



Bassett Creek Watershed Management Commission

Technical Advisory Committee Meeting

Wednesday May 4, 2022

10:30 – 11:30

Bassett Creek Watershed Convene Meeting

11:30 – 12:30

Wirth Lake Room, Brookview

1. **CALL TO ORDER**
2. **COMMUNICATIONS**
3. **BUSINESS**

A. Review Flood Elevations and Peak Discharges from Latest XP-SWMM Model Update

See table below and presentation attached in email/online

In late 2021 and early 2022, Commission Engineers gathered development and project information from cities in order to update the XP-SWMM model. Commissioner Engineer Koehler will present the results of the model update along with comparisons to BCWMC's 2017 model and the 2021 draft FEMA model (see Table attached below).

Discussion items include:

- Consider recommending that the Commission adopt the updated model and associated flood elevations
- Consider developing inundation mapping for the trunk system (using FEMA-mapping methodology). Would this be necessary or useful based on 2021 model update? Upstream areas? Or just incorporation of the trunk system flood event summary table into the BCWMC plan?
- Consider streamlining data gathering from cities for future model updates.
- Consider if changes are needed to process for model use by others with requests going through cities and agreement signed.

B. Outreach to Cities for WMP Development

Hopefully the documents sent on April 12th will help TAC members gather input from councils, commissions, and departments on the WMP development. Cities are encouraged to seek help from their commissioners or alternates. Commission staff is also available to make presentations, etc. Please reach out as needed. Feedback is due June 15th.

C. Next Meeting

As noted by email, TAC meetings must be held in person in accordance with open meeting law. The next TAC meeting is scheduled for June 1st at 10:30. Location TBD.

4. **ADJOURN by 11:30**
5. **Bassett Creek Convene Meeting:** 11:30 – 12:30 in person and online ([Zoom Link](#))

Required Attendees: Laura Jester (BCWMC), Mark Ray and Erick Francis (cities), Karen Galles (Hennepin County), Brad Wozney (BWSR)

Results Comparison of Phase 2 (July 2017), 2020 DRAFT FEMA (July 2020), and DRAFT 2021 Model Update (April 2022) - Flood Elevations and Peak Discharges

Location	Creek Distance, See Reach Reference (feet)	Normal Water Level (NAVD88 feet)	BCWMC Historic Flood Profiles ¹		Phase 2 XPSWMM Model ⁵		2020 DRAFT FEMA Model ⁷						DRAFT 2021 Model Update							
			100-yr		100-yr		2-yr		10-yr		100-yr		2-yr		10-yr		100-yr			
			Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate
			(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)
BASSETT CREEK MAIN STEM (Creek Distance Upstream of Mississippi River)																				
Tunnel Inlet	8,000		807.3	1,220	810.9	1,380	802.3	400	804.9	690	810.3	1,310	802.4	420	804.8	678	809.8	1,276		
Van White Memorial Blvd (DS)	---		---	---	811.0	1,400	802.9	400	805.1	690	810.3	1,310	803.0	402	805.0	661	809.9	1,275		
Van White Memorial Blvd (US)	---		---	---	811.0	1,530	803.0	400	805.2	660	810.3	1,400	803.1	402	805.0	661	809.9	1,409		
Irving Avenue Bridge (DS)	9,800		808.6	1,135	811.2	1,380	805.5	400	806.7	700	810.4	1,320	805.5	420	806.7	678	809.9	1,276		
Irving Avenue Bridge (US)	---		809.3	1,135	811.3	1,380	805.9	400	807.0	660	810.5	1,400	805.9	402	807.0	660	809.9	1,395		
Cedar Lake Rd (DS)	---		---	---	812.9	1,380	809.5	400	810.7	660	812.9	1,400	809.5	402	810.7	660	812.9	1,394		
Cedar Lake Rd (Bridge)	10,900		812.9	945	813.3	1,380	809.7	400	810.9	660	813.1	1,400	809.7	402	810.9	660	813.1	1,394		
