 46.50"	085° 40' 07.40"	60	54.41	.54	697.7	695.5	688.9	6.6
E1	05-13-02	42° 27' 48.26"	085° 40' 04.80"	0	54.42	.00	697.7	697.7	690.5	7.2
E1	05-13-02	42° 27' 48.17"	085° 40' 04.76"	10	54.42	.00	697.7	696.7	690.7	6.0
E1	05-13-02	42° 27' 48.09"	085° 40' 04.71"	20	54.42	.00	697.7	696.2	689.9	6.3
E1	05-13-02	42° 27' 48.01"	085° 40' 04.67"	30	54.42	.00	697.7	696.2	691.2	5.0
E1	05-13-02	42° 27' 47.92"	085° 40' 04.62"	40	54.42	.00	697.7	696.2	690.2	6.0
E1	05-13-02	42° 27' 47.82"	085° 40' 04.56"	50	54.42	.00	697.7	696.2	690.7	5.5
E1	05-13-02	42° 27' 47.72"	085° 40' 04.52"	60	54.42	.00	697.7	695.7	690.7	5.0
E1	05-13-02	42° 27' 47.61"	085° 40' 04.46"	70	54.42	.00	697.7	696.7	690.4	6.3
E1	05-13-02	42° 27' 47.48"	085° 40' 04.39"	85	54.42	.00	697.7	697.7	689.9	7.8
E2	05-13-02	42° 27' 48.16"	085° 39' 58.18"	0	54.47	.00	697.7	697.7	696.7	1.0
E2	05-13-02	42° 27' 48.07"	085° 39' 58.23"	10	54.47	.00	697.7	697.0	695.5	1.5
E2	05-13-02	42° 27' 47.98"	085° 39' 58.29"	20	54.47	.00	697.7	697.0	694.2	2.8
E2	05-13-02	42° 27' 47.90"	085° 39' 58.36"	30	54.47	.00	697.7	697.3	693.8	3.5
E2	05-13-02	42° 27' 47.80"	085° 39' 58.42"	40	54.47	.00	697.7	697.7	692.9	4.8
E3	05-13-02	42° 27' 43.82"	085° 39' 56.95"	0	54.50	.00	697.8	697.8	695.5	2.3
E3	05-13-02	42° 27' 43.82"	085° 39' 57.09"	10	54.50	.00	697.8	697.4	692.9	4.5
E3	05-13-02	42° 27' 43.82"	085° 39' 57.23"	20	54.50	.06	697.8	696.4	692.4	4.0
E3	05-13-02	42° 27' 43.81"	085° 39' 57.37"	30	54.50	.03	697.8	697.4	694.2	3.2
E3	05-13-02	42° 27' 43.82"	085° 39' 57.53"	42	54.50	.00	697.8	697.8	695.8	2.0
F1	04-24-02	42° 27' 37.92"	085° 40' 39.06"	0	53.89	.00	696.5	696.5	688.7	7.8
F1	04-24-02	42° 27' 37.88"	085° 40' 38.91"	10	53.89	.00	696.5	695.5	689.5	6.0

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of stream-bed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
F1	04-24-02	42° 27' 37.85"	085° 40' 38.79"	20	53.89	0.00	696.5	695.3	689.5	5.8
F1	04-24-02	42° 27' 37.82"	085° 40' 38.66"	30	53.89	.00	696.5	695.3	688.2	7.1
F1	04-24-02	42° 27' 37.78"	085° 40' 38.53"	40	53.89	.00	696.5	695.5	689.3	6.2
F1	04-24-02	42° 27' 37.74"	085° 40' 38.36"	55	53.89	.00	696.5	696.5	689.1	7.4
F2	03-18-02	42° 27' 38.01"	085° 40' 35.47"	0	53.94	.00	696.8	696.8	691.3	5.5
F2	03-18-02	42° 27' 37.93"	085° 40' 35.41"	10	53.94	1.17	696.8	694.9	692.0	2.9
F2	03-18-02	42° 27' 37.85"	085° 40' 35.36"	20	53.94	1.82	696.8	694.5	691.8	2.7
F2	03-18-02	42° 27' 37.76"	085° 40' 35.30"	30	53.94	2.28	696.8	694.2	691.7	2.5
F2	03-18-02	42° 27' 37.66"	085° 40' 35.25"	40	53.94	2.19	696.8	694.0	691.7	2.3
F2	03-18-02	42° 27' 37.58"	085° 40' 35.19"	50	53.94	2.24	696.8	692.4	691.5	.9
F2	03-18-02	42° 27' 37.48"	085° 40' 35.12"	60	53.94	1.82	696.8	692.4	689.0	3.4
F2	03-18-02	42° 27' 37.40"	085° 40' 35.07"	70	53.94	.00	696.8	696.8	689	7.8
F3	04-24-02	42° 27' 40.65"	085° 40' 30.24"	0	53.99	.00	696.7	696.7	687.7	9.0
F3	04-24-02	42° 27' 40.57"	085° 40' 30.32"	10	53.99	.25	696.7	695.6	687.7	7.9
F3	04-24-02	42° 27' 40.51"	085° 40' 30.37"	17	53.99	.00	696.7	696.7	688.7	8.0
F4	03-18-02	42° 27' 40.42"	085° 40' 26.85"	0	54.05	.00	696.9	696.9	689.9	7.0
F4	03-18-02	42° 27' 40.49"	085° 40' 26.74"	12	54.05	.96	696.9	696.0	690.1	5.9
F4	03-18-02	42° 27' 40.56"	085° 40' 26.67"	22	54.05	1.43	696.9	695.7	690.1	5.6
F4	03-18-02	42° 27' 40.63"	085° 40' 26.57"	32	54.05	1.60	696.9	695.6	690.1	5.5
F4	03-18-02	42° 27' 40.70"	085° 40' 26.48"	42	54.05	2.07	696.9	695.3	691.6	3.7
F4	03-18-02	42° 27' 40.78"	085° 40' 26.40"	52	54.05	2.02	696.9	693.7	690.1	3.6
F4	03-18-02	42° 27' 40.85"	085° 40' 26.30"	62	54.05	2.02	696.9	692.6	691.0	1.6
F4	03-18-02	42° 27' 40.93"	085° 40' 26.21"	72	54.05	.00	696.9	696.9	691.1	5.8
F5	04-24-02	42° 27' 41.42"	085° 40' 26.69"	0	54.04	.00	696.8	696.8	692.8	4.0
F5	04-24-02	42° 27' 41.35"	085° 40' 26.59"	10	54.04	.40	696.8	695.5	690.5	5.0
F5	04-24-02	42° 27' 41.29"	085° 40' 26.50"	20	54.04	.85	696.8	695.7	690.3	5.4
F5	04-24-02	42° 27' 41.22"	085° 40' 26.41"	30	54.04	1.59	696.8	695.4	690.3	5.1
F5	04-24-02	42° 27' 41.16"	085° 40' 26.31"	40	54.04	1.46	696.8	695.2	690.3	4.9
F5	04-24-02	42° 27' 41.09"	085° 40' 26.21"	50	54.04	.98	696.8	694.8	690.3	4.5
F5	04-24-02	42° 27' 41.02"	085° 40' 26.11"	60	54.04	.00	696.8	696.8	691.3	5.5
F6	04-24-02	42° 27' 40.99"	085° 40' 18.65"	0	54.28	.00	696.9	696.9	691.5	5.4
F6	04-24-02	42° 27' 40.94"	085° 40' 18.75"	10	54.28	.71	696.9	695.1	691.5	3.6
F6	04-24-02	42° 27' 40.88"	085° 40' 18.86"	20	54.28	.88	696.9	694.5	691.4	3.1

