



Water and Sewer Rates

# Village of Lake Orion

# Current number of customers by size

Lake Orion Water				
CURRENT RATE CHARGES & NUMBER OF CUSTOMERS				
Customers Are Invoiced <b>QUARTERLY PER</b>				
CURRENT CHARGES RATE CLASS 1				
Lake Orion Water				
TYPE OF UNITS INVOICED	100 CUFT	NOTES		
COST PER 100 CUBIC FT.	\$6.32			
INVOICES PER YEAR	4			
METER SIZE IN INCHES	CURRENT "BASE RATE" CHARGE \$	NUMBER OF METERS / REU'S	INVOICES PER YEAR	ANNUAL INCOME
3/4	\$72.37	1197	4	\$346,508
1	\$90.47	213	4	\$77,080
1 1/2	\$253.28	32	4	\$32,420
2	\$484.86	15	4	\$29,092
3	\$1,085.57	3	4	\$13,027
4			4	\$0
6			4	\$0
8			4	\$0
10		0	4	\$0
12			4	\$0
<b>TOTALS</b>		<b>1460</b>		<b>\$498,126</b>

BASE RATE	TOTAL NUMBER OF CUSTOMERS / REU'S
CURRENT ANNUAL INCOME	
\$346,508	1,197
\$77,080	213
\$32,420	32
\$29,092	15
\$13,027	3
\$0	0
\$0	0
\$0	0
\$0	0
\$0	0
\$0	0
<b>\$498,126</b>	<b>1,460</b>

# Water invoiced to customers

Lake Orion Water	WATER OR SEWAGE INVOICED TO CUSTOMERS														
	USAGE REPORTED IN <b>CUBIC FEET</b>														
	USAGE REPORTED IN <b>FISCAL YEARS</b>														
	FISCAL YEAR ENDING IN YEAR OF														
	2017/2018'	2019/2020'	2020/2021'	2021/2022'	2022/2023'	COST PER UNIT	REVENUE	PERCENT OF USE	AVERAGE	MAX. YEAR	MIN. YEAR	PERCENT DIFFERENCE FROM MAX TO MIN. YEAR	ANTICIPATED PERCENT DECREASE NEXT YEAR	UNITS USED IN RATE EVALUATION	
Lake Orion Water		12,326,613	12,156,524	11,582,298	13,197,328	\$6.32	\$834,071	100.0%	12,315,691	13,197,328	11,582,298	12%	0.0%	11,582,298	
<b>TOTALS</b>	<b>0</b>	<b>12,326,613</b>	<b>12,156,524</b>	<b>11,582,298</b>	<b>13,197,328</b>		<b>\$834,071</b>		12,315,691	13,197,328	11,582,298	12%		11,582,298	
WHO PROVIDED UNITS INVOICED REPORT															
WAS THE REPORT COPIED INTO THIS EXCEL FILE?															
WAS AN ELECTRONIC COPY OF THE ORIGINAL KEPT ?															
														GALLONS OF REDUCTION	0
															11,582,298

