

Lake of the Woods Draft Load Allocation (October 20, 2017)		Existing Load (at Source)			Delivery to Lake of the Woods			Existing Load (at Lake of the Woods)			Allowable TP Load		Estimated Load Reduction		
		Total Load	Load originating in Canada	Load originating in US	Delivery to Rainy River	Delivery along Rainy River to Lake of the Woods	Total Delivery to Lake of the Woods	Total Load	Load originating in Canada	Load originating in US	Load at Source	Load to Lake	Load at Source	Load to Lake	Percent Change (at lake)
		kg/yr	kg/yr	kg/yr				kg/yr	kg/yr	kg/yr	kg/yr	kg/yr	kg/yr	kg/yr	
Total Load		886,878.1	326,450.1	560,428.0				815,841.1	294,883.5	520,957.6	710,535.3	654,477.9	176,342.8	161,363.2	-19.8%
Wasteload	Total WLA	90,087.9	44,681.2	45,406.7				73,196.9	36,079.1	37,117.8	33,138.3	26,642.0	56,949.6	46,554.9	-63.6%
	Wastewater	88,900.5	44,681.2	44,219.3				72,009.5	36,079.1	35,930.4	31,950.9	25,454.6	56,949.6	46,554.9	-64.7%
	Point Sources in Lake of the Woods HUC 8	62.4	-	62.4				42.3	-	42.3	101.4	68.3	(39.0)	(26.0)	61.6%
	Marvin Windows & Doors	4.0	-	4.0	N/A	N/A	100%	4.0	-	4.0	4.0	4.0	-	-	-
	Springsteel Island Sanitary District	5.4	-	5.4	N/A	N/A	100%	5.4	-	5.4	10.4	10.4	(5.0)	(5.0)	91.4%
	Williams WWTP	53.0	-	53.0	N/A	N/A	62%	32.8	-	32.8	87.0	53.9	(34.0)	(21.1)	64.2%
	Point Sources Discharging to Rainy River	88,838.1	44,681.2	44,156.9				71,967.2	36,079.1	35,888.1	31,849.5	25,386.3	56,988.5	46,581.0	-64.7%
	Point Sources Discharging to Big Fork River	388.0	-	388.0				240.5	-	240.5	610.0	395.6	(222.0)	(155.1)	64.5%
	Big Falls WWTP	19.7	-	19.7	86%	85%	73%	14.5	-	14.5	119.0	87.4	(99.3)	(72.9)	504.5%
	Bigfork WWTP	251.5	-	251.5	69%	85%	59%	147.2	-	147.2	216.0	126.4	35.5	20.8	-14.1%
	Effie WWTP	33.8	-	33.8	75%	85%	64%	21.7	-	21.7	102.0	65.5	(68.2)	(43.8)	202.2%
	MDNR Scenic State Park	14.4	-	14.4	105%	85%	89%	12.9	-	12.9	21.0	18.8	(6.6)	(5.9)	46.0%
	Northome WWTP	68.7	-	68.7	76%	85%	65%	44.3	-	44.3	122.0	78.7	(53.3)	(34.4)	77.6%
	Berger Horticultural Products - Pine Island Bog	-	-	-	73%	85%	63%	-	-	-	30.0	18.8	(30.0)	(18.8)	-
	Point Sources Discharging to Little Fork River	924.5	-	924.5				528.7	-	528.7	1,309.0	744.8	(384.5)	(216.0)	40.9%
	Cook WWTP	398.4	-	398.4	82%	84%	69%	274.5	-	274.5	509.0	350.7	(110.6)	(76.2)	27.8%
