



\* Berkley \* Beverly Hills \* Bingham Farms \* Birmingham  
\* Clawson \* Huntington Woods \* Lathrup Village \* Pleasant Ridge  
\* Royal Oak \* Southfield \* Southfield Township

## AGENDA

Regular Meeting – Wednesday, August 9, 2023 – 8:30 a.m.

### Royal Oak Senior Center, 3500 Marais

1. Meeting Called to Order
2. Roll Call, Recognition of Visitors & Public Comment
3. Approval of Agenda
4. Approval of Minutes – Regular Meeting – July 12, 2023
5. Approval of Warrants – WA-856
6. **ADMINISTRATIVE REPORTS**
  - A. Summary of 2022/23 Operations
  - B. Water and Sewer Rate Survey – 2023/24
  - C. Lead and Copper Rule – System Materials Inventory and 2023 Testing
  - D. OPEB Actuarial Report
  - E. GLWA Issues
  - F. SOCWA Website Redesign
  - G. Investments – July 1, 2022 to June 30, 2023
  - H. Quarterly Legal Report

- I. Amendment to Oakland County Infrastructure Planning Grant Agreement
- J. Increase Limit on Banking Pools
- K. Michigan Municipal Employees' Retirement System – Annual Meeting
- L. General Manager Search Process

**7. ITEMS NOT ON AGENDA**

**8. MONTHLY REPORTS**

- A. Water Consumption Reports – July 2023
- B. Budget Analysis – July 2023
- C. Water Samples – July 2023
- D. Precipitation – Inches (Webster Pumping Station)

**9. Adjournment**

*Notice: The Southeastern Oakland County Water Authority will provide necessary, reasonable auxiliary aids and services, such as signers, for the hearing impaired, or audiotapes of printed materials being considered at the meeting to individuals with disabilities. All such requests must be made at least five days prior to said meeting. Individuals with disabilities requiring auxiliary aids or services should contact the Southeastern Oakland County Water Authority by writing or calling: General Manager's Office, 3910 W. Webster Road, Royal Oak, MI 48073; (248) 288-5150.*

SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY  
Regular Meeting – July 12, 2023  
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MINUTES OF THE REGULAR MEETING  
OF THE  
SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY

Wednesday, July 12, 2023 – Oak Park City Hall

The meeting was called to order at 8:41 a.m. by Mr. Jim Breuckman, Chair.

<u>Present</u>	<u>Votes</u>	<u>Municipality</u>
Neil Johnston (Alternate)	2	Beverly Hills
Kurt Jones	1	Bingham Farms
Melissa Coatta	5	Birmingham
Trever Zablocki	1	Clawson
Karen Miller	1	Lathrup Village
Jim Breuckman	1	Pleasant Ridge
Aaron Filipski	10	Royal Oak
Patrick Ryan	15	Southfield
Neil Johnston (Alternate)	<u>1</u>	Southfield Township
 TOTAL	 37	

<u>Absent</u>		
Shawn Young	2	Berkley
Rocco Fortura	1	Huntington Woods

Also Present

Jeff McKeen, General Manager  
Robert Jackovich, Operations Manager  
Robert Davis, General Counsel  
Colette Farris, Organizational Development Manager

-11410-

Motion by Mr. P. Ryan, supported by Ms. K. Miller:

That the agenda be approved as submitted.

Yeas: Johnston, Jones, Coatta, Zablocki, Miller, Breuckman, Filipski, Ryan, Johnston  
(37 votes)

Nays: None

Absent: Young, Fortura (3 votes)

**Motion Carried.**

-11411-

Motion by Mr. K. Jones, supported by Mr. A. Filipski:

That the June 14, 2023 Regular Meeting minutes be approved as submitted.

Yeas: Johnston, Jones, Coatta, Zablocki, Miller, Breuckman, Filipski, Ryan, Johnston  
(37 votes)

Nays: None

Absent: Young, Fortura (3 votes)

**Motion Carried.**

-11412-

Motion by Mr. A. Filipski, supported by Ms. J. Ecker:

That Warrant No. WA-855 in the amount of \$2,133,124.56 be approved and payments authorized.

**ROLL CALL VOTE**

Yeas: Johnston, Jones, Coatta, Zablocki, Miller, Breuckman, Filipski, Ryan, Johnston  
(37 votes)

Nays: None

Absent: Young, Fortura (3 votes)

**Motion Carried.**

-11413-

Motion by Mr. P. Ryan, supported by Mr. A. Filipski:

That the Annual Actuarial Valuation Report, covering SOCWA's participation in the Michigan Municipal Employees Retirement System (MERS) be received and filed.