# Current income from water invoiced

CURRENT REVENUE BASED ON CURRENT RATE CHARGES							
Lake Orion Water							2024
	Lake Orion Water	RATE CLASS 2	RATE CLASS 3	RATE CLASS 4	RATE CLASS 5	RATE CLASS 6	
	Lake Orion Water	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	REVENUE
	New Cost per Unit of Water Sold						NEW RATES
\$ PER 100 CUFT	\$6.320	\$6.320	\$6.320	\$6.320	\$6.320	\$6.320	
UNITS Sold	131,973	0	0	0	0	0	131,973
Income	\$834,071	\$0	\$0	\$0	\$0	\$0	\$834,071
PERCENT OF USAGE	100%	0%	0%	0%	0%	0%	
PERCENT REVENUE	100%	0%	0%	0%	0%	0%	
METER SIZE	NEW BASE RATE PER QUARTER						
3/4	\$72.370	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	
NO. CUSTOMERS	1,197	0	0	0	0	0	
INVOICES PER YEAR	4	4	4	4	4	4	
ANNUAL INVOICES	4,788	0	0	0	0	0	
INCOME	\$346,507.56	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$346,508
1	\$90.47	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
NO. CUSTOMERS	213	0	0	0	0	0	
INVOICES PER YEAR	4	4	4	4	4	4	
ANNUAL INVOICES	852	0	0	0	0	0	
INCOME	\$77,080.44	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$77,080
1 1/2	\$253.28	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
NO. CUSTOMERS	32	0	0	0	0	0	
INVOICES PER YEAR	4	4	4	4	4	4	
ANNUAL INVOICES	128	0	0	0	0	0	
INCOME	\$32,419.84	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$32,420
2	\$484.86	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
NO. CUSTOMERS	15	0	0	0	0	0	
INVOICES PER YEAR	4	4	4	4	4	4	
ANNUAL INVOICES	60	0	0	0	0	0	
INCOME	\$29,091.60	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$29,092
3	\$1,085.57	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
NO. CUSTOMERS	3	0	0	0	0	0	
INVOICES PER YEAR	4	4	4	4	4	4	
ANNUAL INVOICES	12	0	0	0	0	0	
INCOME	\$13,026.84	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$13,027
CURRENT Fixed Income "RTS"							\$498,126
CURRENT VOLUME "UNITS WATER INVOICED" INCOME							\$834,071
CURRENT INCOME - GENERATED WITH CURRENT RATES RTS & UNITS INVOICED							\$1,332,197
LAST YEARS NON-SALES INCOME							\$0
LAST YEARS CALCULATED COMBINED INCOME							\$1,332,197