	ISD 2142 Pre-Kindergarten to Grade 12 N School	11.8	-	11.8	66%	84%	55%	6.5	-	6.5	44.0	24.4	(32.2)	(17.8)	272.1%
	Littlefork WWTP	146.7	-	146.7	97%	84%	81%	118.6	-	118.6	229.0	185.1	(82.3)	(66.5)	56.1%
	US Steel - Minntac Tailings Basin Area	27.1	-	27.1	48%	84%	40%	10.9	-	10.9	30.0	12.1	(2.9)	(1.2)	10.7%
	Hibbing Taconite Co - Tails Basin Area	340.5	-	340.5	42%	84%	35%	118.2	-	118.2	497.0	172.5	(156.5)	(54.3)	46.0%
	Point Sources Discharging Directly to Rainy River	87,525.6	44,681.2	42,844.3				71,198.0	36,079.1	35,118.9	29,930.5	24,245.9	57,595.0	46,952.1	-65.9%
	Anchor Bay Mobile Home Park	68.7	-	68.7	100%	97%	97%	66.7	-	66.7	44.0	42.8	24.7	24.0	-35.9%
	Barwick WWTP	6.0	6.0	-	100%	90%	90%	5.4	5.4	-	6.0	5.4	-	-	-
	Baudette WWTP	3,244.5	-	3,244.5	100%	97%	97%	3,152.6	-	3,152.6	367.0	356.6	2,877.5	2,796.0	-88.7%
	Boise White Paper LLC - Intl Falls	35,541.2	-	35,541.2	100%	81%	81%	28,679.2	-	28,679.2	25,000.0	20,173.2	10,541.2	8,506.0	-29.7%
	Emo WWTP	353.9	353.9	-	100%	86%	86%	304.9	304.9	-	353.9	304.9	-	-	-
	Fort Frances WWTP	779.6	779.6	-	100%	81%	81%	629.1	629.1	-	779.6	629.1	-	-	-
	ISD 363 - Indus School	13.6	-	13.6	100%	86%	86%	11.7	-	11.7	34.0	29.3	(20.4)	(17.6)	149.6%
	NKASD WWTP	3,976.3	-	3,976.3	100%	81%	81%	3,208.6	-	3,208.6	3,318.0	2,677.4	658.3	531.2	-16.6%
	Rainy River WWTP	28.0	28.0	-	100%	97%	97%	27.2	27.2	-	28.0	27.2	-	-	-
	Resolute (Abitibi)	43,513.7	43,513.7	-	100%	81%	81%	35,112.5	35,112.5	-	-	-	43,513.7	35,112.5	-100.0%
	Industrial Stormwater	798.0	-	798.0	N/A	N/A	100%	798.0	-	798.0	798.0	798.0	-	-	-
Construction Stormwater	389.4	-	389.4	N/A	N/A	100%	389.4	-	389.4	389.4	389.4	-	-	-	
Total LA	796,790.2	281,768.8	515,021.4				742,644.2	258,804.5	483,839.8	677,397.0	627,836.0	119,393.2	114,808.2	-15.5%	
Tributaries	373,560.1	141,072.3	232,487.8				319,414.1	118,107.9	201,306.2	336,495.1	286,934.1	37,065.0	32,480.0	-10.2%	
Rainy River Drainage	344,838.9	131,209.7	213,629.2				290,692.9	108,245.3	182,447.6	314,957.7	265,396.7	29,881.2	25,296.2	-8.7%	
Rainy Lake Drainage	148,302.6	103,470.2	44,832.4				119,669.7	83,493.1	36,176.6	148,302.6	119,669.7	-	-	-	
Rainy Lake	148,302.6	103,470.2	44,832.4	100%	81%	81%	119,669.7	83,493.1	36,176.6	148,302.6	119,669.7	-	-	-	
Little Fork River HUC8	72,512.8	-	72,512.8				60,607.7	-	60,607.7	46,410.2	38,790.6	26,102.6	21,817.1	-36.0%	
