

**Great Lakes Water Authority Audit Committee Meeting, January 5, 2018**  
**DISCUSSION DRAFT - FY 2019 & FY 2020 Biennial Budget and Five Year Plan (FY 2019 thru FY 2023)**  
**Index of Discussion Draft Worksheets (11 x 17)**

<b>Item</b>	<b>Description</b>
1	Executive Summary of Key Financial Plan Matters
2	Improvement & Extension Funds and Construction Bond Funds
3	Operations & Maintenance Budget by Area and Groups
4	Staffing Plan and Personnel Budget Summary
5	Capital Outlay by Funding Source

Great Lakes Water Authority  
 Executive Summary of Key Financial Plan Matters (See Accompanying Commentary)  
 DISCUSSION DRAFT - FY 2019 & FY 2020 Biennial Budget and Five Year Plan (FY 2019 thru FY 2023)

	Water						Sewer					
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
<b>Revenue Requirement Elements</b>												
<b>O&amp;M</b>	121,562,000	125,311,800	148,145,500	151,587,200	155,712,200	150,153,200	191,079,400	193,122,000	206,772,800	207,253,000	213,914,600	213,336,900
<i>O&amp;M Percent Change</i>		3%	18%	2%	3%	-4%		1%	7%	0%	3%	0%
<b>MBO Commitments</b>	173,735,500	171,344,400	182,744,100	191,986,500	192,811,700	201,434,300	260,743,000	269,677,500	280,055,900	281,611,500	292,071,900	284,378,600
<i>MBO Percent Change</i>		-1%	7%	5%	0%	4%		3%	4%	1%	4%	-3%
<b>I&amp;E</b>	32,821,200	38,024,900	17,178,700	18,417,300	27,946,700	39,941,900	13,677,700	12,010,600	6,973,800	24,690,100	28,110,300	57,745,200
<i>I&amp;E Percent Change</i>		16%	-55%	7%	52%	43%		-12%	-42%	254%	14%	105%
<b>Total</b>	<b>328,118,700</b>	<b>334,681,100</b>	<b>348,068,300</b>	<b>361,991,000</b>	<b>376,470,600</b>	<b>391,529,400</b>	<b>465,500,100</b>	<b>474,810,100</b>	<b>493,802,500</b>	<b>513,554,600</b>	<b>534,096,800</b>	<b>555,460,700</b>
		<u>2.0%</u>	<u>4.0%</u>	<u>4.0%</u>	<u>4.0%</u>	<u>4.0%</u>		<u>2.0%</u>	<u>4.0%</u>	<u>4.0%</u>	<u>4.0%</u>	<u>4.0%</u>

**Draft Revenue Requirement Elements as a Percent**

<b>O&amp;M</b>	37.0%	37.4%	42.6%	41.9%	41.4%	38.4%	41.0%	40.7%	41.9%	40.4%	40.1%	38.4%
<b>MBO Commitments</b>	52.9%	51.2%	52.5%	53.0%	51.2%	51.4%	56.0%	56.8%	56.7%	54.8%	54.7%	51.2%
<b>I&amp;E</b>	10.0%	11.4%	4.9%	5.1%	7.4%	10.2%	2.9%	2.5%	1.4%	4.8%	5.3%	10.4%
<b>Total</b>	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

**Draft Budget O&M Elements**

<b>A - Water Operations</b>	66,596,200	65,577,500	75,885,300	75,279,500	79,339,900	78,091,800						
<b>B - Sewer Operations</b>	-	-	-	-	-	-	118,318,900	122,999,100	136,562,400	143,262,800	149,770,800	152,551,000
<b>C - Centralized Services</b>	42,589,000	46,493,400	55,961,500	60,493,700	60,155,700	55,729,700	56,455,500	54,579,300	53,766,900	47,530,800	47,265,200	43,787,600
<b>D - Administrative Services</b>	12,376,800	13,240,900	16,298,700	15,814,000	16,216,600	16,331,700	16,305,000	15,543,600	16,443,500	16,459,400	16,878,600	16,998,300
<b>Total O&amp;M Budget</b>	<b>121,562,000</b>	<b>125,311,800</b>	<b>148,145,500</b>	<b>151,587,200</b>	<b>155,712,200</b>	<b>150,153,200</b>	<b>191,079,400</b>	<b>193,122,000</b>	<b>206,772,800</b>	<b>207,253,000</b>	<b>213,914,600</b>	<b>213,336,900</b>

	Water						Sewer					
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
<b>Proposed Centralized &amp; Administrative Allocation, Phase-in over three years</b>												
<b>C - Centralized Services Total and Allocation</b>	43%	46%	51%	56%	56%	56%	57%	54%	49%	44%	44%	44%
		46,493,400	55,961,500	60,493,700	60,155,700	55,729,700		54,579,300	53,766,900	47,530,800	47,265,200	43,787,600
<b>D - Administrative Services Total and Allocation</b>	43%	46%	48%	49%	49%	49%	57%	54%	52%	51%	51%	51%
		13,240,900	15,178,700	15,814,000	16,216,600	16,331,700		15,543,600	16,443,500	16,459,400	16,878,600	16,998,300

Excerpt from 12.2017 Audit Committee Cost Allocation Study Presentation

The compiled results for all Administrative and Centralized Services cost centers is shown in the table below.

	Water	Sewer
<b>Current Allocation Rates</b>		
Administrative Services	30.3%	69.7%
Centralized Services	52.5%	47.5%
<b>Preliminary FY 18 Cost Allocation Rate Study</b>		
Administrative	49.4%	50.6%
Centralized Services	56.1%	43.9%

**Great Lakes Water Authority**  
**Executive Summary of Key Financial Plan Matters (See Accompanying Commentary)**  
**DISCUSSION DRAFT - FY 2019 & FY 2020 Biennial Budget and Five Year Plan (FY 2019 thru FY 2023)**

Last Round of Budget Cuts Entered 12.27.2017	Water	Sewer	Total	% of Total	FTE Impact
<b>A - Water Operations</b>	\$ 7,211,740		\$ 7,211,740	30%	
<b>B - Sewer Operations</b>		5,553,625	5,553,625	23%	
<b>C - Centralized Services</b>	4,136,983	4,136,983	8,273,966	34%	35
<b>D -Administrative Services</b>	1,679,728	1,679,728	3,359,456	14%	2
	<u>\$ 13,028,451</u>	<u>\$ 11,370,336</u>	<u>\$ 24,398,787</u>	<u>100%</u>	<u>37</u>

<b>Debt Management</b>						
<b>New Debt for CIP</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<b>NEW Water Revenue Bonds</b>	-	-	<b>145,000,000</b>	-	<b>140,000,000</b>	-
New Debt Service Mid FY 2020			5,000,000	10,000,000	10,000,000	10,000,000
New Debt Service Mid FY 2022					5,000,000	10,000,000
<b>New Debt Service</b>	<u>-</u>	<u>-</u>	<u>5,000,000</u>	<u>10,000,000</u>	<u>15,000,000</u>	<u>20,000,000</u>
<b>NEW Sewer Revenue Bonds</b>	-	-	<b>150,000,000</b>	-	<b>130,000,000</b>	-
New Debt Service Mid FY 2020			5,000,000	10,000,000	10,000,000	10,000,000
New Debt Service Mid FY 2022					4,500,000	9,000,000
	<u>-</u>	<u>-</u>	<u>5,000,000</u>	<u>10,000,000</u>	<u>14,500,000</u>	<u>19,000,000</u>
<b>NEW SRF Loans</b>		<b>49,732,000</b>	<b>25,488,000</b>			
New Debt Service Mid FY 2019		1,890,400	3,344,200	4,556,800	4,635,100	4,709,700

New Debt Service Coverage Calculator (courtesy of The Foster Group)

	Water	Water	Sewer	Sewer
Millions	<b>145.00</b>	<b>140.00</b>	<b>150.00</b>	<b>130.00</b>
<b>Incremental Annual Revenue Req't</b>				
Annual Debt Service	9.88	9.54	10.22	8.86
Annual Coverage	4.94	4.77	5.11	4.43
Total Annual Revenue Req't	14.82	14.31	15.33	13.29