# Operating expenses current and past 3 years

PRIOR YEAR ACTUALS EXPENSES (COMPARISON PURPOSES ONLY)			Lake Orion Water		PROPOSED BUDGET FOR FISCAL YEAR	YEAR 2	YEAR 3	YEAR 4	YEAR 5
2019/2020 ACTUAL	2020/2021 ACTUAL	2022/2023 ACTUAL	ACCT #	OPERATING EXPENSES	2024	2025	2026	2027	2028
\$10,843	\$9,876	\$4,500	592-260-805-000	Audit Fees	\$4,725	\$4,867	\$5,013	\$5,163	\$5,318
\$1,603	\$1,626		592-260-823-001	Municipal Software		\$0	\$0	\$0	\$0
\$1,131	\$1,515	\$1,000	592-260-852-000	Miss Dig	\$1,050	\$1,082	\$1,114	\$1,147	\$1,182
\$108,000	\$110,000	\$60,500	592-260-959-000	Financial Administration	\$63,718	\$65,630	\$67,598	\$69,626	\$71,715
\$47,989	\$43,620	\$58,916	592-556-701-000	Wages	\$61,861	\$63,717	\$65,628	\$67,597	\$69,625
\$7,968	\$2,647	\$5,000	592-556-701-013	Overtime	\$5,250	\$5,408	\$5,570	\$5,737	\$5,909
\$4,030	\$3,541	\$4,890	592-556-715-000	Social Security	\$51,345	\$52,885	\$54,472	\$56,106	\$57,789
\$10,118	\$10,617	\$13,200	592-556-716-000	Health Insurance- Medical	\$13,200	\$13,596	\$14,004	\$14,424	\$14,857
\$519	\$437	\$745	592-556-717-000	Life - Disability Insurance	\$745	\$767	\$790	\$814	\$839
\$1,113	\$965	\$1,260	592-556-718-000	Dental Insurance	\$1,260	\$1,298	\$1,337	\$1,377	\$1,418
\$22,265	\$5,217	\$88,732	592-556-719-000	Pension	\$88,732	\$91,394	\$94,136	\$96,960	\$99,869
\$186	\$184	\$263	592-556-721-000	Vision Care	\$263	\$271	\$279	\$287	\$296
\$3,300	\$2,340	\$2,500	592-556-722-000	Worker's Comp. Insurance	\$2,500	\$2,575	\$2,652	\$2,732	\$2,814
\$10,776	\$948	\$7,000	592-556-726-000	Supplies	\$7,350	\$7,571	\$7,798	\$8,032	\$8,272
	\$1,473	\$1,500	592-556-741-000	Small Tools	\$1,575	\$1,622	\$1,671	\$1,721	\$1,773
\$440,292	\$418,778	\$462,000	592-556-745-000	Water Purchase -Orion Township	\$0	\$0	\$0	\$0	\$0
\$16,648	\$37,393	\$10,000	592-556-801-000	Contract Services	\$10,500	\$10,815	\$11,139	\$11,474	\$11,818
\$12,144	\$75,255	\$50,000	592-556-806-000	Engineering	\$52,500	\$54,075	\$55,697	\$57,368	\$59,089
		\$1,000	592-556-813-000	Legal Service	\$1,050	\$1,082	\$1,114	\$1,147	\$1,182
		\$0	592-556-831-000	Sewage Disposal Costs	\$0	\$0	\$0	\$0	\$0
\$3,702	\$4,598	\$3,000	592-556-931-000	Equip Repair & Maint - Misc.	\$3,150	\$3,245	\$3,342	\$3,442	\$3,545
\$540		\$7,500	592-556-931-001	Equip Repair & Maint - Hydrant	\$7,800	\$8,034	\$8,275	\$8,523	\$8,779
\$1,687		\$5,000	592-556-931-002	Equip Repair & Maint - Mains	\$5,250	\$5,408	\$5,570	\$5,737	\$5,909
\$2,933	\$3,593	\$5,000	592-556-931-003	Equip Repair & Maint - Meters	\$5,250	\$5,408	\$5,570	\$5,737	\$5,909
\$26,416	\$18,159	\$22,000	592-556-940-000	Equipment Rental	\$23,100	\$23,793	\$24,507	\$25,242	\$25,999
\$3,121	\$2,377	\$3,500	592-556-956-000	Dues & Miscellaneous	\$3,750	\$3,863	\$3,978	\$4,098	\$4,221
\$640	\$145	\$3,000	592-556-957-000	Education and Training	\$3,250	\$3,348	\$3,448	\$3,551	\$3,658
\$32,136		\$1,500	592-556-975-000	Capital Improvement	\$1,575	\$1,622	\$1,671	\$1,721	\$1,773
\$53,783	\$88,906		592-556-995-000	Bond Interest Expense	\$0	\$0	\$0	\$0	\$0
			592-556-995-001	2003 GO Bond Interest	\$0	\$0	\$0	\$0	\$0
			592-556-995-002	98 Revenue Bond Interest	\$0	\$0	\$0	\$0	\$0
\$823,883	\$844,210	\$823,506		<b>TOTAL</b>	<b>\$420,749</b>	<b>\$433,371</b>	<b>\$446,373</b>	<b>\$459,764</b>	<b>\$473,557</b>
% INCREASE			<b>-2.5%</b>			<b>YEAR 2</b>	<b>YEAR 3</b>	<b>YEAR 4</b>	<b>YEAR 5</b>
						<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>



