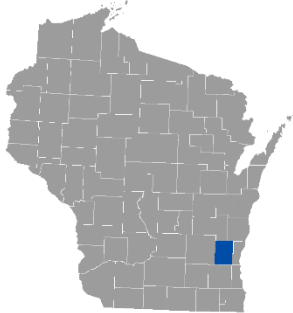


FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 2 OF 5



WASHINGTON COUNTY, WISCONSIN AND INCORPORATED AREAS

COMMUNITY NAME	COMMUNITY NUMBER
GERMANTOWN, VILLAGE OF	550472
HARTFORD, CITY OF	550473
JACKSON, VILLAGE OF	550530
KEWASKUM, VILLAGE OF	550474
MILWAUKEE, CITY OF*	550278
NEWBURG, VILLAGE OF	550056
RICHFIELD, VILLAGE OF	550518
SLINGER, VILLAGE OF	550587
WASHINGTON COUNTY, UNINCORPORATED AREAS	550471
WEST BEND, CITY OF	550475

*No Special Flood Hazard Areas Identified



FEMA

EFFECTIVE: TBD

REVISED PRELIMINARY 03/15/2021

FLOOD INSURANCE STUDY NUMBER
55131CV002C

Version Number 2.5.3.0

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Unnamed Tributary to Kewaskum Creek	203	P
Unnamed Tributary to		
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UT-1.1.1 to Rubicon River	226	P
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UT-2 to Cedar Creek	229-230	P
UT-2 to Coney River	231	P
UT-2 to Little Cedar Creek	232	P
UT-2 to Oconomowoc River	233-234	P
UT-2 to Rubicon River	235-237	P
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Published Separately

Flood Insurance Rate Map (FIRM)

SECTION 6.0 – MAPPING METHODS

6.1 Vertical and Horizontal Control

All FIS Reports and FIRMs are referenced to a specific vertical datum. The vertical datum provides a starting point against which flood, ground, and structure elevations can be referenced and compared. Until recently, the standard vertical datum used for newly created or revised FIS Reports and FIRMs was the National Geodetic Vertical Datum of 1929 (NGVD29). With the completion of the North American Vertical Datum of 1988 (NAVD88), many FIS Reports and FIRMs are now prepared using NAVD88 as the referenced vertical datum.

Flood elevations shown in this FIS Report and on the FIRMs are referenced to NAVD88. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. Some of the data used in this revision were taken from the prior effective FIS reports and FIRMs and adjusted to NAVD88. In the State of Wisconsin, there have been revisions to the NAVD88 datum in 1991, 2007 and 2012. For this update, new studies with new survey used the 2012 version of NAVD88. In addition, all streams in the county have been converted to the 2012 version of NAVD88.

The datum conversion factor from NGVD29 to NAVD88 (1991) in Washington County is - 0.2 feet ($\text{NGVD } 29 - 0.2' = \text{NAVD88 (1991)}$). The datum conversion factor from NAVD88 (1991) to NAVD88 (2007) is + 0.1' ($\text{NAVD88 (1991)} + 0.1' = \text{NAVD88 (2007)}$). The datum conversion factor from NAVD88 (2007) to NAVD88 (2012) is + 0.1' ($\text{NAVD88 (2007)} + 0.1' = \text{NAVD88 (2012)}$).

For information regarding conversion between NGVD29 and NAVD88 or other datum conversion, visit the National Geodetic Survey website at www.ngs.noaa.gov.

Temporary vertical monuments are often established during the preparation of a flood hazard analysis for the purpose of establishing local vertical control. Although these monuments are not shown on the FIRM, they may be found in the archived project documentation associated with the FIS Report and the FIRMs for this community. Interested individuals may contact FEMA to access these data.

To obtain current elevation, description, and/or location information for benchmarks in the area, please visit the NGS website at www.ngs.noaa.gov.

The datum conversion locations and values that were calculated for Washington County are provided in Table 19.

Table 19: Countywide Vertical Datum Conversion

[Not Applicable to this Flood Risk Project]

Table 20: Stream-by-Stream Vertical Datum Conversion

[Not Applicable to this Flood Risk Project]

6.2 Base Map

The FIRMs and FIS Report for this project have been produced in a digital format. The flood hazard information was converted to a Geographic Information System (GIS) format that meets FEMA's FIRM Database specifications and geographic information standards. This information is provided in a digital format so that it can be incorporated into a local GIS and be accessed more easily by the community. The FIRM Database includes most of the tabular information contained in the FIS Report in such a way that the data can be associated with pertinent spatial features. For example, the information contained in the Floodway Data table and Flood Profiles can be linked to the cross sections that are shown on the FIRMs. Additional information about the FIRM Database and its contents can be found in FEMA's *Guidelines and Standards for Flood Risk Analysis and Mapping*, www.fema.gov/media-library/resources-documents/collections/361.

Base map information shown on the FIRM was derived from the sources described in Table 21.

Table 21: Base Map Sources

Data Type	Data Provider	Data Date	Data Scale	Data Description
2005 NAIP DOP Imagery Washington County	USDA-FSA Aerial Photography Field Office	2005	1:40,000	Spatial and attribute information for location of physical features shown (USDA, 2005)
2015 High-resolution Digital Orthoimage of Washington County, Wisconsin	Wisconsin Regional Orthophotography Consortium (WROC)	2018	1:24,000	Washington County Orthoimage re-sampled to 18 inch resolution and reprojected to UTM (NAD83) Zone 16N (WDNR, 2018a)
Permanent Bench Mark Data Sheets	National Geodetic Survey	2002	1:12,000	Spatial and attribute information for permanent benchmarks (NGS, 2002)
Political Boundaries for Washington County, Wisconsin	Wisconsin Department of Natural Resources	2018	1:100,000	Spatial and attribute information for political boundaries in Washington County, Wisconsin (WDNR, 2018b)
Transportation data for Washington County and Incorporated Areas, Wisconsin	Wisconsin Department of Natural Resources	2016	1:100,000	Spatial and attribute information for transportation areas in Washington County, downloaded from OpenStreetMap (OSM) Roads. (WDNR, 2016)

Table 21: Base Map Sources (continued)

Data Type	Data Provider	Data Date	Data Scale	Data Description
USGS 7.5-Minute Series Topographic Maps/Quad Index Areas	US Geological Survey	1989	1:24,000	Spatial and attribute information for the index of USGS 7.5-Minute Series Topographic Map boundaries, which creates the S_QUAD_INDEX layer (USGS, 1989)
Wisconsin Hydrological Features	Wisconsin Department of Natural Resources	2004	1:24,000	Spatial and attribute information for hydrologic network in Washington County, WI. (WDNR, 2004)
Wisconsin PLSS sections from 1:24K landnet	Wisconsin Department of Natural Resources	1996	1:24,000	Spatial and attribute information for PLSS areas and boundaries (WDNR, 1996)
Wisconsin 2000 Roads	Wisconsin Office of Land Information Services, DOA	2000	1:100,000	Spatial and attribute information for transportation network in Washington County. (US CENSUS, 2000)

6.3 Floodplain and Floodway Delineation

The FIRM shows tints, screens, and symbols to indicate floodplains and floodways as well as the locations of selected cross sections used in the hydraulic analyses and floodway computations.

For riverine flooding sources, the mapped floodplain boundaries shown on the FIRM have been delineated using the flood elevations determined at each cross section; between cross sections, the boundaries were interpolated using the topographic elevation data described in Table 22.

In cases where the 1% and 0.2% annual chance floodplain boundaries are close together, only the 1% annual chance floodplain boundary has been shown. Small areas within the floodplain boundaries may lie above the flood elevations but cannot be shown due to limitations of the map scale and/or lack of detailed topographic data.

The floodway widths presented in this FIS Report and on the FIRM were computed for certain stream segments on the basis of equal conveyance reduction from each side of the floodplain. Floodway widths were computed at cross sections. Between cross sections, the floodway boundaries were interpolated. Table 2 indicates the flooding sources for which floodways have been determined. The results of the floodway computations for those flooding sources have been tabulated for selected cross sections and are shown in Table 23, "Floodway Data."

Table 22: Summary of Topographic Elevation Data used in Mapping

Community	Flooding Source	Source for Topographic Elevation Data			
		Description	Vertical Accuracy	Horizontal Accuracy	Citation
Germantown, Village of; Jackson, Village of; Richfield, Village of; Washington County, Unincorporated Areas; West Bend, City of	Bonniwell Creek, Cedar Creek, Cedarburg Creek, Deer Creek, Evergreen Bypass, Evergreen Creek, Frieden's Creek, Hasmer Creek, Jackson Creek, Kressen Branch, Lehner Outlet, Little Cedar Creek, Little Cedar Creek Bypass, Mueller Lake, Nature's Friends Tributary, North Branch Cedar Creek, Oconomowoc Bypass, Polk Springs Creek, Springside Creek, UT-2 to Big Cedar Lake, UT-1 to Cedar Creek, UT-1 to Evergreen Creek, UT-1 to Kressen Branch, UT-1 to Little Cedar Creek, UT-1 to Little Cedar Lake, UT-1 to Polk Springs Creek, UT-2 to Cedar Creek, UT-2 to Little Cedar Creek	2015 LiDAR Derived Digital Elevation Model for Washington County, Wisconsin.	4.1 cm RMSEz	Not provided	WDNR, 2017

Table 22: Summary of Topographic Elevation Data used in Mapping (continued)

Community	Flooding Source	Source for Topographic Elevation Data			
		Description	Vertical Accuracy	Horizontal Accuracy	Citation
Hartford, City of; Richfield, Village of; Slinger, Village of; Washington County, Unincorporated Areas	Amy Bell Creek, Ashippun River, Ashippun River – Overland Flowpath, Ashippun River Tributaries 2, 2.1, 2.2, 3, 4, and 5, Bark River and Tributaries 1 and 1.1, Butler Creek Tributaries 1 and 2, Coney River (downstream of CTH E), Coney River – Overland Flowpath, East Branch Rock River, Hubertus Ditch No. 1, Lake Five, Kohlsville River, Kohlsville River – Park Route, Little Oconomowoc River, Mason Creek, Mason Creek Tributary 1, Oconomowoc River, Putter Creek, Rubicon River and all unnamed tributaries, Rubicon River Overland Flowpath, Rubicon River Tributaries 1 and 2, Scenic Brook, Unnamed Tributary to Ashippun River, UT-1 to Oconomowoc River, and all Zone A studies within HUC 07090001	DEM based on three terrain sources provided by Washington County: 1) 2007 LiDAR data where available, 2) 2005 digital terrain model, and 3) 2003 digital terrain model in some areas	Not provided	Not provided	WDNR, 2007a

Table 22: Summary of Topographic Elevation Data used in Mapping (*continued*)

Community	Flooding Source	Source for Topographic Elevation Data			
		Description	Vertical Accuracy	Horizontal Accuracy	Citation
Richfield, Village of; Slinger, Village of; Washington County, Unincorporated Areas	Coney River (upstream of County Highway E), Flynn Creek, UT-1 to Coney River, UT-1 to Coney River Overflow, UT-1 to Coney River Overflow West, UT-2 to Coney River, and UT-2 to Oconomowoc River	2003 Digital Terrain Model	Not provided	Not provided	SEWRPC, 2003
Richfield, Village of; Washington County, Unincorporated Areas; West Bend, City of	Bolton Brook, Marsh Creek, portions of Milwaukee River, Myra Creek, North Branch Milwaukee River, Silver Creek, Silverbrook Creek, Stony Creek, and Washington Creek	2005 Digital Topographic Data	Not provided	Not provided	CDM, 2005

Table 22: Summary of Topographic Elevation Data used in Mapping (*continued*)

Community	Flooding Source	Source for Topographic Elevation Data			
		Description	Vertical Accuracy	Horizontal Accuracy	Citation
Kewaskum, Village of; Washington County, Unincorporated Areas; West Bend, City of	Edgewood Creek, Edgewood Overflow Channel, Kettleview Creek, Kewaskum Creek, Kewaskum Overflow Channel, Knights Creek, Milwaukee River, North Creek, Quaas Creek, Unnamed Tributary to Kewaskum Creek, and Wingate Creek	2000 Digital Base Map Information	Not provided	Not provided	SEWRPC, 2000

BFEs shown at cross sections on the FIRM represent the 1% annual chance water surface elevations shown on the Flood Profiles and in the Floodway Data tables in the FIS Report.

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AMY BELL CREEK									
A	114 ¹	307	353	0.5	0	976.1	974.2 ³	974.2	0.0
B	606 ¹	416	276	0.6	0	976.1	974.3 ³	974.3	0.0
C	1,489 ¹	279	285	0.6	0	976.1	975.3 ³	975.3	0.0
D	2,082 ¹	566	1,009	0.2	0	976.1	975.4 ³	975.4	0.0
E	3,096 ¹	567	1,541	0.1	0	976.1	975.4 ³	975.4	0.0
ASHIPPUN RIVER									
A	694 ²	1,118	1,574	0.2	0	953.7	953.7	953.7	0.0
B	1,744 ²	172	178	1.8	0	954.4	954.4	954.4	0.0
C	2,725 ²	103	119	2.7	0	956.2	956.2	956.2	0.0
D	3,798 ²	162	156	2.1	0	958.9	958.9	958.9	0.0
E	4,941 ²	180	207	1.6	0	960.9	960.9	960.9	0.0
F	6,229 ²	123	174	1.8	0	962.5	962.5	962.5	0.0
G	8,028 ²	79	105	3.1	0	966.3	966.3	966.3	0.0
H	8,367 ²	161	248	1.3	0	967.2	967.2	967.2	0.0
I	10,553 ²	251	342	0.9	0	968.5	968.5	968.5	0.0
J	12,638 ²	223	314	0.9	0	969.4	969.4	969.4	0.0
K	14,266 ²	207	247	1.2	0	970.7	970.7	970.7	0.0
L	15,888 ²	630	880	0.3	0	971.4	971.4	971.4	0.0
M	17,749 ²	201	196	1.5	0	971.6	971.6	971.6	0.0
N	17,929 ²	95	225	1.3	0	972.0	972.0	972.0	0.0
O	18,083 ²	270	613	0.5	0	972.5	972.5	972.5	0.0
P	20,233 ²	391	764	0.4	0	972.6	972.6	972.6	0.0
Q	20,571 ²	358	961	0.3	0	974.1	974.1	974.1	0.0
R	21,357 ²	2,086	26,002	0.0	0	974.1	974.1	974.1	0.0
S	21,590 ²	3,927	125,753	0.0	0	974.1	974.1	974.1	0.0

¹FEET ABOVE MOUTH AT BARK LAKE, ²FEET ABOVE COUNTY BOUNDARY, ³ELEVATION COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM BARK RIVER

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
ASHIPPUN RIVER (CONTINUED)									
T	26,025	339	557	1.1	0	974.4	974.4	974.4	0.0
U	28,990	871	851	0.7	0	975.0	975.0	975.0	0.0
V	29,818	443	347	1.7	0	975.5	975.5	975.5	0.0
W	31,628	362	518	1.2	0	977.7	977.7	977.7	0.0
X	33,913	544	598	0.9	0	979.3	979.3	979.3	0.0
Y	34,830	273	388	1.4	0	981.0	981.0	981.0	0.0
Z	35,359	331	470	1.2	0	981.7	981.7	981.7	0.0
AA	36,639	267	428	1.3	0	982.4	982.4	982.4	0.0
AB	39,346	235	359	1.6	0	985.4	985.4	985.4	0.0
AC	39,749	215	826	0.7	0	987.5	987.5	987.5	0.0
AD	41,014	324	676	0.8	0	987.6	987.6	987.6	0.0
AE	42,172	521	851	0.6	0	988.3	988.3	988.3	0.0
AF	42,634	390	1,256	0.4	0	990.8	990.8	990.8	0.0
AG	44,857	410	852	0.6	0	990.9	990.9	990.9	0.0
AH	46,801	1,395	2,130	0.2	0	991.2	991.2	991.2	0.0
AI	47,450	865	1,604	0.2	0	991.2	991.2	991.2	0.0
AJ	48,215	402	455	0.8	0	991.9	991.9	991.9	0.0
AK	49,453	161	241	1.5	0	993.8	993.8	993.8	0.0
AL	49,727	400	1,028	0.4	0	995.7	995.7	995.7	0.0
AM	53,687	1,340	3,439	0.1	0	995.8	995.8	995.8	0.0
AN	54,675	119	148	2.0	0	995.8	995.8	995.8	0.0
AO	55,838	74	149	1.9	0	999.4	999.4	999.4	0.0
AP	56,478	289	229	1.3	0	1,000.0	1,000.0	1,000.0	0.0
AQ	56,751	1,059	3,256	0.1	0	1,003.4	1,003.4	1,003.4	0.0
AR	59,421	559	400	0.4	0	1,003.4	1,003.4	1,003.4	0.0

¹FEET ABOVE COUNTY BOUNDARY

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

ASHIPPUN RIVER

1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)									
FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
ASHIPPUN RIVER (CONTINUED)									
AS	60,122 ¹	25	54	3.2	0	1,005.8	1,005.8	1,005.8	0.0
AT	60,917 ¹	179	146	1.2	0	1,007.1	1,007.1	1,007.1	0.0
AU	62,303 ¹	560	276	0.6	0	1,008.0	1,008.0	1,008.0	0.0
AV	62,925 ¹	74	66	2.6	0	1,010.8	1,010.8	1,010.8	0.0
AW	64,132 ¹	292	135	1.1	0	1,012.2	1,012.2	1,012.2	0.0
AX	64,827 ¹	212	82	1.8	0	1,017.8	1,017.8	1,017.8	0.0
AY	65,266 ¹	250	189	0.8	0	1,020.4	1,020.4	1,020.4	0.0
AZ	65,923 ¹	145	77	1.9	0	1,023.8	1,023.8	1,023.8	0.0
BA	66,083 ¹	100	68	2.2	0	1,025.6	1,025.6	1,025.6	0.0
BB	66,437 ¹	272	288	0.5	0	1,026.2	1,026.2	1,026.2	0.0
ASHIPPUN RIVER - OVERLAND FLOWPATH									
A	468 ²	366 ³	78	0.4	0	991.7	991.7	991.7	0.0
B	653 ²	454	49	0.6	0	992.3	992.3	992.3	0.0
C	1,427 ²	422 ³	170	0.2	0	992.5	992.5	992.5	0.0
D	2,361 ²	95	26	1.0	0	995.6	995.6	995.6	0.0
E	2,650 ²	335	463	0.1	0	995.7	995.7	995.7	0.0
¹ FEET ABOVE COUNTY BOUNDARY, ² FEET ABOVE CONVERGENCE WITH UNNAMED TRIBUTARY TO ASHIPUN RIVER ³ TOP WIDTH REFLECTS NUMEROUS SMALL ISLANDS THAT COULD NOT BE SHOWN AT MAP SCALE									
TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA						
	WASHINGTON COUNTY, WI AND INCORPORATED AREAS		ASHIPPUN RIVER - ASHIPUN RIVER - OVERLAND FLOWPATH						

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
ASHIPPUN RIVER TRIBUTARY 2									
A	540 ¹	1,080	1,256	0.3	0	953.7	952.9 ³	952.9	0.0
B	2,211 ¹	44	117	3.3	0	953.7	953.0 ³	953.0	0.0
C	3,075 ¹	590	520	0.7	0	954.0	954.0	954.0	0.0
D	5,508 ¹	1,480	1,378	0.3	0	955.0	955.0	955.0	0.0
E	7,196 ¹	154	102	1.5	0	955.7	955.7	955.7	0.0
F	8,015 ¹	99	126	1.2	0	957.6	957.6	957.6	0.0
G	9,552 ¹	100	102	0.9	0	960.1	960.1	960.1	0.0
H	10,671 ¹	432	377	0.3	0	960.4	960.4	960.4	0.0
I	11,239 ¹	77	36	2.6	0	963.1	963.1	963.1	0.0
J	11,509 ¹	24	28	3.4	0	965.7	965.7	965.7	0.0
K	11,746 ¹	88	136	0.7	0	968.1	968.1	968.1	0.0
L	13,246 ¹	24	25	4.4	0	968.3	968.3	968.3	0.0
ASHIPPUN RIVER TRIBUTARY 2.1									
A	174 ²	923	823	0.3	0	955.1	955.1	955.1	0.0
B	1,386 ²	208	235	1.2	0	957.2	957.2	957.2	0.0
C	2,562 ²	112	139	1.9	0	961.6	961.6	961.6	0.0
D	3,455 ²	89	71	3.7	0	965.6	965.6	965.6	0.0
E	3,909 ²	119	81	3.2	0	966.5	966.5	966.5	0.0
F	4,490 ²	130	143	0.2	0	967.9	967.9	967.9	0.0
G	5,147 ²	160	630	0.1	0	967.9	967.9	967.9	0.0
¹ FEET ABOVE CONFLUENCE WITH ASHIPUN RIVER, ² FEET ABOVE CONFLUENCE WITH ASHIPUN RIVER TRIBUTARY 2 ³ ELEVATION COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM ASHIPUN RIVER									
TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA						
	WASHINGTON COUNTY, WI AND INCORPORATED AREAS		ASHIPPUN RIVER TRIBUTARY 2 - ASHIPUN RIVER TRIBUTARY 2.1						

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
ASHIPPUN RIVER TRIBUTARY 2.2									
A	68 ¹	44	42	1.0	0	960.0	960.0	960.0	0.0
B	862 ¹	16	21	1.9	0	961.2	961.2	961.2	0.0
C	1,383 ¹	10	18	2.2	0	962.4	962.4	962.4	0.0
D	2,459 ¹	14	16	1.2	0	963.7	963.7	963.7	0.0
E	3,866 ¹	16	17	1.2	0	964.3	964.3	964.3	0.0
F	4,346 ¹	10	9	2.3	0	965.3	965.3	965.3	0.0
ASHIPPUN RIVER TRIBUTARY 3									
A	539 ²	168	191	1.8	0	981.1	981.1	981.1	0.0
B	1,025 ²	176	151	2.3	0	983.1	983.1	983.1	0.0
ASHIPPUN RIVER TRIBUTARY 4									
A	150 ²	763	1,387	0.0	0	995.8	995.3 ³	995.3	0.0
B	1,389 ²	308	432	0.1	0	995.8	995.3 ³	995.3	0.0
C	1,713 ²	30	24	2.5	0	995.8	995.8	995.8	0.0
D	2,148 ²	12	22	2.7	0	998.8	998.8	998.8	0.0
E	3,021 ²	187	51	1.2	0	1,001.2	1,001.2	1,001.2	0.0
F	3,408 ²	145	47	1.3	0	1,004.3	1,004.3	1,004.3	0.0
G	3,760 ²	55	45	1.4	0	1,008.8	1,008.8	1,008.8	0.0
H	3,968 ²	90	119	1.6	0	1,009.2	1,009.2	1,009.2	0.0
I	4,143 ²	71	58	3.3	0	1,012.7	1,012.7	1,012.7	0.0
¹ FEET ABOVE CONFLUENCE WITH ASHIPUN RIVER TRIBUTARY 2, ² FEET ABOVE CONFLUENCE WITH ASHIPUN RIVER ³ ELEVATION COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM ASHIPUN RIVER									
TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA						
	WASHINGTON COUNTY, WI AND INCORPORATED AREAS		ASHIPPUN RIVER TRIBUTARY 2.2 - ASHIPUN RIVER TRIBUTARY 3 ASHIPPUN RIVER TRIBUTARY 4						