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of stream-bed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
F6	04-24-02	42° 27' 40.82"	085° 40' 18.96"	30	54.28	0.00	696.9	695.4	692.0	3.4
F6	04-24-02	42° 27' 40.77"	085° 40' 19.06"	40	54.28	.30	696.9	695.4	691.7	3.7
F6	04-24-02	42° 27' 40.71"	085° 40' 19.17"	50	54.28	2.07	696.9	694.9	692.0	2.9
F6	04-24-02	42° 27' 40.66"	085° 40' 19.26"	60	54.28	1.79	696.9	695.0	692.1	2.9
F6	04-24-02	42° 27' 40.61"	085° 40' 19.35"	65	54.28	.00	696.9	696.9	692.0	4.9
F7	03-18-02	42° 27' 41.56"	085° 40' 19.33"	0	54.28	.00	697	697.0	689.5	7.5
F7	03-18-02	42° 27' 41.51"	085° 40' 19.27"	7	54.28	1.43	697	695.9	689.9	6.0
F7	03-18-02	42° 27' 41.45"	085° 40' 19.18"	17	54.28	1.83	697	695.6	689.6	6.0
F7	03-18-02	42° 27' 41.38"	085° 40' 19.09"	27	54.28	1.95	697	695.6	691.4	4.2
F7	03-18-02	42° 27' 41.30"	085° 40' 18.98"	37	54.28	1.63	697	695.6	691.4	4.2
F7	03-18-02	42° 27' 41.24"	085° 40' 18.90"	47	54.28	1.20	697	695.4	691.4	4.0
F7	03-18-02	42° 27' 41.16"	085° 40' 18.79"	57	54.28	1.05	697	695.7	691.7	4.0
F7	03-18-02	42° 27' 41.09"	085° 40' 18.70"	67	54.28	.43	697	695.4	691.9	3.5
F7	03-18-02	42° 27' 41.02"	085° 40' 18.61"	77	54.28	.00	697	697.0	690.8	6.2
F8	04-24-02	42° 27' 39.92"	085° 40' 17.71"	0	54.28	.00	697.2	697.2	691.2	6.0
F8	04-24-02	42° 27' 39.83"	085° 40' 17.75"	10	54.28	1.50	697.2	694.8	691.1	3.7
F8	04-24-02	42° 27' 39.73"	085° 40' 17.79"	20	54.28	2.11	697.2	694.2	692.7	1.5
F8	04-24-02	42° 27' 39.62"	085° 40' 17.83"	30	54.28	.00	697.2	697.2	691.5	5.7
F9	04-24-02	42° 27' 43.16"	085° 40' 23.00"	0	54.29	.00	697	697.0	692.7	4.3
F9	04-24-02	42° 27' 43.11"	085° 40' 22.89"	10	54.29	.99	697	696.1	692.0	4.1
F9	04-24-02	42° 27' 43.05"	085° 40' 22.77"	20	54.29	1.60	697	695.5	692.3	3.2
F9	04-24-02	42° 27' 43.00"	085° 40' 22.66"	30	54.29	1.63	697	695.4	692.0	3.4
F9	04-24-02	42° 27' 42.95"	085° 40' 22.56"	40	54.29	1.21	697	695.3	691.5	3.8
F9	04-24-02	42° 27' 42.92"	085° 40' 22.49"	46	54.29	.00	697	697.0	691.5	5.5
F10	04-24-02	42° 27' 46.60"	085° 40' 20.04"	0	54.30	.00	696.9	696.9	692.1	4.8
F10	04-24-02	42° 27' 46.51"	085° 40' 20.03"	10	54.30	.00	696.9	696.9	692.1	4.8
F10	04-24-02	42° 27' 46.41"	085° 40' 20.02"	20	54.30	.30	696.9	696.4	692.6	3.8
F10	04-24-02	42° 27' 46.30"	085° 40' 20.01"	30	54.30	.85	696.9	695.1	692.1	3.0
F10	04-24-02	42° 27' 46.21"	085° 40' 20.00"	40	54.30	1.15	696.9	694.8	692.2	2.6
F10	04-24-02	42° 27' 46.10"	085° 40' 19.99"	50	54.30	.84	696.9	694.8	692.6	2.2
F10	04-24-02	42° 27' 46.00"	085° 40' 19.98"	60	54.30	.64	696.9	695.1	692.4	2.7
F10	04-24-02	42° 27' 45.90"	085° 40' 19.96"	70	54.30	.00	696.9	696.9	693.0	3.9

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of streambed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
F11	03-18-02	42° 27' 45.75"	085° 40' 18.32"	0	54.32	0.00	697.2	697.2	689.2	8.0
F11	03-18-02	42° 27' 45.76"	085° 40' 18.18"	10	54.32	1.17	697.2	695.6	690.6	5.0
F11	03-18-02	42° 27' 45.76"	085° 40' 18.05"	20	54.32	1.69	697.2	696.2	688.8	7.4
F11	03-18-02	42° 27' 45.76"	085° 40' 17.92"	30	54.32	2.16	697.2	696.2	689.1	7.1
F11	03-18-02	42° 27' 45.76"	085° 40' 17.78"	40	54.32	1.97	697.2	695.8	689.4	6.4
F11	03-18-02	42° 27' 45.77"	085° 40' 17.66"	50	54.32	1.50	697.2	696.0	689.6	6.4
F11	03-18-02	42° 27' 45.77"	085° 40' 17.52"	60	54.32	1.10	697.2	695.6	691.1	4.5
F11	03-18-02	42° 27' 45.77"	085° 40' 17.40"	68	54.32	.00	697.2	697.2	690.7	6.5
F12	03-19-02	42° 27' 50.48"	085° 40' 12.32"	0	54.35	.00	697.4	697.4	693.4	4.0
F12	03-19-02	42° 27' 50.39"	085° 40' 12.40"	10	54.35	.03	697.4	695.7	693.7	2.0
F12	03-19-02	42° 27' 50.30"	085° 40' 12.48"	20	54.35	.09	697.4	695.7	693.7	2.0
F12	03-19-02	42° 27' 50.20"	085° 40' 12.55"	30	54.35	.18	697.4	695.9	691.7	4.2
F12	03-19-02	42° 27' 50.13"	085° 40' 12.61"	40	54.35	.63	697.4	696.2	690.9	5.3
F12	03-19-02	42° 27' 50.05"	085° 40' 12.68"	50	54.35	.65	697.4	694.7	690.9	3.8
F12	03-19-02	42° 27' 49.98"	085° 40' 12.73"	60	54.35	1.42	697.4	693.7	690.9	2.8
F12	03-19-02	42° 27' 49.89"	085° 40' 12.80"	70	54.35	1.80	697.4	694.5	691.2	3.3
F12	03-19-02	42° 27' 49.80"	085° 40' 12.87"	80	54.35	1.97	697.4	695.2	691.5	3.7
F12	03-19-02	42° 27' 49.70"	085° 40' 12.95"	90	54.35	1.62	697.4	695.9	691.7	4.2
F12	03-19-02	42° 27' 49.61"	085° 40' 13.02"	100	54.35	1.20	697.4	696.4	691.6	4.8
F12	03-19-02	42° 27' 49.51"	085° 40' 13.11"	114	54.35	.00	697.4	697.4	691.3	6.1
F13	03-19-02	42° 27' 47.69"	085° 40' 08.76"	0	54.40	.00	697.4	697.4	690.4	7.0
F13	03-19-02	42° 27' 47.61"	085° 40' 08.88"	10	54.40	1.01	697.4	696.7	690.7	6.0
F13	03-19-02	42° 27' 47.55"	085° 40' 08.97"	20	54.40	1.03	697.4	697.2	690.2	7.0
F13	03-19-02	42° 27' 47.49"	085° 40' 09.06"	30	54.40	.56	697.4	696.7	690.7	6.0
F13	03-19-02	42° 27' 47.43"	085° 40' 09.16"	40	54.40	.94	697.4	696.3	690.0	6.3
F13	03-19-02	42° 27' 47.36"	085° 40' 09.26"	50	54.40	1.16	697.4	696.2	689.2	7.0
F13	03-19-02	42° 27' 47.29"	085° 40' 09.37"	60	54.40	1.87	697.4	695.7	688.7	7.0
F13	03-19-02	42° 27' 47.24"	085° 40' 09.45"	70	54.40	2.08	697.4	694.7	688.8	5.9
F13	03-19-02	42° 27' 47.16"	085° 40' 09.55"	80	54.40	1.88	697.4	694.5	688.7	5.8
F13	03-19-02	42° 27' 47.11"	085° 40' 09.64"	88	54.40	.00	697.4	697.4	688.6	8.8
G1	10-11-01	42° 27' 49.30"	085° 41' 29.15"	0	53.05	.00	695.8	695.8	686.8	9.0
G1	10-11-01	42° 27' 49.07"	085° 41' 29.31"	25	53.05	.00	695.8	694.3	687.3	7.0
G1	10-11-01	42° 27' 48.85"	085° 41' 29.44"	50	53.05	.00	695.8	694.3	686.8	7.5
G1	10-11-01	42° 27' 48.63"	085° 41' 29.59"	74	53.05	.00	695.8	693.8	685.3	8.5