MN&S RR Bridge (Downstream)	---		---	---	813.7	1,370	810.2	400	811.5	660	813.7	1,400	810.2	402	811.5	660	813.7	1,394		
MN&S RR Bridge	11,600		814.8	945	814.5	1,370	810.3	400	811.5	660	813.8	1,400	810.3	402	811.5	660	813.8	1,394		
Penn Ave Culvert & Bridge (DS)	12,410		814.9	705	814.5	1,370	810.8	400	812.1	660	812.9	1,390	810.8	402	812.1	660	812.9	1,393		
Penn Ave Culvert & Bridge (US)	---		815.2	705	814.5	1,370	811.9	400	813.5	660	814.8	1,390	811.9	402	813.5	660	814.8	1,393		
BN RR Bridge(DS)	---		---	---	814.4	1,370	811.9	400	813.5	660	814.7	1,390	811.9	402	813.5	660	814.7	1,393		
BN RR Bridge	12,670		815.3	705	815.6	1,370	811.9	400	813.5	660	814.8	1,390	811.9	402	813.5	660	814.8	1,393		
MN&S RR Bridge (DS)	13,930		816.2	465	815.8	1,370	812.8	400	814.1	660	815.8	1,390	812.8	403	814.1	661	815.8	1,391		
MN&S RR Bridge (US)	---		816.4	465	---	---	812.9	400	814.2	660	815.9	1,390	812.9	403	814.2	661	815.9	1,391		
Fruen Mill Dam (DS)	14,150		816.5	510	817.2	1,370	814.9	400	815.5	660	817.0	1,390	814.9	403	815.5	661	817.0	1,391		
Fruen Mill Dam (US)	---		818.2	510	819.8	1,370	817.2	400	818.0	660	819.8	1,390	817.2	403	818.0	661	819.8	1,391		
Glenwood Ave(DS)	---		---	---	822.1	1,370	818.3	400	819.5	660	822	1,390	818.3	403	819.5	661	821.8	1,391		
Glenwood Ave	14,855		820.3	680	822.2	1,290	818.3	360	819.4	600	821.8	1,300	818.3	358	819.4	603	821.8	1,300		
Hwy 55 (DS)	16,500		821.7	680	823.4	1,190	819.5	360	820.8	600	823.2	1,200	819.5	358	820.8	603	823.2	1,204		
Hwy 55 (US)	---		826.2	680	826.5	1,500	822.0	410	823.8	660	826.5	1,510	822.0	407	823.7	662	826.5	1,507		
Golf Cart Bridge	---		826.2	680	826.6	1,520	822.0	440	823.8	720	826.5	1,540	822.0	436	823.8	714	826.5	1,538		
MN&S RR Bridge(DS)	---		---	---	826.6	1,520	822.0	440	823.8	720	826.6	1,540	822.0	436	823.8	714	826.5	1,538		
MN&S RR Bridge	18,700		826.2	945	826.6	1,520	822.0	440	823.8	720	826.6	1,540	822.0	436	823.8	715	826.6	1,541		
Plymouth Ave Bridge	19,500		826.2	680	826.7	1,550	822.1	450	823.8	750	826.6	1,590	822.1	451	823.8	753	826.6	1,583		
Wirth Parkway (DS)	20,480		826.2	1,570	826.7	1,450	822.1	460	823.9	740	826.6	1,480	822.1	453	823.8	741	826.6	1,475		
Wirth Parkway (US) Bridge	---		826.5	1,570	826.8	1,460	822.6	460	824.9	750	826.8	1,480	822.5	459	824.9	752	826.8	1,478		
Confluence w/ Sweeney Lake Branch	22,000		827.2	---	827.2	1,460	823.7	470	825.3	780	827.3	1,480	823.7	466	825.3	775	827.3	1,483		
Golden Valley Road (DS)	23,800		827.4	790	828.2	1,350	826.2	390	826.8	670	828.3	1,360	826.2	387	826.8	663	828.3	1,363		
Golden Valley Road (US)	23,800		830.2	680	833.8	1,340	827.3	390	828.9	660	833.7	1,360	827.3	387	828.9	661	833.7	1,361		
Dresden Lane (DS)	25,900		830.5	680	834.1	1,340	829.5	390	830.5	660	834.0	1,350	829.5	387	830.4	657	834.0	1,353		
Dresden Lane (US)	---		831.6	680	834.1	1,350	829.8	390	831.2	660	834.0	1,360	829.8	387	831.2	658	834.0	1,357		
Bassett Creek Drive (DS)	---		832.2	665	834.4	1,290	830.8	390	832.2	630	834.3	1,310	830.8	384	832.2	623	834.3	1,310		
Bassett Creek Drive (US)	---		832.9	665	837.0	1,300	831.2	390	833.0	620	837.0	1,310	831.2	385	833.0	620	837.0	1,312		
Noble Lane (DS)	29,200		839.7	660	838.7	1,320	836.4	390	837.1	630	839.0	1,340	836.4	386	837.1	627	839.0	1,337		
Noble Lane (US)	---		839.7	660	839.7	1,300	836.6	390	837.5	620	840.0	1,320	836.6	385	837.5	616	840.0	1,318		
Regent Avenue (DS)	30,800		---	660	843.0	1,300	840.2	390	841.2	620	843.0	1,320	840.2	385	841.2	617	843.0	1,319		
Regent Avenue (US)	---		842.1	660	843.7	1,280	840.3	390	841.4	610	843.7	1,290	840.3	384	841.4	606	843.7	1,291		