		Total					
		FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
<b>Revenue Requirement Elements</b>							
<b>O&amp;M</b>		312,641,400	318,433,800	354,918,300	358,840,200	369,626,800	363,490,100
	<b>O&amp;M Percent Change</b>		2%	11%	1%	3%	-2%
<b>MBO Commitments</b>		434,478,500	441,021,900	462,800,000	473,598,000	484,883,600	485,812,900
	<b>MBO Percent Change</b>		2%	5%	2%	2%	0%
<b>I&amp;E</b>		46,498,900	50,035,500	24,152,500	43,107,400	56,057,000	97,687,100
	<b>I&amp;E Percent Change</b>		8%	-52%	78%	30%	74%
<b>Total</b>		<u>793,618,800</u>	<u>809,491,200</u>	<u>841,870,800</u>	<u>875,545,600</u>	<u>910,567,400</u>	<u>946,990,100</u>
			<u>2%</u>	<u>4%</u>	<u>4%</u>	<u>4%</u>	<u>4%</u>

<b>Draft Revenue Requirement Elements as a Percent</b>							
<b>O&amp;M</b>		37.0%	37.4%	42.5%	41.8%	41.4%	38.4%
<b>MBO Commitments</b>		52.9%	51.1%	52.4%	53.0%	51.2%	51.5%
<b>I&amp;E</b>		10.0%	11.5%	5.0%	5.2%	7.4%	10.1%
<b>Total</b>		<u>100.0%</u>	<u>100.0%</u>	<u>100.0%</u>	<u>100.0%</u>	<u>100.0%</u>	<u>100.0%</u>

<b>Draft Budget O&amp;M Elements</b>							
<b>A - Water Operations</b>		66,596,200	65,577,500	75,885,300	75,279,500	79,339,900	78,091,800
<b>B - Sewer Operations</b>		118,318,900	122,999,100	136,562,400	143,262,800	149,770,800	152,551,000
<b>C - Centralized Services</b>		99,044,500	101,072,700	109,728,400	108,024,500	107,420,900	99,517,300
<b>D -Administrative Services</b>		28,681,800	28,784,500	32,742,200	32,273,400	33,095,200	33,330,000
<b>Total O&amp;M Budget</b>		<u>312,641,400</u>	<u>318,433,800</u>	<u>354,918,300</u>	<u>358,840,200</u>	<u>369,626,800</u>	<u>363,490,100</u>

		Total					
<b>Proposed Centralized &amp; Administrative Allocation, Phase-in over three years</b>		FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
<b>C - Centralized Services Total and Allocation</b>							
			101,072,700	109,728,400	108,024,500	107,420,900	99,517,300
	Check:		-	-	-	-	-
<b>D -Administrative Services Total and Allocation</b>							
			28,784,500	31,622,200	32,273,400	33,095,200	33,330,000
	Check:		-	-	-	-	-

This page intentionally left blank.

Great Lakes Water Authority  
 Improvement & Extension Funds and Construction Bond Funds  
 DISCUSSION DRAFT - FY 2019 & FY 2020 Biennial Budget and Five Year Plan (FY 2019 thru FY 2023)

Net Position Analysis (principally cash less accounts payable for these funds)

	As of 6/30/2017	Projected FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
<b>Water Improvement &amp; Extension Fund</b>		<b>184,000,000</b>	<b>176,055,900</b>	<b>173,307,400</b>	<b>166,403,100</b>	<b>60,795,100</b>	<b>75,178,500</b>
<b>Net Activity</b>		(7,944,100)	(2,748,500)	(6,904,300)	(105,608,000)	14,383,400	(21,358,900)
<b>Ending Balance</b>	<b>184,000,000</b>	<b>176,055,900</b>	<b>173,307,400</b>	<b>166,403,100</b>	<b>60,795,100</b>	<b>75,178,500</b>	<b>53,819,600</b>
<i>Target Net Position: Fund five year capital plan commitments; mininum ending balance = 1.75 x subsequent year needs but no less than \$50 million.</i>		\$ 71,353,450	\$ 42,145,250	\$ 217,044,275	\$ 23,735,775	\$ 107,276,400	\$ 50,000,000
<i>Exception:</i>				1.30			
<b>Sewer Improvement &amp; Extension</b>		<b>115,000,000</b>	<b>99,518,000</b>	<b>70,571,600</b>	<b>72,734,500</b>	<b>32,992,800</b>	<b>46,056,100</b>
<b>Net Activity</b>		(15,482,000)	(28,946,400)	2,162,900	(39,741,700)	13,063,300	(1,526,000)
<b>Ending Balance</b>	<b>115,000,000</b>	<b>99,518,000</b>	<b>70,571,600</b>	<b>72,734,500</b>	<b>32,992,800</b>	<b>46,056,100</b>	<b>44,530,100</b>
<i>Target Net Position: Fund five year capital plan commitments; mininum ending balance = 1.75 x subsequent year needs but no less than \$50 million.</i>		\$ 71,045,275	\$ 57,479,700	\$ 58,770,250	\$ 26,332,250	\$ 103,724,250	\$ 50,000,000
<b>Water Construction Bond Fund</b>		<b>173,000,000</b>	<b>140,716,000</b>	<b>69,099,000</b>	<b>86,881,000</b>	<b>59,609,000</b>	<b>99,061,000</b>
<b>Net Activity</b>		(32,284,000)	(71,617,000)	17,782,000	(27,272,000)	39,452,000	(43,100,000)
<b>Ending Balance</b>	<b>175,000,000</b>	<b>140,716,000</b>	<b>69,099,000</b>	<b>86,881,000</b>	<b>59,609,000</b>	<b>99,061,000</b>	<b>55,961,000</b>
<i>Target Net Position: No lower than six months of subsequent year projected spend</i>		\$ 45,500,000	\$ 66,500,000	\$ 66,500,000	\$ 52,500,000	\$ 48,750,000	\$ 50,000,000
<b>Sewer Construction Bond Fund</b>		<b>136,000,000</b>	<b>115,323,700</b>	<b>66,088,700</b>	<b>113,753,700</b>	<b>54,948,700</b>	<b>79,554,700</b>
<b>Net Activity</b>		(20,676,300)	(49,235,000)	47,665,000	(58,805,000)	24,606,000	(23,603,000)
<b>Ending Balance</b>	<b>151,000,000</b>	<b>115,323,700</b>	<b>66,088,700</b>	<b>113,753,700</b>	<b>54,948,700</b>	<b>79,554,700</b>	<b>55,951,700</b>
<i>Target Net Position: No lower than six months of subsequent year projected spend</i>		\$ 67,133,000	\$ 64,228,000	\$ 59,583,000	\$ 54,294,000	\$ 39,451,500	\$ 50,000,000