Yeas: Johnston, Jones, Coatta, Zablocki, Miller, Breuckman, Filipski, Ryan, Johnston  
(37 votes)  
Nays: None  
Absent: Young, Fortura (3 votes)

**Motion Carried.**

-11414-

Motion by Mr. P. Ryan, supported by Mr. A. Filipski:

That the report on Water and Sewer Rate Survey – 2023/24 be received and filed.

Yeas: Johnston, Jones, Coatta, Zablocki, Miller, Breuckman, Filipski, Ryan, Johnston  
(37 votes)  
Nays: None  
Absent: Young, Fortura (3 votes)

**Motion Carried.**

-11415-

Motion by Mr. P. Ryan, supported by Mr. N. Johnston:

That the report on Lead and Copper Rule – System Materials Inventory and 2023 Testing be received and filed.

Yeas: Johnston, Jones, Coatta, Zablocki, Miller, Breuckman, Filipski, Ryan, Johnston  
(37 votes)  
Nays: None  
Absent: Young, Fortura (3 votes)

**Motion Carried.**

-11416-

Motion by Mr. P. Ryan, supported by Mr. K. Jones:

That the report on GLWA Issues be received and filed.

Yeas: Johnston, Jones, Coatta, Zablocki, Miller, Breuckman, Filipski, Ryan, Johnston  
(37 votes)

Nays: None

Absent: Young, Fortura (3 votes)

**Motion Carried.**

-11417-

Motion by Mr. P. Ryan, supported by Ms. K. Miller:

That the report on the 2022/23 audit be received and filed.

Yeas: Johnston, Jones, Coatta, Zablocki, Miller, Breuckman, Filipski, Ryan, Johnston  
(37 votes)

Nays: None

Absent: Young, Fortura (3 votes)

**Motion Carried.**

-11418-

Motion by Mr. P. Ryan, supported by Mr. A. Filipski:

That the meeting be adjourned.

Yeas: Johnston, Jones, Coatta, Zablocki, Miller, Breuckman, Filipski, Ryan, Johnston  
(37 votes)

Nays: None

Absent: Young, Fortura (3 votes)

**The meeting was adjourned at 9:12 a.m.**

APPROVED: \_\_\_\_\_

Chair

\_\_\_\_\_  
Secretary

SOCWA  
CHECK WARRANT  
JULY 2023

WA 856  
ACCT. 1020

CHECK #	PAYEE	AMOUNT	PURPOSE
58301	Airgas USA LLC	138.97	Supplies - Webster
58302	Davis Listman	1,425.00	Legal Services
58303	Billings Lawn Equipment	17.41	Maintenance of Property & Grounds
58304	Contractors Connection	166.45	Safety Maintenance - Webster
58305	Durst Lumber Company	33.98	Maintenance of Equipment
58306	Fire Defense Equipment Co	511.76	Maintenance of Equipment - Webster
58307	Great Lakes Water Authority	1,901,980.23	Purchase of Water
58308	McNaughton-McKay	7,067.00	Computer Software Maintenance, Maintenance of Equipment
58309	Michigan Rural Water Association	535.00	Annual Membership
58310	Southfield Muffler	2,989.31	Maintenance of Equipment - Webster
58311	Fran Tatarelli	90.00	Maintenance of Property & Grounds - Webster
58312	UWA Local 413	540.00	Union Dues
58313	Employee Optical Dental Reimbursement	1,350.00	Employee Optical Dental Reimbursement
58314	Employee Optical Dental Reimbursement	1,255.65	Employee Optical Dental Reimbursement
58315	Alerus Financial	4,980.78	Deferred Compensation
58316	Petty Cash	63.20	Reimburse Petty Cash
58317	Suburban Commercial Cleaning	500.00	Office Cleaning
58318	Employee Optical Dental Reimbursement	283.00	Employee Optical Dental Reimbursement
58319	MissionSquare	1,807.00	Deferred Compensation
58320	Eurofins Eaton Analytical LLC	1,335.00	Regulatory Testing
58321	Kim Tisler	19.00	Travel Conference
58322	Durst Lumber Company	32.05	Maintenance of Equipment - Lamb
58323	Home Depot	37.26	Maintenance of Equipment - Webster, Lamb
58324	Plante & Moran	1,056.25	PMGAP Consulting
58325	City of Southfield	5.32	Utilities
58326	Southfield Muffler	122.00	Maintenance of Equipment - Webster
58327	Paragon Laboratories	410.00	Regulatory Testing
58328	Staples	16.99	Office Supplies
58329	Corpro Companies	5,040.00	Maintenance of Tank Cathodic Protection Systems
58330	21st Century Advertising	278.21	Public Notice - Budget Hearing
58331	Airgas USA LLC	379.88	Tools - Webster
58332	Boulevard & Trumbull Towing	140.00	Maintenance of Equipment - Webster
58333	Durst Lumber Company	21.96	Maintenance