Bold Blue: Peak elev reduced by 0.1 ft+ when compared to 2020 DRAFT FEMA Model
Bold Red: Peak elev increased by 0.1 ft+ when compared to 2020 DRAFT FEMA Model

Results Comparison of Phase 2 (July 2017), 2020 DRAFT FEMA (July 2020), and DRAFT 2021 Model Update (April 2022) - Flood Elevations and Peak Discharges

Location	Creek Distance, See Reach Reference (feet)	Normal Water Level (NAVD88 feet)	BCWMC Historic Flood Profiles ¹		Phase 2 XPSWMM Model ⁵		2020 DRAFT FEMA Model ⁷						DRAFT 2021 Model Update							
			100-yr		100-yr		2-yr		10-yr		100-yr		2-yr		10-yr		100-yr			
			Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate
			(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)
Minnaqua Avenue	31,650		842.7	---	844.0	1,260	840.9	380	842.0	600	844.0	1,280	840.9	381	842.0	597	844.0	1,274		
Highway 100 (DS)	34,020		843.4	770	844.8	1,300	842.0	400	842.8	590	844.8	1,320	842.0	399	842.8	589	844.8	1,314		
Highway 100 (US)	34,020		849.2	610	851.2	1,040	844.7	270	847.3	360	850.9	960	844.6	270	847.3	355	850.9	963		
DS Confluence N. Branch	34,400		849.2	495	851.2	1,040	844.7	270	847.3	360	850.9	960	845	270	847	355	851	963		
Westbrook Road (DS)	37,000		857.3	940	859.0	870	856.9	310	857.7	480	858.8	820	856.9	312	857.8	482	858.9	822		
Westbrook Road (US)	---		858.3	940	860.0	870	857.2	300	858.2	470	860.1	790	857.2	303	858.2	468	860.1	795		
Duluth Street (DS)	38,400		861.5	850	861.9	850	859.4	310	860.5	470	861.8	790	859.4	307	860.5	469	861.8	795		
Duluth Street (US)	---		862.0	850	862.6	830	859.6	300	860.7	460	862.4	770	859.6	304	860.7	461	862.5	780		
St. Croix Avenue (DS)	39,800		863.2	850	864.5	830	862.1	310	863.1	460	864.3	780	862.1	308	863.1	463	864.3	783		
St. Croix Avenue (US)	---		864.3	850	864.7	800	862.4	300	863.5	450	864.6	740	862.4	302	863.5	449	864.6	746		
MN&S RR (DS)	41,660		869.7	760	870.3	700	868.6	250	869.2	380	870.1	650	868.6	249	869.2	376	870.2	647		
MN&S RR (US)	---		869.7	760	870.5	690	868.7	250	869.3	370	870.3	640	868.7	250	869.3	371	870.3	636		
Douglas Drive (DS)	42,130		870.4	670	871.0	700	869.0	250	869.7	370	870.8	640	869.0	251	869.7	372	870.8	637		
Douglas Drive (US)	---		871.2	670	871.8	690	869.2	250	870.1	370	871.5	630	869.2	250	870.1	368	871.6	631		
Florida Avenue (DS)	42,820		871.8	670	872.6	690	869.7	250	870.6	370	872.5	630	869.7	251	870.6	368	872.5	632		
Florida Avenue (US)	---		872.5	670	873.0	690	869.8	250	870.9	370	872.9	630	869.8	252	870.9	368	872.9	633		
Hampshire Ave (DS)	43,410		872.7	630	873.4	690	870.6	260	871.5	370	873.2	630	870.6	255	871.5	371	873.2	635		
Hampshire Ave (US)	---		873.2	630	874.0	670	870.8	250	871.8	360	873.8	600	870.8	250	871.8	355	873.8	604		
GV Country Club (DS)	44,320		874.6	365	876.1	660	873.5	250	874.2	360	875.8	600	873.5	251	874.2	359	875.8	595		
GV Country Club (US)	---		878.6	405	880.6	650	875.7	220	878.4	340	880.6	570	875.7	224	878.4	344	880.6	573		
Pennsylvania Avenue (DS)	46,500		879.5	380	881.6	650	879.2	220	879.8	340	881.4	570	879.2	224	879.8	344	881.4	573		
Pennsylvania Avenue(US)	---		880.7	375	882.9	550	879.7	210	880.5	300	882.5	470	879.7	206	880.5	302	882.5	475		
C&NW RR (DS)	47,200		881.9	375	884.1	560	881.3	210	882.1	310	883.5	490	881.3	206	882.1	306	883.5	492		
C&NW RR (US)	---		883.1	375	885.0	450	881.7	170	882.6	230	884.8	370	881.7	167	882.6	232	884.8	372		
Winnetka Ave (DS)	48,000		883.5	360	885.1	440	881.9	150	882.8	200	884.8	360	881.9	147	882.8	199	884.8	360		
Winnetka Ave (US)	---		883.7	360	885.3	430	882.1	140	883.0	200	885.0	360	882.1	138	883.0	198	885.0	358		
Wisconsin Ave (DS)	49,750		884.9	360	886.0	430	883.1	140	883.8	200	885.3	360	883.1	136	883.8	197	885.3	356		
Wisconsin Ave (US)	50,100		888.2	340	887.6	370	885.1	120	886.5	170	888.0	290	885.1	115	886.5	167	888.0	289		
Golden Valley Road (DS)	---		888.2	290	887.7	340	885.2	130	886.5	200	888.1	310	885.2	110	886.5	160	888.1	310		
Golden Valley Road (US)	---		888.2	290	887.7	340	885.2	140	886.5	200	888.2	310	885.2	110	886.5	160	888.2	306		
Westbound Hwy 55 (DS)	51,250		888.2	290	887.7	340	885.2	150	886.5	210	888.3	320	885.2	110	886.5	160	888.3	333		
Eastbound Hwy 55 (US)	---		888.3	290	887.8	410	885.2	150	886.5	250	888.1	430	885.2	109	886.5	157	888.1	306		
Boone Ave (DS)	---		888.4	280	887.9	320	885.5	120	886.7	170	888.1	300	885.5	116	886.7	168	888.1	304		
Boone Ave (US)	---		888.5	280	887.9	220	885.5	80	886.7	110	888.2	230	885.5	83	886.7	105	888.2	227		
Hwy 169 (DS)	56,500		888.6	255	888.3	300	886.1	80	887.1	140	888.4	300	886.1	82	887.1	140	888.4	301		
Hwy 169 (US)	---		888.7	250	888.4	240	886.1	70	887.1	100	888.5	240	886.1	72	887.1	105	888.5	238		
Hwy 55 Ramp (DS)	58,300		888.7	235	888.4	220	886.1	40	887.1	80	888.5	230	886.1	35	887.1	76	888.5	228		