Fund	Sum of FY 2017 Original Budget	Sum of FY 2017 Amended Budget	Sum of FY 2017 Activity	Sum of FY 2018 Original Budget	Sum of FY 2018 Amended Budget	Sum of FY 2018 Activity thru 10.31.2017	Sum of Year-to- Date %	Sum of FY 2019 Request	Sum of FY 2020 Request	Sum of FY 2021 Request	Sum of FY 2022 Request	Sum of FY 2023 Request
<b>Water Improvement &amp; Extension</b>												
<b>Revenue (Sources)</b>	-	-	6,600	-	32,821,200	112,400	0.3%	38,024,900	17,178,700	18,417,300	27,946,700	39,941,900
105 TRANSFER IN - REVENUE REQUIREMENT	-	-	-	-	32,821,200	-	0.0%	38,024,900	17,178,700	18,417,300	27,946,700	39,941,900
106 EARNINGS ON INVESTMENTS	-	-	6,600	-	-	112,400	N/A	-	-	-	-	-
<b>Expense (Uses)</b>	22,097,000	104,010,000	1,006,200	70,061,600	32,821,200	723,100	2.2%	38,024,900	17,178,700	18,417,300	27,946,700	39,941,900
205 CAPITAL OUTLAY	12,902,800	4,000,000	1,006,200	15,829,300	15,829,300	723,100	4.6%	22,133,400	18,763,000	18,705,300	9,363,300	7,400,800
245 TRANSFER TO CONSTRUCTION FUND - SPECIFIC	-	3,258,000	-	14,936,000	14,936,000	-	0.0%	3,640,000	5,320,000	5,320,000	4,200,000	3,900,000
245 TRANSFER TO CONSTRUCTION FUND - STRATEGIC	-	2,500,000	-	30,000,000	10,000,000	-	0.0%	15,000,000	-	100,000,000	-	50,000,000
250 INCREASE/(DECREASE) IN RESERVES	9,194,200	94,252,000	-	9,296,300	(7,944,100)	-	0.0%	(2,748,500)	(6,904,300)	(105,608,000)	14,383,400	(21,358,900)
<b>Sewage Disposal Improvement &amp; Extension</b>												
<b>Revenue (Sources)</b>	-	-	27,400	-	11,922,100	16,700	0.1%	12,010,600	6,973,800	24,690,100	28,110,300	57,745,200
102 EARNINGS ON INVESTMENTS	-	-	27,400	-	-	16,700	N/A	-	-	-	-	-
105 TRANSFER IN - REVENUE REQUIREMENT	-	-	-	-	11,922,100	-	0.0%	12,010,600	6,973,800	24,690,100	28,110,300	57,745,200
<b>Expense (Uses)</b>	13,181,800	77,434,000	19,110,500	39,412,000	11,922,100	1,908,900	16.0%	12,010,600	6,973,800	24,690,100	28,110,300	57,745,200
205 CAPITAL OUTLAY	14,366,900	1,706,000	18,080,300	8,646,100	8,646,100	1,908,900	22.1%	5,957,000	4,810,900	4,431,800	15,047,000	4,271,200
210 DIRECT COSTS: CONTRACTED	-	-	1,028,400	-	-	-	N/A	-	-	-	-	-
221 DIRECT COSTS: SALARIES & WAGES	-	-	1,300	-	-	-	N/A	-	-	-	-	-
222 DIRECT COSTS: EMPLOYEE BENEFITS	-	-	500	-	-	-	N/A	-	-	-	-	-
245 TRANSFER TO CONSTRUCTION FUND - SPECIFIC	-	-	-	3,758,000	3,758,000	-	0.0%	-	-	-	-	-
245 TRANSFER TO CONSTRUCTION FUND - STRATEGIC	-	5,000,000	-	30,000,000	15,000,000	-	0.0%	35,000,000	-	60,000,000	-	55,000,000
250 INCREASE/(DECREASE) IN RESERVES	(1,185,100)	70,728,000	-	(2,992,100)	(15,482,000)	-	0.0%	(28,946,400)	2,162,900	(39,741,700)	13,063,300	(1,526,000)

Fund	Sum of FY 2017 Original Budget	Sum of FY 2017 Amended Budget	Sum of FY 2017 Activity	Sum of FY 2018 Original Budget	Sum of FY 2018 Amended Budget	Sum of FY 2018 Activity thru 10.31.2017	Sum of Year-to- Date %	Sum of FY 2019 Request	Sum of FY 2020 Request	Sum of FY 2021 Request	Sum of FY 2022 Request	Sum of FY 2023 Request
<b>Water Construction Bond</b>												
<b>Revenue (Sources)</b>	<b>203,887,500</b>	<b>232,218,000</b>	<b>483,800</b>	<b>45,371,000</b>	<b>25,371,000</b>	<b>349,400</b>	<b>1.4%</b>	<b>19,383,000</b>	<b>150,782,000</b>	<b>105,728,000</b>	<b>144,452,000</b>	<b>54,400,000</b>
101 BOND PROCEEDS	203,587,500	225,883,000	-	-	-	-	N/A	-	145,000,000	-	140,000,000	-
102 EARNINGS ON INVESTMENTS	300,000	577,000	483,800	435,000	435,000	349,400	80.3%	743,000	462,000	408,000	252,000	500,000
103 GRANTS	-	-	-	-	-	-	N/A	-	-	-	-	-
104 TRANSFER IN - SPECIFIC	-	3,258,000	-	14,936,000	14,936,000	-	0.0%	3,640,000	5,320,000	5,320,000	4,200,000	3,900,000
105 TRANSFER IN - STRATEGIC	-	2,500,000	-	30,000,000	10,000,000	-	0.0%	15,000,000	-	100,000,000	-	50,000,000
<b>Expense (Uses)</b>	<b>282,903,500</b>	<b>311,233,900</b>	<b>39,484,000</b>	<b>183,026,000</b>	<b>25,371,000</b>	<b>4,041,100</b>	<b>15.9%</b>	<b>19,383,000</b>	<b>150,782,000</b>	<b>105,728,000</b>	<b>144,452,000</b>	<b>54,400,000</b>
210 DIRECT COSTS: CONTRACTED	78,894,000	78,246,900	34,329,100	137,474,000	137,474,000	3,885,500	2.8%	193,858,000	196,934,000	141,054,000	130,153,000	98,640,000
221 DIRECT COSTS: SALARIES & WAGES	84,000	489,600	321,400	125,000	125,000	96,800	77.4%	162,000	224,000	172,000	101,000	-
222 DIRECT COSTS: EMPLOYEE BENEFITS	34,000	275,400	128,700	50,000	50,000	21,500	43.0%	62,000	90,000	70,000	42,000	-
225 DIRECT COSTS: NONPERSONNEL	4,000	4,000	606,500	6,000	6,000	37,300	621.7%	7,000	11,000	9,000	4,000	-
230 CAPITALIZED INTEREST	-	-	4,098,300	-	-	-	N/A	-	-	-	-	-
240 UNALLOCATED CIP FUNDING REQUESTS	-	-	-	-	(80,000,000)	-	0.0%	(103,089,000)	(64,259,000)	(8,305,000)	(25,300,000)	(1,140,000)
250 INCREASE/(DECREASE) IN RESERVES	203,887,500	232,218,000	-	45,371,000	(32,284,000)	-	0.0%	(71,617,000)	17,782,000	(27,272,000)	39,452,000	(43,100,000)
<b>Sewage Disposal Construction Bond</b>												
<b>Revenue (Sources)</b>	<b>41,898,000</b>	<b>27,577,000</b>	<b>817,200</b>	<b>183,584,000</b>	<b>72,084,000</b>	<b>(29,100)</b>	<b>0.0%</b>	<b>85,031,000</b>	<b>176,121,000</b>	<b>60,361,000</b>	<b>133,194,000</b>	<b>55,300,000</b>
101 BOND PROCEEDS	41,148,000	-	-	96,500,000	-	-	N/A	-	150,000,000	-	133,000,000	-
102 EARNINGS ON INVESTMENTS	750,000	250,000	817,200	429,000	429,000	(29,100)	-6.8%	299,000	633,000	361,000	194,000	300,000
103 GRANTS	-	20,621,000	-	52,897,000	52,897,000	-	0.0%	49,732,000	25,488,000	-	-	-
104 TRANSFER IN - SPECIFIC	-	1,706,000	-	3,758,000	3,758,000	-	0.0%	-	-	-	-	-
105 TRANSFER IN - STRATEGIC	-	5,000,000	-	30,000,000	15,000,000	-	0.0%	35,000,000	-	60,000,000	-	55,000,000
<b>Expense (Uses)</b>	<b>242,961,000</b>	<b>160,110,700</b>	<b>39,782,200</b>	<b>282,034,200</b>	<b>72,084,000</b>	<b>12,904,700</b>	<b>17.9%</b>	<b>85,031,000</b>	<b>176,121,000</b>	<b>60,361,000</b>	<b>133,194,000</b>	<b>55,300,000</b>
210 DIRECT COSTS: CONTRACTED	83,451,000	82,727,900	32,920,200	186,133,200	185,797,200	12,526,900	6.7%	195,613,500	187,483,500	113,818,500	88,126,000	23,548,300
221 DIRECT COSTS: SALARIES & WAGES	28,000	93,800	860,600	781,000	683,900	160,100	23.4%	1,146,000	1,256,000	988,000	735,000	166,000
222 DIRECT COSTS: EMPLOYEE BENEFITS	11,000	(5,000)	1,602,100	313,000	(999,500)	62,200	-6.2%	457,000	507,000	396,000	292,000	66,000
225 DIRECT COSTS: NONPERSONNEL	1,000	1,000	68,200	39,000	39,000	155,500	398.7%	57,000	63,000	46,000	37,000	8,000
230 CAPITALIZED INTEREST	-	-	4,331,100	-	-	-	N/A	-	-	-	-	-
240 UNALLOCATED CIP FUNDING REQUESTS	-	-	-	-	(92,760,300)	-	0.0%	(63,007,500)	(60,853,500)	3,917,500	19,398,000	55,114,700
250 INCREASE/(DECREASE) IN RESERVES	159,470,000	77,293,000	-	94,768,000	(20,676,300)	-	0.0%	(49,235,000)	47,665,000	(58,805,000)	24,606,000	(23,603,000)