SOCWA  
CHECK WARRANT  
JULY 2023

WA 856  
ACCT. 1020

CHECK #	PAYEE	AMOUNT	PURPOSE
58334	Employee Optical Dental Reimbursement	84.78	Employee Optical Dental Reimbursement
58335	Greeley and Hansen	4,876.07	Consulting
58336	Employee Optical Dental Reimbursement	174.00	Employee Optical Dental Reimbursement
58337	Employee Optical Dental Reimbursement	408.00	Employee Optical Dental Reimbursement
58338	McNaughton-McKay	128.59	Maintenance - Webster
58339	Home Depot	789.14	Maintenance
58340	Alerus Financial	5,268.68	Deferred Compensation, HCSP, Defined Contribution
58341	Paragon Laboratories	3,348.00	Regulatory Testing
58342	Green Meadows Lawnscape, Inc	740.00	Maintenance of Property and Grounds- Oliver, Samoset
58343	MissionSquare	1,816.99	Deferred Compensation
58344	CCP Industries	361.30	Supplies - Webster
58345	Dixon Engineering Inc	9,000.00	Maintenance - Webster Tank Inspections
58346	Harbor Freight Tools	129.97	Tools - Webster
58347	Infoview Systems Inc.	2,575.00	IT Consulting
58348	RKA Petroleum	2,943.23	Fuel - Webster
58349	Satterlund Supply Company	117.36	Maintenance of Equipment
58350	Kennedy Industries Inc	22,540.00	2 Pressure Reducing Valves
58351	Paragon Laboratories Inc	310.00	Regulatory Testing
58352	The Oakland Press	602.00	Subscription Renewal
58353	IMEG	620.00	Computer Hardware Maintenance - Webster
58354	Progressive Plumbing Supply	179.95	Maintenance of Equipment
58355	Durst Lumber Company	9.98	Supplies, Tools - Webster
58356	Home Depot Credit Services	120.53	Maintenance of Equipment
58357	McNaughton-McKay	372.50	Maintenance of Equipment
58358	O'Reilly Auto Parts	119.83	Maintenance of Equipment
58359	Blue Cross Blue Shield of Michigan	24,062.93	Health Insurance
58360	United States Treasury	48.00	2022 Q2 PCORI Fees
58361	Standard Insurance Company	449.73	Life Insurance
ACH	The TM Group	2,887.50	Annual Subscription
ACH	Telnet Worldwide	215.39	Telephone
EPAY	AFLAC	255.26	Supplemental Insurance
EPAY	Alerus Financial	10,819.53	Deferred Compensation
EPAY	Applied Imaging	88.00	Copier & Printer Maintenance
EPAY	Ascentis	871.70	Monthly Time Clock Charges & Annual Hardware Agreement

WA 856  
ACCT. 1020

SOCWA  
CHECK WARRANT  
JULY 2023

CHECK #	PAYEE	AMOUNT	PURPOSE
EPAY	AT&T	534.90	Cell Phones/Internet/Website
EPAY	BASIC	202.00	Quarterly Fees
EPAY	Comcast	86.90	Internet/Website
EPAY	Consumers Energy	247.11	Natural Gas Service
EPAY	DTE	11,486.74	Electric Service
EPAY	Flagstar	1,195.77	Credit Card, Details on Page 4
EPAY	Guardian Alarm	108.03	Maintenance of Property & Grounds - Webster
EPAY	Verizon	395.18	Internet/Website/SCADA
EPAY	WOW! Business	770.92	Internet/Website

**2,046,990.15**

1020 OPERATION & MAINTENANCE FUND

**2,046,990.15**

I HEREBY CERTIFY THAT I HAVE EXAMINED THE INVOICES COVERED BY THE ABOVE VOUCHERS FOR RECEIPT OF MATERIALS OR SERVICES RENDERED AND THAT THE PRICES AND COMPUTATIONS ARE CORRECT.

\_\_\_\_\_  
Treasurer

\_\_\_\_\_  
General Manager

\_\_\_\_\_  
Secretary

The payments listed above were presented to the Board of Trustees and were reviewed with no objection on August 9, 2023.