Bold Blue: Peak elev reduced by 0.1 ft+ when compared to 2020 DRAFT FEMA Model

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			100-yr		100-yr		2-yr		10-yr		100-yr		2-yr		10-yr		100-yr			
			Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate
			(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)
Hwy 55 Ramp (US)	---		888.7	235	888.4	220	886.1	30	887.1	80	888.5	230	886.1	34	887.1	76	888.5	228		
Hwy 55 Eastbound (DS)	58,500		888.7	235	888.4	220	886.1	30	887.1	80	888.5	230	886.1	34	887.1	76	888.5	228		
Hwy 55 Eastbound (US)	---		888.7	235	888.4	220	886.1	40	887.2	80	888.5	230	886.1	40	887.2	76	888.5	228		
Hwy 55 Westbound (DS)	---		888.7	235	888.4	220	886.1	40	887.2	80	888.5	230	886.1	40	887.2	76	888.5	228		
Hwy 55 Westbound (US)	---		889.0	235	888.4	220	886.2	30	887.2	80	888.5	230	886.2	33	887.2	76	888.5	228		
Hwy 169 ramp to W 55 (DS)	58,750		889.0	235	888.4	220	886.2	30	887.2	80	888.6	230	886.2	33	887.2	76	888.6	228		
Hwy 169 ramp to W 55 (US)	---		889.0	235	888.5	220	886.2	30	887.2	80	888.6	230	886.2	33	887.2	76	888.6	228		
Hwy 55 N Frontage Rd (DS)	58,850		889.2	235	888.5	220	886.2	30	887.2	80	888.6	230	886.2	33	887.2	76	888.6	228		
Hwy 55 N Frontage Rd (US)	---		889.2	235	888.5	220	886.2	30	887.2	80	888.6	230	886.2	33	887.2	76	888.6	228		
Pedestrian Bridge near Cub Foods	---		---	---	888.7	220	886.2	30	887.2	80	888.9	230	886.2	33	887.2	76	888.9	229		
10th Ave (DS)	---		889.2	---	889.0	220	886.3	60	887.3	120	889.2	230	886.3	63	887.3	124	889.2	227		
10th Ave (US)	---		889.2	---	889.2	220	886.3	30	887.3	80	889.3	230	886.3	62	887.3	128	889.3	227		
C&NW RR Bridge (DS)	63,450		889.2	200	889.2	220	886.3	30	887.3	80	889.3	230	886.3	62	887.3	128	889.3	227		
C&NW RR Bridge (US)	---		889.6	200	889.2	220	886.8	30	887.3	80	889.4	230	886.8	33	887.3	77	889.4	228		
South Shore Drive (DS)	63,800		889.6	190	889.3	220	887.1	30	887.7	80	889.5	230	887.1	33	887.7	77	889.5	228		
South Shore Drive (US)	---		890.5	190	889.4	220	887.1	50	887.7	80	889.5	230	887.1	33	887.7	77	889.5	228		
Medicine Lake Weir (DS)	63,960		890.5	190	889.4	220	887.1	30	887.7	80	889.5	220	887.1	33	887.7	77	889.5	228		
Inundation Areas																				
Theodore Wirth Park (Area upstream of Highway 55 Control Structure)	---	815.7	826.2	---	826.5	---	822.0	---	823.8	---	826.5	---	822.0	---	823.7	---	826.5	---		
South Rice Pond	---		831.7	---	834.3	---	830.6	---	832.1	---	834.2	---	830.5	---	832.1	---	834.2	---		
North Rice Pond	---	832.5	838.2	---	836.4	---	833.6	---	834.5	---	836.6	---	833.6	---	834.5	---	836.6	---		
Grimes Avenue Pond	---	832.5	838.2	---	836.4	---	833.6	---	834.5	---	836.7	---	833.6	---	834.5	---	836.7	---		
Golden Valley Country Club	---	---	878.6	---	880.6	---	875.7	---	878.4	---	880.6	---	875.7	---	878.4	---	880.6	---		
Brookview Golf Course	---	---	888.3	---	887.8	---	885.2	---	886.5	---	888.1	---	885.2	---	886.5	---	888.1	---		
Westwood Lake	---	887.6 ³	889.2	---	890.0	---	888.3	---	888.8	---	889.9	---	888.3	---	888.8	---	889.9	---		
Medicine Lake	---	887.9	890.5	---	890.4	---	888.8	---	889.4	---	890.4	---	888.8	---	889.5	---	890.4	---		
NORTH BRANCH (Creek Distance Above Confluence with Main Stem)																				
Hwy 100 Control (US)	---		849.2	610	851.2	1,040	844.7	270	847.3	360	850.9	960	844.6	270	847.3	355	850.9	963		
Confluence w/Main Stem	---		849.2	---	851.2	1740.0	844.7	230	847.3	660	850.9	1660	844.7	189	847.3	656	850.9	1664.4		
29th Avenue (DS)	200		849.2	1515	851.2	1,740	844.7	230	847.3	660	850.9	1660	844.7	189	847.3	656	850.9	1,664		
29th Avenue (US)	---		849.7	1515	851.2	1,290	844.7	410	847.3	580	850.9	1320	844.6	416	847.3	582	850.9	1,407		
32nd Avenue (DS)	2,600		849.8	1175	851.2	1290	844.7	410	847.3	580	850.9	1320	844.6	416	847.3	582	850.9	1407		
32nd Avenue (US)	---		854.2	1175	852.7	560	850.1	320	851.2	350	852.7	600	850.1	319	851.2	341	852.7	598		

Bold Blue: Peak elev reduced by 0.1 ft+ when compared to 2020 DRAFT FEMA Model

Bold Red: Peak elev increased by 0.1 ft+ when compared to 2020 DRAFT FEMA Model

Results Comparison of Phase 2 (July 2017), 2020 DRAFT FEMA (July 2020), and DRAFT 2021 Model Update (April 2022) - Flood Elevations and Peak Discharges