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
ASHIPPUN RIVER TRIBUTARY 5									
A	39 ¹	445	1,102	0.1	0	1,003.4	1,003.2 ³	1,003.2	0.0
B	581 ¹	13	16	3.4	0	1,003.6	1,003.6	1,003.6	0.0
C	874 ¹	89	58	1.0	0	1,004.7	1,004.7	1,004.7	0.0
D	1,257 ¹	31	22	2.5	0	1,007.6	1,007.6	1,007.6	0.0
BARK RIVER									
A	354,857 ²	93	131	1.1	0	968.9	968.9	968.9	0.0
B	355,954 ²	621	880	0.1	0	969.2	969.2	969.2	0.0
C	356,976 ²	621	615	0.2	0	969.3	969.3	969.3	0.0
D	357,853 ²	260	315	0.6	0	969.5	969.5	969.5	0.0
E	358,675 ²	768	456	0.4	0	970.1	970.1	970.1	0.0
F	360,034 ²	1,325	720	0.1	0	970.5	970.5	970.5	0.0
G	360,929 ²	214	129	0.8	0	970.7	970.7	970.7	0.0
H	361,859 ²	423	676	0.3	0	971.1	971.1	971.1	0.0
I	362,568 ²	212	132	1.0	0	971.3	971.3	971.3	0.0
J	363,149 ²	18	309	1.6	0	973.8	973.8	973.8	0.0
K	363,686 ²	470	1,157	0.1	0	975.2	975.2	975.2	0.0
L	364,632 ²	187	467	0.2	0	975.2	975.2	975.2	0.0
M	365,290 ²	165	261	0.4	0	975.7	975.7	975.7	0.0
N	366,028 ²	240	372	0.3	0	976.0	976.0	976.0	0.0
O	366,979 ²	314	638	0.2	0	976.0	976.0	976.0	0.0
P	367,359 ²	437	1,083	0.1	0	976.0	976.0	976.0	0.0
Q	367,828 ²	203	1,601	0.1	0	976.0	976.0	976.0	0.0
R	368,338 ²	278	1,321	0.1	0	976.1	976.1	976.1	0.0
S	368,878 ²	788	10,565	0.0	0	976.1	976.1	976.1	0.0

¹FEET ABOVE CONFLUENCE WITH ASHIPUN RIVER, ²FEET ABOVE CONFLUENCE WITH ROCK RIVER

³ELEVATION COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM ASHIPUN RIVER

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

ASHIPPUN RIVER TRIBUTARY 5 - BARK RIVER

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BARK RIVER (CONTINUED)									
T	370,666	688	14,916	0.0	0	976.1	976.1	976.1	0.0
U	372,977	1,192	3,114	0.1	0	976.1	976.1	976.1	0.0
V	373,554	1,760	5,580	0.0	0	976.1	976.1	976.1	0.0
W	374,437	2,027	3,219	0.0	0	976.1	976.1	976.1	0.0
X	376,830	526	292	0.6	0	977.4	977.4	977.4	0.0
Y	378,186	154	367	1.8	0	982.8	982.8	982.8	0.0
Z	378,740	169	106	1.1	0	986.4	986.4	986.4	0.0
AA	379,092	51	39	3.0	0	992.1	992.1	992.1	0.0
AB	379,216	31	30	3.9	0	994.9	994.9	994.9	0.0
AC	379,298	59	56	2.1	0	997.0	997.0	997.0	0.0
AD	379,365	35	26	4.5	0	997.0	997.0	997.0	0.0
AE	379,541	129	190	0.6	0	999.8	999.8	999.8	0.0
AF	379,665	22	31	3.8	0	1,001.3	1,001.3	1,001.3	0.0
AG	379,931	39	47	2.5	0	1,005.1	1,005.1	1,005.1	0.0
AH	380,422	60	205	0.9	0	1,010.5	1,010.5	1,010.5	0.0
AI	380,955	530	1,787	0.1	0	1,012.3	1,012.3	1,012.3	0.0
AJ	381,360	371	884	0.2	0	1,012.3	1,012.3	1,012.3	0.0
AK	382,266	240	414	0.3	0	1,014.1	1,014.1	1,014.1	0.0
AL	382,778	196	113	1.0	0	1,015.4	1,015.4	1,015.4	0.0
AM	383,199	173	112	1.1	0	1,016.4	1,016.4	1,016.4	0.0

¹FEET ABOVE CONFLUENCE WITH ROCK RIVER

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

BARK RIVER

FLOODING SOURCE									
FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BARK RIVER TRIBUTARY 1									
A	88 ¹	45	122	0.9	0	973.6	973.6	973.6	0.0
B	710 ¹	113	166	0.6	0	973.7	973.7	973.7	0.0
C	930 ¹	184	839	0.1	0	974.6	974.6	974.6	0.0
D	1,138 ¹	183	378	0.3	0	974.6	974.6	974.6	0.0
BARK RIVER TRIBUTARY 1.1									
A	48 ²	142	160	0.1	0	973.7	973.7	973.7	0.0
B	330 ²	122	385	0.0	0	974.7	974.7	974.7	0.0
C	1,036 ²	241	766	0.0	0	974.7	974.7	974.7	0.0
BONNIWELL CREEK									
A	1,240 ³	45	257	2.5	0	866.6	866.6	866.6	0.0
B	1,494 ³	103	370	1.8	0	867.7	867.7	867.7	0.0
C	2,777 ³	137	274	2.1	0	875.1	875.1	875.1	0.0
D	3,022 ³	75	211	2.7	0	879.8	879.8	879.8	0.0
E	3,539 ³	337	402	1.4	0	881.2	881.2	881.2	0.0
F	4,413 ³	186	183	3.1	0	888.8	888.8	888.8	0.0
G	4,583 ³	316	1,301	0.4	0	894.5	894.5	894.5	0.0
H	5,464 ³	102	124	2.7	0	894.9	894.9	894.9	0.0
I	6,622 ³	175	161	2.0	0	901.8	901.8	901.8	0.0
J	7,635 ³	51	118	2.8	0	904.8	904.8	904.8	0.0
K	7,806 ³	51	284	1.2	0	908.3	908.3	908.3	0.0
L	8,276 ³	482	1,542	0.2	0	908.4	908.4	908.4	0.0
¹ FEET ABOVE WASHINGTON / WAUKESHA COUNTY BOUNDARY, ² FEET ABOVE CONFLUENCE WITH BARK RIVER TRIBUTARY 1 ³ FEET ABOVE CONFLUENCE WITH LITTLE CEDAR CREEK									
TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA						
	WASHINGTON COUNTY, WI AND INCORPORATED AREAS		BARK RIVER TRIBUTARY 1 - BARK RIVER TRIBUTARY 1.1 - BONNIWELL CREEK						

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BUTLER CREEK TRIBUTARY 1									
A	476 ¹	14	28	6.7	0	1,014.2	1,014.2	1,014.2	0.0
B	1,059 ¹	87	56	3.3	0	1,022.1	1,022.1	1,022.1	0.0
BUTLER CREEK TRIBUTARY 2									
A	0 ¹	40	87	2.1	0	997.0	997.0	997.0	0.0
B	306 ¹	30	31	5.9	0	997.7	997.7	997.7	0.0
C	766 ¹	76	64	2.9	0	1,001.9	1,001.9	1,001.9	0.0
CEDAR CREEK									
A	703 ²	785	4,319	1.2	0	836.8	836.8	836.8	0.0
B	2,430 ²	708	3,457	1.5	0	837.2	837.2	837.2	0.0
C	4,615 ²	944	5,773	0.9	0	838.8	838.8	838.8	0.0
D	5,629 ²	383	2,477	2.0	0	839.1	839.1	839.1	0.0
E	5,755 ²	556	3,274	1.5	0	840.2	840.2	840.2	0.0
F	8,002 ²	2,884	17,324	0.3	0	840.4	840.4	840.4	0.0
G	10,172 ²	3,817	22,393	0.2	0	840.5	840.5	840.5	0.0
H	12,478 ²	5,397	26,484	0.2	0	840.5	840.5	840.5	0.0
I	17,233 ²	5,000	28,436	0.2	0	840.5	840.5	840.5	0.0
J	19,614 ²	5,778	33,917	0.2	0	840.5	840.5	840.5	0.0
K	22,305 ²	3,368	16,008	0.4	0	840.6	840.6	840.6	0.0
L	22,408 ²	3,498	15,972	0.4	0	841.6	841.6	841.6	0.0
M	23,356 ²	6,260	23,140	0.3	0	841.7	841.7	841.7	0.0
N	27,855 ²	2,268	7,048	0.7	0	842.0	842.0	842.0	0.0
O	29,740 ²	2,105	7,336	0.6	0	842.5	842.5	842.5	0.0

¹FEET ABOVE WASHINGTON / DODGE COUNTY BOUNDARY, ²FEET ABOVE OZAUKEE / WASHINGTON COUNTY BOUNDARY

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

BUTLER CREEK TRIBUTARY 1 - BUTLER CREEK TRIBUTARY 2 - CEDAR CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CEDAR CREEK (CONTINUED)									
P	29,849	2,458	11,103	0.4	0	843.6	843.6	843.6	0.0
Q	30,693	1,675	6,501	0.7	0	843.6	843.6	843.6	0.0
R	32,169	418	2,153	2.2	0	844.0	844.0	844.0	0.0
S	33,275	736	2,794	1.7	0	844.9	844.9	844.9	0.0
T	33,779	712	3,056	1.5	0	845.8	845.8	845.8	0.0
U	34,501	609	3,313	1.4	0	846.2	846.2	846.2	0.0
V	34,826	669	3,547	1.3	0	846.5	846.5	846.5	0.0
W	35,495	658	3,566	1.3	0	846.8	846.8	846.8	0.0
X	36,157	618	3,634	1.3	0	847.1	847.1	847.1	0.0
Y	37,110	775	2,844	1.6	0	847.4	847.4	847.4	0.0
Z	37,245	784	5,072	0.9	0	848.4	848.4	848.4	0.0
AA	38,168	336	2,305	2.0	0	848.6	848.6	848.6	0.0
AB	38,469	186	1,537	3.0	0	849.3	849.3	849.3	0.0
AC	40,188	921	5,655	0.3	0	849.9	849.9	849.9	0.0
AD	41,350	612	2,567	0.7	0	850.0	850.0	850.0	0.0
AE	42,812	290	1,476	0.8	0	850.1	850.1	850.1	0.0
AF	42,874	334	1,191	0.9	0	850.5	850.5	850.5	0.0
AG	43,440	589	1,293	0.9	0	850.7	850.7	850.7	0.0
AH	43,491	525	1,304	0.9	0	850.9	850.9	850.9	0.0
AI	44,722	254	170	3.2	0	853.4	853.4	853.4	0.0
AJ	45,571	209	244	2.2	0	856.8	856.8	856.8	0.0
AK	46,729	196	280	1.9	0	859.6	859.6	859.6	0.0
AL	47,676	259	216	2.5	0	867.7	867.7	867.7	0.0
AM	48,427	71	101	5.3	0	874.1	874.1	874.1	0.0
AN	48,557	77	238	2.3	0	876.2	876.2	876.2	0.0

¹FEET ABOVE OZAUKEE / WASHINGTON COUNTY BOUNDARY

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

CEDAR CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CEDAR CREEK (CONTINUED)									
AO	48,854	379	272	2.0	0	876.7	876.7	876.7	0.0
AP	49,675	25	68	7.9	0	883.4	883.4	883.4	0.0
AQ	50,187	134	419	1.3	0	888.0	888.0	888.0	0.0
AR	51,032	70	89	6.0	0	888.3	888.3	888.3	0.0
AS	51,275	56	164	3.3	0	890.3	890.3	890.3	0.0
AT	51,498	46	132	4.1	0	892.3	892.3	892.3	0.0
AU	52,122	55	80	6.7	0	896.0	896.0	896.0	0.0
AV	52,450	102	105	5.1	0	899.5	899.5	899.5	0.0
AW	52,776	56	152	3.5	0	913.5	913.5	913.5	0.0
AX	53,409	42	136	3.9	0	914.6	914.6	914.6	0.0
AY	54,310	122	182	3.0	0	916.0	916.0	916.0	0.0
AZ	54,365	255	831	0.7	0	918.9	918.9	918.9	0.0
BA	55,741	250	520	1.0	0	919.0	919.0	919.0	0.0
BB	55,784	198	532	1.0	0	919.8	919.8	919.8	0.0
BC	56,713	120	93	3.1	0	924.0	924.0	924.0	0.0
BD	56,750	142	182	1.6	0	925.2	925.2	925.2	0.0
BE	57,089	28	45	6.4	0	927.8	927.8	927.8	0.0
BF	57,642	73	53	5.3	0	934.5	934.5	934.5	0.0
BG	58,598	52	61	4.7	0	941.5	941.5	941.5	0.0
BH	59,113	59	70	4.1	0	946.1	946.1	946.1	0.0
BI	59,927	24	41	6.9	0	955.0	955.0	955.0	0.0
BJ	60,015	80	196	1.5	0	957.5	957.5	957.5	0.0
BK	60,543	32	43	6.7	0	965.3	965.3	965.3	0.0
BL	61,101	39	67	4.3	0	968.0	968.0	968.0	0.0
BM	61,570	173	100	2.8	0	970.4	970.4	970.4	0.0

¹FEET ABOVE OZAUKEE / WASHINGTON COUNTY BOUNDARY

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

CEDAR CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CEDAR CREEK (CONTINUED)									
BN	61,978	123	130	2.2	0	972.5	972.5	972.5	0.0
BO	62,382	173	86	3.3	0	976.5	976.5	976.5	0.0
BP	62,675	28	92	3.1	0	980.1	980.1	980.1	0.0
BQ	63,430	112	153	1.9	0	981.6	981.6	981.6	0.0
BR	63,984	54	61	4.7	0	984.5	984.5	984.5	0.0
BS	64,375	132	123	2.3	0	987.2	987.2	987.2	0.0
BT	64,834	35	52	5.5	0	992.2	992.2	992.2	0.0
BU	64,944	48	158	1.8	0	995.0	995.0	995.0	0.0
BV	65,278	19	44	6.5	0	1,004.6	1,004.6	1,004.6	0.0
BW	65,527	327	1,311	0.2	0	1,005.6	1,005.6	1,005.6	0.0
BX	66,343	336	461	0.6	0	1,005.6	1,005.6	1,005.6	0.0
BY	66,973	116	124	2.2	0	1,005.8	1,005.8	1,005.8	0.0
BZ	67,639	115	89	3.0	0	1,008.7	1,008.7	1,008.7	0.0
CA	68,079	102	113	2.4	0	1,010.3	1,010.3	1,010.3	0.0
CB	68,435	31	82	3.3	0	1,011.6	1,011.6	1,011.6	0.0
CC	69,477	90	150	1.7	0	1,012.9	1,012.9	1,012.9	0.0
CD	69,960	73	114	2.2	0	1,013.3	1,013.3	1,013.3	0.0
CE	71,072	393	698	0.4	0	1,013.7	1,013.7	1,013.7	0.0
CF	72,528	537	780	0.3	0	1,013.8	1,013.8	1,013.8	0.0
CG	73,625	189	295	0.9	0	1,013.9	1,013.9	1,013.9	0.0
CH	74,835	37	101	2.5	0	1,014.4	1,014.4	1,014.4	0.0
CI	74,897	51	153	1.6	0	1,014.8	1,014.8	1,014.8	0.0
CJ	75,615	151	309	0.8	0	1,015.0	1,015.0	1,015.0	0.0
CK	76,739	305	545	0.5	0	1,015.1	1,015.1	1,015.1	0.0
CL	77,798	217	375	0.7	0	1,015.2	1,015.2	1,015.2	0.0

¹FEET ABOVE OZAUKEE / WASHINGTON COUNTY BOUNDARY

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

CEDAR CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CEDAR CREEK (CONTINUED)									
CM	78,568	167	225	1.1	0	1,016.1	1,016.1	1,016.1	0.0
CN	79,360	596	1,975	0.1	0	1,016.2	1,016.2	1,016.2	0.0
CO	82,780	1,516	50,284	0.0	0	1,016.2	1,016.2	1,016.2	0.0
CP	85,261	753	2,412	0.1	0	1,016.2	1,016.2	1,016.2	0.0
CQ	87,064	1,452	819	0.3	0	1,016.2	1,016.2	1,016.2	0.0
CR	88,295	1,340	482	0.4	0	1,016.3	1,016.3	1,016.3	0.0
CS	89,663	1,342	1,230	0.2	0	1,016.4	1,016.4	1,016.4	0.0
CT	90,957	191	230	0.9	0	1,016.6	1,016.6	1,016.6	0.0
CU	91,398	169	118	1.6	0	1,016.9	1,016.9	1,016.9	0.0
CV	91,869	69	127	1.5	0	1,019.7	1,019.7	1,019.7	0.0
CW	92,182	154	530	0.4	0	1,021.5	1,021.5	1,021.5	0.0
CX	92,545	73	93	2.1	0	1,021.5	1,021.5	1,021.5	0.0
CY	92,991	15	31	6.2	0	1,026.0	1,026.0	1,026.0	0.0
CZ	93,351	49	65	3.0	0	1,028.4	1,028.4	1,028.4	0.0
DA	94,295	139	128	1.5	0	1,030.2	1,030.2	1,030.2	0.0
DB	94,828	74	59	3.3	0	1,030.8	1,030.8	1,030.8	0.0
DC	94,988	336	1,185	0.2	0	1,032.7	1,032.7	1,032.7	0.0

¹FEET ABOVE OZAUKEE / WASHINGTON COUNTY BOUNDARY

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

CEDAR CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CEDARBURG CREEK									
A	5,783	571	505	1.2	0	841.2	841.2	841.2	0.0
B	6,649	70	147	4.2	0	843.0	843.0	843.0	0.0
C	7,752	332	487	1.3	0	847.4	847.4	847.4	0.0
D	8,771	283	365	1.7	0	849.1	849.1	849.1	0.0
E	8,912	300	1,052	0.6	0	851.6	851.6	851.6	0.0
F	9,635	402	1,046	0.5	0	851.7	851.7	851.7	0.0
G	10,427	424	941	0.6	0	851.9	851.9	851.9	0.0
H	10,932	323	556	1.0	0	852.0	852.0	852.0	0.0
I	11,726	342	408	1.3	0	852.8	852.8	852.8	0.0
J	13,052	437	558	1.0	0	854.2	854.2	854.2	0.0
K	13,627	164	349	1.5	0	855.0	855.0	855.0	0.0
L	13,780	160	373	1.4	0	855.8	855.8	855.8	0.0
M	14,211	372	642	0.8	0	856.1	856.1	856.1	0.0
N	14,586	298	483	1.1	0	856.6	856.6	856.6	0.0
O	14,969	260	436	1.2	0	857.0	857.0	857.0	0.0
P	15,765	567	865	0.6	0	857.7	857.7	857.7	0.0
Q	16,917	302	370	1.4	0	858.8	858.8	858.8	0.0
R	17,601	717	695	0.8	0	860.5	860.5	860.5	0.0

¹FEET ABOVE CONFLUENCE WITH CEDAR CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CONEY RIVER									
A	451	2,065	7,968	0.1	0	966.7	966.7	966.7	0.0
B	1,343	481	482	1.7	0	966.9	966.9	966.9	0.0
C	2,268	49	111	7.5	0	972.9	972.9	972.9	0.0
D	2,362	138	353	2.4	0	974.3	974.3	974.3	0.0
E	2,922	106	149	5.6	0	975.9	975.9	975.9	0.0
F	2,961	152	621	1.3	0	979.2	979.2	979.2	0.0
G	3,524	160	223	3.7	0	979.9	979.9	979.9	0.0
H	4,150	128	165	5.0	0	987.6	987.6	987.6	0.0
I	4,813	234	360	2.3	0	991.1	991.1	991.1	0.0
J	5,076	355	1,658	0.5	0	997.4	997.4	997.4	0.0
K	6,349	177	324	2.6	0	997.5	997.5	997.5	0.0
L	7,389	147	239	2.9	0	999.5	999.5	999.5	0.0
M	8,355	634	1,147	0.6	0	1,000.6	1,000.6	1,000.6	0.0
N	9,788	162	201	3.5	0	1,001.2	1,001.2	1,001.2	0.0
O	10,680	190	325	2.2	0	1,003.4	1,003.4	1,003.4	0.0
P	11,609	427	703	1.0	0	1,004.0	1,004.0	1,004.0	0.0
Q	11,906	565	2,865	0.2	0	1,005.8	1,005.8	1,005.8	0.0
R	14,839	1,333	3,795	0.2	0	1,005.9	1,005.9	1,005.9	0.0
S	17,648	405	192	1.5	0	1,006.0	1,006.0	1,006.0	0.0

¹FEET ABOVE CONFLUENCE WITH OCOMONOWOC RIVER

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

CONEY RIVER

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CONEY RIVER (CONTINUED)									
T	18,328	251	170	1.6	0	1,008.7	1,008.7	1,008.7	0.0
U	18,965	158	198	1.4	0	1,010.2	1,010.2	1,010.2	0.0
V	19,219	18	148	1.9	0	1,016.6	1,016.6	1,016.6	0.0
W	20,737	154	168	1.8	0	1,016.8	1,016.8	1,016.8	0.0
X	21,433	26	65	4.6	0	1,020.7	1,020.7	1,020.7	0.0
Y	22,348	26	83	3.6	0	1,030.2	1,030.2	1,030.2	0.0
Z	22,916	33	44	6.8	0	1,033.8	1,033.8	1,033.8	0.0
AA	23,393	44	112	2.7	0	1,035.8	1,035.8	1,035.8	0.0
AB	23,880	30	57	5.3	0	1,036.8	1,036.8	1,036.8	0.0
AC	24,101	140	292	0.9	0	1,040.1	1,040.1	1,040.1	0.0
AD	24,999	27	79	3.4	0	1,040.1	1,040.1	1,040.1	0.0
AE	25,935	505	1,759	0.2	0	1,040.6	1,040.6	1,040.6	0.0
AF	26,661	234	577	0.5	0	1,040.6	1,040.6	1,040.6	0.0
AG	26,794	195	505	0.5	0	1,042.4	1,042.4	1,042.4	0.0
AH	27,671	96	154	1.8	0	1,042.4	1,042.4	1,042.4	0.0
AI	28,204	392	897	1.1	0	1,043.3	1,043.3	1,043.3	0.0
AJ	28,865	560	610	0.6	0	1,043.5	1,043.5	1,043.5	0.0
AK	29,257	591	1,767	0.2	0	1,046.6	1,046.6	1,046.6	0.0
AL	31,009	37	87	1.3	0	1,047.2	1,047.2	1,047.2	0.0
AM	31,522	23	47	1.7	0	1,049.6	1,049.6	1,049.6	0.0
AN	31,879	20	44	1.8	0	1,050.1	1,050.1	1,050.1	0.0
AO	32,597	26	55	1.5	0	1,050.5	1,050.5	1,050.5	0.0
AP	32,902	27	41	2.0	0	1,050.8	1,050.8	1,050.8	0.0
AQ	33,637	34	68	1.2	0	1,051.5	1,051.5	1,051.5	0.0
AR	34,814	31	71	1.1	0	1,051.9	1,051.9	1,051.9	0.0

¹FEET ABOVE CONFLUENCE WITH OCONOMOWOC RIVER

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

CONEY RIVER

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CONEY RIVER (CONTINUED)									
AS	36,121 ¹	34	74	1.1	0	1,052.3	1,052.3	1,052.3	0.0
AT	37,038 ¹	1,107	2,716	0.0	0	1,052.3	1,052.3	1,052.3	0.0
AU	38,334 ¹	634	1,096	0.1	0	1,052.3	1,052.3	1,052.3	0.0
AV	39,359 ¹	671	1,806	0.0	0	1,052.3	1,052.3	1,052.3	0.0
AW	39,609 ¹	354	2,023	0.0	0	1,053.5	1,053.5	1,053.5	0.0
CONEY RIVER - OVERLAND FLOWPATH									
A	642 ²	1,048	1,439	0.0	0	1,005.9	1,005.9	1,005.9	0.0
B	2,142 ²	65	22	1.0	0	1,006.9	1,006.9	1,006.9	0.0
C	3,608 ²	325	186	0.1	0	1,007.5	1,007.5	1,007.5	0.0
D	3,782 ²	146	13	1.6	0	1,011.5	1,011.5	1,011.5	0.0
E	3,949 ²	220	857	0.0	0	1,011.6	1,011.6	1,011.6	0.0
F	4,215 ²	120	12	1.8	0	1,014.6	1,014.6	1,014.6	0.0
G	4,373 ²	112	30	0.7	0	1,016.0	1,016.0	1,016.0	0.0
H	5,083 ²	105	27	0.8	0	1,016.6	1,016.6	1,016.6	0.0
I	5,671 ²	295	323	0.1	0	1,016.6	1,016.6	1,016.6	0.0