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of streambed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
G1	10-11-01	42° 27' 48.42"	085° 41' 29.72"	98	53.05	0.54	695.8	690.3	684.8	5.5
G1	10-11-01	42° 27' 48.21"	085° 41' 29.85"	122	53.05	1.30	695.8	689.8	684.3	5.5
G1	10-11-01	42° 27' 48.00"	085° 41' 29.99"	146	53.05	1.48	695.8	690.3	684.3	6.0
G1	10-11-01	42° 27' 47.76"	085° 41' 30.13"	170	53.05	1.49	695.8	691.3	685.3	6.0
G1	10-11-01	42° 27' 47.56"	085° 41' 30.26"	194	53.05	1.58	695.8	691.8	687.3	4.5
G1	10-11-01	42° 27' 47.31"	085° 41' 30.42"	218	53.05	1.74	695.8	692.3	686.8	5.5
G1	10-11-01	42° 27' 47.13"	085° 41' 30.53"	242	53.05	1.84	695.8	692.3	684.8	7.5
G1	10-11-01	42° 27' 46.92"	085° 41' 30.68"	266	53.05	1.86	695.8	692.8	689.3	3.5
G1	10-11-01	42° 27' 46.71"	085° 41' 30.81"	290	53.05	1.47	695.8	693.3	687.3	6.0
G1	10-11-01	42° 27' 46.48"	085° 41' 30.95"	314	53.05	1.09	695.8	693.8	690.8	3.0
G1	10-11-01	42° 27' 46.26"	085° 41' 31.09"	338	53.05	.96	695.8	692.8	687.3	5.5
G1	10-11-01	42° 27' 46.03"	085° 41' 31.23"	365	53.05	.00	695.8	693.8	689.8	4.0
G2	10-10-01	42° 27' 46.31"	085° 41' 25.10"	0	53.13	.00	695.8	695.8	686.3	9.5
G2	10-10-01	42° 27' 46.16"	085° 41' 25.22"	17	53.13	1.08	695.8	691.3	685.8	5.5
G2	10-10-01	42° 27' 46.01"	085° 41' 25.31"	34	53.13	1.18	695.8	691.6	686.3	5.3
G2	10-10-01	42° 27' 45.85"	085° 41' 25.42"	51	53.13	1.30	695.8	690.3	687.3	3.0
G2	10-10-01	42° 27' 45.71"	085° 41' 25.51"	68	53.13	1.52	695.8	690.5	687.8	2.7
G2	10-10-01	42° 27' 45.57"	085° 41' 25.62"	85	53.13	1.66	695.8	690.3	687.8	2.5
G2	10-10-01	42° 27' 45.41"	085° 41' 25.72"	102	53.13	1.81	695.8	690.6	687.8	2.8
G2	10-10-01	42° 27' 45.27"	085° 41' 25.82"	119	53.13	1.88	695.8	690.8	687.8	3.0
G2	10-10-01	42° 27' 45.11"	085° 41' 25.93"	136	53.13	1.80	695.8	691.5	687.8	3.7
G2	10-10-01	42° 27' 44.97"	085° 41' 26.03"	153	53.13	1.78	695.8	691.8	689.3	2.5
G2	10-10-01	42° 27' 44.82"	085° 41' 26.13"	170	53.13	1.68	695.8	692.3	684.8	7.5
G2	10-10-01	42° 27' 44.67"	085° 41' 26.24"	187	53.13	1.56	695.8	692.8	685.8	7.0
G2	10-10-01	42° 27' 44.53"	085° 41' 26.33"	204	53.13	1.09	695.8	693.3	684.8	8.5
G2	10-10-01	42° 27' 44.37"	085° 41' 26.45"	221	53.13	.51	695.8	693.8	685.3	8.5
G2	10-10-01	42° 27' 44.22"	085° 41' 26.55"	238	53.13	.42	695.8	693.8	685.3	8.5
G2	10-10-01	42° 27' 44.08"	085° 41' 26.64"	255	53.13	.32	695.8	693.8	687.3	6.5
G2	10-10-01	42° 27' 43.94"	085° 41' 26.74"	270	53.13	.00	695.8	693.8	691.8	2.0
G3	10-10-01	42° 27' 44.12"	085° 41' 20.50"	0	53.19	.00	695.8	695.8	685.8	10.0
G3	10-10-01	42° 27' 43.98"	085° 41' 20.67"	17	53.19	.00	695.8	694.8	687.8	7.0
G3	10-10-01	42° 27' 43.87"	085° 41' 20.84"	34	53.19	.00	695.8	695.8	687.8	8.0
G3	10-10-01	42° 27' 43.76"	085° 41' 20.97"	51	53.19	.95	695.8	693.8	687.8	6.0
G3	10-10-01	42° 27' 43.63"	085° 41' 21.15"	68	53.19	1.05	695.8	693.3	688.3	5.0
G3	10-10-01	42° 27' 43.53"	085° 41' 21.29"	85	53.19	1.05	695.8	693.3	690.8	2.5

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of streambed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
G3	10-10-01	42° 27' 43.41"	085° 41' 21.46"	102	53.19	1.09	695.8	691.3	688.8	2.5
G3	10-10-01	42° 27' 43.29"	085° 41' 21.62"	119	53.19	1.28	695.8	690.8	687.8	3.0
G3	10-10-01	42° 27' 43.17"	085° 41' 21.80"	136	53.19	1.70	695.8	690.3	687.8	2.5
G3	10-10-01	42° 27' 43.04"	085° 41' 21.97"	153	53.19	1.85	695.8	689.8	687.3	2.5
G3	10-10-01	42° 27' 42.92"	085° 41' 22.14"	170	53.19	2.09	695.8	689.8	687.8	2.0
G3	10-10-01	42° 27' 42.81"	085° 41' 22.29"	187	53.19	2.11	695.8	689.3	687.8	1.5
G3	10-10-01	42° 27' 42.71"	085° 41' 22.43"	204	53.19	1.90	695.8	689.8	687.8	2.0
G3	10-10-01	42° 27' 42.60"	085° 41' 22.59"	221	53.19	.76	695.8	689.8	688.8	1.0
G3	10-10-01	42° 27' 42.49"	085° 41' 22.75"	238	53.19	1.19	695.8	693.3	689.8	3.5
G3	10-10-01	42° 27' 42.36"	085° 41' 22.91"	255	53.19	.00	695.8	694.8	694.8	.0
G4	10-11-01	42° 27' 41.74"	085° 41' 16.73"	0	53.27	.00	695.8	694.8	685.8	9.0
G4	10-11-01	42° 27' 41.57"	085° 41' 16.93"	30	53.27	.00	695.8	694.8	685.3	9.5
G4	10-11-01	42° 27' 41.08"	085° 41' 17.49"	92	53.27	.00	695.8	694.8	687.8	7.0
G4	10-11-01	42° 27' 40.91"	085° 41' 17.67"	113	53.27	1.40	695.8	693.6	687.8	5.8
G4	10-11-01	42° 27' 40.76"	085° 41' 17.84"	134	53.27	1.22	695.8	693.3	688.3	5.0
G4	10-11-01	42° 27' 40.62"	085° 41' 18.00"	155	53.27	1.31	695.8	693.8	686.6	7.2
G4	10-11-01	42° 27' 40.44"	085° 41' 18.20"	176	53.27	1.24	695.8	693.3	687.1	6.2
G4	10-11-01	42° 27' 40.28"	085° 41' 18.41"	197	53.27	1.59	695.8	692.8	687.8	5.0
G4	10-11-01	42° 27' 40.13"	085° 41' 18.56"	218	53.27	1.72	695.8	692.8	687.3	5.5
G4	10-11-01	42° 27' 39.96"	085° 41' 18.75"	239	53.27	1.86	695.8	692.3	687.3	5.0
G4	10-11-01	42° 27' 39.80"	085° 41' 18.93"	260	53.27	1.82	695.8	691.8	687.8	4.0
G4	10-11-01	42° 27' 39.63"	085° 41' 19.13"	281	53.27	1.68	695.8	690.1	688.3	1.8
G4	10-11-01	42° 27' 39.49"	085° 41' 19.28"	302	53.27	1.94	695.8	688.8	688.3	.5
G4	10-11-01	42° 27' 39.31"	085° 41' 19.49"	323	53.27	1.47	695.8	689.3	689.3	.0
G4	10-11-01	42° 27' 39.07"	085° 41' 19.77"	354	53.27	1.18	695.8	693.3	690.8	2.5
G5	10-11-01	42° 27' 37.26"	085° 41' 08.63"	0	53.43	.00	696	695.0	686.5	8.5
G5	10-11-01	42° 27' 37.12"	085° 41' 08.66"	16	53.43	1.30	696	693.5	687.0	6.5
G5	10-11-01	42° 27' 36.95"	085° 41' 08.71"	32	53.43	1.60	696	695.0	688.0	7.0
G5	10-11-01	42° 27' 36.80"	085° 41' 08.75"	48	53.43	1.79	696	694.0	687.5	6.5
G5	10-11-01	42° 27' 36.63"	085° 41' 08.79"	64	53.43	1.92	696	693.7	688.0	5.7
G5	10-11-01	42° 27' 36.48"	085° 41' 08.85"	80	53.43	2.06	696	693.0	687.0	6.0
G5	10-11-01	42° 27' 36.33"	085° 41' 08.88"	96	53.43	2.08	696	692.3	687.0	5.3
G5	10-11-01	42° 27' 36.18"	085° 41' 08.93"	112	53.43	1.82	696	690.7	686.0	4.7
G5	10-11-01	42° 27' 36.01"	085° 41' 08.98"	128	53.43	2.04	696	690.0	686.0	4.0
G5	10-11-01	42° 27' 35.87"	085° 41' 09.01"	144	53.43	2.36	696	690.0	688.0	2.0