**Great Lakes Water Authority**  
**OPERATIONS & MAINTENANCE FUND BY OPERATING AREA AND GROUP**  
**DISCUSSION DRAFT - FY 2019 & FY 2020 Biennial Budget and Five Year Plan (FY 2019 thru FY 2023)**

Fund # (Multiple Items)

As of  
 10/31/2017  
 Benchmark  
 = 33%

Row Labels	Sum of FY 2017 Original Budget	Sum of FY 2017 Amended Budget	Sum of FY 2017 Activity	Sum of FY 2017 % Year-to-Date	Sum of FY 2018 Original Budget	Sum of FY 2018 Amended Budget	Sum of FY 2018 Activity thru 10.31.2017	Sum of FY 2018 Year-to- Date %	Sum of FY 2019 Request	Sum of FY 2019 % Increase/ (Decrease)	Sum of FY 2020 Request	Sum of FY 2020 % Increase/ (Decrease)	Sum of FY 2021 Request	Sum of FY 2022 Request	Sum of FY 2023 Request
<b>Water Operating &amp; Field Services</b>	<b>120,699,200</b>	<b>119,349,800</b>	<b>86,556,600</b>	<b>72.5%</b>	<b>118,077,700</b>	<b>118,077,700</b>	<b>24,273,400</b>	<b>20.6%</b>	<b>118,140,100</b>	<b>0.1%</b>	<b>129,704,500</b>	<b>9.8%</b>	<b>127,968,700</b>	<b>131,894,900</b>	<b>130,538,100</b>
<b>Chief Operating Officer - Water Operations &amp; Field Services</b>	<b>259,500</b>	<b>259,500</b>	<b>285,200</b>	<b>109.9%</b>	<b>499,400</b>	<b>499,400</b>	<b>97,300</b>	<b>19.5%</b>	<b>601,000</b>	<b>20.3%</b>	<b>602,600</b>	<b>0.3%</b>	<b>604,200</b>	<b>605,800</b>	<b>606,000</b>
<b>Water Director</b>	<b>431,000</b>	<b>431,000</b>	<b>728,800</b>	<b>169.1%</b>	<b>1,145,800</b>	<b>1,145,800</b>	<b>246,500</b>	<b>21.5%</b>	<b>1,316,300</b>	<b>14.9%</b>	<b>1,336,500</b>	<b>1.5%</b>	<b>1,354,100</b>	<b>1,371,600</b>	<b>1,385,600</b>
<b>Water Operations</b>	<b>50,357,500</b>	<b>50,357,500</b>	<b>46,160,900</b>	<b>91.7%</b>	<b>52,110,100</b>	<b>52,110,100</b>	<b>11,744,200</b>	<b>22.5%</b>	<b>50,582,200</b>	<b>-2.9%</b>	<b>54,611,500</b>	<b>8.0%</b>	<b>50,426,800</b>	<b>51,061,800</b>	<b>50,495,500</b>
Lake Huron Water Plant	12,808,200	12,808,200	11,023,800	86.1%	12,923,100	12,923,100	2,269,000	17.6%	12,565,400	-2.8%	12,584,100	0.1%	12,602,800	12,621,600	12,634,600
Northeast Water Plant	10,308,300	10,308,300	8,875,500	86.1%	10,483,400	10,483,400	2,995,300	28.6%	9,588,100	-8.5%	10,764,900	12.3%	9,695,700	9,676,500	9,687,300
Southwest Water Plant	6,648,800	6,648,800	8,022,000	120.7%	6,730,600	6,730,600	1,821,100	27.1%	6,794,600	1.0%	9,082,600	33.7%	7,032,300	6,910,200	6,935,000
Springwells Water Plant	11,291,100	11,291,100	9,620,900	85.2%	11,643,600	11,643,600	2,349,600	20.2%	11,601,800	-0.4%	12,190,400	5.1%	11,087,600	11,826,200	11,191,800
Water Works Park	9,301,100	9,301,100	8,618,700	92.7%	10,329,400	10,329,400	2,309,200	22.4%	10,032,300	-2.9%	9,989,500	-0.4%	10,008,400	10,027,300	10,046,800
<b>Energy Management</b>	<b>508,000</b>	<b>508,000</b>	<b>365,600</b>	<b>72.0%</b>	<b>161,100</b>	<b>161,100</b>	<b>146,400</b>	<b>90.9%</b>	<b>385,100</b>	<b>139.0%</b>	<b>1,191,900</b>	<b>209.5%</b>	<b>521,400</b>	<b>444,800</b>	<b>446,100</b>
<b>Pumping Stations</b>	<b>9,555,700</b>	<b>9,555,700</b>	<b>9,106,400</b>	<b>95.3%</b>	<b>8,925,100</b>	<b>8,925,100</b>	<b>2,430,600</b>	<b>27.2%</b>	<b>9,420,700</b>	<b>5.6%</b>	<b>9,420,700</b>	<b>0.0%</b>	<b>9,420,700</b>	<b>9,420,700</b>	<b>9,420,700</b>
<b>Facility and Fleet Operations</b>	<b>16,016,600</b>	<b>16,016,600</b>	<b>7,127,300</b>	<b>44.5%</b>	<b>13,438,900</b>	<b>13,438,900</b>	<b>1,335,400</b>	<b>9.9%</b>	<b>11,985,400</b>	<b>-10.8%</b>	<b>11,993,700</b>	<b>0.1%</b>	<b>12,002,100</b>	<b>12,010,400</b>	<b>12,018,600</b>
Facility Operations	13,865,700	13,865,700	4,765,600	34.4%	11,288,000	11,288,000	1,334,300	11.8%	9,634,500	-14.6%	9,642,800	0.1%	9,651,200	9,659,500	9,667,700
Fleet Operations	2,150,900	2,150,900	2,361,700	109.8%	2,150,900	2,150,900	1,100	0.1%	2,350,900	9.3%	2,350,900	0.0%	2,350,900	2,350,900	2,350,900
<b>Field Services</b>	<b>18,677,300</b>	<b>18,677,300</b>	<b>5,877,600</b>	<b>31.5%</b>	<b>18,654,900</b>	<b>18,654,900</b>	<b>4,438,500</b>	<b>23.8%</b>	<b>20,549,000</b>	<b>10.2%</b>	<b>20,477,100</b>	<b>-0.3%</b>	<b>20,311,800</b>	<b>20,330,900</b>	<b>20,338,100</b>
Field Engineering	436,100	436,100	1,018,500	233.5%	761,500	761,500	254,900	33.5%	485,600	-36.2%	482,900	-0.6%	476,800	485,200	481,600
Field Service Operations	17,899,400	17,899,400	4,732,900	26.4%	17,494,100	17,494,100	3,965,300	22.7%	17,192,400	-1.7%	17,118,400	-0.4%	16,954,300	16,960,100	16,966,000
Field Services Director	341,800	341,800	126,200	36.9%	399,300	399,300	218,300	54.7%	2,871,000	619.0%	2,875,800	0.2%	2,880,700	2,885,600	2,890,500
<b>Research Innovation</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>	<b>0</b>	<b>0</b>	<b>-</b>	<b>N/A</b>	<b>1,115,900</b>	<b>N/A</b>	<b>1,582,200</b>	<b>41.8%</b>	<b>1,232,100</b>	<b>1,098,800</b>	<b>925,600</b>
<b>Systems Operations Control</b>	<b>19,243,900</b>	<b>19,243,900</b>	<b>14,223,300</b>	<b>73.9%</b>	<b>19,226,600</b>	<b>19,226,600</b>	<b>3,062,500</b>	<b>15.9%</b>	<b>18,527,200</b>	<b>-3.6%</b>	<b>18,574,300</b>	<b>0.3%</b>	<b>18,621,800</b>	<b>18,670,100</b>	<b>18,717,900</b>
<b>Water Engineering</b>	<b>1,148,000</b>	<b>1,148,000</b>	<b>1,535,300</b>	<b>133.7%</b>	<b>920,700</b>	<b>920,700</b>	<b>293,900</b>	<b>31.9%</b>	<b>968,700</b>	<b>5.2%</b>	<b>1,016,800</b>	<b>5.0%</b>	<b>1,022,400</b>	<b>1,029,500</b>	<b>1,028,100</b>