# Summary

FINAL ANALYSIS RATE CALCULATION - CURRENT FISCAL YEAR		2024				RTS CHARGE		VOLUME CHARGE	
Lake Orion Water	ANNUAL BUDGET	PERCENT FIXED EXPENSES	ASSIGNED AS FIXED EXPENSES	ANTICIPATED ANNUAL METER EQUIVALENTS	COST PER METER EQUIVALENT	ASSIGNED AS VARIABLE EXPENSES	ANTICIPATED EQUIVALENT UNITS	\$ COST PER 100 CUBIC FEET	
OPERATING EXPENSES	\$420,749	40%	\$168,300	6,883	\$24.45	\$252,449	115,823	\$2.180	
PURCHASED WATER	\$499,653	0%	\$0	6,883	\$0.00	\$499,653	115,823	\$4.314	
OPERATION & MAINTENANCE EXPENSES	\$920,402		\$168,300		\$24.45	\$752,102		\$6.494	
<b>DEBT - PRINCIPAL &amp; INTEREST ANNUAL PAYMENTS</b>									
2017 water srf	\$360,214	100.00%	\$360,214	6,883	\$52.33	\$0	115,823	\$0.00	
ANNUAL DEBT PAYMENTS PRINCIPAL & INTEREST	\$360,214		\$360,214		\$52.33	\$0		\$0.00	
ANNUAL O & M + DEBT	\$1,280,616		\$528,514		\$76.78	\$752,102		\$6.49	
			41%			59%			
NON SALES INCOME	\$0	40%	\$0		\$0.00	\$0		\$0.000	
REVENUE COLLECTED THROUGH RATES	\$1,280,616		\$528,514			\$752,102			
CALCULATED RATE O & M + DEBT				QUARTER	\$76.78			\$6.49	
				CURRENT RATE	\$72.37			\$6.32	
<b>RESERVES</b>									
EQUIPMENT REPLACEMENT AVERAGE ANNUAL BUDGETED AMOUNT	\$25,000	40%	\$10,000	6,883	\$1.45	\$15,000	115,823	\$0.13	
EQUIPMENT REPLACEMENT & RESERVE REQUIREMENTS	\$25,000		\$10,000		\$1.45	\$15,000		\$0.13	
CAPITAL IMPROVEMENT AVERAGE ANNUAL BUDGETED AMOUNT	\$30,000	40%	\$12,000	6,883	\$1.74	\$18,000	115,823	\$0.16	
CAPITAL + EQUIPMENT & RRI RESERVES	\$55,000		\$22,000		\$3.20	\$33,000		\$0.28	
ADOPTED BUDGET	\$1,335,616		\$550,514	6,883		\$785,102	115,823		
		40.00%	41%			59%			
REVENUE COLLECTED CALCULATED RATES	\$1,335,616		\$550,514			\$785,102			
REVENUE COLLECTED CURRENT RATES	\$1,332,197								
<b>CALCULATED RATE PER METER EQUIVALENT</b>					PER QUARTER	\$79.98	<b>RATE PER 100 CUFT</b>		\$6.78
ANNUAL METER EQUIVALENTS / REUS COUNT	6,883	CURRENT RATES			\$72.37	\$6.32			
ANTICIPATED EQUIVALENT GALLONS / UNITS	115,823	PERCENT INCREASE			10.52%	7.25%			
INVOICES PER YEAR	4	INCREASE OF			\$7.61	\$0.46			
TOTAL NUMBER OF CUSTOMERS / METERS	1,460				0	\$6.78			
ANTICIPATED UNITS INVOICED	11,582,298								
GALLONS USED	4,000								
AMOUNT OF BILL	\$283.34								
PERCENT INCREASE	8%	EVERY MILLION GALLONS GENERATES REVENUE OF							\$6,778
NOTES	PERCENT RESERVE		4.1%						



# Typical customer bill comparison

## TYPICAL BILL COMPARISON USING NEW RATES

Lake Orion Water

### CURRENT RATES

RTS \$72.37

COST PER UNIT \$6.32

### NEW / CALCULATED RATES

\$79.98

\$6.78

COST PER UNIT OF WATER **\$6.78**

QUARTERLY

METER SIZE IN INCHES	CUBIC FT USED	VOLUME CHARGE	BASE RATE CHARGE	NEW BILL	OLD BILL	CHANGE IN BILL	PERCENT INCREASE
3/4	1,500	\$101.68	\$79.98	<b>\$181.66</b>	\$167.17	\$14.49	8.7%
3/4	2,500	\$169.46	\$79.98	<b>\$249.44</b>	\$230.37	\$19.07	8.3%
3/4	3,000	\$203.35	\$79.98	<b>\$283.34</b>	\$261.97	\$21.37	8.2%
3/4	3,500	\$237.25	\$79.98	<b>\$317.23</b>	\$293.57	\$23.66	8.1%
3/4	4,000	\$271.14	\$79.98	<b>\$351.12</b>	\$325.17	\$25.95	8.0%

1	4,500	\$305.03	\$99.98	\$405.02	\$374.87	\$30.15	8.0%
1 1/2	7,000	\$474.49	\$279.92	\$754.41	\$695.68	\$58.73	8.4%
2	10,000	\$677.85	\$535.85	\$1,213.70	\$1,116.86	\$96.84	8.7%
3	15,000	\$1,016.77	\$1,199.74	\$2,216.51	\$2,033.57	\$182.94	9.0%
4	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!