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of streambed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
G5	10-11-01	42° 27' 35.70"	085° 41' 09.05"	160	53.43	1.70	696	691.0	686.0	5.0
G5	10-11-01	42° 27' 35.56"	085° 41' 09.10"	176	53.43	2.42	696	692.0	686.0	6.0
G5	10-11-01	42° 27' 35.39"	085° 41' 09.14"	192	53.43	1.30	696	692.3	685.5	6.8
G5	10-11-01	42° 27' 35.19"	085° 41' 09.20"	215	53.43	.32	696	694.1	685.0	9.1
G6	10-12-01	42° 27' 34.44"	085° 40' 59.04"	0	53.58	.00	696.4	695.7	691.7	4.0
G6	10-12-01	42° 27' 34.26"	085° 40' 59.06"	19	53.58	1.13	696.4	694.7	690.7	4.0
G6	10-12-01	42° 27' 34.07"	085° 40' 59.11"	38	53.58	1.71	696.4	694.7	691.2	3.5
G6	10-12-01	42° 27' 33.88"	085° 40' 59.15"	57	53.58	2.21	696.4	695.2	691.7	3.5
G6	10-12-01	42° 27' 33.71"	085° 40' 59.17"	76	53.58	2.13	696.4	694.9	691.7	3.2
G6	10-12-01	42° 27' 33.50"	085° 40' 59.21"	95	53.58	2.01	696.4	694.9	691.2	3.7
G6	10-12-01	42° 27' 33.32"	085° 40' 59.24"	114	53.58	1.67	696.4	694.9	691.7	3.2
G6	10-12-01	42° 27' 33.13"	085° 40' 59.27"	133	53.58	1.49	696.4	694.5	691.7	2.8
G6	10-12-01	42° 27' 32.96"	085° 40' 59.30"	152	53.58	1.73	696.4	694.2	691.5	2.7
G6	10-12-01	42° 27' 32.76"	085° 40' 59.33"	171	53.58	1.42	696.4	693.7	691.7	2.0
G6	10-12-01	42° 27' 32.57"	085° 40' 59.36"	190	53.58	1.90	696.4	692.2	691.0	1.2
G6	10-12-01	42° 27' 32.38"	085° 40' 59.38"	209	53.58	2.38	696.4	690.7	690.7	.0
G6	10-12-01	42° 27' 32.21"	085° 40' 59.42"	228	53.58	2.69	696.4	692.2	690.7	1.5
G6	10-12-01	42° 27' 32.02"	085° 40' 59.44"	247	53.58	2.15	696.4	693.4	691.0	2.4
G6	10-12-01	42° 27' 31.84"	085° 40' 59.48"	265	53.58	.00	696.4	695.2	689.7	5.5
G7	10-12-01	42° 27' 34.92"	085° 40' 49.26"	0	53.73	.67	696.4	695.9	691.2	4.7
G7	10-12-01	42° 27' 34.74"	085° 40' 49.20"	17	53.73	1.28	696.4	694.7	691.2	3.5
G7	10-12-01	42° 27' 34.57"	085° 40' 49.14"	34	53.73	1.89	696.4	693.7	689.7	4.0
G7	10-12-01	42° 27' 34.41"	085° 40' 49.09"	51	53.73	2.13	696.4	692.7	690.7	2.0
G7	10-12-01	42° 27' 34.26"	085° 40' 49.04"	68	53.73	2.62	696.4	692.5	689.5	3.0
G7	10-12-01	42° 27' 34.10"	085° 40' 48.99"	85	53.73	2.72	696.4	692.7	689.7	3.0
G7	10-12-01	42° 27' 33.94"	085° 40' 48.93"	102	53.73	2.64	696.4	692.7	689.5	3.2
G7	10-12-01	42° 27' 33.77"	085° 40' 48.87"	119	53.73	2.18	696.4	692.4	691.0	1.4
G7	10-12-01	42° 27' 33.61"	085° 40' 48.82"	136	53.73	1.13	696.4	693.7	691.2	2.5
G7	10-12-01	42° 27' 33.44"	085° 40' 48.77"	153	53.73	1.76	696.4	694.2	691.5	2.7
G7	10-12-01	42° 27' 33.27"	085° 40' 48.72"	170	53.73	1.91	696.4	695.0	689.7	5.3
G7	10-12-01	42° 27' 33.12"	085° 40' 48.66"	187	53.73	1.67	696.4	695.2	690.2	5.0
G7	10-12-01	42° 27' 32.97"	085° 40' 48.62"	204	53.73	1.68	696.4	695.2	690.2	5.0
G7	10-12-01	42° 27' 32.78"	085° 40' 48.55"	221	53.73	1.79	696.4	695.2	689.2	6.0
G7	10-12-01	42° 27' 32.57"	085° 40' 48.49"	245	53.73	.20	696.4	694.7	689.2	5.5