<b>Water Quality</b>	<b>652,300</b>	<b>652,300</b>	<b>1,146,200</b>	<b>175.7%</b>	<b>958,600</b>	<b>958,600</b>	<b>478,100</b>	<b>49.9%</b>	<b>1,147,700</b>	<b>19.7%</b>	<b>1,145,400</b>	<b>-0.2%</b>	<b>1,152,200</b>	<b>1,158,300</b>	<b>1,155,900</b>
<b>Water System Operations Unallocated</b>	<b>3,849,400</b>	<b>2,500,000</b>	<b>0</b>	<b>0.0%</b>	<b>2,036,500</b>	<b>2,036,500</b>	<b>-</b>	<b>0.0%</b>	<b>1,540,900</b>	<b>-24.3%</b>	<b>7,751,800</b>	<b>403.1%</b>	<b>11,299,100</b>	<b>14,692,200</b>	<b>14,000,000</b>
<b>Wastewater Operating Services</b>	<b>122,411,800</b>	<b>122,411,800</b>	<b>101,387,700</b>	<b>82.8%</b>	<b>118,318,700</b>	<b>118,318,700</b>	<b>27,356,900</b>	<b>23.1%</b>	<b>122,999,100</b>	<b>4.0%</b>	<b>136,562,400</b>	<b>11.0%</b>	<b>143,262,800</b>	<b>149,770,800</b>	<b>152,551,000</b>
<b>Wastewater Operations</b>	<b>98,992,000</b>	<b>96,895,300</b>	<b>89,200,000</b>	<b>92.1%</b>	<b>95,278,000</b>	<b>95,278,000</b>	<b>20,137,900</b>	<b>21.1%</b>	<b>87,249,900</b>	<b>-8.4%</b>	<b>89,562,100</b>	<b>2.7%</b>	<b>91,137,500</b>	<b>92,120,200</b>	<b>93,630,900</b>
Wastewater Operations	78,326,000	63,454,600	60,344,400	95.1%	62,034,100	62,034,100	15,878,900	25.6%	28,068,200	-54.8%	28,299,800	0.8%	28,782,400	29,251,400	29,910,300
Wastewater Primary Process	932,000	6,807,200	3,290,700	48.3%	775,000	775,000	231,900	29.9%	7,514,800	869.7%	7,668,700	2.0%	7,814,300	7,918,900	8,048,700
Wastewater Secondary Process	492,000	5,105,100	5,376,100	105.3%	1,302,000	1,302,000	575,000	44.2%	11,063,300	749.7%	12,527,600	13.2%	12,879,800	12,682,700	12,939,100
Wastewater Dewatering Process	2,140,000	4,081,800	2,118,300	51.9%	2,700,000	2,700,000	359,500	13.3%	6,325,300	134.3%	6,538,500	3.4%	6,620,800	6,704,600	6,790,100
Wastewater Incineration Process	562,000	906,600	2,058,000	227.0%	1,196,100	1,196,100	247,200	20.7%	5,872,400	391.0%	5,910,000	0.6%	6,027,100	6,084,300	6,123,500
BDF, COF & Hauling	16,495,000	16,495,000	15,706,000	95.2%	24,199,500	24,199,500	2,832,900	11.7%	23,155,700	-4.3%	23,579,600	1.8%	23,942,300	24,318,400	24,699,800
Wastewater Process Control	45,000	45,000	306,500	681.1%	3,071,300	3,071,300	12,500	0.4%	5,250,200	70.9%	5,037,900	-4.0%	5,070,800	5,159,900	5,119,400
<b>Combined Sewer Overflow Facilities</b>	<b>4,539,600</b>	<b>5,110,700</b>	<b>6,198,800</b>	<b>121.3%</b>	<b>7,892,900</b>	<b>7,892,900</b>	<b>1,162,300</b>	<b>14.7%</b>	<b>13,904,500</b>	<b>76.2%</b>	<b>12,729,700</b>	<b>-8.4%</b>	<b>12,836,800</b>	<b>13,081,200</b>	<b>14,268,100</b>
7 Mile Combined Sewer Overflow	55,600	55,600	121,800	219.1%	285,000	285,000	20,300	7.1%	172,000	-39.6%	144,800	-15.8%	147,800	151,000	191,000
Baby Creek Combined Sewer Overflow	405,000	405,000	628,200	155.1%	1,147,800	1,147,800	140,900	12.3%	3,569,100	211.0%	3,040,400	-14.8%	2,932,300	2,954,800	2,977,800
Belle Isle Combined Sewer Overflow	105,600	105,600	82,500	78.1%	164,000	164,000	35,500	21.6%	124,000	-24.4%	111,700	-9.9%	114,500	117,100	120,100
Combined Sewer Overflow	1,552,600	2,123,700	1,623,700	76.5%	1,739,800	1,739,800	446,800	25.7%	5,793,300	233.0%	5,355,400	-7.6%	5,478,800	5,607,200	6,508,300
Connor Creek Combined Sewer Overflow	838,600	838,600	1,560,600	186.1%	1,404,400	1,404,400	268,800	19.1%	1,471,200	4.8%	1,503,100	2.2%	1,535,600	1,568,800	1,603,000
Hubble Southfield CSO	438,400	438,400	383,000	87.4%	510,800	510,800	76,600	15.0%	444,900	-12.9%	454,900	2.2%	465,300	475,900	486,700
Leib Combined Sewer Overflow	175,000	175,000	122,900	70.2%	595,800	595,800	42,900	7.2%	255,500	-57.1%	225,600	-11.7%	230,700	235,900	241,200
Oakwood Combined Sewer Overflow	681,900	681,900	1,447,500	212.3%	946,700	946,700	93,900	9.9%	1,588,200	67.8%	1,504,400	-5.3%	1,533,300	1,562,700	1,722,800
Puritan Fenkell Combined Sewer Overflow	126,600	126,600	138,500	109.4%	549,600	549,600	11,700	2.1%	255,100	-53.6%	170,500	-33.2%	174,900	179,400	183,900
St Aubin Combined Sewer Overflow	160,300	160,300	90,100	56.2%	549,000	549,000	24,900	4.5%	231,200	-57.9%	128,900	-5.3%	223,600	228,400	233,300
<b>Pumping Stations</b>	<b>3,881,300</b>	<b>3,881,300</b>	<b>1,378,100</b>	<b>35.5%</b>	<b>2,256,000</b>	<b>2,256,000</b>	<b>316,800</b>	<b>14.0%</b>	<b>2,859,000</b>	<b>26.7%</b>	<b>2,859,000</b>	<b>0.0%</b>	<b>2,859,000</b>	<b>2,859,000</b>	<b>2,859,000</b>
<b>Industrial Waste Control</b>	<b>5,404,000</b>	<b>5,871,800</b>	<b>4,887,800</b>	<b>83.2%</b>	<b>4,944,600</b>	<b>4,944,600</b>	<b>1,563,100</b>	<b>31.6%</b>	<b>2,956,800</b>	<b>-40.2%</b>	<b>2,655,100</b>	<b>-10.2%</b>	<b>2,667,300</b>	<b>2,689,700</b>	<b>2,637,700</b>
<b>Wastewater Laboratories</b>	<b>0</b>	<b>771,200</b>	<b>753,800</b>	<b>97.7%</b>	<b>1,060,700</b>	<b>1,060,700</b>	<b>200,200</b>	<b>18.9%</b>	<b>4,109,700</b>	<b>287.5%</b>	<b>3,710,200</b>	<b>-9.7%</b>	<b>3,450,400</b>	<b>3,379,700</b>	<b>3,403,600</b>
<b>Wastewater Engineering</b>	<b>469,800</b>	<b>664,800</b>	<b>1,704,200</b>	<b>256.3%</b>	<b>2,735,700</b>	<b>2,735,700</b>	<b>604,900</b>	<b>22.1%</b>	<b>978,800</b>	<b>-64.2%</b>	<b>1,231,400</b>	<b>25.8%</b>	<b>987,400</b>	<b>991,900</b>	<b>1,246,900</b>



Great Lakes Water Authority  
 OPERATIONS & MAINTENANCE FUND BY OPERATING AREA AND GROUP  
 DISCUSSION DRAFT - FY 2019 & FY 2020 Biennial Budget and Five Year Plan (FY 2019 thru FY 2023)