NEW RATES		OLD RATES	
NEW RATES		CURRENT RATES	
METER SIZE	COST / METER	METER SIZE	COST / METER
3/4	\$79.98	3/4	\$72.37
1	\$99.98	1	\$90.47
1 1/2	\$279.92	1 1/2	\$253.28
2	\$535.85	2	\$484.86
3	\$1,199.74	3	\$1,085.57
4	\$0.00	4	\$0.00
6	\$0.00	6	\$0.00
8	\$0.00	8	\$0.00
10	\$0.00	10	\$0.00
12	\$0.00	12	\$0.00
Variable Rate - per 1000 gal.	\$6.78	Rate - per 1000 gal.	\$6.32
Gallons Included With Min. Bill	0	Gallons Included With Min. Bill	0
Size of Water Unit Sold - Gal or CUFT	100	Size of Water Unit Sold - Gal or CUFT	3

# Sewer Rates Summary

FINAL ANALYSIS RATE CALCULATION - CURRENT FISCAL YEAR	2024				RTS CHARGE			VOLUME CHARGE	
Village of Lake Orion Sanitary sewer System	ANNUAL BUDGET	PERCENT FIXED EXPENSES	ASSIGNED AS FIXED EXPENSES	ANTICIPATED ANNUAL METER EQUIVALENTS	COST PER METER EQUIVALENT	ASSIGNED AS VARIABLE EXPENSES	ANTICIPATED EQUIVALENT UNITS	\$ COST PER 100 CUBIC FEET	
OPERATING EXPENSES	\$1,063,452	40%	\$425,381	5,774	\$73.67	\$638,071	89,010	\$7.169	
PURCHASED WATER		40%	\$0	5,774	\$0.00	\$0	89,010	\$0.000	
OPERATION & MAINTENANCE EXPENSES	\$1,063,452		\$425,381		\$73.67	\$638,071		\$7.169	
<b>DEBT - PRINCIPAL &amp; INTEREST ANNUAL PAYMENTS</b>									
All Sewer Bonds 2010A, 2011, 2013A, 2014A, 2015, 2015-SAW, 2019A, 2019B, 2020A	\$86,013	100.00%	\$86,013	5,774	\$14.90	\$0	89,010	\$0.00	
<b>NEW ANTICIPATED CAPITAL LOANS</b>									
LO Pump Station, Sewer and Manhole CIP	\$60,000	100%	\$60,000	5,774	\$10.39	\$0	89,010	\$0.00	
	\$0	100%	\$0	5,774	\$0.00	\$0	89,010	\$0.00	
	\$0	100%	\$0	5,774	\$0.00	\$0	89,010	\$0.00	
	\$0	100%	\$0	5,774	\$0.00	\$0	89,010	\$0.00	
ANNUAL DEBT PAYMENTS PRINCIPAL & INTEREST	\$146,013		\$146,013		\$25.29	\$0		\$0.00	
ANNUAL O & M + DEBT	\$1,209,465		\$571,394		\$98.96	\$638,071		\$7.17	
			47%			53%			
NON SALES INCOME	\$0	40%	\$0		\$0.00	\$0		\$0.000	
REVENUE COLLECTED THROUGH RATES	\$1,209,465		\$571,394			\$638,071			
<b>CALCULATED RATE O &amp; M + DEBT</b>									
	METER EQUIVALENT		QUARTER		\$98.96			\$7.17	
<b>CURRENT RATE</b>									
					\$94.52			\$6.32	
<b>RESERVES</b>									
CAPITAL IMPROVEMENT AVERAGE ANNUAL BUDGETED AMOUNT	\$0	40%	\$0	5,774	\$0.00	\$0	89,010	\$0.00	
CAPITAL + EQUIPMENT & RRI RESERVES	\$0		\$0		\$0.00	\$0		\$0.00	
ADOPTED BUDGET	\$1,209,465		\$571,394	5,774		\$638,071	89,010		
REVENUE COLLECTED CALCULATED RATES	\$1,209,465	40.00%	\$571,394			\$638,071			
REVENUE COLLECTED CURRENT RATES	\$1,148,109								
<b>CALCULATED RATE PER METER EQUIVALENT</b>					PER QUARTER	\$98.96	RATE PER 100 CUFT	\$7.17	
ANNUAL METER EQUIVALENTS / REUS COUNT 5,774	CURRENT RATES				\$94.52	\$6.32			
ANTICIPATED EQUIVALENT GALLONS / UNITS 89,010	PERCENT INCREASE				4.70%	13.43%			
INVOICES PER YEAR 4	INCREASE OF				\$4.44	\$0.85			
TOTAL NUMBER OF CUSTOMERS / METERS 1,318	sewer usage multi commercial				\$99.04	\$7.17			
ANTICIPATED UNITS INVOICED 8,901,022									
GALLONS USED 3,000									
AMOUNT OF BILL \$314.02									
PERCENT INCREASE 11%					EVERY MILLION GALLONS GENERATES REVENUE OF				\$7,169
NOTES	PERCENT RESERVE				0.0%				