Location	Creek Distance, See Reach Reference (feet)	Normal Water Level (NAVD88 feet)	BCWMC Historic Flood Profiles ¹		Phase 2 XPSWMM Model ⁵		2020 DRAFT FEMA Model ⁷						DRAFT 2021 Model Update					
			100-yr		100-yr		2-yr		10-yr		100-yr		2-yr		10-yr		100-yr	
			Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate
			(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)
Brunswick Avenue (DS)	3,000		854.9	1175	852.7	560.0	850.1	320	851.2	350	852.7	600	850.1	319	851.2	341	852.7	598.2
Brunswick Avenue (US)	---		856.1	1175	856.7	510	854.4	360	855.4	320	856.9	560	854.4	360	855.3	326	856.8	559
34th Culvert (DS)	4,200		863.0	700	861.5	520	860.8	280	861.2	350	861.6	570	860.8	277	861.2	348	861.6	565
34th Culvert (US)	---		866.3	430	867.2	500	863.0	230	865.1	480	868.1	570	862.9	222	865.1	483	868.0	560
Apartment Drive Crossing (DS)	---		---	---	868.3	570	866.9	230	867.4	320	869.1	790	866.9	222	867.4	314	869.0	778
Apartment Drive Crossing (US)	---		---	---	869.6	580	867.8	230	869.1	320	870.6	850	867.7	222	869.0	314	870.6	834
Douglas Drive (DS)	5,250		870.2	670	869.6	580	867.8	230	869.1	320	870.6	850	867.7	222	869.0	314	870.6	834
Douglas Drive (US)	---		870.3	670	870.5	380	868.3	180	869.7	240	870.7	440	868.2	178	869.6	239	870.6	437
Edgewood Emb (DS)	5,600		870.9	430	871.0	380	868.2	180	869.7	240	871.4	440	868.1	178	869.6	239	871.4	437
Edgewood Emb (US)	---		878.4	340	880.4	340	872.3	170	875.7	220	880.6	400	872.0	187	875.5	217	880.5	395
Georgia Avenue (DS)	6,250		878.4	305	880.4	460	872.3	220	875.7	310	880.6	450	872.1	211	875.5	320	880.5	455
Georgia Avenue (US)	---		878.6	305	880.8	520	872.9	220	875.8	350	880.8	510	872.8	203	875.5	307	880.8	506
36th & Hampshire (DS)	6,800		878.6	260	880.8	480	872.9	---	875.8	---	880.8	---	872.8	---	875.5	---	880.8	---
36th & Hampshire (US)	6,980		879.2	260	881.3	280	875.0	150	876.3	180	881.5	310	875.0	166	876.0	233	881.5	363
Louisiana Ave. (DS) (Street Elevation Approx. 882.4)	8,000		881.2	---	883.3	490	880.1	120	881.6	190	883.1	470	881.6	112	882.9	176	883.3	485
Maryland Ave. (Street Elevation Approx. 885.7)	8,500		---	---	886.0	260	881.7	70	884.0	80	886.5	250	882.7	63	885.4	138	886.5	321
Oregon Ave. (Street Elevation Approx. 885.4)	9,000		---	---	888.5	90	882.9	60	885.2	80	888.3	100	883.3	63	885.4	77	888.3	97
MN & S RR (Street Elevation Approx. 889.1)	9,300		---	---	889.6	90.0	884.2	60	886.5	80	889.8	100	884.3	62.7	886.6	77.0	889.9	97.3
East Winnetka Pond Inlet (Control Structure)	9,500		888.2	---	890.9	100	884.5	70	886.8	90	890.2	110	884.6	65	886.9	76	890.3	169
Service Road (West Winnetka Pond- DS)	---		---	---	890.9	190	884.5	70	886.8	80	890.2	170	884.6	65	886.9	76	890.3	169
Service Road (West Winnetka Pond- US)	10,000		888.2	---	891.1	190	884.6	70	887.0	80	890.5	170	884.7	65	887.1	76	890.5	169
Winnetka Ave. (DS)	10,600		888.2	---	891.1	220	884.6	80	887.0	130	890.5	240	884.7	79	887.1	132	890.5	252
Winnetka Ave. (US)	---		889.2	---	891.3	270	885.0	80	887.5	140	891.1	310	885.0	81	887.6	143	891.2	311
Boone Ave. (DS)	13,500		889.5	---	891.4	730	885.6	140	887.6	200	891.1	750	885.6	141	887.6	187	891.2	731
Boone Ave. (US)	---		889.7	---	891.4	270	886.9	150	888.2	200	891.1	330	887	147	888	199	891	328
Northwood Pond	---		889.7	---	891.4	270	886.9	150	888.2	200	891.1	330	887	147	888	199	891	328
TH 169 (DS)	16,850		889.7	---	893.0	270	887.1	150	888.4	200	891.8	330	887	147	888	199	892	328
TH 169(US)	---		890.7	---	893.1	750	888.9	150	890.7	200	892.9	330	889	147	891	199	893	328
Rockford Road (DS)	18,350		890.7	---	893.1	750	888.9	150	890.7	200	892.9	330	889	147	891	199	893	328
Rockford Road (US)	---		898.7	---	897.2	---	893.3	---	894.8	---	897.1	---	893.3	---	894.8	---	897.1	---
Inundation Areas																		
Bassett Creek Park	---	840.6	849.7	---	851.2	---	844.7	---	847.3	---	850.9	---	844.6	---	847.3	---	850.9	---
Edgewood Avenue Pond	---	---	878.4	---	880.4	---	872.3	---	875.7	---	880.6	---	872.0	---	875.5	---	880.5	---
Winnetka Pond (DS of Winnetka Avenue)	---	879.8	888.2	---	890.9	---	884.5	---	886.8	---	890.2	---	884.6	---	886.9	---	890.3	---

Bold Blue: Peak elev reduced by 0.1 ft+ when compared to 2020 DRAFT FEMA Model

Bold Red: Peak elev increased by 0.1 ft+ when compared to 2020 DRAFT FEMA Model

Results Comparison of Phase 2 (July 2017), 2020 DRAFT FEMA (July 2020), and DRAFT 2021 Model Update (April 2022) - Flood Elevations and Peak Discharges