Little Fork River	72,512.8	-	72,512.8	100%	84%	84%	60,607.7	-	60,607.7	46,410.2	38,790.6	26,102.6	21,817.1	-36.0%	
Big Fork River HUC8	48,120.8	-	48,120.8				41,002.4	-	41,002.4	46,700.5	39,792.2	1,420.2	1,210.2	-3.0%	
Big Fork River	48,120.8	-	48,120.8	100%	85%	85%	41,002.4	-	41,002.4	46,700.5	39,792.2	1,420.2	1,210.2	-3.0%	
Rapid River HUC8	20,876.0	-	20,876.0				19,986.1	-	19,986.1	20,876.0	19,986.1	-	-	-	
Rapid River	20,876.0	-	20,876.0	100%	96%	96%	19,986.1	-	19,986.1	20,876.0	19,986.1	-	-	-	
Lower Rainy HUC8	55,026.6	27,739.4	27,287.2				49,427.1	24,752.2	24,674.9	52,668.3	47,158.1	2,358.3	2,268.9	-4.6%	
La Vallee River	3,633.9	3,633.9	-	100%	84%	84%	3,037.3	3,037.3	-	3,633.9	3,037.3	-	-	-	
Black River	11,253.3	-	11,253.3	100%	86%	86%	9,695.9	-	9,695.9	11,253.3	9,695.9	-	-	-	
Sturgeon River	3,155.9	3,155.9	-	100%	90%	90%	2,838.4	2,838.4	-	3,155.9	2,838.4	-	-	-	
McCloud Creek	382.0	-	382.0	100%	92%	92%	352.9	-	352.9	239.8	221.6	142.2	131.4	-37.2%	
Whitefish Creek	569.0	-	569.0	100%	93%	93%	531.2	-	531.2	343.7	320.8	225.3	210.3	-39.6%	
Pinewood River	5,695.6	5,695.6	-	100%	93%	93%	5,316.7	5,316.7	-	5,695.6	5,316.7	-	-	-	
Silver Creek	1,163.8	-	1,163.8	100%	96%	96%	1,114.2	-	1,114.2	659.2	631.1	504.6	483.1	-43.4%	
Unnamed (391)	470.4	-	470.4	100%	97%	97%	457.1	-	457.1	362.3	352.0	108.2	105.1	-23.0%	
Baudette River	1,658.5	-	1,658.5	100%	97%	97%	1,611.5	-	1,611.5	1,324.5	1,287.0	334.0	324.5	-20.1%	
Miller Creek	432.6	-	432.6	100%	97%	97%	420.4	-	420.4	221.6	215.3	211.0	205.0	-48.8%	
Winter Road River	3,376.4	-	3,376.4	100%	97%	97%	3,280.7	-	3,280.7	3,231.4	3,139.9	145.0	140.9	-4.3%	
Wabanica Creek	1,404.6	-	1,404.6	100%	97%	97%	1,364.8	-	1,364.8	716.5	696.2	688.1	668.7	-49.0%	

Lake of the Woods Draft Load Allocation (October 20, 2017)		Existing Load (at Source)			Delivery to Lake of the Woods			Existing Load (at Lake of the Woods)			Allowable TP Load		Estimated Load Reduction		
		Total Load	Load originating in Canada	Load originating in US	Delivery to Rainy River	Delivery along Rainy River to Lake of the Woods	Total Delivery to Lake of the Woods	Total Load	Load originating in Canada	Load originating in US	Load at Source	Load to Lake	Load at Source	Load to Lake	Percent Change (at lake)
		kg/yr	kg/yr	kg/yr				kg/yr	kg/yr	kg/yr	kg/yr	kg/yr	kg/yr	kg/yr	