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of streambed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
G8	11-05-01	42° 27' 37.60"	085° 40' 38.33"	0	53.89	0.00	696.7	696.7	689.7	7.0
G8	11-05-01	42° 27' 37.49"	085° 40' 38.33"	14	53.89	1.91	696.7	693.9	688.6	5.3
G8	11-05-01	42° 27' 37.34"	085° 40' 38.33"	28	53.89	1.86	696.7	693.6	689.1	4.5
G8	11-05-01	42° 27' 37.22"	085° 40' 38.32"	42	53.89	2.34	696.7	693.9	690.1	3.8
G8	11-05-01	42° 27' 37.09"	085° 40' 38.32"	56	53.89	1.99	696.7	693.5	689.1	4.4
G8	11-05-01	42° 27' 36.95"	085° 40' 38.32"	70	53.89	2.29	696.7	693.5	688.6	4.9
G8	11-05-01	42° 27' 36.80"	085° 40' 38.32"	84	53.89	2.46	696.7	693.6	688.6	5.0
G8	11-05-01	42° 27' 36.67"	085° 40' 38.31"	98	53.89	2.34	696.7	693.4	687.6	5.8
G8	11-05-01	42° 27' 36.52"	085° 40' 38.31"	112	53.89	2.54	696.7	693.1	687.6	5.5
G8	11-05-01	42° 27' 36.38"	085° 40' 38.31"	126	53.89	2.86	696.7	693.3	690.1	3.2
G8	11-05-01	42° 27' 36.24"	085° 40' 38.30"	140	53.89	2.97	696.7	692.6	688.1	4.5
G8	11-05-01	42° 27' 36.11"	085° 40' 38.30"	154	53.89	3.28	696.7	693.5	690.6	2.9
G8	11-05-01	42° 27' 35.96"	085° 40' 38.30"	168	53.89	2.48	696.7	694.3	691.1	3.2
G8	11-05-01	42° 27' 35.83"	085° 40' 38.30"	182	53.89	.50	696.7	695.1	692.1	3.0
G8	11-05-01	42° 27' 35.70"	085° 40' 38.29"	195	53.89	.00	696.7	696.7	688.7	8.0
G9	11-06-01	42° 27' 36.72"	085° 40' 29.17"	0	54.02	.00	696.9	696.9	692.9	4.0
G9	11-06-01	42° 27' 36.61"	085° 40' 29.21"	13	54.02	1.08	696.9	694.7	693.3	1.4
G9	11-06-01	42° 27' 36.48"	085° 40' 29.26"	26	54.02	1.20	696.9	695.0	693.3	1.7
G9	11-06-01	42° 27' 36.35"	085° 40' 29.30"	39	54.02	1.38	696.9	695.1	693.3	1.8
G9	11-06-01	42° 27' 36.24"	085° 40' 29.34"	52	54.02	2.02	696.9	694.2	692.3	1.9
G9	11-06-01	42° 27' 36.11"	085° 40' 29.38"	65	54.02	2.59	696.9	693.6	689.3	4.3
G9	11-06-01	42° 27' 35.99"	085° 40' 29.41"	78	54.02	2.66	696.9	693.8	690.3	3.5
G9	11-06-01	42° 27' 35.87"	085° 40' 29.45"	91	54.02	2.64	696.9	694.0	689.3	4.7
G9	11-06-01	42° 27' 35.73"	085° 40' 29.50"	104	54.02	2.72	696.9	694.3	688.8	5.5
G9	11-06-01	42° 27' 35.60"	085° 40' 29.54"	117	54.02	2.71	696.9	694.6	690.8	3.8
G9	11-06-01	42° 27' 35.47"	085° 40' 29.58"	130	54.02	2.57	696.9	694.3	690.8	3.5
G9	11-06-01	42° 27' 35.35"	085° 40' 29.61"	143	54.02	2.62	696.9	694.5	688.3	6.2
G9	11-06-01	42° 27' 35.23"	085° 40' 29.65"	156	54.02	2.90	696.9	694.8	686.8	8.0
G9	11-06-01	42° 27' 35.10"	085° 40' 29.69"	169	54.02	2.66	696.9	695.3	686.3	9.0
G9	11-06-01	42° 27' 34.97"	085° 40' 29.74"	185	54.02	.00	696.9	696.9	687.4	9.5
G10	11-06-01	42° 27' 38.22"	085° 40' 17.41"	0	54.23	.00	697.1	697.1	693.6	3.5
G10	11-06-01	42° 27' 38.21"	085° 40' 17.28"	10	54.23	.38	697.1	694.0	691.5	2.5
G10	11-06-01	42° 27' 38.19"	085° 40' 17.14"	20	54.23	3.04	697.1	691.3	690.5	.8
G10	11-06-01	42° 27' 38.17"	085° 40' 17.04"	30	54.23	4.15	697.1	689.9	689.9	.0
G10	11-06-01	42° 27' 38.14"	085° 40' 16.88"	40	54.23	3.77	697.1	689.8	688.8	1.0

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of streambed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
G10	11-06-01	42° 27' 38.13"	085° 40' 16.77"	50	54.23	3.06	697.1	690.0	687.5	2.5
G10	11-06-01	42° 27' 38.11"	085° 40' 16.65"	60	54.23	2.46	697.1	688.5	687.5	1.0
G10	11-06-01	42° 27' 38.09"	085° 40' 16.51"	70	54.23	1.46	697.1	690.3	688.5	1.8
G10	11-06-01	42° 27' 38.07"	085° 40' 16.38"	80	54.23	1.40	697.1	691.5	688.5	3.0
G10	11-06-01	42° 27' 38.05"	085° 40' 16.25"	90	54.23	.46	697.1	694.0	689.0	5.0
G10	11-06-01	42° 27' 38.02"	085° 40' 16.07"	103	54.23	.00	697.1	697.1	689.6	7.5
H1	05-14-02	42° 27' 36.78"	085° 41' 05.24"	0	53.48	.00	696.2	696.2	691.2	5.0
H1	05-14-02	42° 27' 36.78"	085° 41' 05.11"	10	53.48	1.90	696.2	691.5	686.7	4.8
H1	05-14-02	42° 27' 36.77"	085° 41' 04.97"	20	53.48	2.43	696.2	692.1	686.4	5.7
H1	05-14-02	42° 27' 36.76"	085° 41' 04.81"	30	53.48	1.25	696.2	692.5	685.9	6.6
H1	05-14-02	42° 27' 36.75"	085° 41' 04.68"	40	53.48	.45	696.2	695.4	686.7	8.7
H1	05-14-02	42° 27' 36.74"	085° 41' 04.53"	50	53.48	.34	696.2	695.5	687.4	8.1
H1	05-14-02	42° 27' 36.74"	085° 41' 04.37"	65	53.48	.00	696.2	695.7	687.7	8.0
H2	05-14-02	42° 27' 39.28"	085° 40' 59.46"	0	53.52	.00	696.3	696.3	685.1	11.2
H2	05-14-02	42° 27' 39.18"	085° 40' 59.49"	10	53.52	1.09	696.3	694.3	685.5	8.8
H2	05-14-02	42° 27' 39.08"	085° 40' 59.50"	20	53.52	1.70	696.3	694.4	685.8	8.6
H2	05-14-02	42° 27' 38.99"	085° 40' 59.51"	30	53.52	2.04	696.3	694.4	685.8	8.6
H2	05-14-02	42° 27' 38.88"	085° 40' 59.54"	40	53.52	1.88	696.3	694.4	685.5	8.9
H2	05-14-02	42° 27' 38.78"	085° 40' 59.56"	50	53.52	1.68	696.3	694.5	685.9	8.6
H2	05-14-02	42° 27' 38.68"	085° 40' 59.56"	60	53.52	1.42	696.3	694.6	686.2	8.4
H2	05-14-02	42° 27' 38.53"	085° 40' 59.58"	75	53.52	.00	696.3	696.3	686.5	9.8
H3	05-14-02	42° 27' 39.29"	085° 40' 50.83"	0	53.75	.00	696.4	696.4	688.9	7.5
H3	05-14-02	42° 27' 39.22"	085° 40' 50.75"	10	53.75	.50	696.4	695.6	687.7	7.9
H3	05-14-02	42° 27' 39.14"	085° 40' 50.64"	20	53.75	1.98	696.4	694.7	687.5	7.2
H3	05-14-02	42° 27' 39.07"	085° 40' 50.55"	30	53.75	2.20	696.4	694.5	687.7	6.8
H3	05-14-02	42° 27' 39.01"	085° 40' 50.45"	40	53.75	2.38	696.4	694.5	687.7	6.8
H3	05-14-02	42° 27' 38.93"	085° 40' 50.36"	50	53.75	2.32	696.4	694.7	688.0	6.7
H3	05-14-02	42° 27' 38.87"	085° 40' 50.25"	60	53.75	.00	696.4	696.4	687.9	8.5
H4	05-14-02	42° 27' 38.28"	085° 40' 51.34"	0	53.73	.00	696.4	696.4	689.0	7.4
H4	05-14-02	42° 27' 38.25"	085° 40' 51.46"	10	53.73	.14	696.4	693.5	689.5	4.0
H4	05-14-02	42° 27' 38.21"	085° 40' 51.60"	20	53.73	.19	696.4	692.9	689.1	3.8
H4	05-14-02	42° 27' 38.18"	085° 40' 51.71"	30	53.73	.19	696.4	695.0	689.0	6.0
H4	05-14-02	42° 27' 38.15"	085° 40' 51.82"	38	53.73	.06	696.4	694.0	689.5	4.5