¹FEET ABOVE CONFLUENCE WITH OCONOMOWOC RIVER, ²FEET ABOVE CONVERGENCE WITH CONEY RIVER

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
DEER CREEK									
A	1,431	252	276	1.8		842.2	842.2	842.2	0.0
B	2,446	349	423	1.2	0	845.1	845.1	845.1	0.0
C	3,520	247	337	1.5	0	847.4	847.4	847.4	0.0
D	4,748	227	324	1.5	0	851.5	851.5	851.5	0.0
E	6,006	292	481	1.0	0	852.9	852.9	852.9	0.0
F	6,667	44	95	5.2	0	854.0	854.0	854.0	0.0
G	6,733	35	127	3.9	0	855.4	855.4	855.4	0.0
H	7,936	532	1,081	0.6	0	856.5	856.5	856.5	0.0
I	9,213	362	478	1.4	0	857.6	857.6	857.6	0.0
J	9,741	302	281	2.3	0	863.1	863.1	863.1	0.0
K	9,825	265	847	0.8	0	865.5	865.5	865.5	0.0
L	10,494	347	994	0.7	0	865.6	865.6	865.6	0.0
M	12,515	426	595	0.4	0	866.0	866.0	866.0	0.0
N	13,264	399	154	1.5	0	868.0	868.0	868.0	0.0
O	13,375	107	209	0.7	0	869.3	869.3	869.3	0.0
P	13,470	145	460	0.3	0	870.7	870.7	870.7	0.0
Q	13,941	168	228	0.6	0	870.7	870.7	870.7	0.0
R	14,039	164	447	0.3	0	872.1	872.1	872.1	0.0
S	14,693	292	315	0.2	0	872.1	872.1	872.1	0.0
T	15,317	72	37	1.8	0	872.8	872.8	872.8	0.0
U	15,790	31	21	3.2	0	874.9	874.9	874.9	0.0
V	16,538	240	107	0.6	0	876.8	876.8	876.8	0.0

¹FEET ABOVE CONFLUENCE WITH NORTH BRANCH CEDAR CREEK

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

DEER CREEK

FLOODING SOURCE									
FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
EAST BRANCH ROCK RIVER									
A	212,283 ¹	1,043	3,649	0.7	0	948.0	948.0	948.0	0.0
B	213,368 ¹	1,872	6,969	0.4	0	948.7	948.7	948.7	0.0
C	216,658 ¹	238	815	3.0	0	948.8	948.8	948.8	0.0
D	216,894 ¹	130	649	3.7	0	949.6	949.6	949.6	0.0
E	217,026 ¹	375	1,446	1.7	0	950.8	950.8	950.8	0.0
F	218,343 ¹	783	2,088	1.2	0	951.1	951.1	951.1	0.0
G	219,417 ¹	666	1,931	1.3	0	951.4	951.4	951.4	0.0
H	219,712 ¹	332	1,606	1.5	0	952.6	952.6	952.6	0.0
I	220,876 ¹	938	4,355	0.6	0	952.7	952.7	952.7	0.0
J	221,667 ¹	845	3,772	0.6	0	952.7	952.7	952.7	0.0
K	221,936 ¹	930	4,761	0.5	0	954.6	954.6	954.6	0.0
EDGEWOOD CREEK									
A	69 ²	63	7	5.3	0	947.4	942.5 ³	942.5	0.0
B	132 ²	85	7	1.4	0	948.4	948.4	948.4	0.0
C	296 ²	114	16	1.6	0	949.8	949.8	949.8	0.0
D	465 ²	113	45	2.1	0	950.4	950.4	950.4	0.0
E	591 ²	103	72	1.3	0	950.7	950.7	950.7	0.0
F	2,460 ²	42	39	4.2	0	951.0	951.0	951.0	0.0
G	2,624 ²	80	87	1.9	0	954.8	954.8	954.8	0.0
H	2,862 ²	64	43	3.8	0	959.0	959.0	959.0	0.0
I	3,036 ²	51	53	3.1	0	961.8	961.8	961.8	0.0
J	3,284 ²	34	27	6.1	0	966.0	966.0	966.0	0.0
K	3,406 ²	46	41	4.0	0	968.7	968.7	968.7	0.0
L	3,564 ²	33	28	5.8	0	971.4	971.4	971.4	0.0
¹ FEET ABOVE CONFLUENCE WITH WEST BRANCH ROCK RIVER, ² FEET ABOVE CONFLUENCE WITH NORTH CREEK ³ ELEVATION COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM NORTH CREEK									
TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA						
	WASHINGTON COUNTY, WI AND INCORPORATED AREAS		EAST BRANCH ROCK RIVER - EDGEWOOD CREEK						

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
EDGEWOOD CREEK (CONTINUED)									
M	3,712 ¹	99	73	2.2	0	975.0	975.0	975.0	0.0
N	4,425 ¹	127	110	1.4	0	980.7	980.7	980.7	0.0
O	4,446 ¹	159	201	0.9	0	981.2	981.2	981.2	0.0
P	4,752 ¹	59	104	1.0	0	981.6	981.6	981.6	0.0
EDGEWOOD CREEK OVERFLOW CHANNEL									
A	523 ²	123	13	1.8	0	937.3	936.3 ³	936.3	0.0
B	676 ²	45	9	2.5	0	939.0	939.0	939.0	0.0
C	824 ²	59	12	1.9	0	940.0	940.0	940.0	0.0
D	966 ²	69	9	2.5	0	940.9	940.9	940.9	0.0
E	1,156 ²	75	12	1.9	0	943.0	943.0	943.0	0.0
F	1,373 ²	68	20	1.2	0	944.2	944.2	944.2	0.0
G	1,558 ²	61	9	2.5	0	945.4	945.4	945.4	0.0
H	1,822 ²	64	17	1.4	0	947.3	947.3	947.3	0.0
I	2,006 ²	63	14	1.7	0	948.1	948.1	948.1	0.0
J	2,128 ²	71	11	2.2	0	949.2	949.2	949.2	0.0
¹ FEET ABOVE CONFLUENCE WITH NORTH CREEK, ² FEET ABOVE CONFLUENCE WITH KEWASKUM CREEK ³ ELEVATION COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM KEWASKUM CREEK									
TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA						
	WASHINGTON COUNTY, WI AND INCORPORATED AREAS		EDGEWOOD CREEK - EDGEWOOD CREEK OVERFLOW CHANNEL						

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
EVERGREEN BYPASS									
A	58 ¹	145	64	0.4	0	946.3	946.3	946.3	0.0
B	456 ¹	226	817	0.0	0	949.6	949.6	949.6	0.0
C	622 ¹	330	601	0.0	0	949.8	949.8	949.8	0.0
EVERGREEN CREEK									
A	4,048 ²	423	568	1.9	0	844.9	844.9	844.9	0.0
B	4,511 ²	187	225	4.6	0	849.1	849.1	849.1	0.0
C	4,559 ²	205	719	1.4	0	851.6	851.6	851.6	0.0
D	4,954 ²	128	223	4.6	0	854.9	854.9	854.9	0.0
E	5,340 ²	119	240	4.3	0	858.8	858.8	858.8	0.0
F	5,678 ²	50	173	6.0	0	860.6	860.6	860.6	0.0
G	5,989 ²	405	1,541	0.7	0	863.8	863.8	863.8	0.0
H	7,168 ²	300	521	1.8	0	868.0	868.0	868.0	0.0
I	7,589 ²	307	506	1.9	0	869.5	869.5	869.5	0.0
J	7,933 ²	268	428	2.2	0	871.1	871.1	871.1	0.0
K	9,092 ²	364	653	1.4	0	874.9	874.9	874.9	0.0
L	9,758 ²	374	468	2.0	0	877.2	877.2	877.2	0.0
M	10,997 ²	300	478	2.0	0	883.7	883.7	883.7	0.0
N	12,311 ²	180	294	3.2	0	890.5	890.5	890.5	0.0
O	13,353 ²	249	489	1.9	0	896.2	896.2	896.2	0.0
P	14,282 ²	228	428	2.2	0	900.7	900.7	900.7	0.0
Q	14,833 ²	31	107	8.7	0	902.9	902.9	902.9	0.0
R	14,930 ²	59	296	3.1	0	907.8	907.8	907.8	0.0
S	15,708 ²	188	502	0.9	0	910.5	910.5	910.5	0.0
T	16,290 ²	134	309	1.4	0	910.7	910.7	910.7	0.0
U	16,350 ²	115	382	1.2	0	911.5	911.5	911.5	0.0

¹FEET ABOVE CONFLUENCE WITH EVERGREEN CREEK, ²FEET ABOVE COUNTY HIGHWAY G

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
EVERGREEN CREEK (CONTINUED)									
V	17,088	250	529	0.4	0	911.6	911.6	911.6	0.0
W	18,055	134	250	0.9	0	911.9	911.9	911.9	0.0
X	19,122	370	264	0.9	0	912.7	912.7	912.7	0.0
Y	19,456	227	398	0.6	0	914.2	914.2	914.2	0.0
Z	20,130	244	213	1.1	0	915.0	915.0	915.0	0.0
AA	20,348	119	110	2.1	0	916.5	916.5	916.5	0.0
AB	20,672	69	119	2.0	0	918.5	918.5	918.5	0.0
AC	21,872	91	86	2.7	0	924.2	924.2	924.2	0.0
AD	22,503	41	44	2.5	0	930.7	930.7	930.7	0.0
AE	22,610	144	571	0.2	0	937.1	937.1	937.1	0.0
AF	23,115	41	46	2.4	0	937.1	937.1	937.1	0.0
AG	23,607	28	33	3.3	0	941.5	941.5	941.5	0.0
AH	23,677	44	95	1.2	0	943.4	943.4	943.4	0.0
AI	24,003	69	43	2.5	0	944.9	944.9	944.9	0.0
AJ	24,437	14	16	0.8	0	948.2	948.2	948.2	0.0
AK	24,678	12	34	0.4	0	949.8	949.8	949.8	0.0
AL	25,628	36	13	2.9	0	953.8	953.8	953.8	0.0
AM	25,904	20	13	2.9	0	961.0	961.0	961.0	0.0
AN	26,270	224	264	0.2	0	961.2	961.2	961.2	0.0
AO	26,625	35	28	1.4	0	962.6	962.6	962.6	0.0
AP	27,035	211	211	0.2	0	962.8	962.8	962.8	0.0

¹FEET ABOVE COUNTY HIGHWAY G

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

EVERGREEN CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
FLYNN CREEK									
A	0.563	174	201	7.5	0	938.2	938.2	938.2	0.0
B	0.577	150	243	6.2	0	940.5	940.5	940.5	0.0
C	0.665	112	324	4.7	0	948.0	948.0	948.0	0.0
D	0.796	219	487	3.1	0	952.9	952.9	952.9	0.0
E	0.832	567	2,814	0.5	0	958.0	958.0	958.0	0.0
F	1.038	407	2,115	0.7	0	958.1	958.1	958.1	0.0
G	1.281	383	1,043	1.3	0	958.3	958.3	958.3	0.0
H	1.434	260	648	2.1	0	959.2	959.2	959.2	0.0
I	1.474	440	1,748	0.8	0	960.2	960.2	960.2	0.0
J	1.662	630	2,046	0.7	0	960.2	960.2	960.2	0.0
K	1.714	363	752	1.8	0	962.2	962.2	962.2	0.0
L	1.750	323	1,116	1.2	0	962.6	962.6	962.6	0.0
M	1.862	356	658	2.1	0	963.1	963.1	963.1	0.0
N	1.960	343	852	1.6	0	964.1	964.1	964.1	0.0
O	2.009	310	703	2.0	0	964.5	964.5	964.5	0.0
P	2.145	111	292	4.7	0	968.8	968.8	968.8	0.0
Q	2.274	129	342	4.0	0	974.9	974.9	974.9	0.0
R	2.457	206	363	3.3	0	983.0	983.0	983.0	0.0
S	2.564	188	342	3.5	0	987.0	987.0	987.0	0.0
T	2.742	132	336	3.5	0	994.0	994.0	994.0	0.0
U	2.888	123	287	4.1	0	999.6	999.6	999.6	0.0
V	2.995	134	308	3.9	0	1,001.2	1,001.2	1,001.2	0.0
W	3.098	360	1,394	0.9	0	1,001.9	1,001.9	1,001.9	0.0
X	3.258	803	2,995	0.4	0	1,002.0	1,002.0	1,002.0	0.0
Y	3.548	1,060	3,961	0.3	0	1,002.0	1,002.0	1,002.0	0.0
Z	3.738	329	360	3.1	0	1,003.7	1,003.7	1,003.7	0.0

¹MILES ABOVE CONFLUENCE WITH OCONOMOWOC RIVER

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

FLYNN CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
FLYNN CREEK (CONTINUED)									
AA	3.827 ¹	593	715	1.5	0	1,004.5	1,004.5	1,004.5	0.0
AB	3.975 ¹	1,120	2,204	0.3	0	1,007.0	1,007.0	1,007.0	0.0
AC	4.119 ¹	771	1,352	0.5	0	1,007.0	1,007.0	1,007.0	0.0
AD	4.257 ¹	440	320	2.1	0	1,007.8	1,007.8	1,007.8	0.0
AE	4.462 ¹	378	597	1.1	0	1,010.4	1,010.4	1,010.4	0.0
AF	4.639 ¹	147	166	3.9	0	1,012.1	1,012.1	1,012.1	0.0
AG	4.814 ¹	316	394	1.7	0	1,013.6	1,013.6	1,013.6	0.0
AH	4.896 ¹	311	497	1.3	0	1,014.2	1,014.2	1,014.2	0.0
AI	5.011 ¹	261	333	2.0	0	1,014.6	1,014.6	1,014.6	0.0
AJ	5.162 ¹	239	436	1.5	0	1,015.4	1,015.4	1,015.4	0.0
AK	5.231 ¹	585	2,357	0.2	0	1,018.9	1,018.9	1,018.9	0.0
AL	5.407 ¹	883	2,787	0.1	0	1,018.9	1,018.9	1,018.9	0.0
AM	5.612 ¹	149	199	1.8	0	1,018.9	1,018.9	1,018.9	0.0
AN	5.660 ¹	133	175	2.0	0	1,020.0	1,020.0	1,020.0	0.0
AO	5.792 ¹	310	208	1.7	0	1,023.0	1,023.0	1,023.0	0.0
AP	5.817 ¹	300	760	0.5	0	1,025.5	1,025.5	1,025.5	0.0
AQ	5.947 ¹	395	406	0.9	0	1,025.7	1,025.7	1,025.7	0.0
FRIEDEN'S CREEK									
A	5,604 ²	1,653	2,649	0.5	0	841.9	841.9	841.9	0.0
B	6,800 ²	784	895	1.1	0	843.7	843.7	843.7	0.0
C	7,450 ²	145	202	4.8	0	845.0	845.0	845.0	0.0
D	7,910 ²	389	533	1.8	0	846.9	846.9	846.9	0.0
E	8,404 ²	394	762	1.3	0	848.0	848.0	848.0	0.0
F	9,344 ²	554	947	1.0	0	850.7	850.7	850.7	0.0

¹MILES ABOVE CONFLUENCE WITH OCONOMOWOC RIVER, ²FEET ABOVE CONFLUENCE WITH CEDAR CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
FRIEDEN'S CREEK (CONTINUED)									
G	10,039	372	479	2.0	0	854.4	854.4	854.4	0.0
H	10,393	192	559	1.8	0	860.7	860.7	860.7	0.0
I	10,757	225	301	3.2	0	862.5	862.5	862.5	0.0
J	11,362	44	169	5.8	0	870.2	870.2	870.2	0.0
K	11,783	156	235	4.0	0	877.8	877.8	877.8	0.0
L	12,554	101	151	6.2	0	889.5	889.5	889.5	0.0
M	13,126	98	181	5.2	0	897.6	897.6	897.6	0.0
N	13,541	26	89	10.5	0	902.7	902.7	902.7	0.0
O	13,650	25	247	3.8	0	910.3	910.3	910.3	0.0
P	13,899	40	316	3.0	0	910.4	910.4	910.4	0.0
Q	14,247	318	2,036	0.4	0	910.8	910.8	910.8	0.0
R	15,347	977	4,781	0.2	0	910.9	910.9	910.9	0.0
S	16,609	218	345	2.1	0	911.1	911.1	911.1	0.0
T	16,945	184	354	2.0	0	912.3	912.3	912.3	0.0
U	18,115	588	817	0.9	0	914.9	914.9	914.9	0.0
V	18,820	370	420	1.7	0	916.7	916.7	916.7	0.0
W	19,516	196	330	1.5	0	920.6	920.6	920.6	0.0
X	20,336	31	86	5.8	0	924.0	924.0	924.0	0.0
Y	20,401	58	129	3.9	0	924.7	924.7	924.7	0.0
Z	21,149	342	350	1.4	0	928.9	928.9	928.9	0.0
AA	21,629	72	101	5.0	0	931.2	931.2	931.2	0.0
AB	22,513	31	74	6.7	0	939.1	939.1	939.1	0.0
AC	22,552	69	181	2.8	0	941.6	941.6	941.6	0.0
AD	23,520	37	124	4.0	0	945.0	945.0	945.0	0.0
AE	23,745	36	188	2.7	0	946.7	946.7	946.7	0.0

¹FEET ABOVE CONFLUENCE WITH CEDAR CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
HASMER CREEK									
A	964	461	329	1.5	0	852.4	852.4	852.4	0.0
B	2,456	87	108	4.6	0	863.1	863.1	863.1	0.0
C	3,026	149	239	2.1	0	865.8	865.8	865.8	0.0
D	3,598	159	196	2.6	0	866.8	866.8	866.8	0.0
E	4,043	113	199	2.5	0	867.6	867.6	867.6	0.0
F	4,551	163	198	2.5	0	868.5	868.5	868.5	0.0
G	5,032	107	180	2.8	0	869.4	869.4	869.4	0.0
H	5,154	215	1,007	0.5	0	872.5	872.5	872.5	0.0
I	5,912	60	291	1.7	0	872.6	872.6	872.6	0.0
J	7,099	559	9,711	0.1	0	872.7	872.7	872.7	0.0
K	7,621	65	186	1.8	0	873.5	873.5	873.5	0.0
L	8,187	298	991	0.3	0	873.8	873.8	873.8	0.0
M	8,468	31	47	7.3	0	876.0	876.0	876.0	0.0
N	8,804	30	47	7.3	0	879.5	879.5	879.5	0.0
O	9,083	24	45	7.6	0	882.8	882.8	882.8	0.0
P	9,349	28	51	6.6	0	885.5	885.5	885.5	0.0
Q	9,386	80	235	1.5	0	888.6	888.6	888.6	0.0

¹FEET ABOVE CONFLUENCE WITH CEDAR CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
HUBERTUS DITCH NO. 1									
A	1,705 ¹	59	74	3.8	0	979.4	979.4	979.4	0.0
B	2,471 ¹	523	400	0.7	0	980.9	980.9	980.9	0.0
C	3,677 ¹	147	77	2.8	0	981.6	981.6	981.6	0.0
D	3,898 ¹	50	189	1.1	0	984.2	984.2	984.2	0.0
E	4,651 ¹	853	1,895	0.0	0	984.2	984.2	984.2	0.0
JACKSON CREEK									
A	928 ²	113	116	1.7	0	843.8	843.3 ³	843.3	0.0
B	1,236 ²	109	76	2.6	0	844.1	844.1	844.1	0.0
C	1,364 ²	211	326	0.6	0	845.8	845.8	845.8	0.0
D	1,639 ²	137	65	2.1	0	846.5	846.5	846.5	0.0
E	1,918 ²	132	80	1.7	0	849.5	849.5	849.5	0.0
F	2,497 ²	123	82	1.7	0	854.3	854.3	854.3	0.0
G	3,256 ²	16	26	5.3	0	860.6	860.6	860.6	0.0
H	3,305 ²	77	121	1.1	0	863.5	863.5	863.5	0.0
I	4,008 ²	13	17	5.2	0	868.8	868.8	868.8	0.0
J	4,557 ²	25	19	4.6	0	875.3	875.3	875.3	0.0
K	4,687 ²	24	67	1.3	0	879.1	879.1	879.1	0.0
L	5,270 ²	34	22	4.0	0	882.6	882.6	882.6	0.0

¹FEET ABOVE CONFLUENCE WITH BARK RIVER, ²FEET ABOVE CONFLUENCE WITH CEDAR CREEK

³ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM CEDAR CREEK

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

HUBERTUS DITCH NO. 1 - JACKSON CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
KETTLEVIEW CREEK									
A	1,151	454	627	1.5	0	940.3	940.3	940.3	0.0
B	1,996	366	521	1.9	0	941.2	941.2	941.2	0.0
C	3,754	359	542	1.8	0	945.2	945.2	945.2	0.0
D	4,588	619	1,227	0.8	0	947.1	947.1	947.1	0.0
E	5,206	234	305	1.7	0	947.8	947.8	947.8	0.0
F	5,676	332	558	1.0	0	951.3	951.3	951.3	0.0
G	6,463	279	192	1.8	0	956.1	956.1	956.1	0.0
H	6,843	344	283	1.5	0	958.6	958.6	958.6	0.0
I	7,894	191	158	2.2	0	966.9	966.9	966.9	0.0
J	8,168	218	150	2.3	0	970.4	970.4	970.4	0.0
K	8,781	173	108	3.2	0	983.2	983.2	983.2	0.0
L	8,855	179	105	3.3	0	986.4	986.4	986.4	0.0
M	9,060	83	81	4.3	0	990.6	990.6	990.6	0.0

¹FEET ABOVE CONFLUENCE WITH KEWASKUM CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
KETTLEVIEW CREEK (CONTINUED)									
N	9,483 ¹	32	64	5.5	0	1,001.3	1,001.3	1,001.3	0.0
O	9,831 ¹	61	114	3.1	0	1,006.5	1,006.5	1,006.5	0.0
P	10,212 ¹	71	79	4.4	0	1,013.6	1,013.6	1,013.6	0.0
Q	10,618 ¹	27	15	5.9	0	1,019.9	1,019.9	1,019.9	0.0
R	10,782 ¹	69	41	2.2	0	1,022.7	1,022.7	1,022.7	0.0
S	10,967 ¹	68	32	1.5	0	1,024.1	1,024.1	1,024.1	0.0
T	11,157 ¹	95	997	0.1	0	1,030.2	1,030.2	1,030.2	0.0
KEWASKUM CREEK									
A	174 ²	217	1,791	2.3	0	935.8	934.0 ³	934.0	0.0
B	702 ²	349	1,385	1.7	0	936.7	936.7	936.7	0.0
C	1,584 ²	496	2,795	0.8	0	937.2	937.2	937.2	0.0
D	3,157 ²	275	1,181	1.9	0	937.6	937.6	937.6	0.0
E	3,506 ²	289	1,920	2.0	0	938.4	938.4	938.4	0.0
F	3,617 ²	408	1,575	1.6	0	939.8	939.8	939.8	0.0
G	4,514 ²	958	2,383	0.9	0	940.1	940.1	940.1	0.0
H	5,486 ²	822	2,138	0.7	0	940.3	940.3	940.3	0.0
I	6,521 ²	337	1,315	1.0	0	941.7	941.7	941.7	0.0
J	6,827 ²	238	779	2.5	0	943.3	943.3	943.3	0.0
K	7,017 ²	282	802	1.6	0	943.7	943.7	943.7	0.0
L	8,004 ²	499	941	1.4	0	945.5	945.5	945.5	0.0
M	8,649 ²	390	711	1.8	0	946.2	946.2	946.2	0.0
N	8,923 ²	363	676	1.9	0	947.2	947.2	947.2	0.0
O	9,346 ²	369	895	1.4	0	948.4	948.4	948.4	0.0
P	11,062 ²	496	896	1.4	0	950.6	950.6	950.6	0.0

¹FEET ABOVE CONFLUENCE WITH KEWASKUM CREEK, ²FEET ABOVE CONFLUENCE WITH MILWAUKEE RIVER

³ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM THE MILWAUKEE RIVER

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

KETTLEVIEW CREEK - KEWASKUM CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
KEWASKUM CREEK (CONTINUED)									
Q	11,880 ²	845	1,321	1.0	0	952.1	952.1	952.1	0.0
R	12,429 ²	569	1,139	2.0	0	952.8	952.8	952.8	0.0
S	12,746 ²	656	1,651	1.3	0	955.0	955.0	955.0	0.0
T	13,232 ²	427	749	2.8	0	955.9	955.9	955.9	0.0
U	13,522 ²	448	915	2.2	0	958.0	958.0	958.0	0.0
V	14,921 ²	194	456	4.4	0	963.4	963.4	963.4	0.0
W	15,460 ²	296	621	3.6	0	966.5	966.5	966.5	0.0
X	15,645 ²	464	1,608	1.3	0	969.8	969.8	969.8	0.0
Y	16,289 ²	365	881	2.3	0	970.7	970.7	970.7	0.0
Z	17,260 ²	203	836	2.9	0	975.0	975.0	975.0	0.0
AA	18,480 ²	614	1,854	1.1	0	977.6	977.6	977.6	0.0
AB	20,259 ²	385	1,086	1.9	0	979.2	979.2	979.2	0.0
AC	21,532 ²	215	396	5.1	0	983.9	983.9	983.9	0.0
AD	22,155 ²	310	848	2.4	0	987.7	987.7	987.7	0.0
AE	24,029 ²	308	704	2.7	0	992.3	992.3	992.3	0.0
AF	25,793 ²	632	1,081	2.1	0	997.8	997.8	997.8	0.0
AG - AI ¹									
KEWASKUM CREEK OVERFLOW CHANNEL									
A	634 ³	911	504	1.6	0	950.0	950.0	950.0	0.0
B	964 ³	933	1,041	0.8	0	951.3	951.3	951.3	0.0
C	1,579 ³	544	840	1.0	0	952.0	952.0	952.0	0.0
D	1,714 ³	494	912	0.9	0	952.1	952.1	952.1	0.0
E	1,774 ³	435	591	1.4	0	952.2	952.2	952.2	0.0