Load	Direct Drainage	21,830.6	15,254.1	6,576.5	100%	89%	89%	19,405.9	13,559.8	5,846.1	21,830.6	19,405.9	-	-	-
	Lake of the Woods HUC8	28,721.2	9,862.6	18,858.6				28,721.2	9,862.6	18,858.6	21,537.3	21,537.3	7,183.8	7,183.8	-25.0%
	Sabaskong River	2,232.6	2,232.6	-	N/A	N/A	100%	2,232.6	2,232.6	-	2,232.6	2,232.6	-	-	-
	Splitrock River	1,228.0	1,228.0	-	N/A	N/A	100%	1,228.0	1,228.0	-	1,228.0	1,228.0	-	-	-
	Thompson Creek	779.8	779.8	-	N/A	N/A	100%	779.8	779.8	-	779.8	779.8	-	-	-
	Obabikon Lake	457.7	457.7	-	N/A	N/A	100%	457.7	457.7	-	457.7	457.7	-	-	-
	Big Grassy River	1,108.2	1,108.2	-	N/A	N/A	100%	1,108.2	1,108.2	-	1,108.2	1,108.2	-	-	-
	Little Grassy River	2,333.7	2,333.7	-	N/A	N/A	100%	2,333.7	2,333.7	-	2,333.7	2,333.7	-	-	-
	Bostic River (231)	1,783.9	-	1,783.9	N/A	N/A	100%	1,783.9	-	1,783.9	1,283.8	1,283.8	500.1	500.1	-28.0%
	County Ditch 1 (211)	1,134.7	-	1,134.7	N/A	N/A	100%	1,134.7	-	1,134.7	704.4	704.4	430.3	430.3	-37.9%
	South Branch Zippel Creek (213)	744.0	-	744.0	N/A	N/A	100%	744.0	-	744.0	214.9	214.9	529.1	529.1	-71.1%
	West Branch Zippel Creek (203)	1,887.6	-	1,887.6	N/A	N/A	100%	1,887.6	-	1,887.6	879.3	879.3	1,008.3	1,008.3	-53.4%
	Judicial Ditch 24 (201)	420.2	-	420.2	N/A	N/A	100%	420.2	-	420.2	259.4	259.4	160.8	160.8	-38.3%
	Judicial Ditch 24 (191)	1,256.2	-	1,256.2	N/A	N/A	100%	1,256.2	-	1,256.2	465.5	465.5	790.7	790.7	-62.9%
	Judicial Ditch 22 (181)	708.3	-	708.3	N/A	N/A	100%	708.3	-	708.3	333.3	333.3	375.1	375.1	-53.0%
	Reach 171	164.5	-	164.5	N/A	N/A	100%	164.5	-	164.5	52.5	52.5	112.0	112.0	-68.1%
	Willow Creek (161)	1,352.6	-	1,352.6	N/A	N/A	100%	1,352.6	-	1,352.6	641.7	641.7	711.0	711.0	-52.6%
	County Ditch 26 (151)	272.9	-	272.9	N/A	N/A	100%	272.9	-	272.9	102.7	102.7	170.2	170.2	-62.4%
	County Ditch 26 (141)	457.7	-	457.7	N/A	N/A	100%	457.7	-	457.7	193.3	193.3	264.4	264.4	-57.8%
	County Ditch 26 (131)	295.1	-	295.1	N/A	N/A	100%	295.1	-	295.1	83.8	83.8	211.3	211.3	-71.6%
	County Ditch 20 (121)	460.5	-	460.5	N/A	N/A	100%	460.5	-	460.5	193.4	193.4	267.1	267.1	-58.0%
	County Ditch 25 (113)	1,003.7	-	1,003.7	N/A	N/A	100%	1,003.7	-	1,003.7	341.7	341.7	662.0	662.0	-66.0%
	Warroad River	6,565.7	220.3	6,345.4	N/A	N/A	100%	6,565.7	220.3	6,345.4	5,574.2	5,574.2	991.5	991.5	-15.1%
	Stony Creek	746.0	438.7	307.3	N/A	N/A	100%	746.0	438.7	307.3	746.0	746.0	-	-	-