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of stream-bed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
H5	05-14-02	42° 27' 35.01"	085° 40' 49.42"	0	53.73	0.00	696.4	696.4	690.4	6.0
H5	05-14-02	42° 27' 34.95"	085° 40' 49.54"	10	53.73	.18	696.4	695.0	690.5	4.5
H5	05-14-02	42° 27' 34.90"	085° 40' 49.64"	20	53.73	.21	696.4	694.4	691.5	2.9
H5	05-14-02	42° 27' 34.85"	085° 40' 49.75"	30	53.73	.23	696.4	694.0	690.6	3.4
H5	05-14-02	42° 27' 34.79"	085° 40' 49.87"	40	53.73	.22	696.4	694.3	689.5	4.8
H5	05-14-02	42° 27' 34.73"	085° 40' 49.97"	50	53.73	.37	696.4	694.0	689.3	4.7
H5	05-14-02	42° 27' 34.69"	085° 40' 50.04"	57	53.73	.00	696.4	696.4	688.6	7.8
I1	11-07-01	42° 27' 34.81"	085° 40' 29.42"	0	54.04	.00	696.9	696.9	687.9	9.0
I1	11-07-01	42° 27' 34.74"	085° 40' 29.24"	11	54.04	.97	696.9	694.8	687.3	7.5
I1	11-07-01	42° 27' 34.70"	085° 40' 29.06"	22	54.04	1.87	696.9	695.5	688.3	7.2
I1	11-07-01	42° 27' 34.67"	085° 40' 28.96"	33	54.04	1.85	696.9	695.8	688.3	7.5
I1	11-07-01	42° 27' 34.63"	085° 40' 28.81"	44	54.04	1.08	696.9	696.3	689.3	7.0
I1	11-07-01	42° 27' 34.49"	085° 40' 28.38"	88	54.04	.00	696.9	692.3	690.8	1.5
I1	11-07-01	42° 27' 34.45"	085° 40' 28.24"	99	54.04	1.73	696.9	694.3	690.3	4.0
I1	11-07-01	42° 27' 34.42"	085° 40' 28.09"	110	54.04	2.36	696.9	695.8	693.3	2.5
I1	11-07-01	42° 27' 34.38"	085° 40' 27.95"	121	54.04	2.29	696.9	695.3	693.3	2.0
I1	11-07-01	42° 27' 34.34"	085° 40' 27.80"	132	54.04	2.18	696.9	695.1	693.3	1.8
I1	11-07-01	42° 27' 34.31"	085° 40' 27.66"	143	54.04	1.50	696.9	695.3	692.8	2.5
I1	11-07-01	42° 27' 34.24"	085° 40' 27.44"	161	54.04	.00	696.9	696.9	693.4	3.5
I2	05-21-02	42° 27' 31.00"	085° 40' 29.28"	0	54.04	.00	696.9	696.9	689.8	7.1
I2	05-21-02	42° 27' 31.00"	085° 40' 29.46"	10	54.04	.03	696.9	696.2	690.8	5.4
I2	05-21-02	42° 27' 31.00"	085° 40' 29.57"	20	54.04	.08	696.9	695.8	692.3	3.5
I2	05-21-02	42° 27' 31.00"	085° 40' 29.71"	30	54.04	.02	696.9	695.9	690.2	5.7
I2	05-21-02	42° 27' 31.03"	085° 40' 29.86"	40	54.04	.00	696.9	696.9	690.0	6.9
I3	05-20-02	42° 27' 32.18"	085° 40' 30.94"	0	54.03	.00	696.9	696.9	690.4	6.5
I3	05-20-02	42° 27' 32.11"	085° 40' 30.86"	10	54.03	.36	696.9	695.5	691.0	4.5
I3	05-20-02	42° 27' 32.00"	085° 40' 30.79"	20	54.03	.49	696.9	694.7	690.0	4.7
I3	05-20-02	42° 27' 31.93"	085° 40' 30.72"	30	54.03	1.23	696.9	694.6	690.5	4.1
I3	05-20-02	42° 27' 31.86"	085° 40' 30.65"	40	54.03	.71	696.9	694.5	689.9	4.6
I3	05-20-02	42° 27' 31.75"	085° 40' 30.58"	50	54.03	1.00	696.9	695.1	689.8	5.3
I3	05-20-02	42° 27' 31.72"	085° 40' 30.50"	60	54.03	1.14	696.9	694.2	689.6	4.6
I3	05-20-02	42° 27' 31.61"	085° 40' 30.43"	70	54.03	1.20	696.9	693.6	688.9	4.7
I3	05-20-02	42° 27' 31.54"	085° 40' 30.32"	80	54.03	1.31	696.9	694.5	691.0	3.5
I3	05-20-02	42° 27' 31.46"	085° 40' 30.25"	90	54.03	.91	696.9	695.2	691.9	3.3

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of stream-bed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
I3	05-20-02	42° 27' 31.36"	085° 40' 30.18"	100	54.03	0.95	696.9	694.5	692.3	2.2
I3	05-20-02	42° 27' 31.28"	085° 40' 30.11"	110	54.03	1.07	696.9	695.0	692.0	3.0
I3	05-20-02	42° 27' 31.21"	085° 40' 30.00"	120	54.03	.63	696.9	695.2	692.0	3.2
I3	05-20-02	42° 27' 31.10"	085° 40' 29.93"	130	54.03	.25	696.9	695.7	692.3	3.4
I3	05-20-02	42° 27' 31.07"	085° 40' 29.86"	140	54.03	.00	696.9	696.9	690.5	6.4
I4	05-21-02	42° 27' 32.36"	085° 40' 34.28"	0	53.96	.00	696.8	696.8	692.3	4.5
I4	05-21-02	42° 27' 32.29"	085° 40' 34.18"	10	53.96	1.24	696.8	695.0	692.2	2.8
I4	05-21-02	42° 27' 32.22"	085° 40' 34.07"	20	53.96	.43	696.8	696.3	693.3	3.0
I4	05-21-02	42° 27' 32.15"	085° 40' 33.92"	35	53.96	.00	696.8	696.8	693.2	3.6
I5	05-20-02	42° 27' 33.12"	085° 40' 33.53"	0	53.97	.00	696.8	696.8	692.7	4.1
I5	05-20-02	42° 27' 33.05"	085° 40' 33.60"	10	53.97	.44	696.8	696.2	693.4	2.8
I5	05-20-02	42° 27' 32.98"	085° 40' 33.71"	20	53.97	1.08	696.8	695.4	693.7	1.7
I5	05-20-02	42° 27' 32.90"	085° 40' 33.78"	30	53.97	1.47	696.8	694.8	694.5	.3
I5	05-20-02	42° 27' 32.80"	085° 40' 33.85"	40	53.97	1.69	696.8	694.7	692.9	1.8
I5	05-20-02	42° 27' 32.76"	085° 40' 33.92"	50	53.97	1.79	696.8	695.2	692.1	3.1
I5	05-20-02	42° 27' 32.65"	085° 40' 34.03"	60	53.97	1.96	696.8	695.1	692.8	2.3
I5	05-20-02	42° 27' 32.58"	085° 40' 34.10"	70	53.97	1.97	696.8	695.7	691.3	4.4
I5	05-20-02	42° 27' 32.51"	085° 40' 34.18"	80	53.97	1.38	696.8	696.1	693.3	2.8
I5	05-20-02	42° 27' 32.40"	085° 40' 34.28"	95	53.97	.00	696.8	696.8	692.6	4.2
I6	05-21-02	42° 27' 31.14"	085° 40' 39.14"	0	53.87	.00	696.7	696.7	690.7	6.0
I6	05-21-02	42° 27' 31.10"	085° 40' 39.00"	10	53.87	.14	696.7	695.6	692.0	3.6
I6	05-21-02	42° 27' 31.07"	085° 40' 38.86"	20	53.87	1.97	696.7	694.3	691.7	2.6
I6	05-21-02	42° 27' 31.07"	085° 40' 38.75"	30	53.87	1.63	696.7	695.2	691.6	3.6
I6	05-21-02	42° 27' 31.00"	085° 40' 38.60"	40	53.87	1.81	696.7	695.8	692.0	3.8
I6	05-21-02	42° 27' 31.00"	085° 40' 38.50"	50	53.87	1.38	696.7	696.1	692.1	4.0
I6	05-21-02	42° 27' 30.96"	085° 40' 38.35"	60	53.87	.00	696.7	696.7	690.7	6.0
I7	05-20-02	42° 27' 31.86"	085° 40' 38.89"	0	53.86	.00	696.7	696.7	691.5	5.2
I7	05-20-02	42° 27' 31.75"	085° 40' 38.93"	10	53.86	.91	696.7	695.1	694.1	1.0
I7	05-20-02	42° 27' 31.64"	085° 40' 38.96"	20	53.86	1.57	696.7	695.1	693.8	1.3
I7	05-20-02	42° 27' 31.57"	085° 40' 39.00"	30	53.86	1.82	696.7	695.4	694.8	.6
I7	05-20-02	42° 27' 31.46"	085° 40' 39.04"	40	53.86	1.63	696.7	695.8	694.8	1.0
I7	05-20-02	42° 27' 31.39"	085° 40' 39.04"	50	53.86	.90	696.7	695.7	692.3	3.4
I7	05-20-02	42° 27' 31.28"	085° 40' 39.04"	60	53.86	.00	696.7	696.5	696.3	.2
I7	05-20-02	42° 27' 31.18"	085° 40' 39.07"	70	53.86	.00	696.7	696.7	690.5	6.2