Fund # (Multiple Items)

As of  
 10/31/2017  
 Benchmark  
 = 33%

Row Labels	Sum of FY 2017 Original Budget	Sum of FY 2017 Amended Budget	Sum of FY 2017 Activity	Sum of FY 2017 % Year-to-Date	Sum of FY 2018 Original Budget	Sum of FY 2018 Amended Budget	Sum of FY 2018 Activity thru 10.31.2017	Sum of FY 2018 Year-to-Date %	Sum of FY 2019 Request	Sum of FY 2019 % Increase/(Decrease)	Sum of FY 2020 Request	Sum of FY 2020 % Increase/(Decrease)	Sum of FY 2021 Request	Sum of FY 2022 Request	Sum of FY 2023 Request
Chief Operating Officer - Wastewater Operations	0	0	0	N/A	0	0	-	N/A	1,653,700	N/A	1,660,300	0.4%	1,666,900	1,673,500	1,680,100
Wastewater Director	1,408,200	1,499,800	2,032,800	135.5%	3,730,800	3,730,800	634,900	17.0%	4,808,800	28.9%	4,788,700	-0.4%	4,797,900	4,809,200	4,824,700
Wastewater Fire Damage	1,000,000	1,000,000	1,753,200	175.3%	0	0	2,736,800	N/A	0	N/A	0	N/A	0	0	0
Legal Settlement & Claims - Operating	0	0	(6,521,000)	N/A	0	0	-	N/A	0	N/A	0	N/A	0	0	0
Wastewater System Operations Unallocated	6,716,900	6,716,900	0	0.0%	420,000	420,000	-	0.0%	4,477,900	966.2%	17,365,900	287.8%	22,859,600	28,166,400	28,000,000
<b>Planning Services</b>	<b>7,868,500</b>	<b>7,319,400</b>	<b>6,211,400</b>	<b>84.9%</b>	<b>13,209,900</b>	<b>13,209,900</b>	<b>2,957,300</b>	<b>22.4%</b>	<b>12,231,800</b>	<b>-7.4%</b>	<b>15,322,500</b>	<b>25.3%</b>	<b>14,508,400</b>	<b>13,324,600</b>	<b>11,446,400</b>
Capital Improvement Planning	0	0	0	N/A	0	0	-	N/A	741,300	N/A	888,900	19.9%	892,700	896,500	900,300
Chief Planning Officer	293,900	310,300	438,400	141.3%	1,446,000	1,446,000	567,900	39.3%	367,200	-74.6%	518,800	41.3%	522,800	522,400	517,500
Planning Services	215,400	(333,700)	710,100	-212.8%	1,832,400	1,832,400	331,500	18.1%	1,665,000	-9.1%	3,063,600	84.0%	2,994,500	2,159,000	1,666,100
Systems Analytics	5,810,000	5,810,000	3,754,300	64.6%	8,697,800	8,697,800	1,554,400	17.9%	8,168,300	-6.1%	9,236,100	13.1%	7,468,300	7,103,700	6,706,500
Systems Planning	1,549,200	1,532,800	1,308,600	85.4%	1,233,700	1,233,700	503,500	40.8%	1,290,000	4.6%	1,615,100	25.2%	2,630,100	2,643,000	1,656,000
<b>Administrative &amp; Compliance Services</b>	<b>18,210,200</b>	<b>43,011,600</b>	<b>37,949,100</b>	<b>88.2%</b>	<b>39,726,200</b>	<b>39,726,200</b>	<b>11,811,500</b>	<b>29.7%</b>	<b>38,681,700</b>	<b>-2.6%</b>	<b>45,615,200</b>	<b>17.9%</b>	<b>45,346,400</b>	<b>45,379,600</b>	<b>39,420,700</b>
Chief Administrative Officer	156,900	156,900	471,100	300.3%	654,300	654,300	152,000	23.2%	675,700	3.3%	689,100	2.0%	702,200	715,300	728,000
General Counsel	3,540,700	3,540,700	2,559,200	72.3%	3,074,800	3,074,800	850,700	27.7%	3,288,200	6.9%	3,260,000	-0.9%	3,214,300	3,218,500	3,224,600
Information Technology	7,289,000	32,090,400	29,709,600	92.6%	28,135,200	28,135,200	8,741,500	31.1%	27,760,000	-1.3%	32,583,400	17.4%	32,330,200	32,328,100	26,333,400
Info Technology Business Applications	1,879,000	1,730,200	3,927,300	227.0%	5,205,100	5,205,100	1,691,100	32.5%	5,010,600	-3.7%	5,160,300	3.0%	5,196,600	5,249,000	4,987,000
Info Technology Enterprise Applications	547,100	2,222,300	839,600	37.8%	2,032,100	2,032,100	566,100	27.9%	2,232,900	9.9%	2,419,800	8.4%	2,382,000	2,454,300	2,465,700
Info Technology Infrastructure	452,200	24,727,500	19,984,300	80.8%	15,794,800	15,794,800	4,372,500	27.7%	14,646,100	-7.3%	18,392,800	25.6%	18,106,200	17,909,200	13,934,200
Info Technology Security & Risk	0	140,000	(1,252,600)	-894.7%	283,200	283,200	258,500	91.3%	521,200	84.0%	637,400	22.3%	638,800	640,200	331,500
Info Technology Service Delivery	353,900	3,213,800	3,406,900	106.0%	3,177,700	3,177,700	1,374,000	43.2%	3,633,100	14.3%	4,039,700	11.2%	4,091,200	4,117,900	2,651,200
Information Technology	0	0	0	N/A	0	0	-	N/A	0	N/A	0	N/A	0	0	0
InfoTechnology Project Management Office	142,600	327,600	929,400	283.7%	1,007,000	1,007,000	276,100	27.4%	1,132,900	12.5%	1,361,700	20.2%	1,336,900	1,372,100	1,377,000
Office of the CIO	3,914,200	(271,000)	1,874,700	-691.8%	635,300	635,300	203,200	32.0%	583,200	-8.2%	571,700	-2.0%	578,500	585,400	586,800
Organizational Development	3,229,500	3,229,500	2,172,100	67.3%	4,131,200	4,131,200	755,600	18.3%	4,117,400	-0.3%	4,437,900	7.8%	4,451,400	4,464,900	4,478,400
Risk Management and Safety	3,994,100	3,994,100	3,037,100	76.0%	3,730,700	3,730,700	1,311,700	35.2%	2,840,400	-23.9%	4,644,800	63.5%	4,648,300	4,652,800	4,656,300
<b>Financial Services</b>	<b>13,940,200</b>	<b>13,940,300</b>	<b>14,268,200</b>	<b>102.4%</b>	<b>13,054,200</b>	<b>13,054,200</b>	<b>3,827,100</b>	<b>29.3%</b>	<b>13,585,400</b>	<b>4.1%</b>	<b>13,639,800</b>	<b>0.4%</b>	<b>13,714,500</b>	<b>13,783,700</b>	<b>13,832,300</b>
Chief Financial Officer	844,300	580,800	326,200	56.2%	562,500	562,500	109,700	19.5%	711,300	26.5%	716,000	0.7%	720,700	725,000	729,700
Data Analytics & Internal Audit	375,000	375,100	308,900	82.4%	496,500	496,500	104,800	21.1%	479,700	-3.4%	480,800	0.2%	481,900	483,000	484,200
Financial Planning & Analysis	0	510,300	507,000	99.4%	897,600	897,600	277,700	30.9%	1,002,200	11.7%	956,400	-4.6%	959,900	964,100	967,300
Financial Reporting & Accounting	3,958,700	4,111,900	5,155,000	125.4%	3,584,000	3,584,000	1,170,400	32.7%	2,992,500	-16.5%	3,033,200	1.4%	3,044,600	3,056,000	3,067,300
Procurement	4,594,800	4,594,800	4,064,600	88.5%	4,399,400	4,399,400	1,358,200	30.9%	4,788,200	8.8%	4,748,500	-0.8%	4,769,800	4,790,500	4,812,300
Construction and Contract Services	0	0	0	N/A	1,106,900	1,106,900	86,000	7.8%	1,545,800	39.7%	1,452,400	-6.0%	1,459,000	1,465,500	1,472,100
Logistics and Materials	0	0	0	N/A	1,561,600	1,561,600	156,500	10.0%	1,550,000	-0.7%	1,557,500	0.5%	1,565,000	1,572,500	1,580,000
Procurement	4,594,800	4,594,800	4,064,600	88.5%	824,800	824,800	993,500	120.5%	592,800	-28.1%	594,800	0.3%	596,800	598,800	600,800
Supply Chain Operations	0	0	0	N/A	906,100	906,100	122,200	13.5%	1,099,600	21.4%	1,143,800	4.0%	1,149,000	1,153,700	1,159,400
Public Finance	1,088,000	1,088,000	1,000,400	91.9%	938,600	938,600	348,600	37.1%	1,132,200	20.6%	1,167,300	3.1%	1,173,100	1,173,200	1,154,900
Transformation	1,454,000	1,454,000	1,165,100	80.1%	1,113,500	1,113,500	200,700	18.0%	1,232,800	10.7%	1,267,000	2.8%	1,269,500	1,271,500	1,272,000
Transition	1,248,000	848,000	1,275,100	150.4%	0	0	72,700	N/A	0	N/A	0	N/A	0	0	0
Treasury	377,400	377,400	465,900	123.4%	1,062,100	1,062,100	184,300	17.4%	1,246,500	17.4%	1,270,600	1.9%	1,295,000	1,320,400	1,344,600
Chief Executive Officer	5,107,000	5,386,300	5,423,700	100.7%	6,356,700	6,356,700	2,238,800	35.2%	7,109,100	11.8%	7,199,900	1.3%	7,223,400	7,274,800	7,401,600
Board of Directors	197,000	197,000	2,300	1.2%	197,000	197,000	59,900	30.4%	198,900	1.0%	200,900	1.0%	203,000	205,000	207,200
Chief Executive Officer	773,700	773,700	458,000	59.2%	567,900	567,900	262,200	46.2%	616,500	8.6%	620,300	0.6%	624,200	628,100	632,100
Chief Security & Integrity Officer	3,423,100	3,423,100	4,034,100	117.8%	4,320,500	4,320,500	1,648,000	38.1%	5,082,200	17.6%	5,129,300	0.9%	5,136,700	5,162,000	5,191,200
Public Affairs	713,200	992,500	929,300	93.6%	1,271,300	1,271,300	268,700	21.1%	1,211,500	-4.7%	1,249,400	3.1%	1,259,500	1,279,700	1,371,100
Unallocated Reserve	0	(23,182,300)	0	0.0%	3,897,400	3,897,400	-	0.0%	5,686,600	45.9%	6,874,000	20.9%	6,816,000	8,198,400	8,300,000
Unallocated Reserve	0	(23,182,300)	0	0.0%	3,897,400	3,897,400	-	0.0%	5,686,600	45.9%	6,874,000	20.9%	6,816,000	8,198,400	8,300,000
Administrative Services Unallocated Res	0	395,300	0	0.0%	2,000,000	2,000,000	-	0.0%	2,250,500	12.5%	4,000,000	77.7%	3,456,000	4,147,200	4,200,000
Unallocated Reserve	0	395,300	0	0.0%	2,000,000	2,000,000	-	0.0%	2,250,500	12.5%	4,000,000	77.7%	3,456,000	4,147,200	4,200,000