¹FLOODWAY NOT COMPUTED, ²FEET ABOVE CONFLUENCE WITH MILWAUKEE RIVER, ³FEET ABOVE CONFLUENCE WITH KETTLEVIEW CREEK

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

KEWASKUM CREEK - KEWASKUM CREEK OVERFLOW CHANNEL

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
KNIGHTS CREEK									
A	53 ¹	88	112	2.8	0	952.7	952.7	952.7	0.0
B	317 ¹	145	166	1.9	0	953.7	953.7	953.7	0.0
C	723 ¹	110	92	3.4	0	956.5	956.5	956.5	0.0
D	1,162 ¹	224	377	0.9	0	958.1	958.1	958.1	0.0
E	1,869 ¹	290	128	2.5	0	958.8	958.8	958.8	0.0
F	2,059 ¹	387	333	1.0	0	961.6	961.6	961.6	0.0
G	2,709 ¹	491	213	1.5	0	966.5	966.5	966.5	0.0
H	3,210 ¹	310	212	1.0	0	971.1	971.1	971.1	0.0
I	3,654 ¹	345	233	1.0	0	976.2	976.2	976.2	0.0
J	3,923 ¹	271	95	2.4	0	982.3	982.3	982.3	0.0
K	4,330 ¹	57	47	4.7	0	990.9	990.9	990.9	0.0
L	4,472 ¹	67	51	4.4	0	994.8	994.8	994.8	0.0
M	4,652 ¹	61	53	4.2	0	999.2	999.2	999.2	0.0
N	4,953 ¹	97	83	2.7	0	1,005.0	1,005.0	1,005.0	0.0
O	4,990 ¹	73	61	3.7	0	1,006.7	1,006.7	1,006.7	0.0
P	5,132 ¹	63	87	2.5	0	1,011.7	1,011.7	1,011.7	0.0
Q	5,650 ¹	127	85	2.6	0	1,019.1	1,019.1	1,019.1	0.0
R	6,098 ¹	207	150	1.5	0	1,022.8	1,022.8	1,022.8	0.0
S	6,616 ¹	55	67	3.3	0	1,026.0	1,026.0	1,026.0	0.0
T	6,980 ¹	48	63	3.5	0	1,032.0	1,032.0	1,032.0	0.0
KOHLSVILLE RIVER									
A	15,432 ²	171	315	2.6	0	950.5	950.5	950.5	0.0
B	15,607 ²	170	549	1.5	0	952.5	952.5	952.5	0.0
C	17,002 ²	331	771	1.1	0	955.0	955.0	955.0	0.0
D	19,232 ²	477	708	1.1	0	956.3	956.3	956.3	0.0

¹FEET ABOVE CONFLUENCE WITH NORTH CREEK, ²FEET ABOVE CONFLUENCE WITH EAST BRANCH ROCK RIVER

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
KOHLSVILLE RIVER (CONTINUED)									
E	20,503 ¹	34	65	5.1	0	958.0	958.0	958.0	0.0
F	20,801 ¹	191	166	2.0	0	959.8	959.8	959.8	0.0
G	21,264 ¹	135	114	2.9	0	961.4	961.4	961.4	0.0
H	21,908 ¹	28	59	5.7	0	965.3	965.3	965.3	0.0
I	22,442 ¹	119	108	3.1	0	968.8	968.8	968.8	0.0
J	23,082 ¹	124	106	3.1	0	970.7	970.7	970.7	0.0
K	23,335 ¹	36	79	4.2	0	972.1	972.1	972.1	0.0
L	23,508 ¹	287	3,092	0.3	0	981.9	981.9	981.9	0.0
M	23,845 ¹	162	1,192	0.7	0	981.9	981.9	981.9	0.0
N	24,022 ¹	103	448	1.7	0	982.2	982.2	982.2	0.0
O	24,215 ¹	104	289	2.7	0	982.2	982.2	982.2	0.0
P	24,483 ¹	102	166	4.6	0	983.2	983.2	983.2	0.0
Q	25,405 ¹	161	218	3.5	0	988.8	988.8	988.8	0.0
KOHLSVILLE RIVER - PARK ROUTE									
A	83 ²	481	804	0.6	0	957.7	957.7	957.7	0.0
B	629 ²	206	374	1.3	0	958.5	958.5	958.5	0.0
C	1,009 ²	73	113	4.2	0	961.6	961.6	961.6	0.0
D	1,264 ²	19	55	8.6	0	964.8	964.8	964.8	0.0
E	1,302 ²	204	440	1.1	0	980.5	980.5	980.5	0.0
F	1,762 ²	39	134	3.6	0	980.6	980.6	980.6	0.0
G	2,049 ²	70	289	1.7	0	981.7	981.7	981.7	0.0
H	2,318 ²	187	1,748	0.3	0	981.9	981.9	981.9	0.0

¹FEET ABOVE CONFLUENCE WITH EAST BRANCH ROCK RIVER, ²FEET ABOVE CONVERGENCE WITH KOHLSVILLE RIVER

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

KOHLSVILLE RIVER - KOHLSVILLE RIVER - PARK ROUTE

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
KRESSEN BRANCH									
A	3,443	3,425	21,358	0.1	0	851.1	851.1	851.1	0.0
B	7,092	2,230	11,053	0.1	0	851.1	851.1	851.1	0.0
C	11,636	922	3,014	0.4	0	851.1	851.1	851.1	0.0
D	13,673	1,946	8,210	0.1	0	851.2	851.2	851.2	0.0
E	14,839	1,676	2,912	0.4	0	851.3	851.3	851.3	0.0
F	15,923	766	1,186	0.4	0	851.5	851.5	851.5	0.0
G	16,786	70	127	3.8	0	851.7	851.7	851.7	0.0
H	16,841	49	192	2.5	0	852.5	852.5	852.5	0.0
I	17,330	427	387	1.3	0	852.9	852.9	852.9	0.0
J	18,604	64	143	3.4	0	855.4	855.4	855.4	0.0

¹FEET ABOVE CONFLUENCE WITH LITTLE CEDAR CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
LEHNER OUTLET									
A	255	85	49	3.4	0	924.9	924.9	924.9	0.0
B	581	91	51	3.3	0	930.9	930.9	930.9	0.0
C	867	122	126	1.3	0	932.1	932.1	932.1	0.0
D	1,161	41	34	4.9	0	934.2	934.2	934.2	0.0
E	1,560	51	41	4.0	0	939.9	939.9	939.9	0.0
F	1,692	131	323	0.5	0	943.9	943.9	943.9	0.0
G	2,108	90	126	1.3	0	943.9	943.9	943.9	0.0
H	2,706	21	37	4.4	0	946.1	946.1	946.1	0.0
I	2,898	57	76	2.2	0	948.1	948.1	948.1	0.0
J	4,081	104	61	2.1	0	958.1	958.1	958.1	0.0
K	4,632	56	39	3.4	0	962.8	962.8	962.8	0.0
L	5,474	83	66	2.0	0	966.8	966.8	966.8	0.0
M	6,021	146	141	0.9	0	967.5	967.5	967.5	0.0
N	6,859	154	183	0.7	0	969.2	969.2	969.2	0.0
O	7,629	350	353	0.4	0	969.4	969.4	969.4	0.0
P	8,457	111	109	1.2	0	969.5	969.5	969.5	0.0
Q	8,586	454	1,123	0.1	0	972.2	972.2	972.2	0.0
R	10,083	320	447	0.2	0	972.2	972.2	972.2	0.0
S	10,662	97	79	1.1	0	973.1	973.1	973.1	0.0
T	10,714	153	259	0.3	0	977.3	977.3	977.3	0.0
U	11,103	54	30	2.9	0	978.9	978.9	978.9	0.0
V	11,559	40	82	1.1	0	979.6	979.6	979.6	0.0
W	12,517	114	107	0.5	0	979.7	979.7	979.7	0.0
X	13,124	21	20	2.7	0	980.4	980.4	980.4	0.0
Y	13,374	29	18	2.9	0	982.9	982.9	982.9	0.0

¹FEET ABOVE CONFLUENCE WITH CEDAR CREEK

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

LEHNER OUTLET

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
LITTLE CEDAR CREEK									
A	601	1,034	6,917	0.5	0	849.9	849.9	849.9	0.0
B	1,564	996	4,675	0.7	0	850.0	850.0	850.0	0.0
C	2,371	796	4,313	0.8	0	850.1	850.1	850.1	0.0
D	3,156	577	2,648	1.3	0	850.2	850.2	850.2	0.0
E	4,246	1,048	5,298	0.7	0	850.6	850.6	850.6	0.0
F	5,735	901	6,463	0.5	0	851.0	851.0	851.0	0.0
G	6,850	1,003	7,101	0.5	0	851.1	851.1	851.1	0.0
H	8,950	1,745	11,388	0.3	0	851.1	851.1	851.1	0.0
I	11,317	1,003	4,983	0.5	0	851.7	851.7	851.7	0.0
J	13,750	1,021	3,431	0.8	0	851.9	851.9	851.9	0.0
K	14,685	442	1,050	2.6	0	852.2	852.2	852.2	0.0
L	14,821	453	1,864	1.4	0	853.9	853.9	853.9	0.0
M	16,665	1,401	4,840	0.6	0	854.5	854.5	854.5	0.0
N	18,659	857	1,282	2.4	0	855.3	855.3	855.3	0.0
O	18,819	974	4,724	0.6	0	858.4	858.4	858.4	0.0
P	21,389	1,114	5,113	0.6	0	858.6	858.6	858.6	0.0
Q	24,246	1,471	3,070	0.8	0	858.8	858.8	858.8	0.0
R	24,897	351	609	4.1	0	858.9	858.9	858.9	0.0
S	25,378	276	924	1.1	0	861.6	861.6	861.6	0.0
T	25,782	59	413	2.5	0	863.2	863.2	863.2	0.0
U	26,107	75	535	1.9	0	864.9	864.9	864.9	0.0
V	26,558	497 ²	1,955	0.5	0	866.6	866.6	866.6	0.0
W	27,330	319	280	3.1	0	867.1	867.1	867.1	0.0
X	27,729	366	286	3.1	0	870.5	870.5	870.5	0.0
Y	27,953	293	322	2.7	0	872.8	872.8	872.8	0.0
Z	29,076	225	276	3.2	0	881.9	881.9	881.9	0.0

¹FEET ABOVE CONFLUENCE WITH CEDAR CREEK

²MAPPED FLOODWAY WIDTH INCLUDES LITTLE CEDAR CREEK BYPASS FLOODWAY

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

LITTLE CEDAR CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
LITTLE CEDAR CREEK (CONTINUED)									
AA	29,517	254	315	2.8	0	886.0	886.0	886.0	0.0
AB	30,473	177	287	3.0	0	895.5	895.5	895.5	0.0
AC	31,365	316	351	2.5	0	902.9	902.9	902.9	0.0
AD	31,412	313	908	1.0	0	905.7	905.7	905.7	0.0
AE	31,670	52	260	3.4	0	907.6	907.6	907.6	0.0
AF	32,662	134	243	3.6	0	912.2	912.2	912.2	0.0
AG	34,216	58	62	4.9	0	927.8	927.8	927.8	0.0
AH	36,104	110	93	3.3	0	954.3	954.3	954.3	0.0
AI	36,187	150	399	0.8	0	958.2	958.2	958.2	0.0
AJ	36,538	47	61	1.0	0	960.3	960.3	960.3	0.0
AK	37,060	18	19	3.4	0	962.7	962.7	962.7	0.0
AL	37,702	11	21	3.1	0	964.7	964.7	964.7	0.0
AM	37,780	22	38	1.6	0	965.6	965.6	965.6	0.0
AN	38,314	18	17	3.8	0	966.7	966.7	966.7	0.0
AO	38,655	37	35	1.8	0	968.1	968.1	968.1	0.0
AP	38,849	30	140	0.5	0	972.5	972.5	972.5	0.0
AR	39,893	362	746	0.1	0	972.5	972.5	972.5	0.0
AS	41,950	493	340	0.3	0	972.5	972.5	972.5	0.0
AT	43,121	83	85	1.2	0	972.9	972.9	972.9	0.0
AU	43,416	19	26	3.9	0	973.7	973.7	973.7	0.0

¹FEET ABOVE CONFLUENCE WITH CEDAR CREEK

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

LITTLE CEDAR CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
LITTLE CEDAR CREEK BYPASS									
A	1,795 ¹	148	465	3.2	0	863.8	863.8	863.8	0.0
B	3,002 ¹	459	2,222	0.7	0	866.6	866.6	866.6	0.0
LITTLE OCONOMOWOC RIVER									
A	18,940 ²	425	879	0.6	0	966.1	966.1	966.1	0.0
B	19,531 ²	305	518	1.0	0	966.5	966.5	966.5	0.0
C	20,319 ²	230	326	1.5	0	968.5	968.5	968.5	0.0
D	21,446 ²	182	281	1.8	0	973.5	973.5	973.5	0.0
E	21,865 ²	309	561	0.9	0	974.4	974.4	974.4	0.0
F	22,660 ²	155	238	2.1	0	974.7	974.7	974.7	0.0
G	22,738 ²	250	1,039	0.5	0	976.8	976.8	976.8	0.0
H	25,361 ²	369	896	0.6	0	976.8	976.8	976.8	0.0
I	28,266 ²	741	1,326	0.4	0	977.1	977.1	977.1	0.0
J	32,613 ²	918	1,397	0.3	0	978.1	978.1	978.1	0.0
K	34,818 ²	1,694	2,814	0.2	0	978.2	978.2	978.2	0.0
L	37,660 ²	400	342	1.4	0	978.2	978.2	978.2	0.0
M	37,945 ²	181	1,308	0.4	0	988.2	988.2	988.2	0.0
N	40,044 ²	855	1,496	0.2	0	988.2	988.2	988.2	0.0
O	42,065 ²	28	62	4.5	0	988.3	988.3	988.3	0.0
P	42,699 ²	100	113	2.5	0	991.1	991.1	991.1	0.0
Q	43,061 ²	70	125	2.2	0	993.2	993.2	993.2	0.0
R	43,555 ²	38	63	4.4	0	997.2	997.2	997.2	0.0

¹FEET ABOVE CONFLUENCE WITH CEDAR CREEK, ²FEET ABOVE CONFLUENCE WITH OCONOMOWOC RIVER

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

LITTLE CEDAR CREEK BYPASS - LITTLE OCONOMOWOC RIVER

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
MASON CREEK									
A	21,591 ¹	304	286	1.2	0	951.2	951.2	951.2	0.0
B	22,306 ¹	47	78	4.5	0	952.7	952.7	952.7	0.0
C	23,322 ¹	266	305	1.2	0	954.9	954.9	954.9	0.0
D	23,670 ¹	20	51	6.8	0	955.5	955.5	955.5	0.0
E	2,4310 ¹	218	259	1.4	0	957.7	957.7	957.7	0.0
F	25,363 ¹	500	624	0.6	0	958.1	958.1	958.1	0.0
G	27,099 ¹	630	941	0.4	0	958.2	958.2	958.2	0.0
H	27,388 ¹	223	489	0.7	0	960.2	960.2	960.2	0.0
I	28,016 ¹	465	672	0.5	0	960.3	960.3	960.3	0.0
J	28,826 ¹	80	94	3.7	0	960.6	960.6	960.6	0.0
K	29,709 ¹	117	140	2.5	0	964.0	964.0	964.0	0.0
L	30,072 ¹	267	459	0.6	0	964.3	964.3	964.3	0.0
M	31,832 ¹	170	151	1.8	0	964.4	964.4	964.4	0.0
N	32163 ¹	110	118	2.3	0	965.1	965.1	965.1	0.0
MASON CREEK TRIBUTARY 1									
A	1,917 ²	289	117	1.8	0	952.9	952.9	952.9	0.0
B	2,547 ²	253	128	1.7	0	955.3	955.3	955.3	0.0
C	3,696 ²	46	53	1.3	0	958.1	958.1	958.1	0.0
D	4,541 ²	29	54	1.3	0	959.1	959.1	959.1	0.0
E	5,062 ²	44	75	0.9	0	959.4	959.4	959.4	0.0
F	6,419 ²	38	76	0.9	0	960.7	960.7	960.7	0.0
G	6,535 ²	100	254	0.3	0	963.9	963.9	963.9	0.0
H	6,820 ²	170	196	0.4	0	963.9	963.9	963.9	0.0

¹FEET ABOVE MOUTH AT NORTH LAKE, ²FEET ABOVE CONFLUENCE WITH MASON CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ²	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
MILWAUKEE RIVER									
A - C ¹									
D	285,760	1,071	2,397	6.3	0	834.3	834.3	834.3	0.0
E	287,185	593	1,242	8.2	0	836.5	836.5	836.5	0.0
F	288,231	280	1,242	7.7	0	842.2	842.2	842.2	0.0
G	288,275	250	1,301	7.3	0	842.6	842.6	842.6	0.0
H	288,955	562	5,218	1.8	0	843.8	843.8	843.8	0.0
I	289,885	499	2,286	4.6	0	844.3	844.3	844.3	0.0
J - N ¹									
O	321,499	403	2,318	4.0	0	865.1	865.1	865.1	0.0
P	328,469	338	3,146	3.0	0	869.2	869.2	869.2	0.0
Q	335,755	328	2,446	3.8	0	870.3	870.3	870.3	0.0
R	338,554	585	3,734	2.5	55	871.5	871.5	871.5	0.0
S	343,787	127	1,455	6.7	0	875.9	875.9	875.9	0.0
T	344,041	309	2,292	3.8	0	876.8	876.8	876.8	0.0
U	344,401	361	2,652	3.3	0	877.2	877.2	877.2	0.0
V	345,906	439	2,613	3.3	0	878.2	878.2	878.2	0.0
W	347,681	295	1,514	5.7	0	879.3	879.3	879.3	0.0
X	348,421	565	5,384	2.1	0	880.8	880.8	880.8	0.0
Y	350,356	278	1,509	5.7	0	881.5	881.5	881.5	0.0
Z	352,585	100	1,018	8.5	0	888.3	888.3	888.3	0.0
AA	354,753	272	2,156	4.0	0	895.3	895.3	895.3	0.0
AB	355,353	189	1,801	4.8	0	895.8	895.8	895.8	0.0
AC	356,003	201	2,002	4.3	0	896.4	896.4	896.4	0.0
AD	356,103	209	2,133	4.0	0	896.5	896.5	896.5	0.0
AE	356,253	377	1,716	5.0	0	896.5	896.5	896.5	0.0
AF	356,400	495	1,704	5.1	0	896.7	896.7	896.7	0.0

¹FLOODWAY NOT COMPUTED, ²FEET ABOVE MOUTH AT LAKE MICHIGAN

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

MILWAUKEE RIVER

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ²	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
MILWAUKEE RIVER (CONTINUED)									
AG	356,627	318	1,988	4.3	0	897.1	897.1	897.1	0.0
AH	356,807	359	2,166	4.0	0	897.4	897.4	897.4	0.0
AI	356,907	358	2,213	3.9	0	897.6	897.6	897.6	0.0
AJ	357,107	360	2,434	3.5	0	897.7	897.7	897.7	0.0
AK	357,257	414	3,601	2.4	0	897.9	897.9	897.9	0.0
AL	357,697	644	6,317	1.4	0	898.0	898.0	898.0	0.0
AM	358,697	1,285	13,501	0.6	0	898.1	898.1	898.1	0.0
AN	359,427	959	8,432	1.0	0	898.1	898.1	898.1	0.0
AO	360,277	705	3,346	2.6	0	898.1	898.1	898.1	0.0
AP	361,227	164	875	9.8	0	898.8	898.8	898.8	0.0
AQ	361,777	104	816	10.5	0	902.5	902.5	902.5	0.0
AR	361,877	108	946	9.1	0	903.6	903.6	903.6	0.0
AS	362,052	305	3,458	2.5	0	911.2	911.2	911.2	0.0
AT - AZ ¹									
BA	407,563	383	3,161	1.9	0	937.1	937.1	937.1	0.0
BB	408,883	330	3,433	1.8	38	938.3	938.3	938.3	0.0
BC	410,942	999	7,879	0.8	252	938.5	938.5	938.5	0.0
BD - BH ¹									

¹FLOODWAY NOT COMPUTED, ²FEET ABOVE MOUTH AT LAKE MICHIGAN

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
NATURE'S FRIENDS TRIBUTARY									
A	646	124	87	0.2	0	919.0	916.8 ²	916.8	0.0
B	1,027	64	33	0.6	0	923.9	923.9	923.9	0.0
C	1,592	153	36	1.4	0	924.0	924.0	924.0	0.0
D	1,628	161	241	0.2	0	928.8	928.8	928.8	0.0
E	1,937	9	9	5.6	0	943.9	943.9	943.9	0.0
F	2,025	37	17	2.9	0	948.9	948.9	948.9	0.0
G	2,384	37	22	2.2	0	950.5	950.5	950.5	0.0
¹ FEET ABOVE CONFLUENCE WITH CEDAR CREEK ² ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM CEDAR CREEK									
TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA						
	WASHINGTON COUNTY, WI AND INCORPORATED AREAS		NATURE'S FRIENDS TRIBUTARY						

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
NORTH BRANCH CEDAR CREEK									
A	1,198	513	1,485	0.6	0	838.7	836.6 ²	836.6	0.0
B	2,646	72	260	3.3	0	838.7	837.7 ²	837.7	0.0
C	5,895	501	789	1.1	0	838.7	838.7	838.7	0.0
D	6,825	481	927	0.9	0	839.3	839.3	839.3	0.0
E	8,661	39	182	4.7	0	840.4	840.4	840.4	0.0
F	8,705	58	233	3.7	0	841.0	841.0	841.0	0.0
G	10,006	880	1,878	0.5	0	841.8	841.8	841.8	0.0
H	12,154	1,139	2,186	0.2	0	842.1	842.1	842.1	0.0
I	15,588	655	503	0.8	0	842.5	842.5	842.5	0.0
J	17,090	305	458	0.9	0	843.8	843.8	843.8	0.0
K	18,777	254	329	1.3	0	845.3	845.3	845.3	0.0
L	18,842	274	441	1.0	0	846.9	846.9	846.9	0.0
M	19,392	440	1,071	0.4	0	847.1	847.1	847.1	0.0
N	21,264	214	265	1.6	0	847.6	847.6	847.6	0.0
O	22,073	399	510	0.8	0	848.7	848.7	848.7	0.0
P	22,983	177	162	2.6	0	850.7	850.7	850.7	0.0
Q	23,055	531	2,231	0.2	0	853.4	853.4	853.4	0.0
R	25,707	560	1,280	0.2	0	853.4	853.4	853.4	0.0
S	27,590	228	121	2.1	0	853.4	853.4	853.4	0.0
T	28,229	310	367	0.7	0	854.9	854.9	854.9	0.0
U	29,261	374	486	0.5	0	855.4	855.4	855.4	0.0
V	31,052	384	202	1.3	0	856.3	856.3	856.3	0.0
W	31,214	595	1,638	0.2	0	858.7	858.7	858.7	0.0
X	33,383	987	1,584	0.1	0	858.7	858.7	858.7	0.0
Y	35,248	306	342	0.6	0	858.8	858.8	858.8	0.0