	Northwest Angle Inlet	1,327.7	1,063.7	264.0	N/A	N/A	100%	1,327.7	1,063.7	264.0	1,327.7	1,327.7	-	-	-
	Lakeshed	17,112.1	14,771.5	2,340.7				17,112.1	14,771.5	2,340.7	17,112.1	17,112.1	-	-	-
	Sabaskong East	2,058.1	2,058.1	-	N/A	N/A	100%	2,058.1	2,058.1	-	2,058.1	2,058.1	-	-	-
	Sabaskong West	1,824.3	1,824.3	-	N/A	N/A	100%	1,824.3	1,824.3	-	1,824.3	1,824.3	-	-	-
	Four Mile	1,988.5	1,988.5	-	N/A	N/A	100%	1,988.5	1,988.5	-	1,988.5	1,988.5	-	-	-
	Big Traverse	6,140.9	5,526.8	614.1	N/A	N/A	100%	6,140.9	5,526.8	614.1	6,140.9	6,140.9	-	-	-
	Muskeg	364.2	145.7	218.5	N/A	N/A	100%	364.2	145.7	218.5	364.2	364.2	-	-	-
	Little Traverse South	2,804.3	1,682.6	1,121.7	N/A	N/A	100%	2,804.3	1,682.6	1,121.7	2,804.3	2,804.3	-	-	-
	Little Traverse North	1,931.9	1,545.5	386.4	N/A	N/A	100%	1,931.9	1,545.5	386.4	1,931.9	1,931.9	-	-	-
Septic Systems	721.7	410.7	311.0				721.7	410.7	311.0	410.7	410.7	311.0	311.0	-43.1%	
Sabaskong East	22.4	22.4	-	N/A	N/A	100%	22.4	22.4	-	22.4	22.4	-	-	-	
Sabaskong West	130.4	130.4	-	N/A	N/A	100%	130.4	130.4	-	130.4	130.4	-	-	-	
Four Mile	107.4	21.5	85.9	N/A	N/A	100%	107.4	21.5	85.9	21.5	21.5	85.9	85.9	-80.0%	
Big Traverse	331.8	165.9	165.9	N/A	N/A	100%	331.8	165.9	165.9	165.9	165.9	165.9	165.9	-50.0%	
Muskeg	19.7	-	19.7	N/A	N/A	100%	19.7	-	19.7	-	-	19.7	19.7	-100.0%	
Little Traverse South	87.4	52.4	34.9	N/A	N/A	100%	87.4	52.4	34.9	52.4	52.4	34.9	34.9	-40.0%	
Little Traverse North	22.6	18.1	4.5	N/A	N/A	100%	22.6	18.1	4.5	18.1	18.1	4.5	4.5	-20.0%	
Shoreline Erosion	72,000.0	-	72,000.0				72,000.0	-	72,000.0	60,480.0	60,480.0	11,520.0	11,520.0	-16.0%	
Four Mile	9,395.4	-	9,395.4	N/A	N/A	100%	9,395.4	-	9,395.4	7,892.2	7,892.2	1,503.3	1,503.3	-16.0%	
Big Traverse	36,000.0	-	36,000.0	N/A	N/A	100%	36,000.0	-	36,000.0	30,240.0	30,240.0	5,760.0	5,760.0	-16.0%	
Muskeg	26,604.6	-	26,604.6	N/A	N/A	100%	26,604.6	-	26,604.6	22,347.8	22,347.8	4,256.7	4,256.7	-16.0%	
Atmospheric deposition	51,407.3	27,804.9	23,602.4	N/A	N/A	100%	51,407.3	27,804.9	23,602.4	51,407.3	51,407.3	-	-	-	
Internal load	281,989.1	97,709.5	184,279.5	N/A	N/A	100%	281,989.1	97,709.5	184,279.5	211,491.8	211,491.8	70,497.3	70,497.3	-25.0%	
TOTAL	886,878.1	326,450.1	560,428.0	-	-	-	815,841.1	294,883.5	520,957.6	710,535.3	654,477.9	176,342.8	161,363.2	-19.8%	
MOS (5%)											33,522.06				
LOADING CAPACITY											688,000				