Location	Creek Distance, See Reach Reference (feet)	Normal Water Level (NAVD88 feet)	BCWMC Historic Flood Profiles ¹		Phase 2 XPSWMM Model ⁵		2020 DRAFT FEMA Model ⁷						DRAFT 2021 Model Update					
			100-yr		100-yr		2-yr		10-yr		100-yr		2-yr		10-yr		100-yr	
			Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate
			(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)
Northwood Park	---	---	889.5	---	891.3	---	885.0	---	887.5	---	891.1	---	885.0	---	887.6	---	891.2	---
Northwood Pond	---	884.6	889.7	---	891.4	---	886.9	---	888.2	---	891.1	---	886.9	---	888.2	---	891.2	---
SWEENEY LAKE BRANCH (Creek Distance Upstream of Confluence with Main Stem)																		
Confluence w/Main Stem	---	---	827.2	---	827.2	1,460	823.7	470	825.3	780	827.3	1,480	823.7	466	825.3	775	827.3	1,483
Courage Center Downstream Crossing (DS)	700	---	827.2	---	827.2	170	823.7	100	825.3	130	827.3	170	823.7	94	825.3	134	827.3	171
Courage Center Downstream Crossing (US)	---	---	829.2	---	828.0	170	825.3	100	826.4	130	828.0	170	825.3	99	826.4	142	828.0	193
Courage Center Upstream Crossing (DS)	---	---	---	---	828.0	170	825.3	100	826.4	130	828.0	170	825.3	99	826.4	142	828.0	193
Courage Center Upstream Crossing (US)	---	---	---	---	830.6	170	826.3	100	828.4	130	830.6	170	826.3	94	828.3	134	830.6	171
Courage Center & Hidden Lakes Parkway (DS)	900	---	829.2	---	830.6	170	826.3	90	828.4	130	830.6	170	826.3	94	828.3	133	830.6	172
Courage Center & Hidden Lakes Parkway (US)	---	---	831.2	---	831.9	170	826.9	90	829.2	130	831.9	170	826.8	94	829.1	133	831.8	172
Precast Concrete Dam (DS)	1,700	---	831.7	---	831.9	170	826.9	90	829.2	130	831.9	170	826.8	94	829.1	133	831.8	172
Sweeney Lake	---	---	831.7	---	831.9	170	828.4	90	829.2	130	831.9	170	828.4	94	829.2	133	831.8	172
Union Pacific RR (DS)	6,800	---	831.7	---	831.9	400	828.4	140	829.2	230	831.9	400	828.4	133	829.2	224	831.8	395
Union Pacific RR (US)	---	---	835.8	311	836.3	480	829.9	130	831.6	240	836.1	480	829.8	133	831.5	232	836.0	474
Hwy 55 (DS)	8,150	---	835.8	680	836.8	860	833.5	320	834.9	520	836.7	850	833.5	320	834.9	504	836.6	834
Hwy 55 (US)	---	---	836.9	680	838.4	310	834.1	160	836.0	200	838.4	300	834.1	158	836.0	193	838.3	297
MN & S RR (DS)	9,000	---	836.9	233	838.4	260	834.1	150	836.0	180	838.4	250	834.1	149	836.0	180	838.3	250
MN & S RR (US)	---	---	839.5	233	841.7	260	834.9	150	837.6	180	841.3	250	834.8	166	837.5	216	841.3	251
Breck Pond & Control Structure (US)	9,580	---	839.9	296	842.5	270	835.4	170	838.3	220	842.5	250	835.3	166	838.3	216	842.4	251
TH 100 (DS) (Breck Pond)	10,400	---	839.9	298	842.5	440	835.4	150	838.3	210	842.5	450	835.3	149	838.3	227	842.4	472
TH 100 (US)	---	---	845.4	298	851.0	500	844.3	150	845.0	230	846.8	470	844.3	142	845.0	219	846.8	486
Turners Crossroad (US)	10,950	---	854.9	241	857.2	430	848.9	120	851.7	180	857.1	410	848.8	120	851.6	180	857.1	416
Glenwood Pond A	---	---	854.9	---	857.2	---	848.9	---	851.7	---	857.1	---	848.8	---	851.6	---	857.1	---
MN & S RR (DS)	11,550	---	854.9	233	857.2	440	848.9	30	851.7	50	857.1	180	848.8	32	851.6	46	857.1	185
MN & S RR (US)	---	---	855.0	233	857.2	440	848.9	30	851.7	50	857.1	180	848.8	32	851.6	46	857.1	185
Glenwood Pond B	---	---	855.0	---	857.2	---	848.9	---	851.7	---	857.1	---	848.8	---	851.6	---	857.1	---
Glenwood Ave (DS)	---	---	855.0	84	857.2	100	848.9	60	851.7	70	857.1	120	848.8	59	851.6	71	857.1	115
Glenwood Ave (US)	---	---	855.0	84	857.2	100	849.4	60	852.1	90	857.1	100	849.4	59	852.0	89	857.1	100
Duck Pond	---	---	855.0	---	857.2	---	849.4	60	852.1	70	857.1	120	849.4	---	852.0	---	857.1	---
MN & S RR (DS)	---	---	855.0	233	857.2	560	849.4	210	852.1	320	857.1	570	849.4	213	852.0	315	857.1	567
MN & S RR (US)	---	---	858.9	233	859.4	300	852.9	80	855.9	110	859.3	330	852.9	79	855.9	108	859.3	360
Ravine Storage Area	---	---	858.9	---	859.4	90	852.9	60	855.9	70	859.3	120	852.9	59	855.9	71	859.3	115
Courtawn Pond	---	---	873.1	---	873.6	120	871.9	20	873.2	40	873.6	120	871.9	17	873.2	38	873.6	113
East Ring Pond	---	---	879.0	---	879.4	180	876.1	20	877.3	50	879.4	180	876.1	22	877.3	46	879.4	181
78" RCP Equalizer	18,800	---	---	---	879.4	480	876.1	80	877.3	170	879.4	480	876.1	80	877.3	176	879.4	476
West Ring Pond	---	---	879.0	---	879.4	---	876.1	---	877.3	---	879.4	---	876.1	---	877.3	---	879.4	---
Ravine Storage Area Overflow																		
Glenwood Pond B	---	---	855.0	---	857.2	---	848.9	---	851.7	---	857.1	---	848.8	---	851.6	---	857.1	---
MN & S RR (DS)	---	---	855.0	---	857.2	---	849.4	---	852.1	---	857.1	---	849.4	---	852.0	---	857.1	---
MN & S RR (US)	---	---	857.3	---	858.9	---	850.2	---	852.4	---	858.8	---	850.2	---	852.3	---	858.9	---

Bold Blue: Peak elev reduced by 0.1 ft+ when compared to 2020 DRAFT FEMA Model

Bold Red: Peak elev increased by 0.1 ft+ when compared to 2020 DRAFT FEMA Model

Results Comparison of Phase 2 (July 2017), 2020 DRAFT FEMA (July 2020), and DRAFT 2021 Model Update (April 2022) - Flood Elevations and Peak Discharges