¹FEET ABOVE CONFLUENCE WITH CEDAR CREEK

²ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM CEDAR CREEK

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

NORTH BRANCH CEDAR CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
NORTH BRANCH CEDAR CREEK (CONTINUED)									
Z	37,522	758	674	0.3	0	859.6	859.6	859.6	0.0
AA	39,561	115	117	1.7	0	860.1	860.1	860.1	0.0
AB	45,046	26	85	0.4	0	867.5	867.5	867.5	0.0
AC	45,968	422	445	0.1	0	867.5	867.5	867.5	0.0
AD	47,429	123	27	1.2	0	869.4	869.4	869.4	0.0
¹ FEET ABOVE CONFLUENCE WITH CEDAR CREEK									
TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY WASHINGTON COUNTY, WI AND INCORPORATED AREAS		FLOODWAY DATA						
			NORTH BRANCH CEDAR CREEK						

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
NORTH CREEK									
A	697	107	159	11.3	0	938.4	935.5 ²	935.5	0.0
B	771	75	1,317	4.2	0	941.8	941.8	941.8	0.0
C	1,267	118	668	1.6	0	942.7	942.7	942.7	0.0
D	3,216	90	134	3.7	0	947.5	947.5	947.5	0.0
E	3,638	150	242	2.0	0	949.9	949.9	949.9	0.0
F	4,625	41	46	5.0	0	952.7	952.7	952.7	0.0
G	4,836	77	106	2.1	0	954.4	954.4	954.4	0.0
H	5,438	60	84	2.7	0	958.7	958.7	958.7	0.0
I	5,961	79	112	2.0	0	962.2	962.2	962.2	0.0
J	6,684	320	685	0.3	0	962.9	962.9	962.9	0.0
K	6,948	133	147	1.1	0	965.9	965.9	965.9	0.0
L	7,387	128	174	1.2	0	966.7	966.7	966.7	0.0
M	7,550	250	80	2.1	0	967.3	967.3	967.3	0.0
N	7,777	135	57	2.9	0	969.7	969.7	969.7	0.0
O	8,305	220	227	1.6	0	975.9	975.9	975.9	0.0
P	8,596	114	60	3.0	0	982.4	982.4	982.4	0.0
Q	8,833	65	36	4.6	0	986.1	986.1	986.1	0.0
R	8,976	41	34	4.8	0	989.3	989.3	989.3	0.0
S	9,224	62	42	3.9	0	995.1	995.1	995.1	0.0
T	9,462	51	36	4.6	0	999.4	999.4	999.4	0.0
U	9,763	48	35	4.7	0	1,004.9	1,004.9	1,004.9	0.0
V	10,750	123	51	3.2	0	1,008.8	1,008.8	1,008.8	0.0
W	11,072	98	45	3.7	0	1,012.8	1,012.8	1,012.8	0.0
X	11,516	31	13	4.4	0	1,021.0	1,021.0	1,021.0	0.0
Y	11,832	40	22	2.7	0	1,032.7	1,032.7	1,032.7	0.0
Z	12,265	56	20	2.9	0	1,042.6	1,042.6	1,042.6	0.0

¹FEET ABOVE CONFLUENCE WITH MILWAUKEE RIVER, ²ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM MILWAUKEE RIVER

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

NORTH CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
OCONOMOWOC BYPASS									
A	1,948	276	138	1.3	0	967.4	967.4	967.4	0.0
B	3,313	295	133	1.4	0	970.7	970.7	970.7	0.0
C	4,238	605	347	0.5	0	972.3	972.3	972.3	0.0
D	5,162	262	134	0.6	0	972.4	972.4	972.4	0.0
E	6,304	381	873	0.1	0	972.5	972.5	972.5	0.0

¹FEET ABOVE PLEASANT HILL ROAD

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
OCONOMOWOC RIVER									
A	160,796	400	1,657	0.6	0	935.7	935.7	935.7	0.0
B	165,158	765	2,455	0.4	0	935.8	935.8	935.8	0.0
C	169,671	2,134 ²	6,178	0.2	0	935.9	935.9	935.9	0.0
D	173,276	697	2,130	0.4	0	936.0	936.0	936.0	0.0
E	176,989	1,884	26,067	0.0	0	936.1	936.1	936.1	0.0
F	180,780	165	266	2.8	0	936.4	936.4	936.4	0.0
G	181,602	60	183	4.0	0	942.0	942.0	942.0	0.0
H	182,210	63	144	5.1	0	945.5	945.5	945.5	0.0
I	182,426	287	909	0.8	0	949.7	949.7	949.7	0.0
J	183,234	184	555	1.3	0	949.8	949.8	949.8	0.0
K	184,904	190	437	1.7	0	950.7	950.7	950.7	0.0
L	186,260	210	550	1.3	0	951.9	951.9	951.9	0.0
M	186,598	305	1,041	0.7	0	953.4	953.4	953.4	0.0
N	188,518	205	502	1.4	0	953.8	953.8	953.8	0.0
O	189,322	164	405	1.8	0	954.4	954.4	954.4	0.0
P	190,572	176	372	1.9	0	957.8	957.8	957.8	0.0
Q	191,007	252	1,103	0.7	0	960.9	960.9	960.9	0.0
R	195,773	2,191	6,804	0.1	0	961.1	961.1	961.1	0.0
S	199,343	812	3,716	0.2	0	961.1	961.1	961.1	0.0
T	203,187	654	978	0.7	0	961.2	961.2	961.2	0.0
U	205,680	298	719	1.0	0	961.7	961.7	961.7	0.0
V	206,184	61	462	1.5	0	966.5	966.5	966.5	0.0
W	211,149	2,478	10,413	0.1	0	966.7	966.7	966.7	0.0
X	215,818	2,666	8,562	0.0	0	966.7	966.7	966.7	0.0

¹FEET ABOVE CONFLUENCE WITH ROCK RIVER, ²MAPPED FLOODWAY WIDTH INCLUDES A PORTION OF FLYNN CREEK

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

OCONOMOWOC RIVER

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
POLK SPRINGS CREEK									
A	375	585	1,395	0.9	0	850.1	850.1	850.1	0.0
B	1,115	389	533	2.4	0	851.8	851.8	851.8	0.0
C	2,346	645	675	1.9	0	857.3	857.3	857.3	0.0
D	2,396	677	1,540	0.8	0	858.7	858.7	858.7	0.0
E	3,838	51	135	7.0	0	860.8	860.8	860.8	0.0
F	4,033	44	364	2.6	0	866.4	866.4	866.4	0.0
G	4,803	568	1,615	0.6	0	866.7	866.7	866.7	0.0
H	5,468	400	469	2.0	0	867.2	867.2	867.2	0.0
I	5,749	478	620	1.5	0	868.7	868.7	868.7	0.0
J	6,417	353	322	2.9	0	871.2	871.2	871.2	0.0
K	7,345	283	282	3.3	0	876.9	876.9	876.9	0.0
L	8,214	210	268	3.5	0	883.3	883.3	883.3	0.0
M	8,835	47	114	8.2	0	891.5	891.5	891.5	0.0
N	8,904	47	375	2.5	0	897.0	897.0	897.0	0.0
O	9,216	243	692	1.4	0	897.1	897.1	897.1	0.0

¹FEET ABOVE CONFLUENCE WITH CEDAR CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
PUTTER CREEK									
A	1,126 ¹	151	139	1.9	0	1,005.9	1,005.7 ³	1,005.7	0.0
B	2,348 ¹	201	192	1.4	0	1,007.7	1,007.7	1,007.7	0.0
C	3,114 ¹	226	292	0.9	0	1,009.1	1,009.1	1,009.1	0.0
D	4,283 ¹	395	392	0.7	0	1,010.9	1,010.9	1,010.9	0.0
QUAAS CREEK									
A	2,798 ²	74	394	3.6	0	872.4	872.4	872.4	0.0
B	2,957 ²	101	705	2.0	0	874.8	874.8	874.8	0.0
C	4,805 ²	431	922	1.5	0	875.7	875.7	875.7	0.0
D	5,650 ²	294	798	1.7	0	876.9	876.9	876.9	0.0
E	6,019 ²	137	396	3.5	0	877.8	877.8	877.8	0.0
F	6,077 ²	157	611	2.3	0	878.8	878.8	878.8	0.0
G	7,128 ²	309	902	1.5	0	881.0	881.0	881.0	0.0
H	8,501 ²	371	1,065	1.3	0	882.3	882.3	882.3	0.0
I	9,398 ²	731	2,004	0.7	0	883.2	883.2	883.2	0.0
J	10,877 ²	146	191	3.1	0	883.4	883.4	883.4	0.0
K	11,352 ²	334	1,252	0.6	0	887.0	887.0	887.0	0.0
L	12,514 ²	425	789	1.3	0	887.3	887.3	887.3	0.0
M	12,989 ²	474	644	1.7	0	888.8	888.8	888.8	0.0
N	13,358 ²	331	751	1.3	0	893.4	893.4	893.4	0.0
O	14,045 ²	220	292	3.4	0	893.8	893.8	893.8	0.0
P	14,467 ²	192	335	3.0	0	897.6	897.6	897.6	0.0
Q	15,259 ²	158	650	1.4	0	905.7	905.7	905.7	0.0
R	15,946 ²	178	327	2.8	0	906.9	906.9	906.9	0.0
S	17,424 ²	69	159	5.8	0	912.4	912.4	912.4	0.0
T	17,741 ²	338	729	1.3	0	913.7	913.7	913.7	0.0

¹FEET ABOVE CONFLUENCE WITH CONEY RIVER, ²FEET FROM CONFLUENCE WITH MILWAUKEE RIVER
³ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM CONEY RIVER

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA	
	WASHINGTON COUNTY, WI AND INCORPORATED AREAS		PUTTER CREEK - QUAAS CREEK	

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
QUAAS CREEK (CONTINUED)									
U	18,744	296	467	2.0	0	914.8	914.8	914.8	0.0
V	19,536	237	272	3.4	0	917.5	917.5	917.5	0.0
W	21,120	337	488	1.8	0	927.3	927.3	927.3	0.0
X	23,232	168	241	3.6	0	937.4	937.4	937.4	0.0
Y	23,549	121	278	3.1	0	940.2	940.2	940.2	0.0
Z	23,940	188	249	3.1	0	942.2	942.2	942.2	0.0
AA	24,077	155	861	0.9	0	947.0	947.0	947.0	0.0
AB	24,869	97	102	4.3	0	947.3	947.3	947.3	0.0
AC	25,291	113	243	1.8	0	953.7	953.7	953.7	0.0
AD	26,294	188	255	1.7	0	958.2	958.2	958.2	0.0
AE	27,403	53	132	3.0	0	964.5	964.5	964.5	0.0
AF	27,509	81	165	2.4	0	965.1	965.1	965.1	0.0
AG	27,562	94	195	2.1	0	965.3	965.3	965.3	0.0
AH	27,826	135	122	3.3	0	966.5	966.5	966.5	0.0
AI	27,878	177	152	2.6	0	967.6	967.6	967.6	0.0
AJ	28,142	231	300	1.3	0	969.4	969.4	969.4	0.0
AK	28,882	252	324	1.2	0	972.5	972.5	972.5	0.0
AL	30,202	175	162	1.0	0	975.5	975.5	975.5	0.0
AM	30,888	43	64	2.5	0	975.7	975.7	975.7	0.0
AN	31,258	86	97	1.7	0	979.4	979.4	979.4	0.0

¹FEET FROM CONFLUENCE WITH MILWAUKEE RIVER

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

QUAAS CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
RUBICON RIVER									
A	399	478	1,121	1.4	0	954.8	954.8	954.8	0.0
B	842	484	1,422	1.1	0	955.7	955.7	955.7	0.0
C	1,324	474	1,820	0.8	0	955.8	955.8	955.8	0.0
D	2,250	502	1,810	0.8	0	956.0	956.0	956.0	0.0
E	2,816	337	1,085	1.3	0	956.1	956.1	956.1	0.0
F	3,314	78	223	6.3	0	956.3	956.3	956.3	0.0
G	3,403	105	420	3.3	0	957.9	957.9	957.9	0.0
H	3,854	211	820	1.7	0	958.4	958.4	958.4	0.0
I	4,468	484	2,009	0.7	0	958.6	958.6	958.6	0.0
J	5,531	309	1,127	1.2	0	958.7	958.7	958.7	0.0
K	6,175	183	709	2.0	0	958.9	958.9	958.9	0.0
L	6,819	341	1,354	1.0	0	959.2	959.2	959.2	0.0
M	7,441	335	1,206	1.2	0	959.4	959.4	959.4	0.0
N	7,965	169	741	1.9	0	959.5	959.5	959.5	0.0
O	8,709	67	406	3.4	0	959.9	959.9	959.9	0.0
P	9,292	92	311	4.5	0	960.3	960.3	960.3	0.0
Q	9,335	92	399	3.5	0	961.2	961.2	961.2	0.0
R	9,853	287	1,395	1.0	0	961.7	961.7	961.7	0.0
S	10,474	600	3,077	0.5	0	961.7	961.7	961.7	0.0
T	11,131	71	375	3.7	0	962.1	962.1	962.1	0.0
U	11,519	83	296	4.6	0	962.5	962.5	962.5	0.0
V	12,047	335	1,150	1.2	0	963.5	963.5	963.5	0.0
W	12,449	183	654	2.1	0	963.6	963.6	963.6	0.0
X	12,897	181	422	3.3	0	964.0	964.0	964.0	0.0
Y	13,310	312	1,362	1.0	0	964.6	964.6	964.6	0.0
Z	13,775	387	971	1.4	0	964.7	964.7	964.7	0.0

¹FEET ABOVE COUNTY BOUNDARY

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

RUBICON RIVER

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
RUBICON RIVER (CONTINUED)									
AA	14,452	393	1,085	1.3	0	965.0	965.0	965.0	0.0
AB	14,978	255	512	2.7	0	965.3	965.3	965.3	0.0
AC	15,235	144	504	2.7	0	966.7	966.7	966.7	0.0
AD	15,635	33	146	9.4	0	967.8	967.8	967.8	0.0
AE	15,852	39	239	5.7	0	971.2	971.2	971.2	0.0
AF	16,175	69	368	3.7	0	972.2	972.2	972.2	0.0
AG	16,258	72	325	4.2	0	980.5	980.5	980.5	0.0
AH	16,707	272	3,157	0.4	0	980.9	980.9	980.9	0.0
AI	17,267	149	1,348	1.0	0	981.3	981.3	981.3	0.0
AJ	17,854	250	482	2.8	0	981.4	981.4	981.4	0.0
AK	18,228	180	648	2.1	0	981.8	981.8	981.8	0.0
AL	18,673	60	237	5.8	0	981.8	981.8	981.8	0.0
AM	18,753	71	318	4.3	0	983.0	983.0	983.0	0.0
AN	19,068	387	1,146	1.2	0	983.5	983.5	983.5	0.0
AO	19,410	249	566	2.4	0	983.6	983.6	983.6	0.0
AP	19,463	246	833	1.6	0	984.6	984.6	984.6	0.0
AQ	19,690	191	659	2.1	0	984.7	984.7	984.7	0.0
AR	19,997	53	207	6.5	0	984.8	984.8	984.8	0.0
AS	20,111	62	298	4.5	0	987.5	987.5	987.5	0.0
AT	20,440	130	552	2.4	0	988.4	988.4	988.4	0.0
AU	20,751	59	192	7.0	0	988.5	988.5	988.5	0.0
AV	20,818	77	407	3.3	0	990.3	990.3	990.3	0.0
AW	21,281	249	930	1.5	0	990.9	990.9	990.9	0.0
AX	21,905	261	740	1.8	0	991.2	991.2	991.2	0.0
AY	22,496	228	551	2.5	0	991.9	991.9	991.9	0.0

¹FEET ABOVE COUNTY BOUNDARY

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

RUBICON RIVER

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
RUBICON RIVER (CONTINUED)									
AZ	22,997	561	1,890	0.7	0	992.2	992.2	992.2	0.0
BA	25,341	2,328	6,469	0.2	0	992.3	992.3	992.3	0.0
BB	26,971	707	2,013	0.6	0	992.3	992.3	992.3	0.0
BC	28,120	822	1,919	0.6	0	992.5	992.5	992.5	0.0
BD	28,639	331	536	2.3	0	992.8	992.8	992.8	0.0
BE	28,732	316	1,365	0.9	0	995.2	995.2	995.2	0.0
BF	29,325	410	1,362	0.9	0	995.3	995.3	995.3	0.0
BG	30,054	861	3,073	0.2	0	995.5	995.5	995.5	0.0
BH	31,560	42	154	3.3	0	995.5	995.5	995.5	0.0
BI	31,766	429	1,160	0.4	0	996.1	996.1	996.1	0.0
BJ	32,687	657	1,764	0.1	0	996.1	996.1	996.1	0.0
BK	33,230	28	110	2.0	0	996.1	996.1	996.1	0.0
BL	33,877	815	1,808	0.4	0	996.7	996.7	996.7	0.0
BM	35,742	63	181	3.6	0	996.7	996.7	996.7	0.0
BN	35,952	72	297	2.2	0	998.0	998.0	998.0	0.0
BO	37,024	836	2,046	0.3	0	998.3	998.3	998.3	0.0
BP	37,468	937	2,199	0.4	0	998.3	998.3	998.3	0.0
BQ	37,943	496	1,223	0.8	0	998.4	998.4	998.4	0.0
BR	38,536	77	207	4.5	0	1,000.0	1,000.0	1,000.0	0.0
BS	38,641	96	392	2.4	0	1,003.7	1,003.7	1,003.7	0.0
BT	38,884	395	1,733	0.5	0	1,003.9	1,003.9	1,003.9	0.0
BU	40,076	1,037	4,448	0.2	0	1,003.9	1,003.9	1,003.9	0.0
BV	41,501	468	1,818	0.5	0	1,004.0	1,004.0	1,004.0	0.0
BW	41,565	480	1,696	0.6	0	1,004.9	1,004.9	1,004.9	0.0
BX	42,159	743	2,331	0.4	0	1,004.9	1,004.9	1,004.9	0.0

¹FEET ABOVE COUNTY BOUNDARY

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

RUBICON RIVER

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
RUBICON RIVER (CONTINUED)									
BY	42,816	701	1,859	0.5	0	1,004.9	1,004.9	1,004.9	0.0
BZ	43,355	238	434	2.1	0	1,005.6	1,005.6	1,005.6	0.0
CA	43,394	377	639	1.4	0	1,007.6	1,007.6	1,007.6	0.0
CB	44,250	483	980	0.9	0	1,007.9	1,007.9	1,007.9	0.0
CC	45,127	235	333	2.4	0	1,010.1	1,010.1	1,010.1	0.0
CD	45,904	175	220	3.6	0	1,016.0	1,016.0	1,016.0	0.0
CE	46,494	34	115	6.9	0	1,020.4	1,020.4	1,020.4	0.0
CF	46,559	49	245	3.3	0	1,023.5	1,023.5	1,023.5	0.0
CG	46,860	276	1,039	0.8	0	1,023.8	1,023.8	1,023.8	0.0
CH	47,259	240	696	1.2	0	1,023.9	1,023.9	1,023.9	0.0
CI	47,329	182	502	1.6	0	1,025.1	1,025.1	1,025.1	0.0
CJ	47,583	182	563	1.4	0	1,025.3	1,025.3	1,025.3	0.0
CK	47,854	134	275	2.9	0	1,025.7	1,025.7	1,025.7	0.0
CL	48,392	378	593	1.4	0	1,026.5	1,026.5	1,026.5	0.0
CM	49,192	1,679	3,773	0.2	0	1,026.7	1,026.7	1,026.7	0.0
CN	49,633	1,164	2,344	0.2	0	1,026.8	1,026.8	1,026.8	0.0
CO	50,403	1,290	2,265	0.2	0	1,026.8	1,026.8	1,026.8	0.0
CP	51,150	1,030	1,639	0.1	0	1,026.8	1,026.8	1,026.8	0.0
CQ	51,638	158	101	1.5	0	1,027.5	1,027.5	1,027.5	0.0
CR	51,915	65	67	2.3	0	1,028.8	1,028.8	1,028.8	0.0
CS	52,149	260	1,478	0.1	0	1,036.6	1,036.6	1,036.6	0.0
CT	54,586	1,530	8,408	0.0	0	1,036.6	1,036.6	1,036.6	0.0

¹FEET ABOVE COUNTY BOUNDARY

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
RUBICON RIVER OVERLAND FLOWPATH									
A	791 ¹	1,116	3,413	0.0	0	996.1	996.1	996.1	0.0
B	1,720 ¹	419	201	0.7	0	997.2	997.2	997.2	0.0
C	2,092 ¹	415	335	0.4	0	997.8	997.8	997.8	0.0
RUBICON RIVER TRIBUTARY 1									
A	0 ²	441	359	1.0	0	955.5	955.5	955.5	0.0
B	957 ²	435	368	1.0	0	956.8	956.8	956.8	0.0
C	1,582 ²	441	295	1.2	0	957.6	957.6	957.6	0.0
RUBICON RIVER TRIBUTARY 2									
A	30 ²	180	366	0.8	0	969.1	969.1	969.1	0.0
B	496 ²	156	99	2.8	0	970.0	970.0	970.0	0.0
C	952 ²	108	74	3.7	0	973.3	973.3	973.3	0.0

¹FEET ABOVE CONFLUENCE WITH RUBICON RIVER, ²FEET ABOVE WASHINGTON / DODGE COUNTY BOUNDARY

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

RUBICON RIVER OVERLAND FLOWPATH - RUBICON RIVER TRIBUTARY 1
 RUBICON RIVER TRIBUTARY 2

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
SCENIC BROOK									
A	795 ²	55	490	0.9	0	976.0	974.3 ⁴	974.3	0.0
B	1,405 ²	20	104	1.7	0	976.0	974.8 ⁴	974.8	0.0
C	1,819 ²	17	34	1.8	0	976.0	975.4 ⁴	975.4	0.0
D	2,151 ²	297	1,470	0.1	0	977.5	977.5	977.5	0.0
E	2,861 ²	615	2,356	0.0	0	977.5	977.5	977.5	0.0
F	3,250 ²	379	1,270	0.1	0	977.5	977.5	977.5	0.0
G	3,498 ²	69	30	2.1	0	977.5	977.5	977.5	0.0
H	3,851 ²	433	209	0.4	0	978.8	978.8	978.8	0.0
I	4,345 ²	297	286	0.6	0	980.1	980.1	980.1	0.0
J	4,713 ²	105	51	1.2	0	981.6	981.6	981.6	0.0
SILVER CREEK									
A	1,162 ³	210	483	0.8	430	899.4	899.4	899.4	0.0
B	2,851 ³	425	1,383	0.3	75	910.3	910.3	910.3	0.0
C	3,960 ³	46	125	3.0	0	920.0	920.0	920.0	0.0
D	5,438 ³	90	70	5.6	0	929.0	929.0	929.0	0.0
E	6,072 ³	59	138	3.3	0	936.1	936.1	936.1	0.0
F	7,128 ³	98	309	1.5	0	936.9	936.9	936.9	0.5
G	9,715 ³	--- ⁵	228	2.0	50	972.2	972.2	972.2	0.0
H	10,560 ³	--- ⁵	40	11.3	0	972.7	972.7	972.7	0.0
I - N ¹									

¹FLOODWAY NOT COMPUTED, ²FEET ABOVE CONFLUENCE WITH BARK RIVER, ³FEET ABOVE MOUTH

⁴ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM BARK RIVER, ⁵CONTAINED IN CULVERT

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

SCENIC BROOK - SILVER CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
SILVERBROOK CREEK									
A	0.700 ¹	485	987	0.2	5	925.7	921.5 ³	921.5	0.0
B	1.800 ¹	80	179	2.2	0	927.5	927.5	927.5	0.0
C	2.650 ¹	50	127	3.1	0	931.2	931.2	931.2	0.0
D	3.600 ¹	54	110	3.4	1	939.0	939.0	939.0	0.0
E	4.900 ¹	244	344	0.8	66	951.3	951.3	951.3	0.0
F	6.950 ¹	168	127	0.5	2	955.2	955.2	955.2	0.0
SPRINGSIDE CREEK									
A	2,460 ²	38	63	4.4	0	861.8	861.8	861.8	0.0
B	2,678 ²	40	63	4.4	0	864.5	864.5	864.5	0.0
C	2,819 ²	197	509	0.6	0	869.7	869.7	869.7	0.0
D	3,732 ²	20	47	2.9	0	870.0	870.0	870.0	0.0
E	3,926 ²	91	123	1.1	0	871.2	871.2	871.2	0.0
F	4,606 ²	109	65	2.1	0	874.4	874.4	874.4	0.0
G	5,007 ²	20	30	4.6	0	880.5	880.5	880.5	0.0
H	5,212 ²	14	28	4.9	0	885.8	885.8	885.8	0.0
I	5,410 ²	69	114	1.2	0	891.1	891.1	891.1	0.0
J	5,775 ²	31	26	5.1	0	892.5	892.5	892.5	0.0
K	6,306 ²	26	34	4.0	0	900.0	900.0	900.0	0.0
¹ MILES ABOVE CONFLUENCE WITH SILVER CREEK, ² FEET ABOVE CONFLUENCE WITH LITTLE CEDAR CREEK ³ ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM SILVER CREEK									
TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA						
	WASHINGTON COUNTY, WI AND INCORPORATED AREAS		SILVERBROOK CREEK - SPRINGSIDE CREEK						