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of stream-bed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
I8	05-21-02	42° 27' 29.77"	085° 40' 50.66"	0	53.69	0.00	696.5	696.4	688.4	8.0
I8	05-21-02	42° 27' 29.74"	085° 40' 50.81"	10	53.69	.07	696.5	695.5	688.1	7.4
I8	05-21-02	42° 27' 29.74"	085° 40' 50.92"	20	53.69	.20	696.5	695.3	688.2	7.1
I8	05-21-02	42° 27' 29.70"	085° 40' 51.06"	30	53.69	.75	696.5	694.7	689.1	5.6
I8	05-21-02	42° 27' 29.70"	085° 40' 51.20"	40	53.69	.76	696.5	694.8	688.9	5.9
I8	05-21-02	42° 27' 29.66"	085° 40' 51.31"	50	53.69	.89	696.5	694.5	688.2	6.3
I8	05-21-02	42° 27' 29.66"	085° 40' 51.46"	60	53.69	.86	696.5	694.4	688.9	5.5
I8	05-21-02	42° 27' 29.63"	085° 40' 51.56"	70	53.69	.79	696.5	694.5	689.0	5.5
I8	05-21-02	42° 27' 29.63"	085° 40' 51.71"	80	53.69	.65	696.5	694.1	689.3	4.8
I8	05-21-02	42° 27' 29.59"	085° 40' 51.85"	90	53.69	.10	696.5	695.1	690.4	4.7
I8	05-21-02	42° 27' 29.56"	085° 40' 52.00"	103	53.69	.00	696.5	696.5	691.5	5.0
I9	05-20-02	42° 27' 31.10"	085° 40' 50.41"	0	53.69	.00	696.5	696.1	687.5	8.6
I9	05-20-02	42° 27' 31.00"	085° 40' 50.41"	10	53.69	.16	696.5	695.6	688.6	7.0
I9	05-20-02	42° 27' 30.89"	085° 40' 50.41"	20	53.69	.43	696.5	696.0	687.0	9.0
I9	05-20-02	42° 27' 30.82"	085° 40' 50.41"	30	53.69	1.11	696.5	695.9	689.1	6.8
I9	05-20-02	42° 27' 30.71"	085° 40' 50.45"	40	53.69	1.36	696.5	695.6	688.5	7.1
I9	05-20-02	42° 27' 30.64"	085° 40' 50.45"	50	53.69	1.36	696.5	695.5	688.1	7.4
I9	05-20-02	42° 27' 30.53"	085° 40' 50.48"	60	53.69	1.35	696.5	695.4	689.2	6.2
I9	05-20-02	42° 27' 30.42"	085° 40' 50.45"	70	53.69	1.17	696.5	695.2	688.9	6.3
I9	05-20-02	42° 27' 30.35"	085° 40' 50.48"	80	53.69	.72	696.5	695.0	688.4	6.6
I9	05-20-02	42° 27' 30.24"	085° 40' 50.48"	90	53.69	.19	696.5	695.0	688.1	6.9
I9	05-20-02	42° 27' 30.13"	085° 40' 50.48"	100	53.69	.08	696.5	695.2	688.1	7.1
I9	05-20-02	42° 27' 29.95"	085° 40' 50.48"	115	53.69	.00	696.5	696.1	687.1	9.0
I10	11-07-01	42° 27' 31.57"	085° 40' 51.78"	0	53.66	--	696.4	696.4	686.4	10.0
I10	11-07-01	42° 27' 31.54"	085° 40' 52.07"	26	53.66	--	696.4	693.8	687.3	6.5
I10	11-07-01	42° 27' 31.50"	085° 40' 52.43"	52	53.66	--	696.4	693.8	687.3	6.5
I10	11-07-01	42° 27' 31.46"	085° 40' 52.79"	78	53.66	--	696.4	693.8	686.8	7.0
I10	11-07-01	42° 27' 31.43"	085° 40' 53.08"	104	53.66	--	696.4	694.3	686.3	8.0
I10	11-07-01	42° 27' 31.39"	085° 40' 53.44"	130	53.66	--	696.4	694.3	685.8	8.5
I10	11-07-01	42° 27' 31.36"	085° 40' 53.76"	156	53.66	--	696.4	694.8	686.3	8.5
I10	11-07-01	42° 27' 31.32"	085° 40' 54.08"	182	53.66	--	696.4	694.3	690.3	4.0
I10	11-07-01	42° 27' 31.28"	085° 40' 54.44"	208	53.66	--	696.4	694.3	691.3	3.0
I10	11-07-01	42° 27' 31.25"	085° 40' 54.77"	234	53.66	--	696.4	694.3	691.3	3.0
I10	11-07-01	42° 27' 31.21"	085° 40' 55.13"	260	53.66	--	696.4	694.3	690.8	3.5
I10	11-07-01	42° 27' 31.18"	085° 40' 55.49"	286	53.66	--	696.4	694.3	689.3	5.0

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of streambed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
I10	11-07-01	42° 27' 31.14"	085° 40' 55.81"	312	53.66	--	696.4	693.8	689.3	4.5
I10	11-07-01	42° 27' 31.10"	085° 40' 56.17"	338	53.66	--	696.4	690.8	689.3	1.5
I10	11-07-01	42° 27' 31.03"	085° 40' 56.75"	370	53.66	--	696.4	696.4	688.9	7.5
I11	05-21-02	42° 27' 29.74"	085° 40' 54.08"	0	53.65	0.00	696.5	696.5	688.7	7.8
I11	05-21-02	42° 27' 29.66"	085° 40' 54.19"	10	53.65	.28	696.5	695.7	690.1	5.6
I11	05-21-02	42° 27' 29.66"	085° 40' 54.30"	20	53.65	.53	696.5	694.6	689.1	5.5
I11	05-21-02	42° 27' 29.63"	085° 40' 54.44"	30	53.65	.74	696.5	695.0	688.6	6.4
I11	05-21-02	42° 27' 29.56"	085° 40' 54.55"	40	53.65	.64	696.5	694.6	689.4	5.2
I11	05-21-02	42° 27' 29.52"	085° 40' 54.66"	50	53.65	.00	696.5	695.9	687.9	8.0
I11	05-21-02	42° 27' 29.48"	085° 40' 54.77"	60	53.65	.00	696.5	695.5	688.4	7.1
I11	05-21-02	42° 27' 29.45"	085° 40' 54.91"	70	53.65	.14	696.5	695.4	686.4	9.0
I11	05-21-02	42° 27' 29.41"	085° 40' 55.02"	80	53.65	.29	696.5	695.2	684.2	11.0
I11	05-21-02	42° 27' 29.38"	085° 40' 55.16"	90	53.65	.11	696.5	695.5	684.3	11.2
I11	05-21-02	42° 27' 29.34"	085° 40' 55.27"	100	53.65	.00	696.5	695.9	684.8	11.1
I11	05-21-02	42° 27' 29.30"	085° 40' 55.38"	110	53.65	.00	696.5	696.4	685.4	11.0
I12	05-21-02	42° 27' 24.98"	085° 40' 47.03"	0	53.69	.00	696.6	696.5	691.6	4.9
I12	05-21-02	42° 27' 24.88"	085° 40' 47.03"	10	53.69	.09	696.6	695.6	691.0	4.6
I12	05-21-02	42° 27' 24.80"	085° 40' 47.03"	20	53.69	.50	696.6	695.2	690.7	4.5
I12	05-21-02	42° 27' 24.70"	085° 40' 46.99"	30	53.69	.60	696.6	695.0	690.3	4.7
I12	05-21-02	42° 27' 24.59"	085° 40' 46.99"	40	53.69	.45	696.6	695.2	688.2	7.0
I12	05-21-02	42° 27' 24.52"	085° 40' 46.96"	50	53.69	.31	696.6	695.6	688.8	6.8
I12	05-21-02	42° 27' 24.41"	085° 40' 46.96"	60	53.69	.26	696.6	695.6	689.9	5.7
I12	05-21-02	42° 27' 24.30"	085° 40' 46.92"	70	53.69	.00	696.6	696.5	690.0	6.5
I13	05-21-02	42° 27' 26.78"	085° 40' 45.26"	0	53.71	.00	696.6	696.5	690.5	6.0
I13	05-21-02	42° 27' 26.68"	085° 40' 45.34"	12	53.71	.00	696.6	696.0	690.0	6.0
I13	05-21-02	42° 27' 26.53"	085° 40' 45.44"	25	53.71	.00	696.6	695.9	690.5	5.4
I13	05-21-02	42° 27' 26.46"	085° 40' 45.55"	37	53.71	.20	696.6	695.9	690.2	5.7
I13	05-21-02	42° 27' 26.35"	085° 40' 45.62"	50	53.71	.36	696.6	696.0	690.0	6.0
I13	05-21-02	42° 27' 26.24"	085° 40' 45.73"	62	53.71	.56	696.6	696.0	691.2	4.8
I13	05-21-02	42° 27' 26.14"	085° 40' 45.80"	75	53.71	.67	696.6	695.9	690.4	5.5
I13	05-21-02	42° 27' 26.06"	085° 40' 45.91"	87	53.71	.50	696.6	695.7	690.3	5.4
I13	05-21-02	42° 27' 25.96"	085° 40' 46.02"	100	53.71	.63	696.6	695.5	690.0	5.5
I13	05-21-02	42° 27' 25.85"	085° 40' 46.09"	112	53.71	.67	696.6	695.1	690.3	4.8
I13	05-21-02	42° 27' 25.74"	085° 40' 46.20"	125	53.71	.79	696.6	694.9	691.7	3.2