Location	Creek Distance, See Reach Reference (feet)	Normal Water Level (NAVD88 feet)	BCWMC Historic Flood Profiles ¹		Phase 2 XPSWMM Model ⁵		2020 DRAFT FEMA Model ⁷						DRAFT 2021 Model Update					
			100-yr		100-yr		2-yr		10-yr		100-yr		2-yr		10-yr		100-yr	
			Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate
			(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)
Storage Area	---		857.3	---	858.9	---	850.2	---	852.4	---	858.8	---	850.2	---	852.3	---	858.9	---
Glenwood Ave (DS)	---		857.3	---	858.9	---	850.2	---	852.4	---	858.8	---	850.2	---	852.3	---	858.9	---
Glenwood Ave (US)	---		858.9	---	859.4	---	852.9	---	855.9	---	859.3	---	852.9	---	855.9	---	859.3	---
Ravine Storage Area	---		858.9	---	859.4	---	852.9	---	855.9	---	859.3	---	852.9	---	855.9	---	859.3	---
Inundation Areas																		
Sweeney Lake	---	827.2 ⁴	831.7	---	831.9	---	828.4	---	829.2	---	831.9	---	828.4	---	829.2	---	831.8	---
Twin Lake	---	827.2 ⁴	831.7	---	831.9	---	828.4	---	829.2	---	831.9	---	828.4	---	829.2	---	831.8	---
Breck Pond	---	831.6	839.9	---	842.5	---	835.4	---	838.3	---	842.5	---	835.3	---	838.3	---	842.4	---
Courtawn Pond	---	870.1	873.1	---	873.6	---	871.9	---	873.2	---	873.6	---	871.9	---	873.2	---	873.6	---
East Ring Pond	---	874.1	879.0	---	879.4	---	876.1	---	877.3	---	879.4	---	876.1	---	877.3	---	879.4	---
West Ring Pond	---	874.1	879.0	---	879.4	---	876.1	---	877.3	---	879.4	---	876.1	---	877.3	---	879.4	---
MEDICINE LAKE BRANCH 'PLYMOUTH CREEK' (Creek Distance Upstream of Medicine Lake Weir)																		
Pedestrian Crossing (DS)	---		---	---	890.4	---	888.8	---	889.4	---	890.4	---	888.8	---	889.5	---	890.4	---
Pedestrian Crossing (US)	---		---	---	890.4	690	888.8	310	889.4	330	890.4	760	888.8	309	889.5	333	890.4	754
Pedestrian Crossing (DS)	---		---	---	---	---	888.8	---	889.5	---	890.5	---	888.8	---	889.5	---	890.5	---
Pedestrian Crossing (US)	---		---	---	---	---	888.9	---	889.5	---	890.5	---	888.9	---	889.5	---	890.5	---
West Medicine Lake Drive (DS)	10,450		890.5	---	890.7	690	889.0	---	889.5	---	890.6	---	889.0	---	889.5	---	890.6	---
West Medicine Lake Drive (US)	---		891.7	---	893.6	690	892.6	200	893.1	340	893.6	700	892.6	201	893.1	342	893.6	712
Fish Barrier (DS)	---		---	---	916.1	240	915.5	80	915.6	110	916.2	280	915.5	79	915.6	113	916.2	275
Fish Barrier (US)	---		---	---	923.0	240	921.7	80	922.1	110	923.1	280	921.7	79	922.1	113	923.0	275
26th Avenue N. (DS)	16,500		925.2	---	924.5	240	923.1	80	923.5	110	924.9	280	923.1	79	923.5	113	924.9	275
26th Avenue N. (US)	---		925.7	---	925.1	240	923.2	80	923.8	110	925.7	280	923.2	79	923.8	113	925.6	275
28th Avenue N. Dike (DS)	---		928.2	---	930.0	240	928.2	80	928.8	110	930.2	280	928.2	79	928.8	113	930.2	275
28th Avenue N. Dike (US)	---		931.0	---	932.3	270	929.4	100	931.2	130	932.3	300	929.4	79	931.2	113	932.3	288
County Road 61 (DS)	---		931.0	---	932.3	270	929.4	100	931.2	130	932.3	300	929.4	79	931.2	113	932.3	288
County Road 61 (US)	---		931.4	---	934.1	240	929.6	80	931.5	130	934.2	280	929.6	83	931.5	127	934.2	275
Xenium Lane (DS)	20,850		931.4	---	934.1	440	930.3	150	931.7	250	934.3	470	930.3	145	931.6	251	934.2	472
Xenium Lane (US)	---		931.7	---	934.5	460	930.4	130	931.7	230	934.6	470	930.4	146	931.7	252	934.6	473
Crowne Plaza Downstream Crossing (DS)	---		---	---	934.5	460	930.4	130	931.7	230	934.6	470	930.4	146	931.7	252	934.6	473
Crowne Plaza Downstream Crossing (US)	---		---	---	937.6	440	930.7	120	931.9	220	935.2	450	930.7	123	931.9	221	935.2	451
Crowne Plaza Upstream Crossing (DS)	---		---	---	937.7	440	931.3	120	932.4	220	935.4	450	931.3	123	932.4	221	935.3	451
Crowne Plaza Upstream Crossing (US)	---		---	---	938.0	440	931.6	130	933.0	240	936.1	480	931.6	127	933.0	235	936.1	482
I-494 (DS)	22,500		935.2	---	938.1	440	934.6	130	935.3	240	936.5	480	934.6	127	935.3	235	936.5	482
I-494 (US)	---		938.7	---	938.9	410	934.8	120	935.8	220	937.8	460	934.8	118	935.8	215	937.7	456
Annapolis (DS)	---		---	---	941.9	280	940.4	90	941.1	160	942.1	330	940.4	88	941.1	159	942.0	325
Annapolis (US)	---		---	---	942.8	280	940.6	90	941.5	160	943.1	330	940.6	87	941.4	159	943.0	324
Fernbrook Lane (DS)	25,000		947.2	---	946.7	280	945.3	90	946.1	160	947.4	330	945.3	87	946.1	159	947.4	324