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
UNNAMED TRIBUTARY TO ASHIPGUN RIVER									
A	238 ¹	1,695	2,603	0.1	0	991.2	991.2	991.2	0.0
B	1,851 ¹	540	641	0.4	0	991.2	991.2	991.2	0.0
C	3,892 ¹	1,355 ³	483	0.2	0	991.7	991.7	991.7	0.0
D	5,299 ¹	947 ³	237	0.5	0	992.4	992.4	992.4	0.0
UNNAMED TRIBUTARY TO KEWASKUM CREEK									
A	206 ²	349	213	1.2	0	956.2	956.2	956.2	0.0
B	491 ²	254	219	1.2	0	958.7	958.7	958.7	0.0
C	1,183 ²	105	140	1.8	0	964.7	964.7	964.7	0.0
D	2,328 ²	220	247	1.1	0	970.9	970.9	970.9	0.0
E	2,761 ²	248	238	1.1	0	973.2	973.2	973.2	0.0
F	3,194 ²	155	157	1.7	0	975.4	975.4	975.4	0.0
G	3,601 ²	111	368	1.8	0	977.7	977.7	977.7	0.0
H	3,839 ²	127	104	2.5	0	979.4	979.4	979.4	0.0
¹ FEET ABOVE CONFLUENCE WITH ASHIPGUN RIVER, ³ FEET ABOVE CONFLUENCE WITH KEWASKUM CREEK ³ TOP WIDTH REFLECTS NUMEROUS SMALL ISLANDS THAT COULD NOT BE SHOWN AT MAP SCALE									
TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA						
	WASHINGTON COUNTY, WI AND INCORPORATED AREAS		UNNAMED TRIBUTARY TO ASHIPGUN RIVER - UNNAMED TRIBUTARY TO KEWASKUM CREEK						

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
UT-1 TO BIG CEDAR LAKE									
A	5,632	22	45	8.3	0	1,033.5	1,033.5	1,033.5	0.0
B	5,721	76	402	0.9	0	1,040.4	1,040.4	1,040.4	0.0
C	6,414	20	44	8.5	0	1,048.4	1,048.4	1,048.4	0.0
D	6,883	185	390	1.0	0	1,051.1	1,051.1	1,051.1	0.0
E	7,019	289	871	0.4	0	1,054.0	1,054.0	1,054.0	0.0
F	8,351	207	363	1.0	0	1,054.1	1,054.1	1,054.1	0.0
G	9,829	331	510	0.7	0	1,055.5	1,055.5	1,055.5	0.0
H	10,617	154	145	2.6	0	1,069.2	1,069.2	1,069.2	0.0
I	11,259	27	48	7.7	0	1,083.8	1,083.8	1,083.8	0.0
J	11,951	42	78	4.8	0	1,102.3	1,102.3	1,102.3	0.0
K	12,092	375	3,528	0.1	0	1,115.8	1,115.8	1,115.8	0.0
L	13,105	159	103	1.8	0	1,115.8	1,115.8	1,115.8	0.0
M	13,454	16	34	5.4	0	1,118.0	1,118.0	1,118.0	0.0
N	13,536	160	359	0.5	0	1,121.7	1,121.7	1,121.7	0.0
O	14,977	1,430	4,487	0.0	0	1,121.7	1,121.7	1,121.7	0.0
P	16,002	972	1,439	0.1	0	1,121.7	1,121.7	1,121.7	0.0
Q	17,002	382	1,121	0.2	0	1,121.7	1,121.7	1,121.7	0.0

¹FEET ABOVE CONFLUENCE WITH CEDAR CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
UT-1 TO CEDAR CREEK									
A	135	359	972	0.1	0	864.9	864.9	864.9	0.0
B	892	565	1,512	0.0	0	864.9	864.9	864.9	0.0
C	1,732	16	27	1.5	0	864.9	864.9	864.9	0.0
D	1,760	100	186	0.2	0	866.5	866.5	866.5	0.0
E	2,197	85	44	0.9	0	866.6	866.6	866.6	0.0
F	2,863	32	17	2.4	0	867.1	867.1	867.1	0.0

¹FEET ABOVE COUNTY HIGHWAY Y

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
UT-1 TO CONEY RIVER									
A	0.028	132	131	1.1	0	1,043.2	1,043.2	1,043.2	0.0
B	0.138	24	30	1.9	0	1,044.1	1,044.1	1,044.1	0.0
C	0.199	17	18	3.2	0	1,045.9	1,045.9	1,045.9	0.0
D	0.246	170	398	0.8	0	1,049.7	1,049.7	1,049.7	0.0
E	0.267	321	727	0.5	0	1,050.8	1,050.8	1,050.8	0.0
F	0.387	261	341	1.0	0	1,051.0	1,051.0	1,051.0	0.0
G	0.423	288	1,225	0.3	0	1,055.1	1,055.1	1,055.1	0.0
H	0.562	696	2,825	0.1	0	1,055.1	1,055.1	1,055.1	0.0
I	0.636	736	2,665	0.1	0	1,055.1	1,055.1	1,055.1	0.0
J	0.734	542	1,943	0.2	0	1,055.1	1,055.1	1,055.1	0.0
K	0.831	609	2,064	0.2	0	1,055.1	1,055.1	1,055.1	0.0
L	0.872	672	2,428	0.1	0	1,055.5	1,055.5	1,055.5	0.0
M	1.044	743	1,560	0.2	0	1,055.5	1,055.5	1,055.5	0.0
N	1.137	153	122	2.4	0	1,055.5	1,055.5	1,055.5	0.0
O	1.192	201	630	0.5	0	1,062.2	1,062.2	1,062.2	0.0
P	1.277	550	2,156	0.1	0	1,062.3	1,062.3	1,062.3	0.0
Q	1.391	550	1,578	0.2	0	1,062.3	1,062.3	1,062.3	0.0
UT-1 TO CONEY RIVER OVERFLOW									
A	0.082	186	379	0.2	0	1,046.6	1,046.6	1,046.6	0.0
B	0.126	110	45	1.9	0	1,046.7	1,046.7	1,046.7	0.0
C	0.145	88	31	2.9	0	1,046.9	1,046.9	1,046.9	0.0
D	0.193	252	125	2.2	0	1,049.1	1,049.1	1,049.1	0.0
E	0.216	239	242	1.1	0	1,049.5	1,049.5	1,049.5	0.0

¹MILES ABOVE CONFLUENCE WITH CONEY RIVER

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

UT-1 TO CONEY RIVER - UT-1 TO CONEY RIVER OVERFLOW

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
UT-1 TO CONEY RIVER OVERFLOW WEST									
A	0.083 ¹	208	120	1.6	0	1,046.5	1,046.5	1,046.5	0.0
B	0.145 ¹	409	499	0.4	0	1,046.8	1,046.8	1,046.8	0.0
C	0.194 ¹	233	116	0.0	0	1,046.9	1,046.9	1,046.9	0.0
UT-1 TO EVERGREEN CREEK									
A	535 ²	114	92	2.5	0	866.6	866.5 ³	866.5	0.0
B	926 ²	326	195	1.2	0	867.7	867.7	867.7	0.0
C	1,019 ²	471	2,343	0.1	0	872.6	872.6	872.6	0.0
D	2,601 ²	401	577	0.1	0	872.6	872.6	872.6	0.0

¹MILES ABOVE CONFLUENCE WITH CONEY RIVER, ²FEET ABOVE CONFLUENCE WITH EVERGREEN CREEK

³ELEVATION COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM EVERGREEN CREEK

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

WASHINGTON COUNTY, WI
AND INCORPORATED AREAS

FLOODWAY DATA

UT-1 TO CONEY RIVER OVERFLOW WEST - UT-1 TO EVERGREEN CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
UT-1 TO KRESSEN BRANCH									
A	1,927 ¹	738	1,959	0.1	0	851.1	851.1	851.1	0.0
B	3,751 ¹	484	1,321	0.1	0	851.2	851.2	851.2	0.0
C	5,122 ¹	237	114	1.0	0	852.3	852.3	852.3	0.0
D	6,452 ¹	20	27	4.4	0	857.2	857.2	857.2	0.0
E	6,514 ¹	65	144	0.8	0	859.2	859.2	859.2	0.0
F	7,250 ¹	118	111	1.1	0	859.6	859.6	859.6	0.0
G	7,338 ¹	208	438	0.3	0	861.5	861.5	861.5	0.0
H	7,907 ¹	264	288	0.4	0	861.5	861.5	861.5	0.0
UT-1 TO LITTLE CEDAR CREEK									
A	573 ²	15	26	6.2	0	855.8	855.8	855.8	0.0
B	629 ²	29	123	1.3	0	859.0	859.0	859.0	0.0
C	813 ²	113	291	0.6	0	861.0	861.0	861.0	0.0
D	1,761 ²	100	32	2.2	0	860.9	860.9	860.9	0.0
E	2,009 ²	130	97	0.7	0	864.4	864.4	864.4	0.0
F	2,450 ²	55	28	2.5	0	872.6	872.6	872.6	0.0
G	2,957 ²	9	10	6.7	0	888.3	888.3	888.3	0.0
H	3,288 ²	29	74	1.0	0	890.0	890.0	890.0	0.0

¹FEET ABOVE CONFLUENCE WITH KRESSEN BRANCH, ²FEET ABOVE CONFLUENCE WITH LITTLE CEDAR CREEK

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

UT-1 TO KRESSEN BRANCH - UT-1 TO LITTLE CEDAR CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
UT-1 TO LITTLE CEDAR LAKE									
A	676 ¹	17	13	5.3	0	1,016.2	1,016.1 ⁴	1,016.1	0.0
B	942 ¹	92	124	0.6	0	1,023.0	1,023.0	1,023.0	0.0
C	1,542 ¹	13	12	5.9	0	1,032.1	1,032.1	1,032.1	0.0
D	1,636 ¹	76	234	0.3	0	1,037.8	1,037.8	1,037.8	0.0
E	1,921 ¹	21	15	4.7	0	1,038.6	1,038.6	1,038.6	0.0
UT-1 TO OCONOMOWOC RIVER									
A	2,026 ²	424	851	0.2	0	936.2	936.2	936.2	0.0
B	3,220 ²	326	783	0.2	0	936.3	936.3	936.3	0.0
C	3,955 ²	111	189	0.8	0	936.3	936.3	936.3	0.0
D	4,265 ²	370	621	0.2	0	940.0	940.0	940.0	0.0
E	5,001 ²	832	757	0.2	0	940.0	940.0	940.0	0.0
F	5,534 ²	838	794	0.2	0	940.1	940.1	940.1	0.0
G	6,387 ²	8	17	8.6	0	951.1	951.1	951.1	0.0
H	6,660 ²	313	1,284	0.1	0	955.2	955.2	955.2	0.0
I	8,286 ²	481	168	0.9	0	955.5	955.5	955.5	0.0
J	10,918 ²	487	175	0.3	0	960.9	960.9	960.9	0.0
UT-1 TO POLK SPRINGS CREEK									
A	327 ³	402	1,301	0.2	0	858.7	858.7	858.7	0.0
B	876 ³	31	131	2.4	0	859.7	859.7	859.7	0.0

¹FEET ABOVE CONFLUENCE WITH CEDAR CREEK, ²FEET ABOVE CONFLUENCE WITH OCONOMOWOC RIVER, ³FEET ABOVE CONFLUENCE WITH POLK SPRINGS CREEK

⁴ELEVATION COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM LITTLE CEDAR LAKE

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA	
	WASHINGTON COUNTY, WI AND INCORPORATED AREAS		UT-1 TO LITTLE CEDAR LAKE - UT-1 TO OCONOMOWOC RIVER - UT-1 TO POLK SPRINGS CREEK	

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
UT-1 TO RUBICON RIVER									
A	869	332	503	1.1	0	995.5	995.5	995.5	0.0
B	965	390	939	0.6	0	997.5	997.5	997.5	0.0
C	1,411	116	200	2.7	0	997.5	997.5	997.5	0.0
D	1,714	114	170	3.2	0	998.6	998.6	998.6	0.0
E	2,244	138	161	3.4	0	1,001.5	1,001.5	1,001.5	0.0
F	2,537	180	260	2.1	0	1,002.8	1,002.8	1,002.8	0.0
G	2,849	215	401	1.4	0	1,003.3	1,003.3	1,003.3	0.0
H	3,503	187	330	1.6	0	1,003.9	1,003.9	1,003.9	0.0
I	4,392	226	314	1.7	0	1,005.2	1,005.2	1,005.2	0.0
J	4,506	273	481	1.1	0	1,006.0	1,006.0	1,006.0	0.0
K	5,405	335	590	0.9	0	1,006.4	1,006.4	1,006.4	0.0
L	6,575	412	870	0.6	0	1,006.5	1,006.5	1,006.5	0.0
M	6,640	490	2,080	0.3	0	1,009.2	1,009.2	1,009.2	0.0
N	8,974	1,633	4,463	0.2	0	1,009.3	1,009.3	1,009.3	0.0
O	10,375	1,907	5,329	0.2	0	1,009.3	1,009.3	1,009.3	0.0
P	11,611	953	2,000	0.4	0	1,009.3	1,009.3	1,009.3	0.0
Q	12,793	798	1,033	0.8	0	1,009.8	1,009.8	1,009.8	0.0
R	13,941	451	608	1.4	0	1,011.2	1,011.2	1,011.2	0.0
S	14,657	796	893	1.0	0	1,012.5	1,012.5	1,012.5	0.0
T	14,736	720	2,019	0.4	0	1,014.7	1,014.7	1,014.7	0.0
U	15,372	464	929	0.9	0	1,014.8	1,014.8	1,014.8	0.0
V	16,062	159	190	1.2	0	1,015.5	1,015.5	1,015.5	0.0
W	16,646	53	58	3.8	0	1,019.8	1,019.8	1,019.8	0.0
X	16,975	24	43	5.1	0	1,022.7	1,022.7	1,022.7	0.0
Y	17,246	20	41	5.4	0	1,024.7	1,024.7	1,024.7	0.0

¹FEET ABOVE CONFLUENCE WITH RUBICON RIVER

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

UT-1 TO RUBICON RIVER

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
UT-1 TO RUBICON RIVER (CONTINUED)									
Z	17,346 ¹	45	120	1.8	0	1,028.0	1,028.0	1,028.0	0.0
AA	17,896 ¹	25	91	2.4	0	1,028.3	1,028.3	1,028.3	0.0
AB	19,111 ¹	29	120	1.8	0	1,028.8	1,028.8	1,028.8	0.0
AC	23,077 ¹	73	207	1.1	0	1,029.6	1,029.6	1,029.6	0.0
AD	24,435 ¹	54	159	1.4	0	1,029.7	1,029.7	1,029.7	0.0
AE	24,508 ¹	382	460	0.5	0	1,030.6	1,030.6	1,030.6	0.0
AF	25,801 ¹	1,160	1,714	0.1	0	1,030.7	1,030.7	1,030.7	0.0
AG	27,155 ¹	28	58	2.7	0	1,030.7	1,030.7	1,030.7	0.0
AH	28,091 ¹	15	38	4.2	0	1,032.6	1,032.6	1,032.6	0.0
AI	29,067 ¹	13	27	5.8	0	1,040.4	1,040.4	1,040.4	0.0
AJ	30,030 ¹	15	30	5.3	0	1,048.9	1,048.9	1,048.9	0.0
AK	30,107 ¹	175	426	0.4	0	1,054.0	1,054.0	1,054.0	0.0
AL	30,601 ¹	20	43	3.7	0	1,054.0	1,054.0	1,054.0	0.0
AM	31,068 ¹	130	144	1.1	0	1,054.7	1,054.7	1,054.7	0.0
AN	31,970 ¹	249	136	1.2	0	1,055.4	1,055.4	1,055.4	0.0
UT-1.1 TO RUBICON RIVER									
A	1,150 ²	61	105	2.0	0	1,030.7	1,030.7	1,030.7	0.0
B	1,841 ²	111	119	1.8	0	1,031.0	1,031.0	1,031.0	0.0
C	1,956 ²	761	937	0.2	0	1,032.5	1,032.5	1,032.5	0.0
D	2,655 ²	199	159	1.3	0	1,032.5	1,032.5	1,032.5	0.0
E	3,973 ²	29	83	2.5	0	1,033.1	1,033.1	1,033.1	0.0
F	5,185 ²	24	81	2.6	0	1,034.2	1,034.2	1,034.2	0.0
G	6,569 ²	26	51	2.8	0	1,035.0	1,035.0	1,035.0	0.0

¹FEET ABOVE CONFLUENCE WITH RUBICON RIVER, ²FEET ABOVE CONFLUENCE WITH UT-1 TO RUBICON RIVER

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
UT-1.1 TO RUBICON RIVER (CONTINUED)									
H	7,627 ¹	51	48	2.9	0	1,040.1	1,040.1	1,040.1	0.0
I	8,194 ¹	30	29	4.9	0	1,044.4	1,044.4	1,044.4	0.0
J	8,511 ¹	79	53	2.6	0	1,046.9	1,046.9	1,046.9	0.0
UT-1.1.1 TO RUBICON RIVER									
A	1,605 ²	30	25	2.3	0	1,037.5	1,037.5	1,037.5	0.0
B	3,177 ²	27	32	1.8	0	1,041.0	1,041.0	1,041.0	0.0
UT-1.2 TO RUBICON RIVER									
A	173 ¹	143	182	4.0	0	1,015.4	1,015.4	1,015.4	0.0
B	1,174 ¹	71	133	5.5	0	1,022.3	1,022.3	1,022.3	0.0
C	1,807 ¹	87	178	4.1	0	1,024.9	1,024.9	1,024.9	0.0
D	2,048 ¹	135	291	2.5	0	1,025.5	1,025.5	1,025.5	0.0
E	2,142 ¹	107	317	2.3	0	1,026.9	1,026.9	1,026.9	0.0
F	2,482 ¹	316	589	1.2	0	1,027.2	1,027.2	1,027.2	0.0
G	3,597 ¹	43	67	3.6	0	1,028.9	1,028.9	1,028.9	0.0
H	4,015 ¹	34	79	3.1	0	1,030.5	1,030.5	1,030.5	0.0
I	4,147 ¹	199	964	0.3	0	1,038.0	1,038.0	1,038.0	0.0
J	5,136 ¹	432	1,324	0.2	0	1,038.0	1,038.0	1,038.0	0.0
K	5,989 ¹	232	822	0.3	0	1,038.0	1,038.0	1,038.0	0.0
L	6,077 ¹	295	1,237	0.2	0	1,039.3	1,039.3	1,039.3	0.0
M	7,439 ¹	1,325	4,203	0.1	0	1,039.3	1,039.3	1,039.3	0.0
N	8,908 ¹	289	138	1.7	0	1,039.3	1,039.3	1,039.3	0.0

¹FEET ABOVE CONFLUENCE WITH UT-1 TO RUBICON RIVER, ²FEET ABOVE CONFLUENCE WITH UT-1.1 TO RUBICON RIVER

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

UT-1.1 TO RUBICON RIVER - UT-1.1.1 TO RUBICON RIVER - UT-1.2 TO RUBICON RIVER

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
UT-1.2.1 TO RUBICON RIVER									
A	36 ¹	905	1,316	0.3	0	1,027.3	1,027.3	1,027.3	0.0
B	834 ¹	390	567	0.7	0	1,027.4	1,027.4	1,027.4	0.0
C	1,728 ¹	72	97	4.0	0	1,027.7	1,027.7	1,027.7	0.0
D	2,178 ¹	318	313	1.3	0	1,028.6	1,028.6	1,028.6	0.0
E	2,838 ¹	378	383	1.0	0	1,029.0	1,029.0	1,029.0	0.0
F	3,818 ¹	191	194	2.0	0	1,029.6	1,029.6	1,029.6	0.0
G	4,704 ¹	387	284	0.5	0	1,030.1	1,030.1	1,030.1	0.0
H	5,468 ¹	165	141	0.9	0	1,030.2	1,030.2	1,030.2	0.0
I	5,608 ¹	290	1,053	0.1	0	1,033.7	1,033.7	1,033.7	0.0
J	6,764 ¹	738	1,298	0.1	0	1,033.7	1,033.7	1,033.7	0.0
K	8,353 ¹	552	934	0.1	0	1,033.7	1,033.7	1,033.7	0.0
UT-2 TO CEDAR CREEK									
A	1,929 ²	1,345	5,683	0.2	0	843.6	843.1 ³	843.1	0.0
B	2,944 ²	1,389	5,564	0.2	0	843.6	843.2 ³	843.2	0.0
C	4,684 ²	1,455	4,499	0.2	0	843.6	843.2 ³	843.2	0.0
D	4,810 ²	922	4,824	0.2	0	845.0	845.0	845.0	0.0
E	7,074 ²	965	2,240	0.3	0	845.0	845.0	845.0	0.0
F	7,560 ²	738	475	1.3	0	845.5	845.5	845.5	0.0
G	8,510 ²	158	236	2.6	0	854.5	854.5	854.5	0.0
H	8,560 ²	181	623	1.0	0	857.5	857.5	857.5	0.0
¹ FEET ABOVE CONFLUENCE WITH UT-1.2 TO RUBICON RIVER, ² FEET ABOVE CONFLUENCE WITH CEDAR CREEK ³ ELEVATION COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM CEDAR CREEK									
TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA						
	WASHINGTON COUNTY, WI AND INCORPORATED AREAS		UT-1.2.1 TO RUBICON RIVER - UT-2 TO CEDAR CREEK						

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
UT-2 TO CONEY RIVER									
A	0.071 ¹	26	69	0.5	0	1,051.6	1,051.6	1,051.6	0.0
B	0.184 ¹	30	92	0.4	0	1,051.7	1,051.7	1,051.7	0.0
C	0.401 ¹	272	362	0.1	0	1,051.7	1,051.7	1,051.7	0.0
D	0.535 ¹	549	769	0.0	0	1,051.7	1,051.7	1,051.7	0.0
E	0.854 ¹	100	91	0.4	0	1,051.8	1,051.8	1,051.8	0.0
F	0.948 ¹	57	41	0.8	0	1,052.0	1,052.0	1,052.0	0.0
G	0.997 ¹	32	34	1.0	0	1,052.4	1,052.4	1,052.4	0.0
H	1.146 ¹	77	101	0.3	0	1,052.7	1,052.7	1,052.7	0.0
I	1.253 ¹	121	91	0.4	0	1,052.7	1,052.7	1,052.7	0.0
J	1.415 ¹	14	16	2.1	0	1,053.8	1,053.8	1,053.8	0.0
UT-2 TO LITTLE CEDAR CREEK									
A	551 ²	269	190	0.9	0	973.5	973.5	973.5	0.0
B	950 ²	220	379	0.4	0	975.0	975.0	975.0	0.0
C	1,547 ²	244	182	0.9	0	975.6	975.6	975.6	0.0