Great Lakes Water Authority  
 OPERATIONS & MAINTENANCE FUND BY OPERATING AREA AND GROUP  
 DISCUSSION DRAFT - FY 2019 & FY 2020 Biennial Budget and Five Year Plan (FY 2019 thru FY 2023)

Fund # (Multiple Items)

As of  
 10/31/2017  
 Benchmark  
 = 33%

Row Labels	Sum of FY 2017 Original Budget	Sum of FY 2017 Amended Budget	Sum of FY 2017 Activity	Sum of FY 2017 % Year-to-Date	Sum of FY 2018 Original Budget	Sum of FY 2018 Amended Budget	Sum of FY 2018 Activity thru 10.31.2017	Sum of FY 2018 Year-to- Date %	Sum of FY 2019 Request	Sum of FY 2019 % Increase/ (Decrease)	Sum of FY 2020 Request	Sum of FY 2020 % Increase/ (Decrease)	Sum of FY 2021 Request	Sum of FY 2022 Request	Sum of FY 2023 Request
Centralized Services Unallocated Res	0	(23,577,600)	0	0.0%	1,897,400	1,897,400	-	0.0%	3,436,100	81.1%	2,874,000	-16.4%	3,360,000	4,051,200	4,100,000
Unallocated Reserve	0	(23,577,600)	0	0.0%	1,897,400	1,897,400	-	0.0%	3,436,100	81.1%	2,874,000	-16.4%	3,360,000	4,051,200	4,100,000
<b>Grand Total</b>	<b>288,236,900</b>	<b>288,236,900</b>	<b>251,796,700</b>	<b>87.4%</b>	<b>312,640,800</b>	<b>312,640,800</b>	<b>72,465,000</b>	<b>23.2%</b>	<b>318,433,800</b>	<b>1.9%</b>	<b>354,918,300</b>	<b>11.5%</b>	<b>358,840,200</b>	<b>369,626,800</b>	<b>363,490,100</b>

Great Lakes Water Authority  
 Staffing Plan and Personnel Budget Summary  
 DISCUSSION DRAFT - FY 2019 & FY 2020 Biennial Budget and Five Year Plan (FY 2019 thru FY 2023)

Benchmark  
 = 33%

Row Labels	Sum of FY 2017 Original Budget	Sum of FY 2017 Amended Budget	Sum of FY 2017 Activity	Sum of FY 2017 Actual as a % of Amended Budget	Sum of FY 2018 Original Budget	Sum of FY 2018 Amended Budget	Sum of FY 2018 Activity thru 10.31.2017	Sum of FY 2018 Year-to-Date %	Sum of FY 2019 Request	Sum of FY 2019 % Increase/ (Decrease)	Sum of FY 2020 Request	Sum of FY 2020 % Increase/ (Decrease)	Sum of FY 2021 Request	Sum of FY 2022 Request	Sum of FY 2023 Request
Salaries & Wages	54,575,400	54,673,800	46,042,700	84.2%	60,370,500	60,370,500	16,250,400	26.9%	63,901,900	5.8%	66,215,400	3.6%	66,216,900	66,218,500	66,220,400
Salaries & Wages - Workforce Development	-	-	-	N/A	764,800	764,800	-	0.0%	740,200	-3.2%	740,200	0.0%	740,200	740,200	740,200
Employee Benefits	20,684,400	20,579,900	19,654,800	95.5%	22,523,600	22,523,600	7,365,100	32.7%	22,243,700	-1.2%	23,347,200	5.0%	23,796,500	24,243,100	24,694,300
<b>Grand Total</b>	<b>75,259,800</b>	<b>75,253,700</b>	<b>65,697,500</b>	<b>87.3%</b>	<b>83,658,900</b>	<b>83,658,900</b>	<b>23,615,500</b>	<b>28.2%</b>	<b>86,885,800</b>	<b>3.9%</b>	<b>90,302,800</b>	<b>3.9%</b>	<b>90,753,600</b>	<b>91,201,800</b>	<b>91,654,900</b>
<b>Budget Staffing Plan</b>															
Corresponding Staffing Plan (FTEs)	1,148				1,177				1,192						
Transition Service Contracts in above	110				102				92						
<b>Actual Staffing Levels</b>			<b>6/30/2017</b>				<b>10/31/2017</b>								
FTEs															

Please note: an updated fil with the items highlighted in gray will be presented at the Audit Committee meeting on 1.5.2018.