# Customer Water Bill

5/10/2024	5/10/2024 5:18	Payment Posted			0	0	\$459.70	\$0.00
		032-RSEW USE	032-RES SEW METERED	0	5/16/2024	Billing	\$120.08	
		034-RSEWRBASE	034-RSEWRBASE Rate	0	5/16/2024	Billing	\$94.59	
		051-GARBAGE	051-GARBAGE Rate	0	5/16/2024	Billing	\$51.99	
		062-WATER USE	062-WATER USE	0	5/16/2024	Billing	\$120.08	
		064-BASE WATER	064-BASE WATER Rate	0	5/16/2024	Billing	\$72.96	
4/8/2024	4/8/2024 1:34	Bill Calculated	01/01/24-03/31/24		0	0	\$459.70	\$459.70
		032-RSEW USE	032-RES SEW METERED	1,900.00	5/16/2024	Billing	\$120.08	
		034-RSEWRBASE	034-RSEWRBASE Rate	0	5/16/2024	Billing	\$94.59	
		051-GARBAGE	051-GARBAGE Rate	0	5/16/2024	Billing	\$51.99	
		062-WATER USE	062-WATER USE	1,900.00	5/16/2024	Billing	\$120.08	
		064-BASE WATER	064-BASE WATER Rate	0	5/16/2024	Billing	\$72.96	
3/28/2024	4/4/2024 7:41	Meter Read	Water		165900	1900	\$0.00	\$0.00
1/25/2024	1/25/2024 4:18	Payment Posted			0	0	\$447.06	\$0.00
		032-RSEW USE	032-RES SEW METERED	0	2/15/2024	Billing	\$113.76	
		034-RSEWRBASE	034-RSEWRBASE Rate	0	2/15/2024	Billing	\$94.59	
		051-GARBAGE	051-GARBAGE Rate	0	2/15/2024	Billing	\$51.99	
		062-WATER USE	062-WATER USE	0	2/15/2024	Billing	\$113.76	
		064-BASE WATER	064-BASE WATER Rate	0	2/15/2024	Billing	\$72.96	
1/4/2024	1/4/2024 2:40	Bill Calculated	10/01/23-12/31/23		0	0	\$447.06	\$447.06
		032-RSEW USE	032-RES SEW METERED	1,800.00	2/15/2024	Billing	\$113.76	
		034-RSEWRBASE	034-RSEWRBASE Rate	0	2/15/2024	Billing	\$94.59	
		051-GARBAGE	051-GARBAGE Rate	0	2/15/2024	Billing	\$51.99	
		062-WATER USE	062-WATER USE	1,800.00	2/15/2024	Billing	\$113.76	
		064-BASE WATER	064-BASE WATER Rate	0	2/15/2024	Billing	\$72.96	
		History Register Summary Section						
		Wednesday, June 5, 2024						