¹MILES ABOVE CONFLUENCE WITH CONEY RIVER, ²FEET ABOVE CONFLUENCE WITH LITTLE CEDAR CREEK

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
UT-2 TO OCONOMOWOC RIVER									
A	0.180	148	251	3.2	0	963.8	963.8	963.8	0.0
B	0.259	263	601	1.3	0	965.0	965.0	965.0	0.0
C	0.378	270	558	1.4	0	965.8	965.8	965.8	0.0
D	0.424	459	860	0.9	0	966.1	966.1	966.1	0.0
E	0.511	296	582	1.4	0	966.3	966.3	966.3	0.0
F	0.577	213	249	3.2	0	967.4	967.4	967.4	0.0
G	0.662	150	161	4.9	0	970.7	970.7	970.7	0.0
H	0.790	138	268	3.0	0	976.2	976.2	976.2	0.0
I	0.955	233	290	2.7	0	978.8	978.8	978.8	0.0
J	0.992	107	142	5.6	0	980.7	980.7	980.7	0.0
K	1.097	33	98	2.8	0	983.4	983.4	983.4	0.0
L	1.144	26	64	4.3	0	983.8	983.8	983.8	0.0
M	1.227	16	21	13.2	0	987.5	987.5	987.5	0.0
N	1.268	138	398	0.7	0	999.4	999.4	999.4	0.0
O	1.318	85	141	1.9	0	999.5	999.5	999.5	0.0
P	1.467	92	94	2.9	0	1,003.4	1,003.4	1,003.4	0.0
Q	1.538	52	103	2.7	0	1,004.6	1,004.6	1,004.6	0.0
R	1.685	28	53	5.2	0	1,006.2	1,006.2	1,006.2	0.0
S	1.829	138	189	1.5	0	1,009.8	1,009.8	1,009.8	0.0
T	1.943	138	133	2.1	0	1,010.4	1,010.4	1,010.4	0.0
U	1.981	138	180	1.1	0	1,011.6	1,011.6	1,011.6	0.0
V	2.066	476	991	0.2	0	1,011.7	1,011.7	1,011.7	0.0
W	2.245	188	261	0.8	0	1,011.7	1,011.7	1,011.7	0.0
X	2.287	119	213	0.2	0	1,012.4	1,012.4	1,012.4	0.0

¹MILES ABOVE CONFLUENCE WITH OCONOMOWOC RIVER

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

UT-2 TO OCONOMOWOC RIVER

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
UT-2 TO RUBICON RIVER									
A	1,432	643	668	0.3	0	992.3	992.3	992.3	0.0
B	2,040	187	142	1.3	0	993.4	993.4	993.4	0.0
C	2,109	250	740	0.3	0	996.8	996.8	996.8	0.0
D	2,648	153	254	0.8	0	996.8	996.8	996.8	0.0
E	3,335	87	92	2.1	0	997.1	997.1	997.1	0.0
F	4,401	275	264	0.7	0	999.9	999.9	999.9	0.0
G	5,764	583	325	0.6	0	1,001.7	1,001.7	1,001.7	0.0
H	7,223	410	202	0.9	0	1,004.0	1,004.0	1,004.0	0.0
I	8,163	139	130	1.5	0	1,006.5	1,006.5	1,006.5	0.0
J	8,235	190	597	0.3	0	1,009.2	1,009.2	1,009.2	0.0
K	8,949	258	214	0.9	0	1,009.5	1,009.5	1,009.5	0.0
L	9,630	523	397	0.5	0	1,009.8	1,009.8	1,009.8	0.0
M	10,972	925	646	0.3	0	1,010.5	1,010.5	1,010.5	0.0
N	12,095	658	491	0.4	0	1,011.1	1,011.1	1,011.1	0.0
O	12,709	312	131	1.5	0	1,012.5	1,012.5	1,012.5	0.0
P	13,359	128	89	2.3	0	1,021.6	1,021.6	1,021.6	0.0
Q	13,668	62	23	2.3	0	1,027.9	1,027.9	1,027.9	0.0
R	14,343	19	13	4.1	0	1,046.4	1,046.4	1,046.4	0.0
S	14,931	25	15	3.6	0	1,061.2	1,061.2	1,061.2	0.0
T	15,789	27	18	2.9	0	1,068.7	1,068.7	1,068.7	0.0
U	16,287	20	12	4.5	0	1,073.1	1,073.1	1,073.1	0.0
V	16,337	224	542	0.1	0	1,077.0	1,077.0	1,077.0	0.0
W	16,729	78	64	0.8	0	1,077.0	1,077.0	1,077.0	0.0
X	17,355	29	14	3.8	0	1,084.6	1,084.6	1,084.6	0.0

¹FEET ABOVE CONFLUENCE WITH RUBICON RIVER

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

UT-2 TO RUBICON RIVER

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
UT-2.1 TO RUBICON RIVER									
A	1,411	2,583	6,045	0.0	0	992.3	992.3	992.3	0.0
B	3,176	1,005	455	0.3	0	992.3	992.3	992.3	0.0
C	3,643	186	136	1.0	0	993.2	993.2	993.2	0.0
D	4,382	995	1,601	0.1	0	997.0	997.0	997.0	0.0
E	5,609	816	593	0.2	0	997.0	997.0	997.0	0.0
F	6,726	239	161	0.9	0	997.8	997.8	997.8	0.0
G	8,051	9	23	6.0	0	1,004.9	1,004.9	1,004.9	0.0
H	9,008	41	62	2.3	0	1,009.4	1,009.4	1,009.4	0.0
UT-3 TO RUBICON RIVER									
A	688	171	320	3.0	0	955.8	955.8	955.8	0.0
B	1,058	317	2,765	0.3	0	965.9	965.9	965.9	0.0
C	1,435	312	1,748	0.5	0	967.1	967.1	967.1	0.0
D	1,783	426	2,408	0.4	0	967.1	967.1	967.1	0.0
E	3,586	113	309	3.1	0	967.2	967.2	967.2	0.0
F	3,788	84	316	3.0	0	967.5	967.5	967.5	0.0
G	4,239	226	590	1.6	0	970.3	970.3	970.3	0.0
H	4,887	180	373	2.6	0	973.6	973.6	973.6	0.0
I	5,243	235	304	3.1	0	976.7	976.7	976.7	0.0
J	5,517	175	222	4.3	0	980.1	980.1	980.1	0.0
K	6,235	151	271	3.5	0	984.6	984.6	984.6	0.0
L	6,482	87	257	3.7	0	988.6	988.6	988.6	0.0
M	6,879	223	804	1.2	0	995.3	995.3	995.3	0.0
N	7,394	240	507	0.9	0	995.4	995.4	995.4	0.0

¹FEET ABOVE CONFLUENCE WITH RUBICON RIVER

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
UT-3 TO RUBICON RIVER (CONTINUED)									
O	8,080 ¹	218	209	2.1	0	995.6	995.6	995.6	0.0
P	8,476 ¹	52	81	5.4	0	998.0	998.0	998.0	0.0
Q	9,124 ¹	65	172	2.6	0	1,001.1	1,001.1	1,001.1	0.0
R	9,696 ¹	492	362	1.2	0	1,002.3	1,002.3	1,002.3	0.0
S	10,510 ¹	48	66	3.0	0	1,003.5	1,003.5	1,003.5	0.0
T	11,415 ¹	398	324	0.6	0	1,004.1	1,004.1	1,004.1	0.0
U	12,715 ¹	56	67	3.0	0	1,004.6	1,004.6	1,004.6	0.0
UT-3.1 TO RUBICON RIVER									
A	900 ²	71	79	4.3	0	1,005.6	1,005.6	1,005.6	0.0
B	1,567 ²	103	88	3.8	0	1,008.4	1,008.4	1,008.4	0.0
C	2,109 ²	36	51	6.6	0	1,014.4	1,014.4	1,014.4	0.0
D	2,694 ²	47	58	5.9	0	1,020.9	1,020.9	1,020.9	0.0
E	3,284 ²	33	49	6.9	0	1,027.8	1,027.8	1,027.8	0.0
F	3,729 ²	51	63	5.4	0	1,032.5	1,032.5	1,032.5	0.0
UT-4 TO RUBICON RIVER									
A	1,394 ¹	802	917	0.3	0	1,026.8	1,026.8	1,026.8	0.0
B	2,587 ¹	314	175	1.5	0	1,027.0	1,027.0	1,027.0	0.0
C	4,200 ¹	674	548	0.5	0	1,028.5	1,028.5	1,028.5	0.0

¹FEET ABOVE CONFLUENCE WITH RUBICON RIVER, ²FEET ABOVE CONFLUENCE WITH UT-3 TO RUBICON RIVER

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
AND INCORPORATED AREAS

FLOODWAY DATA

UT-3 TO RUBICON RIVER - UT-3.1 TO RUBICON RIVER
UT-4 TO RUBICON RIVER

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
UT-5 TO RUBICON RIVER									
A	1,023 ¹	1,982	3,672	0.2	0	1,026.8	1,026.8	1,026.8	0.0
B	1,919 ¹	1,028	817	1.0	0	1,026.9	1,026.9	1,026.9	0.0
C	2,874 ¹	1,196	632	0.1	0	1,028.1	1,028.1	1,028.1	0.0
D	4,748 ¹	12	15	2.7	0	1,030.4	1,030.4	1,030.4	0.0
E	4,866 ¹	62	383	0.1	0	1,036.6	1,036.6	1,036.6	0.0
F	6,349 ¹	68	334	0.2	0	1,036.6	1,036.6	1,036.6	0.0
G	6,451 ¹	14	75	0.7	0	1,037.1	1,037.1	1,037.1	0.0
H	7,504 ¹	1,310	5,550	0.0	0	1,037.1	1,037.1	1,037.1	0.0
I	8,606 ¹	1,471	6,552	0.0	0	1,037.1	1,037.1	1,037.1	0.0
WASHINGTON CREEK									
A	6,019 ²	49	119	2.5	51	981.4	981.4	981.4	0.0
B	11,299 ²	29	76	1.8	0	986.0	986.0	986.0	0.0
C	14,467 ²	48	41	2.2	0	986.9	986.9	986.9	0.0
D	16,368 ²	38	14	3.0	0	987.4	987.4	987.4	0.0
E	18,744 ²	--- ³	66	0.6	0	989.1	989.1	989.1	0.0
F	27,562 ²	463	66	1.6	0	990.3	990.3	990.3	0.0
G	34,109 ²	859	1,078	0.2	111	993.3	993.3	993.3	0.0
H	43,824 ²	50	65	2.6	0	1,002.1	1,002.1	1,002.1	0.0

¹FEET ABOVE CONFLUENCE WITH RUBICON RIVER, ²FEET ABOVE CONFLUENCE WITH SILVER CREEK, ³CONTAINED IN CULVERT

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
WINGATE CREEK									
A	1,214	155	303	2.3	0	870.0	866.5 ²	866.5	0.0
B	3,010	301	465	1.5	0	870.1	870.1	870.1	0.0
C	3,485	712	2,711	0.2	0	874.4	874.4	874.4	0.0
D	5,238	441	361	1.3	0	875.0	875.0	875.0	0.0
E	5,280	137	184	2.6	0	877.8	877.8	877.8	0.0
F	6,072	86	102	4.7	0	879.2	879.2	879.2	0.0
G	6,706	51	73	5.3	0	883.2	883.2	883.2	0.0
H	7,445	40	68	5.0	0	888.1	888.1	888.1	0.0
I	7,630	134	249	1.4	0	892.4	892.4	892.4	0.0
J	8,237	63	54	1.8	0	893.5	893.5	893.5	0.0
K	8,437	126	53	1.8	0	895.2	895.2	895.2	0.0
L	9,504	31	139	0.8	0	900.5	900.5	900.5	0.0
M	12,619	898	519	0.2	0	904.6	904.6	904.6	0.0

¹FEET ABOVE CONFLUENCE WITH MILWAUKEE RIVER, ²ELEVATIONS COMPUTED WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM THE MILWAUKEE RIVER

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
WASHINGTON COUNTY, WI
 AND INCORPORATED AREAS

FLOODWAY DATA

WINGATE CREEK

Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams
[Not Applicable to this Flood Risk Project]

6.4 Coastal Flood Hazard Mapping

This section is not applicable to this Flood Risk Project.

Table 25: Summary of Coastal Transect Mapping Considerations
[Not Applicable to this Flood Risk Project]

6.5 FIRM Revisions

This FIS Report and the FIRM are based on the most up-to-date information available to FEMA at the time of its publication; however, flood hazard conditions change over time. Communities or private parties may request flood map revisions at any time. Certain types of requests require submission of supporting data. FEMA may also initiate a revision. Revisions to FIS projects may take several forms, including Letters of Map Amendment (LOMAs), Letters of Map Revision Based on Fill (LOMR-Fs), Letters of Map Revision (LOMRs) (referred to collectively as Letters of Map Change (LOMCs)), Physical Map Revisions (PMRs), and FEMA-contracted restudies. These types of revisions are further described below. Some of these types of revisions do not result in the republishing of the FIS Report. To assure that any user is aware of all revisions, it is advisable to contact the community repository of flood-hazard data (shown in Table 30, “Map Repositories”).

6.5.1 Letters of Map Amendment

A LOMA is an official revision by letter to an effective NFIP map. A LOMA results from an administrative process that involves the review of scientific or technical data submitted by the owner or lessee of property who believes the property has incorrectly been included in a designated SFHA. A LOMA amends the currently effective FEMA map and establishes that a specific property is not located in a SFHA. A LOMA cannot be issued for properties located on the PFD (primary frontal dune).

To obtain an application for a LOMA, visit www.fema.gov/letter-map-amendment-loma and download the form “MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill”. Visit the “Flood Map-Related Fees” section to determine the cost, if any, of applying for a LOMA.

FEMA offers a tutorial on how to apply for a LOMA. The LOMA Tutorial Series can be accessed at www.fema.gov/online-tutorials.

For more information about how to apply for a LOMA, call the FEMA Map Information eXchange; toll free, at 1-877-FEMA MAP (1-877-336-2627).

6.5.2 Letters of Map Revision Based on Fill

A LOMR-F is an official revision by letter to an effective NFIP map. A LOMR-F states FEMA’s determination concerning whether a structure or parcel has been elevated on fill above the base flood elevation and is, therefore, excluded from the SFHA.

Information about obtaining an application for a LOMR-F can be obtained in the same manner as that for a LOMA, by visiting www.fema.gov/letter-map-amendment-loma for the “MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill” or by calling the FEMA Map Information eXchange, toll free, at 1-877-FEMA MAP (1-877-336-2627). Fees for applying for a LOMR-F, if any, are listed in the “Flood Map-Related Fees” section.

A tutorial for LOMR-F is available at www.fema.gov/online-tutorials.

6.5.3 Letters of Map Revision

A LOMR is an official revision to the currently effective FEMA map. It is used to change flood zones, floodplain and floodway delineations, flood elevations and planimetric features. All requests for LOMRs should be made to FEMA through the chief executive officer of the community, since it is the community that must adopt any changes and revisions to the map. If the request for a LOMR is not submitted through the chief executive officer of the community, evidence must be submitted that the community has been notified of the request.

To obtain an application for a LOMR, visit www.fema.gov/media-library/assets/documents/1343 and download the form “MT-2 Application Forms and Instructions for Conditional Letters of Map Revision and Letters of Map Revision”. Visit the “Flood Map-Related Fees” section to determine the cost of applying for a LOMR. For more information about how to apply for a LOMR, call the FEMA Map Information eXchange; toll free, at 1-877-FEMA MAP (1-877-336-2627) to speak to a Map Specialist.

Previously issued mappable LOMCs (including LOMRs) that have been incorporated into the Washington County FIRM are listed in Table 26.

Table 26: Incorporated Letters of Map Change

Case Number	Effective Date	Flooding Source	FIRM Panel(s)
15-05-0254P	7/1/2015	Milwaukee River	55131C0178E, 55131C0179E, 55131C0186E, 55131C0187E, 55131C0191E

6.5.4 Physical Map Revisions

A Physical Map Revisions (PMR) is an official republication of a community's NFIP map to effect changes to base flood elevations, floodplain boundary delineations, regulatory floodways and planimetric features. These changes typically occur as a result of structural works or improvements, annexations resulting in additional flood hazard areas or correction to base flood elevations or SFHAs.

The community's chief executive officer must submit scientific and technical data to FEMA to support the request for a PMR. The data will be analyzed and the map will be revised if warranted. The community is provided with copies of the revised information and is afforded a review period. When the base flood elevations are changed, a 90-day appeal

period is provided. A 6-month adoption period for formal approval of the revised map(s) is also provided.

For more information about the PMR process, please visit www.fema.gov and visit the “Flood Map Revision Processes” section.

6.5.5 Contracted Restudies

The NFIP provides for a periodic review and restudy of flood hazards within a given community. FEMA accomplishes this through a national watershed-based mapping needs assessment strategy, known as the Coordinated Needs Management Strategy (CNMS). The CNMS is used by FEMA to assign priorities and allocate funding for new flood hazard analyses used to update the FIS Report and FIRM. The goal of CNMS is to define the validity of the engineering study data within a mapped inventory. The CNMS is used to track the assessment process, document engineering gaps and their resolution, and aid in prioritization for using flood risk as a key factor for areas identified for flood map updates. Visit www.fema.gov to learn more about the CNMS or contact the FEMA Regional Office listed in Section 8 of this FIS Report.

6.5.6 Community Map History

The current FIRM presents flooding information for the entire geographic area of Washington County. Previously, separate FIRMs, Flood Hazard Boundary Maps (FHBM) and/or Flood Boundary and Floodway Maps (FBFMs) may have been prepared for the incorporated communities and the unincorporated areas in the county that had identified SFHAs. Current and historical data relating to the maps prepared for the project area are presented in Table 27, “Community Map History.” A description of each of the column headings and the source of the date is also listed below.

- *Community Name* includes communities falling within the geographic area shown on the FIRM, including those that fall on the boundary line, nonparticipating communities, and communities with maps that have been rescinded. Communities with No Special Flood Hazards are indicated by a footnote. If all maps (FHBM, FBFM, and FIRM) were rescinded for a community, it is not listed in this table unless SFHAs have been identified in this community.
- *Initial Identification Date (First NFIP Map Published)* is the date of the first NFIP map that identified flood hazards in the community. If the FHBM has been converted to a FIRM, the initial FHBM date is shown. If the community has never been mapped, the upcoming effective date or “pending” (for Preliminary FIS Reports) is shown. If the community is listed in Table 27 but not identified on the map, the community is treated as if it were unmapped.
- *Initial FHBM Effective Date* is the effective date of the first Flood Hazard Boundary Map (FHBM). This date may be the same date as the Initial NFIP Map Date.
- *FHBM Revision Date(s)* is the date(s) that the FHBM was revised, if applicable.
- *Initial FIRM Effective Date* is the date of the first effective FIRM for the community. This is the first effective date that is shown on the FIRM panel.

- *FIRM Revision Date(s)* is the date(s) the FIRM was revised, if applicable. This is the revised date that is shown on the FIRM panel, if applicable. As countywide studies are completed or revised, each community listed should have its FIRM dates updated accordingly to reflect the date of the countywide study. Once the FIRMs exist in countywide format, as Physical Map Revisions (PMR) of FIRM panels within the county are completed, the FIRM Revision Dates in the table for each community affected by the PMR are updated with the date of the PMR, even if the PMR did not revise all the panels within that community.

The initial effective date for the Washington County FIRMs in countywide format was 11/20/2013.

Table 27: Community Map History

Community Name	Initial Identification Date (First NFIP Map Published)	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Germantown, Village of	06/28/1974	06/28/1974	06/24/1977	05/03/1982	TBD 10/16/2015 11/20/2013
Hartford, City of	01/09/1974	01/09/1974	05/14/1976	12/04/1984	10/16/2015 11/20/2013
Jackson, Village of	12/21/1973	12/21/1973	03/30/1979 05/21/1976	08/17/1981	TBD 11/20/2013
Kewaskum, Village of	12/21/1973	12/21/1973	03/11/1977 04/23/1976	01/06/1982	11/20/2013
Milwaukee, City of ¹	06/28/1974	06/28/1974	10/15/1976	03/01/1982	11/20/2013 11/19/1987 11/15/1985
Newburg, Village of ²	12/04/2007	N/A	N/A	12/04/2007	TBD 11/20/2013
Richfield, Village of	08/12/1977 ³	N/A	N/A	09/01/1983 ³	TBD 11/20/2013
Slinger, Village of ²	10/21/1977	10/21/1977	N/A	11/20/2013	TBD 10/16/2015
Washington County, Unincorporated Areas	08/12/1977	08/12/1977	N/A	09/01/1983	TBD 10/16/2015 11/20/2013
West Bend, City of	12/28/1973	12/28/1973	04/30/1976	08/02/1982	TBD 11/20/2013

¹ Special flood areas have been identified in this community; however, none exist within the portion of the community located in Washington County

² This community does not have a FIRM prior to the first countywide FIRM for Washington County

³ Date for this community taken from the Washington County, Unincorporated Areas

SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION

7.1 Contracted Studies

Table 28 provides a summary of the contracted studies, by flooding source, that are included in this FIS Report.

Table 28: Summary of Contracted Studies Included in this FIS Report

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Amy Bell Creek	10/16/2015	WI-DNR	WI-10-01	2013	Richfield, Village of
Ashippun River	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
Ashippun River Overland Flowpath	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
Ashippun River Tributary 2	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
Ashippun River Tributary 2.1	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
Ashippun River Tributary 2.2	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
Ashippun River Tributary 3	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
Ashippun River Tributary 4	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
Ashippun River Tributary 5	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
Bark River	10/16/2015	WI-DNR	WI-10-01	2013	Richfield, Village of

Table 28: Summary of Contracted Studies Included in this FIS Report (*continued*)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Bark River Tributary 1	10/16/2015	WI-DNR	WI-10-01	2013	Richfield, Village of
Bark River Tributary 1.1	10/16/2015	WI-DNR	WI-10-01	2013	Richfield, Village of
Bolton Brook	03/01/1983	Donohue & Associates, Inc.	H-4726	1980	Washington County, Unincorporated Areas
Bonniwell Creek	TBD	WI-DNR	WI-17-01	2018	Richfield, Village of; Germantown, Village of
Butler Creek Tributary 1	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
Butler Creek Tributary 2	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
Cedar Creek	TBD	WI-DNR	WI-17-01	2018	Jackson, Village of; Washington County, Unincorporated Areas
Cedar Lake	TBD	WI-DNR	WI-17-01	2018	Washington County, Unincorporated Areas
Cedarburg Creek	TBD	WI-DNR	WI-17-01	2018	Washington County, Unincorporated Areas
Coney River	10/16/2015	WI-DNR	WI-10-01	2013	Richfield, Village of; Washington County, Unincorporated Areas
Coney River	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
Coney River Overland Flowpath	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas

Table 28: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Deer Creek	TBD	WI-DNR	WI-17-01	2018	Washington County, Unincorporated Areas
East Branch Rock River	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
Edgewood Creek	11/13/2013	SEWRPC	N/A	1996	Kewaskum, Village of
Edgewood Creek Overflow Channel	11/13/2013	SEWRPC	N/A	1996	Kewaskum, Village of
Evergreen Bypass	TBD	WI-DNR	WI-17-01	2018	Washington County, Unincorporated Areas
Evergreen Creek	TBD	WI-DNR	WI-17-01	2018	West Bend, City of; Washington County, Unincorporated Areas
Flynn Creek	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
Frieden's Creek	TBD	WI-DNR	WI-17-01	2018	Jackson, Village of; Washington County; Unincorporated Areas
Green Lake	03/01/1983	Donohue & Associates, Inc.	H-4726	1980	Washington County, Unincorporated Areas
Hasmer Creek	TBD	WI-DNR	WI-17-01	2018	Jackson, Village of; Washington County, Unincorporated Areas
Hubertus Ditch No. 1	10/16/2015	WI-DNR	WI-10-01	2013	Richfield, Village of

Table 28: Summary of Contracted Studies Included in this FIS Report (*continued*)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Jackson Creek	TBD	WI-DNR	WI-17-01	2018	Jackson, Village of; Washington County, Unincorporated Areas
Kettleview Creek	11/13/2013	SEWRPC	N/A	1996	Kewaskum, Village of; Washington County, Unincorporated Areas
Kewaskum Creek	11/13/2013	SEWRPC	N/A	1996	Kewaskum, Village of; Washington County, Unincorporated Areas
Kewaskum Creek Overflow Channel	11/13/2013	SEWRPC	N/A	1996	Washington County, Unincorporated Areas
Knights Creek	11/13/2013	SEWRPC	N/A	1996	Kewaskum, Village of; Washington County, Unincorporated Areas
Kohlsville River	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
Kohlsville River – Park Route	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
Kressen Branch	TBD	WI-DNR	WI-17-01	2018	Germantown, Village of; Washington County, Unincorporated Areas
Lake Five	10/16/2015	WI-DNR	WI-10-01	2013	Richfield, Village of
Lehner Outlet	TBD	WI-DNR	WI-17-01	2018	Washington County, Unincorporated Areas