**Great Lakes Water Authority**  
**DRAFT Capital Outlay by Funding Source**  
**Improvement & Extension Fund and Operations & Maintenance Fund**  
**DISCUSSION DRAFT - FY 2019 & FY 2020 Biennial Budget and Five Year Plan (FY 2019 thru FY 2023)**

	FY 2018		FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
	Board Adopted Cost	FY 2018 Amended Cost	Department Requested	Department Requested	Department Requested	Department Requested	Department Requested
<b>Improvement &amp; Extension</b>	<b>24,427,302</b>	<b>24,427,302</b>	<b>28,090,486</b>	<b>23,573,797</b>	<b>23,137,069</b>	<b>24,410,423</b>	<b>11,671,940</b>
<b>Improvement &amp; Extension - Sewer</b>	<b>8,591,007</b>	<b>8,591,007</b>	<b>5,956,990</b>	<b>4,810,801</b>	<b>4,431,750</b>	<b>15,047,022</b>	<b>4,271,111</b>
7 Mile Combined Sewer Overflow	454,842	454,842	75,000	51,774	5,250	1,550,000	127,779
Analytical Laboratory			348,000				135,500
Baby Creek Combined Sewer Overflow	619,459	619,459	340,000	441,200	194,560	218,484	250,800
Belle Isle Combined Sewer Overflow			55,000				
Conner Creek Combined Sewer Overflow	297,040	297,040	268,000	118,800	180,680	5,993,748	451,163
Industrial Waste Control	13,200	13,200	166,000				1,200
Leib Combined Sewer Overflow	97,216	97,216	168,952		64,466	64,466	61,216
Oakwood Combined Sewer Overflow	225,000	225,000			80,000		212,000
St. Aubin Combined Sewer Overflow	103,758	103,758	217,238	27,160		805,000	113,496
Wastewater Dewatering Process	220,000	220,000	332,000	370,000	368,000	238,000	258,000
Wastewater Director	65,500	65,500	492,500	992,500	107,500	115,500	107,500
Wastewater Incineration Process	164,000	164,000	153,000	288,000	195,000	285,000	196,500
Wastewater Operations	2,735,500	2,735,500	1,464,000	1,316,367	1,191,494	1,226,624	1,218,257
Wastewater Primary Process	1,735,000	1,735,000	1,670,000	970,000	1,420,000	970,000	905,000
Wastewater Process Control	560,000	560,000				310,200	
Wastewater Secondary Process	492,500	492,500	38,000	20,000	20,000	20,000	49,500
Hubbell-Southfield Combined Sewer Overflow	358,400	358,400	16,800	65,000		2,600,000	-
Puritan-Fenkell Combined Sewer Overflow	449,592	449,592	152,500	150,000	604,800	650,000	183,200
Wastewater Director							
<b>Improvement &amp; Extension - Water</b>	<b>15,836,295</b>	<b>15,836,295</b>	<b>22,133,496</b>	<b>18,762,996</b>	<b>18,705,319</b>	<b>9,363,401</b>	<b>7,400,829</b>
Asset Management & Capital Improvement Planning	24,000	24,000	100,000				
Systems Analytics	229,520	229,520	195,504	100,609	153,574	157,000	125,930
Systems Planning	2,000	2,000	276,500	21,000			
Chief Executive Officer	200,000	200,000					
Chief Financial Officer	200,000	200,000					
Facility Operations			100,000	100,000	100,000	100,000	100,000
Field Engineering			40,000				
Fleet Operations	1,589,869	1,589,869	2,093,608	1,040,141	2,072,586	1,785,242	2,922,599
Info Technology Business Applications			5,000,000	10,000,000	10,000,000	2,000,000	
Info Technology Enterprise Applications			-	-			
Info Technology Infrastructure			2,000,000				
Info Technology Service Desk			250,000				
Information Technology	100,000	100,000					
Lake Huron Water Plant	588,000	588,000	458,000	144,000	13,000	13,000	13,000
Logistics & Materials			1,600,000				
Northeast Water Plant	708,000	708,000	1,103,000	925,000	335,000	320,000	320,000

**Great Lakes Water Authority**  
**DRAFT Capital Outlay by Funding Source**  
**Improvement & Extension Fund and Operations & Maintenance Fund**  
**DISCUSSION DRAFT - FY 2019 & FY 2020 Biennial Budget and Five Year Plan (FY 2019 thru FY 2023)**

	FY 2018		FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
	Board Adopted Cost	FY 2018 Amended Cost	Department Requested	Department Requested	Department Requested	Department Requested	Department Requested
Organizational Development	100,000	100,000					
Procurement	300,000	300,000					
Public Affairs	300,000	300,000					
Research Innovation			300,000				
Risk Management			100,000	100,000	100,000	100,000	100,000
Security	7,908,585	7,908,585	3,706,340	2,341,358	2,182,523	1,682,523	
Southwest Water Plant	463,500	463,500	631,500	238,000	95,000	45,000	45,000
Springwells Water Plant	510,000	510,000	742,000	735,000	679,000	632,000	351,000
Systems Operations Control	2,050,000	2,050,000	2,675,000	2,675,000	2,875,000	2,425,000	2,875,000
Water Engineering	49,000	49,000	228,500	5,500	11,500	5,500	5,500
Water Quality	50,000	50,000	29,000	7,000	32,000	30,000	79,000
Water Works Park	463,821	463,821	504,544	330,388	56,136	68,136	463,800
<b>Operations &amp; Maintenance</b>	<b>7,401,543</b>	<b>7,401,543</b>	<b>7,628,929</b>	<b>8,575,041</b>	<b>8,962,552</b>	<b>8,624,492</b>	<b>2,517,550</b>
<b>Operations &amp; Maintenance - Sewer</b>	<b>783,766</b>	<b>783,766</b>	<b>350,200</b>	<b>53,000</b>	<b>139,665</b>	<b>125,054</b>	<b>125,400</b>
7 Mile Combined Sewer Overflow	110,600	110,600					
Analytical Laboratory			3,300			1,854	
Baby Creek Combined Sewer Overflow	30,600	30,600					
Belle Isle Combined Sewer Overflow	58,600	58,600					
Conner Creek Combined Sewer Overflow	10,600	10,600					
Industrial Waste Control	69,300	69,300	81,100	28,350	42,250	52,750	43,200
Leib Combined Sewer Overflow	75,066	75,066					
Oakwood Combined Sewer Overflow	10,600	10,600					
St. Aubin Combined Sewer Overflow	10,600	10,600					
Wastewater Director			55,000	20,000	10,000	10,000	10,000
Wastewater Incineration Process					5,715		
Wastewater Operations	53,000	53,000	53,000		55,000		58,000
Wastewater Primary Process					22,000		
Wastewater Process Control			157,800	4,650	4,700	60,450	14,200
Wastewater Secondary Process							
Hubbell-Southfield Combined Sewer Overflow	10,600	10,600					
Puritan-Fenkell Combined Sewer Overflow	344,200	344,200					
<b>Operations &amp; Maintenance - Water</b>	<b>6,617,777</b>	<b>6,617,777</b>	<b>7,278,729</b>	<b>8,522,041</b>	<b>8,822,887</b>	<b>8,499,438</b>	<b>2,392,150</b>
Asset Management & Capital Improvement Planning			58,000				
Systems Analytics	267,300	267,300	232,450	230,400	287,350	244,400	256,750
Facility Operations	302,500	302,500	302,500	302,500	302,500	302,500	302,500
Info Technology Business Applications	323,464	323,464	326,744	330,002	333,240	336,559	-
Info Technology Enterprise Applications	904,000	904,000	960,040	966,140	972,302	978,525	985,000
Info Technology Infrastructure	3,214,013	3,214,013	3,558,545	4,878,209	5,098,074	4,780,110	700,000

Great Lakes Water Authority  
DRAFT Capital Outlay by Funding Source  
Improvement & Extension Fund and Operations & Maintenance Fund  
DISCUSSION DRAFT - FY 2019 & FY 2020 Biennial Budget and Five Year Plan (FY 2019 thru FY 2023)

	FY 2018 Board Adopted Cost	FY 2018 Amended Cost	FY 2019 Department Requested	FY 2020 Department Requested	FY 2021 Department Requested	FY 2022 Department Requested	FY 2023 Department Requested
Info Technology Security & Risk	60,000	60,000	310,000	310,000	310,000	310,000	
Info Technology Service Desk	1,405,000	1,405,000	1,421,550	1,438,290	1,455,221	1,472,144	
Public Affairs	124,500	124,500	18,800	18,800	18,800	28,800	102,000
Research Innovation				1,800			
Systems Operations Control			27,500	27,500	27,500	28,000	28,000
Water Engineering	17,000	17,000	53,600	13,900	13,400	13,900	13,400
Water Quality			9,000	4,500	4,500	4,500	4,500
<b>Grand Total</b>	<b>31,828,845</b>	<b>31,828,845</b>	<b>35,719,415</b>	<b>32,148,838</b>	<b>32,099,621</b>	<b>33,034,915</b>	<b>14,189,490</b>