Bold Blue: Peak elev reduced by 0.1 ft+ when compared to 2020 DRAFT FEMA Model

Bold Red: Peak elev increased by 0.1 ft+ when compared to 2020 DRAFT FEMA Model

Results Comparison of Phase 2 (July 2017), 2020 DRAFT FEMA (July 2020), and DRAFT 2021 Model Update (April 2022) - Flood Elevations and Peak Discharges

Location	Creek Distance, See Reach Reference (feet)	Normal Water Level (NAVD88 feet)	BCWMC Historic Flood Profiles ¹		Phase 2 XPSWMM Model ⁵		2020 DRAFT FEMA Model ⁷						DRAFT 2021 Model Update					
			100-yr		100-yr		2-yr		10-yr		100-yr		2-yr		10-yr		100-yr	
			Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate	Flood Elevation	Flow Rate
			(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)	(NAVD88 feet)	(cfs)
Fernbrook Lane (US)	---		948.2	---	946.8	280	945.4	90	946.2	160	947.8	330	945.4	87	946.2	159	947.7	324
Central Park Pond Outlet Structure (DS)	---		949.2	---	949.8	280	947.9	90	948.9	160	950.2	330	948.0	87	948.8	159	950.2	325
Central Park Pond Outlet Structure (US)	---		953.2	---	955.0	690	951.2	160	952.4	340	954.8	730	951.2	165	952.4	324	954.8	716
37th Avenue	28,900		956.2	---	955.1	690	951.2	160	952.5	340	954.9	730	951.2	165	952.4	324	954.9	716
County Road 9	30,450		959.2	---	955.3	390	955.4	90	956.5	180	958.5	400	955.4	94	956.5	177	958.5	404
Vicksburg Lane (DS)	31,300		961.2	---	963.0	380	960.2	90	961.3	170	963.1	400	960.2	90	961.3	170	963.1	396
Vicksburg Lane (US)	---		962.2	---	963.7	280	960.3	70	961.5	130	963.8	300	960.3	73	961.5	127	963.8	296
Pedestrian Crossing/ 41st Street Extension (DS)	---		---	---	966.8	200	964.5	50	965.0	90	966.1	210	964.6	53	965.0	85	966.0	206
Pedestrian Crossing/ 41st Street Extension (US)	---		---	---	967.6	140	964.6	50	965.2	80	967.0	160	964.7	53	965.2	84	966.9	155
Yuma Lane (DS)	---		---	---	967.9	140	966.6	50	967.0	80	967.8	160	966.6	53	967.0	84	967.7	155
Yuma Lane (US)	---		---	---	970.3	110	967.1	60	967.5	80	968.4	100	967.1	59	967.5	79	968.4	104
Dunkirk Lane (DS)	---		979.2	---	978.1	140	977.3	40	977.4	60	978.3	140	977.3	42	977.4	56	978.3	142
Dunkirk Lane (US)	34,450		982.2	---	983.0	140	980.8	50	982.1	60	983.0	150	980.8	46	982.1	56	983.0	145
Field Crossing (DS)	---		---	---	983.1	100	981.3	40	982.3	60	983.2	100	981.3	41	982.3	62	983.2	100
Field Crossing (US)	---		---	---	983.1	110	981.5	40	982.3	60	983.2	100	981.5	42	982.3	64	983.2	101
T.H. 55 (DS)	38,300		982.2	---	983.1	100	981.6	40	982.3	60	983.2	100	981.6	42	982.3	64	983.2	98
T.H. 55 (US)	---		982.7	---	984.0	---	981.7	---	982.5	---	984.0	---	981.7	---	982.5	---	984.0	---
Inundation Areas																		
Xenium Lane	---		931.7	---	934.5	---	930.4	---	931.7	---	934.6	---	930.4	---	931.7	---	934.6	---
Central Park Pond	---	948.2	952.2	---	955.0	---	953.2	---	953.2	---	954.8	---	951.2	---	952.4	---	954.8	---
Turtle Lake	---	962.9 ⁵	964.2	---	967.0	---	964.2	---	965.2	---	967.0	---	964.2	---	965.2	---	967.0	---
Rockford Road	---		968.2	---	968.5	---	966.6	---	967.3	---	968.5	---	966.7	---	967.3	---	968.4	---
Dunkirk Lane	---		982.2	---	983.0	---	980.8	---	982.1	---	983.0	---	980.8	---	982.1	---	983.0	---
Oak Knoll Pond	---	914.4	917.3	---	918.6	---	917.0	---	917.5	---	918.7	---	917.0	---	917.5	---	918.7	---
Crane Lake	---	917.3	920.7	---	920.2	---	918.7	---	919.2	---	920.2	---	918.7	---	919.2	---	920.2	---
Notes																		

¹Values as listed in Table 2-9 of the original BCWMC 2015 Watershed Management Plan (reflecting Hennepin County FIS – revised December 23, 2002), prior to July 2017 that included updates to Table 2-9. The 2015 values were presented in NGVD29 and have been updated to NAVD88 (NAVD88=NGVD29+0.18ft).

²Multiple inflows to node. The reported peak inflow reflects the sum all inflow peaks.

³Barr study surveyed outlet of Westwood Lake and found the outlet ditch has filled with sediment to elevation 887.6ft. The outlet pipe invert elevation (historical normal water level) is at 886.18ft

⁴As-built survey November 27,2012

⁵Turtle Lake Feasibility Study, November 10, 2011

⁶Revised results based on Phase 2 model and July 2017 update to Table 2-9

⁷Based on July 2020 model with MNDNR and Plymouth comments incorporated and submitted to MnDNR; Has not been officially approved

Bold Blue: Peak elev reduced by 0.1 ft+ when compared to 2020 DRAFT FEMA Model

Bold Red: Peak elev increased by 0.1 ft+ when compared to 2020 DRAFT FEMA Model