Table 28: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Little Cedar Creek	TBD	WI-DNR	WI-17-01	2018	Germantown, Village of; Richfield, Village of; Washington County, Unincorporated Areas
Little Cedar Creek Bypass	TBD	WI-DNR	WI-17-01	2018	Germantown, Village of; Richfield, Village of; Washington County, Unincorporated Areas
Little Oconomowoc River	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
Lower Rock River Watershed Zone A Studies	11/20/2013	Camp, Dresser, & Mckee	Information Unavailable	2013	Richfield, Village of
Marsh Creek	03/01/1983	Donohue & Associates, Inc.	H-4726	1980	Richfield, Village of
Mason Creek	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
Mason Creek Tributary 1	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
Menomonee River	11/03/1981	Donohue & Associates, Inc.	H-4726	1980	Germantown, Village of
Milwaukee River	TBD	N/A	N/A	2015	Newburg, Village of; Washington County, Unincorporated Areas

Table 28: Summary of Contracted Studies Included in this FIS Report (*continued*)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Milwaukee River	03/01/1983	Donohue & Associates, Inc.	H-4726	1980	Kewaskum, Village of; Washington County, Unincorporated Areas; West Bend, City of
Milwaukee River Watershed Zone A Studies	11/20/2013	Camp, Dresser, & Mckee	Information Unavailable	2013	Germantown, Village of; Jackson, Village of; Washington County, Unincorporated Areas; West Bend, City of
Mueller Lake	TBD	WI-DNR	WI-17-01	2018	Washington County, Unincorporated Areas
Myra Creek	03/01/1983	Donohue & Associates, Inc.	H-4726	1980	Washington County, Unincorporated Areas
Nature's Friends Tributary	TBD	WI-DNR	WI-17-01	2018	Washington County, Unincorporated Areas
North Branch Cedar Creek	TBD	WI-DNR	WI-17-01	2018	Washington County, Unincorporated Areas
North Branch Menomonee River	11/03/1981	Donohue & Associates, Inc.	H-4726	1980	Germantown, Village of
North Branch Milwaukee River	03/01/1983	Donohue & Associates, Inc.	H-4726	1980	Washington County, Unincorporated Areas
North Creek	11/13/2013	SEWRPC	N/A	1996	Kewaskum, Village of; Washington County, Unincorporated Areas
North Crossway Channel	11/03/1981	Donohue & Associates, Inc.	H-4726	1980	Germantown, Village of

Table 28: Summary of Contracted Studies Included in this FIS Report (*continued*)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Oconomowoc River	10/16/2015	WI-DNR	WI-10-01	2013	Richfield, Village of; Washington County, Unincorporated Areas
Oconomowoc Bypass	TBD	WI-DNR	WI-17-01	2018	Richfield, Village of; Washington County, Unincorporated Areas
Polk Springs Creek	TBD	WI-DNR	WI-17-01	2018	Washington County, Unincorporated Areas
Putter Creek	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
Quaas Creek	11/13/2013	SEWRPC	N/A	1989	Washington County, Unincorporated Areas; West Bend, City of
Rubicon River	10/16/2015	WI-DNR	WI-10-01	2013	Hartford, City of; Slinger, Village of; Washington County; Unincorporated Areas
Rubicon River Overland Flowpath	10/16/2015	WI-DNR	WI-10-01	2013	Hartford, City of; Washington County, Unincorporated Areas
Rubicon River Tributary 1	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
Rubicon River Tributary 2	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
Scenic Brook	10/16/2015	WI-DNR	WI-10-01	2013	Richfield, Village of

Table 28: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Silver Creek	07/16/1997	SEWRPC	N/A	1995	Washington County, Unincorporated Areas; West Bend, City of
Silverbrook Creek	07/16/1997	SEWRPC	N/A	1995	Washington County, Unincorporated Areas; West Bend, City of
Springside Creek	TBD	WI-DNR	WI-17-01	2018	Germantown, Village of; Richfield, Village of; Washington County, Unincorporated Areas
Stony Creek	03/01/1983	Donohue & Associates, Inc.	H-4726	1980	Washington County, Unincorporated Areas
Tributary No. 1	11/03/1981	Donohue & Associates, Inc.	H-4726	1980	Germantown, Village of
Tributary No. 1A	11/03/1981	Donohue & Associates, Inc.	H-4726	1980	Germantown, Village of
Tributary No. 1B	11/03/1981	Donohue & Associates, Inc.	H-4726	1980	Germantown, Village of
Tributary No. 2	11/03/1981	Donohue & Associates, Inc.	H-4726	1980	Germantown, Village of
Tributary No. 3	11/03/1981	Donohue & Associates, Inc.	H-4726	1980	Germantown, Village of
Tributary No. 5	11/03/1981	Donohue & Associates, Inc.	H-4726	1980	Germantown, Village of
Unnamed Tributary to Ashippun River	10/16/2015	WI-DNR	WI-10-01	2013	Hartford, City of; Washington County, Unincorporated Areas

Table 28: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Unnamed Tributary to Frieden's Creek	10/16/2015	FEMA	N/A	2005	Washington County, Unincorporated Areas
Unnamed Tributary to Kewaskum Creek	11/13/2013	SEWRPC	N/A	1996	Washington County, Unincorporated Areas
Unnamed Tributary to North Crossway Channel	11/03/1981	Donohue & Associates, Inc.	H-4726	1980	Germantown, Village of
Upper Rock River Watershed Zone A Studies	11/20/2013	Camp, Dresser, & Mckee	Information Unavailable	2013	Richfield, Village of; Washington County, Unincorporated Areas
UT-1 to Big Cedar Lake	TBD	WI-DNR	WI-17-01	2018	Washington County, Unincorporated Areas
UT-1 to Cedar Creek	TBD	WI-DNR	WI-17-01	2018	Washington County, Unincorporated Areas
UT-1 to Coney River	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
UT-1 to Coney River Overflow	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
UT-1 to Coney River Overflow West	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
UT-1 to Evergreen Creek	TBD	WI-DNR	WI-17-01	2018	Washington County, Unincorporated Areas

Table 28: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
UT-1 to Hasmer Creek	10/16/2015	N/A	N/A	2011	Jackson, Village of; Washington County, Unincorporated Areas
UT-1 to Kressen Branch	TBD	WI-DNR	WI-17-01	2018	Washington County, Unincorporated Areas
UT-1 to Little Cedar Creek	TBD	WI-DNR	WI-17-01	2018	Washington County, Unincorporated Areas
UT-1 to Little Cedar Lake	TBD	WI-DNR	WI-17-01	2018	Washington County, Unincorporated Areas
UT-1 to Oconomowoc River	10/16/2015	WI-DNR	WI-10-01	2013	Richfield, Village of; Washington County, Unincorporated Areas
UT-1 to Polk Springs Creek	TBD	WI-DNR	WI-17-01	2018	Washington County, Unincorporated Areas
UT-1 to Rubicon River	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
UT-1.1 to Rubicon River	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
UT-1.1.1 to Rubicon River	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
UT-1.2 to Rubicon River	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
UT-1.2.1 to Rubicon River	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas

Table 28: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
UT-2 to Cedar Creek	TBD	WI-DNR	WI-17-01	2018	Washington County, Unincorporated Areas
UT-2 to Coney River	10/16/2015	WI-DNR	WI-10-01	2013	Richfield, Village of; Washington County, Unincorporated Areas
UT-2 to Little Cedar Creek	TBD	WI-DNR	WI-17-01	2018	Washington County, Unincorporated Areas
UT-2 to Oconomowoc River	10/16/2015	WI-DNR	WI-10-01	2013	Richfield, Village of
UT-2 to Rubicon River	10/16/2015	WI-DNR	WI-10-01	2013	Washington County, Unincorporated Areas
UT-2.1 to Rubicon River	10/16/2015	WI-DNR	WI-10-01	2013	Hartford, City of; Washington County, Unincorporated Areas
UT-3 to Rubicon River	10/16/2015	WI-DNR	WI-10-01	2013	Hartford, City of; Washington County, Unincorporated Areas
UT-3.1 to Rubicon River	10/16/2015	WI-DNR	WI-10-01	2013	Hartford, City of; Washington County, Unincorporated Areas
UT-4 to Rubicon River	10/16/2015	WI-DNR	WI-10-01	2013	Slinger, Village of; Washington County, Unincorporated Areas
UT-5 to Rubicon River	10/16/2015	WI-DNR	WI-10-01	2013	Slinger, Village of; Washington County, Unincorporated Areas

Table 28: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Wallace Lake	03/01/1983	Donohue & Associates, Inc.	H-4726	1980	Washington County, Unincorporated Areas
Washington Creek	07/16/1997	SEWRPC	N/A	1995	Washington County, Unincorporated Areas; West Bend, City of
West Branch Menomonee River	11/03/1981	Donohue & Associates, Inc.	H-4726	1980	Germantown, Village of
West Branch Milwaukee River	03/01/1983	Donohue & Associates, Inc.	H-4726	1980	Washington County, Unincorporated Areas
Willow Creek	11/03/1981	Donohue & Associates, Inc.	H-4726	1980	Germantown, Village of
Wingate Creek	11/13/2013	SEWRPC	N/A	1989	Washington County, Unincorporated Areas; West Bend, City of

7.2 Community Meetings

The dates of the community meetings held for this Flood Risk Project and previous Flood Risk Projects are shown in Table 29. These meetings may have previously been referred to by a variety of names (Community Coordination Officer (CCO), Scoping, Discovery, etc.), but all meetings represent opportunities for FEMA, community officials, study contractors, and other invited guests to discuss the planning for and results of the project.

Table 29: Community Meetings

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Germantown, Village of	TBD	TBD	Final CCO	Representatives of FEMA, Wisconsin DNR, and the communities
Hartford, City of	10/16/2015	02/01/2011 02/07/2011	Initial CCO	Representatives of FEMA, Wisconsin DNR, and the communities
		11/19/2013	Final CCO	Representatives of FEMA, Wisconsin DNR, and the communities
Jackson, Village of	TBD	TBD	Final CCO	Representatives of FEMA, Wisconsin DNR, and the communities
Kewaskum, Village of	11/13/2013	07/19/2005	Initial CCO	Representatives of FEMA, Wisconsin DNR, and the communities
		08/16/2007	Final CCO	Representatives of FEMA, Wisconsin DNR, and the communities
Milwaukee, City of	11/13/2013	07/19/2005	Initial CCO	Representatives of FEMA, Wisconsin DNR, and the communities
		08/16/2007	Final CCO	Representatives of Wisconsin DNR, and the communities
Newburg, Village of	TBD	TBD	Final CCO	Representatives of FEMA, Wisconsin DNR, and the communities
Richfield, Village of	TBD	TBD	Final CCO	Representatives of FEMA, Wisconsin DNR, and the communities
Slinger, Village of	TBD	TBD	Final CCO	Representatives of FEMA, Wisconsin DNR, and the communities
Washington County and Incorporated Areas	TBD	TBD	Final CCO	Representatives of FEMA, Wisconsin DNR, and the communities
West Bend, City of	TBD	TBD	Final CCO	Representatives of FEMA, Wisconsin DNR, and the communities

SECTION 8.0 – ADDITIONAL INFORMATION

Information concerning the pertinent data used in the preparation of this FIS Report can be obtained by submitting an order with any required payment to the FEMA Engineering Library. For more information on this process, see www.fema.gov.

The additional data that was used for this project includes the FIS Report and FIRM that were previously prepared for Washington County, (FEMA 2014).

Table 30 is a list of the locations where FIRMs for Washington County can be viewed. Please note that the maps at these locations are for reference only and are not for distribution. Also, please note that only the maps for the community listed in the table are available at that particular repository. A user may need to visit another repository to view maps from an adjacent community.

Table 30: Map Repositories

Community	Address	City	State	Zip Code
Germantown, Village of	Village Hall N112 W17001 Mequon Road	Germantown	WI	53022
Hartford, City of	City Hall 109 North Main Street	Hartford	WI	53027
Jackson, Village of	Village Hall N168 W20733 Main Street	Jackson	WI	53037
Kewaskum, Village of	Village Hall 204 First Street	Kewaskum	WI	53040
Milwaukee, City of	City Hall 200 East Wells Street	Milwaukee	WI	53202
Newburg, Village of	Village Hall 614 Main Street	Newburg	WI	53060
Richfield, Village of	Richfield Village Hall 4128 Hubertus Road	Hubertus	WI	53033
Slinger, Village of	Village Hall 300 Slinger Road	Slinger	WI	53086
Washington County, Unincorporated Areas	Washington County Government Center 432 East Washington Street, Suite 3029	West Bend	WI	53095
West Bend, City of	City Hall 1115 South Main Street	West Bend	WI	53095

The National Flood Hazard Layer (NFHL) dataset is a compilation of effective FIRM databases and LOMCs. Together they create a GIS data layer for a State or Territory. The NFHL is updated as studies become effective and extracts are made available to the public

monthly. NFHL data can be viewed or ordered from the website shown in Table 31.

Table 31 contains useful contact information regarding the FIS Report, the FIRM, and other relevant flood hazard and GIS data. In addition, information about the state NFIP Coordinator and GIS Coordinator is shown in this table. At the request of FEMA, each Governor has designated an agency of State or territorial government to coordinate that State's or territory's NFIP activities. These agencies often assist communities in developing and adopting necessary floodplain management measures. State GIS Coordinators are knowledgeable about the availability and location of state and local GIS data in their state.

Table 31: Additional Information

FEMA and the NFIP	
FEMA and FEMA Engineering Library website	www.fema.gov/national-flood-insurance-program-flood-hazard-mapping/engineering-library
NFIP website	www.fema.gov/national-flood-insurance-program
NFHL Dataset	msc.fema.gov
FEMA Region V	536 South Clark Street, 6th Floor Chicago, IL 60605 (312) 408-5529
Other Federal Agencies	
USGS website	www.usgs.gov
Hydraulic Engineering Center website	www.hec.usace.army.mil
State Agencies and Organizations	
State NFIP Coordinator	State National Floodplain Insurance Program (NFIP) Coordinator Michelle Staff Wisconsin Dept. of Natural Res. 101 S. Webster Street – WT/3 Madison, WI 53703 (608) 266-3093 Michelle.Staff@Wisconsin.gov
State Floodplain GIS Coordinator	Floodplain Mapping GIS Coordinator Elizabeth Finlay Wisconsin Dept. of Natural Res. 101 S. Webster Street – WT/3 Madison, WI 53703 (608) 266-9610 Elizabeth.Finlay@wisconsin.gov

SECTION 9.0 – BIBLIOGRAPHY AND REFERENCES

Table 32 includes sources used in the preparation of and cited in this FIS Report as well as additional studies that have been conducted in the study area.

Table 32: Bibliography and References

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
CDM, 2005	Camp, Dresser, and McKee	<i>2005 Digital Topographic Data</i>	Camp, Dresser, and McKee	Chicago, IL	2005	
FEMA, 2018	Federal Emergency Management Agency	<i>LOMR 17-05-4823P</i>	Federal Emergency Management Agency	Washington, DC	2018	
FEMA, 2016	Federal Emergency Management Agency	<i>LOMR 16-05-1498P</i>	Federal Emergency Management Agency	Washington, DC	2016	
FEMA, 2015	Federal Emergency Management Agency	<i>LOMR 15-05-0254P</i>	Federal Emergency Management Agency	Washington, DC	2015	
FEMA, 2013	Federal Emergency Management Agency	<i>Effective DFIRM, Washington County, Wisconsin</i>	Federal Emergency Management Agency	Washington, DC	2013	
FEMA, 2012	Federal Emergency Management Agency	<i>LOMR 11-05-6560P</i>	Federal Emergency Management Agency	Washington, DC	2012	
FEMA, 2011	Federal Emergency Management Agency	<i>LOMR 10-05-2489P</i>	Federal Emergency Management Agency	Washington, DC	2011	

Table 32: Bibliography and References (continued)

Citation in this FIS	Publisher/Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/Date of Issuance	Link
FEMA, 2008	Federal Emergency Management Agency	<i>LOMR 08-05-2438P</i>	Federal Emergency Management Agency	Washington, DC	2008	
FEMA, 2007	Federal Emergency Management Agency	<i>LOMR 07-05-1428P</i>	Federal Emergency Management Agency	Washington, DC	2007	
FEMA, 2007a	Federal Emergency Management Agency	<i>LOMR 06-05-BH45P</i>	Federal Emergency Management Agency	Washington, DC	2007	
FEMA, 2005	Federal Emergency Management Agency	<i>LOMR 05-05-1018P</i>	Federal Emergency Management Agency	Washington, DC	2005	
FEMA, 2003	Federal Emergency Management Agency	<i>LOMR 03-05-1465P</i>	Federal Emergency Management Agency	Washington, DC	2003	
FEMA, 1997a	Federal Emergency Management Agency	<i>Flood Insurance Study Report, City of West Bend, Washington County, Wisconsin. Volume 550475v000</i>	Federal Emergency Management Agency	Washington, DC	1997	
FEMA, 1997b	Federal Emergency Management Agency	<i>LOMR 97-05-151P</i>	Federal Emergency Management Agency	Washington, DC	1997	

Table 32: Bibliography and References (continued)

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
FEMA, 1997c	Federal Emergency Management Agency	<i>LOMR 95-05-323P</i>	Federal Emergency Management Agency	Washington, DC	1997	
FEMA, 1993	Federal Emergency Management Agency	<i>LOMR 93-05-269P</i>	Federal Emergency Management Agency	Washington, DC	1993	
FEMA, 1983	Federal Emergency Management Agency	<i>Flood Insurance Study Report, County of Washington, Wisconsin Unincorporated Areas. Volume 550471v000</i>	Federal Emergency Management Agency	Washington, DC	1983	
FEMA, 1981	Federal Emergency Management Agency	<i>Flood Insurance Report, Village of Kewaskum, Washington County, Wisconsin. Volume 550474v000</i>	Federal Emergency Management Agency	Washington, DC	1981	
FEMA, 1981a	Federal Emergency Management Agency	<i>Flood Insurance Study Report, Village of Germantown, Washington County, Wisconsin. Volume 550472v000</i>	Federal Emergency Management Agency	Washington, DC	1981	
MARS, 2000	Wisconsin Department of Natural Resources	<i>Study of Milwaukee River at Westbend, WI</i>	Montgomery Associates Resource Solutions LLC	Milwaukee, WI	2000	
NGS, 2002	National Geodetic Survey	<i>Permanent Bench Mark Data Sheets</i>	National Geodetic Survey	Silver Spring, MD	2002	

Table 32: Bibliography and References (continued)

Citation in this FIS	Publisher/Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/Date of Issuance	Link
SEWRPC, 2005	Southeast Wisconsin Regional Planning Commission	<i>Digital Land Base Mapping of Washington County</i>	Southeast Wisconsin Regional Planning Commission	Waukesha, WI	2005	
SEWRPC, 2003	Southeast Wisconsin Regional Planning Commission	<i>2003 Digital Terrain Model</i>	Southeast Wisconsin Regional Planning Commission	Waukesha, WI	2003	
SEWRPC, 2000	Southeast Wisconsin Regional Planning Commission	<i>2000 Digital Base Map Information</i>	Southeast Wisconsin Regional Planning Commission	Waukesha, WI	2000	
SEWRPC, 1978	Southeast Wisconsin Regional Planning Commission	<i>Land Base Mapping of the Village of Newburg, WI</i>	Southeast Wisconsin Regional Planning Commission	Milwaukee, WI	1978	
US CENSUS, 2000	Wisconsin Office of Land Information Services, DOA	<i>Wisconsin 2000 Roads</i>	US Census Bureau	Madison, WI	2000	
USDA, 2005	USDA-FSA Aerial Photography Field Office	<i>2005 NAIP DOP Imagery Washington County</i>	USDA-FSA Aerial Photography Field Office	Salt Lake City, UT	2005	
USGS, 1989	US Geological Survey	<i>USGS 7.5-Minute Series Topographic Maps/Quad Index Areas</i>	US Geological Survey	Reston, VA	1989	
WDNR, 2020	Wisconsin Department of Natural Resources	<i>Frieden's Creek Revised Detail Study, Washington County, WI performed by MSA Professional Services, Inc</i>	Wisconsin Department of Natural Resources	Madison, WI	2020	

Table 32: Bibliography and References (continued)

Citation in this FIS	Publisher/Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/Date of Issuance	Link
WDNR, 2019a	Wisconsin Department of Natural Resources	<i>Cedar Creek Physical Map Revision study in Washington County and Incorporated Areas. LOMR 17-05-2540P.</i>	Wisconsin Department of Natural Resources	Madison, WI	2019	
WDNR, 2019b	Wisconsin Department of Natural Resources	<i>Unshaded Zone X Flood Hazard Areas for Cedar Creek Physical Map Revision study in Washington County and Incorporated Areas. LOMR 17-05-2540P.</i>	Wisconsin Department of Natural Resources	Madison, WI	2019	
WDNR, 2018a	Wisconsin Regional Orthophotography Consortium (WROC)	<i>2015 High-resolution Digital Orthoimagery of Washington County, Wisconsin</i>	Wisconsin Regional Orthophotography Consortium (WROC)	Madison, WI	2018	
WDNR, 2018b	Wisconsin Department of Natural Resources	<i>Political Boundaries for Washington County, Wisconsin</i>	Wisconsin Legislative Technology Service Bureau	Madison, WI	2018	
WDNR, 2017	Wisconsin Department of Natural Resources	<i>2015 LiDAR Derived Digital Elevation Model for Washington County, Wisconsin.</i>	Wisconsin Department of Natural Resources	Madison, WI	2017	
WDNR, 2016	Wisconsin Department of Natural Resources	<i>Transportation data for Washington County and Incorporated Areas, Wisconsin.</i>	Geofabrik	Madison, WI	2016	

Table 32: Bibliography and References (continued)

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
WDNR, 2013	Wisconsin Department of Natural Resources	<i>Oconomowoc River and UT-1 to Oconomowoc River Detailed Study Revision</i>	Wisconsin Department of Natural Resources	Madison, WI	2013	
WDNR, 2013a	Wisconsin Department of Natural Resources	<i>Zone X Special Flood Hazard Areas, Washington County and Incorporated Areas, WI</i>	Wisconsin Department of Natural Resources	Madison, WI	2013	
WDNR, 2013b	Wisconsin Department of Natural Resources	<i>FIRM Panel Index for Washington County and Incorporated Areas, Wisconsin.</i>	Wisconsin Department of Natural Resources	Madison, WI	2013	
WDNR, 2010	Wisconsin Regional Orthophotography Consortium (WROC)	<i>2010 High-resolution Digital Orthoimagery of Washington County, Wisconsin</i>	Wisconsin Regional Orthophotography Consortium (WROC)	Madison, WI	2010	
WDNR, 2007	Wisconsin Department of Natural Resources	<i>Wisconsin DNR Base Flood Elevations for Zone AE in Washington County, Wisconsin</i>	Wisconsin Department of Natural Resources	Madison, WI	2007	
WDNR, 2007a	Wisconsin Department of Natural Resources	<i>DEM based on three terrain sources provided by Washington County; 1) 2007 LiDAR data where available, 2) 2005 digital terrain model, and 3) 2003 digital terrain model in some areas</i>	Wisconsin Department of Natural Resources	Madison, WI	2007	

Table 32: Bibliography and References (continued)

Citation in this FIS	Publisher/Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/Date of Issuance	Link
WDNR, 2006a	Wisconsin Department of Natural Resources	<i>Zone X Areas of Minimal Flood Hazard, Washington County, Wisconsin</i>	Wisconsin Department of Natural Resources	Madison, WI	2006	
WDNR, 2006b	Wisconsin Department of Natural Resources	<i>FIRM Panel Index for Washington Countywide study</i>	Wisconsin Department of Natural Resources	Madison, WI	2006	
WDNR, 2005a	Wisconsin Department of Natural Resources	<i>WDNR Approximate Study Analysis, Washington County</i>	Wisconsin Department of Natural Resources	Madison, WI	2005	
WDNR, 2005b	Wisconsin Department of Natural Resources	<i>General Structures for Washington Countywide Study</i>	Wisconsin Department of Natural Resources	Madison, WI	2005	
WDNR, 2004	Wisconsin Department of Natural Resources	<i>Wisconsin Hydrological Features</i>	Wisconsin Department of Natural Resources	Madison, WI	2004	
WDNR, 1996	Wisconsin Department of Natural Resources	<i>Wisconsin PLSS sections from 1:24K landnet</i>	Wisconsin Department of Natural Resources	Madison, WI	1996	