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of stream-bed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
I13	05-21-02	42° 27' 25.63"	085° 40' 46.31"	137	53.71	0.61	696.6	695.1	691.3	3.8
I13	05-21-02	42° 27' 25.52"	085° 40' 46.38"	150	53.71	.41	696.6	695.6	691.1	4.5
I13	05-21-02	42° 27' 25.45"	085° 40' 46.49"	162	53.71	.31	696.6	695.5	690.7	4.8
I13	05-21-02	42° 27' 25.27"	085° 40' 46.63"	180	53.71	.00	696.6	696.5	690.8	5.7
I14	05-22-02	42° 27' 27.54"	085° 40' 39.22"	0	53.80	.00	696.6	696.6	692.1	4.5
I14	05-22-02	42° 27' 27.40"	085° 40' 39.14"	10	53.80	.46	696.6	695.2	693.0	2.2
I14	05-22-02	42° 27' 27.32"	085° 40' 39.14"	20	53.80	.98	696.6	695.1	692.0	3.1
I14	05-22-02	42° 27' 27.25"	085° 40' 39.11"	30	53.80	.22	696.6	695.2	691.9	3.3
I14	05-22-02	42° 27' 27.14"	085° 40' 39.04"	40	53.80	.00	696.6	696.6	691.7	4.9
I15	05-22-02	42° 27' 27.54"	085° 40' 39.97"	0	53.80	.00	696.6	696.6	692.2	4.4
I15	05-22-02	42° 27' 27.54"	085° 40' 39.83"	10	53.80	1.79	696.6	695.0	692.8	2.2
I15	05-22-02	42° 27' 27.54"	085° 40' 39.72"	20	53.80	1.73	696.6	695.2	692.6	2.6
I15	05-22-02	42° 27' 27.54"	085° 40' 39.61"	30	53.80	1.42	696.6	695.5	692.7	2.8
I15	05-22-02	42° 27' 27.54"	085° 40' 39.47"	40	53.80	1.02	696.6	695.3	692.7	2.6
I15	05-22-02	42° 27' 27.54"	085° 40' 39.32"	50	53.80	.35	696.6	695.3	693.3	2.0
I15	05-22-02	42° 27' 27.54"	085° 40' 39.22"	60	53.80	.00	696.6	696.6	693.0	3.6
I16	05-22-02	42° 27' 26.28"	085° 40' 44.00"	0	53.74	.00	696.6	696.5	690.5	6.0
I16	05-22-02	42° 27' 26.17"	085° 40' 43.97"	10	53.74	.68	696.6	696	690.0	6.0
I16	05-22-02	42° 27' 26.06"	085° 40' 43.93"	20	53.74	.76	696.6	696.4	689.3	7.1
I16	05-22-02	42° 27' 25.99"	085° 40' 43.93"	30	53.74	1.02	696.6	696.2	690.2	6.0
I16	05-22-02	42° 27' 25.88"	085° 40' 43.90"	40	53.74	1.20	696.6	695.8	690.6	5.2
I16	05-22-02	42° 27' 25.78"	085° 40' 43.90"	50	53.74	.92	696.6	695.1	691.2	3.9
I16	05-22-02	42° 27' 25.67"	085° 40' 43.90"	60	53.74	1.16	696.6	694.3	689.8	4.5
I16	05-22-02	42° 27' 25.60"	085° 40' 43.90"	70	53.74	.81	696.6	694.6	689.8	4.8
I16	05-22-02	42° 27' 25.49"	085° 40' 43.90"	80	53.74	.71	696.6	694.6	690.2	4.4
I16	05-22-02	42° 27' 25.38"	085° 40' 43.86"	90	53.74	.44	696.6	694.7	690.6	4.1
I16	05-22-02	42° 27' 25.31"	085° 40' 43.82"	100	53.74	.27	696.6	695.6	690.5	5.1
I16	05-22-02	42° 27' 25.16"	085° 40' 43.82"	115	53.74	.00	696.6	696.6	690.7	5.9
J1	05-15-02	42° 27' 35.79"	085° 41' 16.34"	0	53.33	.00	695.9	695.5	687.7	7.8
J1	05-15-02	42° 27' 35.77"	085° 41' 16.47"	10	53.33	.00	695.9	695.0	687.0	8.0
J1	05-15-02	42° 27' 35.75"	085° 41' 16.60"	20	53.33	.00	695.9	695.0	688.4	6.6
J1	05-15-02	42° 27' 35.72"	085° 41' 16.73"	30	53.33	.00	695.9	694.7	687.2	7.5
J1	05-15-02	42° 27' 35.70"	085° 41' 16.87"	40	53.33	.00	695.9	695.0	688.3	6.7

Appendix 1. Date, location, water velocity, altitude of surfaces, and total thickness of sediment at transect data points in the Otsego City impoundment on the Kalamazoo River at Otsego, Mich.--Continued

[Vertical data referenced to the North American Vertical Datum of 1988 (NAVD 88). Water surface normalized to a stage of 2.0 ft. Abbreviations: °, degrees; ', minutes; ", seconds; ft, feet; mi, miles; ft/s, feet per second; --, no data. Sediment cores denoted in bold.]

Transect No. (fig. 2a)	Date	Latitude	Longitude	Distance from right edge of water (ft)	River miles from mouth (mi)	Mean velocity (ft/s)	Altitude of water surface (ft)	Altitude of stream-bed (ft)	Altitude of base sediment (ft)	Total thickness of sediment (ft)
J1	05-15-02	42° 27' 35.68"	085° 41' 16.99"	50	53.33	0.00	695.9	694.7	687.7	7.0
J1	05-15-02	42° 27' 35.66"	085° 41' 17.12"	60	53.33	.00	695.9	694.7	688.4	6.3
J1	05-15-02	42° 27' 35.64"	085° 41' 17.24"	70	53.33	.00	695.9	695.0	688.0	7.0
J1	05-15-02	42° 27' 35.61"	085° 41' 17.37"	80	53.33	.00	695.9	694.8	689.0	5.8
J1	05-15-02	42° 27' 35.58"	085° 41' 17.57"	95	53.33	.00	695.9	695.4	689.0	6.4
J2	05-15-02	42° 27' 48.33"	085° 41' 24.17"	0	53.11	.00	695.8	695.4	686.9	8.5
J2	05-15-02	42° 27' 48.24"	085° 41' 24.23"	10	53.11	.00	695.8	695.2	686.8	8.4
J2	05-15-02	42° 27' 48.15"	085° 41' 24.28"	20	53.11	.00	695.8	695.2	687.3	7.9
J2	05-15-02	42° 27' 48.08"	085° 41' 24.32"	30	53.11	.00	695.8	695.2	685.9	9.3
J2	05-15-02	42° 27' 47.99"	085° 41' 24.37"	40	53.11	.00	695.8	695.2	685.6	9.6
J2	05-15-02	42° 27' 47.89"	085° 41' 24.41"	50	53.11	.00	695.8	695.3	685.2	10.1
J3	05-15-02	42° 27' 47.21"	085° 41' 19.61"	0	53.17	.00	695.8	695.8	687.2	8.6
J3	05-15-02	42° 27' 47.10"	085° 41' 19.66"	10	53.17	.00	695.8	695.4	686.7	8.7
J3	05-15-02	42° 27' 47.01"	085° 41' 19.70"	20	53.17	.00	695.8	694.9	685.6	9.3
J3	05-15-02	42° 27' 46.92"	085° 41' 19.75"	30	53.17	.00	695.8	694.4	686.9	7.5
J3	05-15-02	42° 27' 46.80"	085° 41' 19.80"	45	53.17	.00	695.8	695.4	687.9	7.5