WA 856  
ACCT. 1020

SOCWA  
CHECK WARRANT  
JULY 2023

PAYEE		AMOUNT	PURPOSE
EPAY	Flagstar Credit Card - Detail	7.39	Administrative Office Expense
		181.10	Maintenance of Property & Grounds
		46.60	Maintenance of Property & Grounds
		78.27	Maintenance
		10.84	Administrative Office Expense
		83.00	Maintenance of Equipment
		29.87	Administrative Office Expense
		9.00	Maintenance
		4.49	Supplies
		745.21	Administrative Office Expense

**1,195.77**

July 27, 2023

Board of Trustees  
Southeastern Oakland County Water Authority

Subject: Summary of 2022/23 Operations

Board Members:

This report summarizes the operations for the 2022/23 fiscal year. The financial information included in this report is preliminary, with a few additional cost items still not received and a few accounting adjustments to be made. The financial information also remains subject to our annual audit.

**WATER SALES**

Water sales were 5.1% greater than budget. Actual water sales were 1,330,951 thousand cubic feet compared to budgeted water sales of 1,266,700 thousand cubic feet. Water sales were 96,135 thousand cubic feet (7.8%) higher than the sales for 2021/22. The increase in water sales was due to a return to more normal summer and fall weather in 2022 compared with the months of very heavy rainfall from July through October of 2021. The table below shows our monthly water sales for the last five fiscal years. Water sales for 2022/23 were the highest for this five year period.

<b>WATER CONSUMPTION – DAILY AVERAGE (MGD)</b>						
Month	18/19	19/20	20/21	21/22	22/23	Over or Under 21/22
July	43.59	36.06	44.53	30.79	39.81	+ 9.02
August	38.31	38.35	39.57	33.02	37.13	+ 4.11
September	31.95	30.00	31.16	29.77	34.10	+ 4.40
October	22.80	22.48	22.85	22.51	24.52	+ 2.01
November	20.54	20.21	19.78	20.68	21.00	+ 0.32
December	20.30	20.12	19.73	20.74	21.02	+ 0.28
January	21.31	20.23	19.83	22.36	20.76	- 1.60
February	22.39	20.31	20.84	22.24	20.78	- 1.46
March	21.45	19.83	20.16	20.63	20.37	- 0.26
April	21.33	18.92	20.75	20.68	20.76	+ 0.13
May	23.06	22.38	26.76	25.14	27.62	+ 2.48
June	27.17	38.24	33.25	34.98	39.01	+ 4.03
Million Gals./Day	26.23	25.61	26.65	25.31	27.28	+ 1.97
Variance	-4.0%	-2.4%	+4.1%	-5.0%	+7.8%	

## **FINANCIAL STATEMENT**

The total net operating income before depreciation for the 2022/23 fiscal year was \$1,689,827. This was substantially higher than the budget of \$463,423 and substantially higher than last year's actual of \$211,236. The level of net income is primarily attributable to water sales being significantly higher than budgeted while operating expenses were only slightly greater than budget. This resulted in our working capital as of June 30, 2023 being about 20.0% of our annual expenses. This was significantly higher than the 8.3% goal established by the Board and was a significant increase from the 17.0% as of June 30, 2022. The increase in working capital was due to the net income from 2022/23 operations.

	Actual	Compared to Budget
Revenue	\$29,225,247	+ \$1,412,448
Expenses	<u>\$27,535,420</u>	<u>+ \$186,043</u>
Net Income (before depreciation)	+ \$ 1,689,827	+ \$ 1,226,405

	Actual 2022/23	Budget 2022/23	Actual 2021/22
<b>REVENUE</b>			
Sale of Water Members	\$18,513,041	\$17,586,000	\$17,279,546
Sale of Water Non-members	10,295,474	10,056,200	8,607,312
Rentals	139,881	130,600	129,213
Water Analysis & Misc.	138,539	10,000	20,884
Interest	<u>138,312</u>	<u>30,000</u>	<u>31,666</u>
<b>TOTAL</b>	\$29,225,247	\$27,812,800	\$26,068,621

Actual revenue was \$1,412,448 (5.1%) higher than the budgeted revenue. This was primarily due to higher than planned water sales (+\$1,166,000), miscellaneous revenue (+\$129,000), interest (+\$108,000) and rentals (+\$9,000).

Revenue was 12.1% higher than 2021/22 due to the 7.8% increase in water sales volumes, the 2.7% rate increase that was effective on July 1, 2022 and substantially higher non-sales revenue.

<b>EXPENSES</b>	Actual 2022/23	Budget 2022/23	Actual 2021/22
Water Purchases	25,490,822	\$25,154,337	24,035,292
Operating Expenses	1,279,150	1,367,040	1,294,529
Administrative and General	<u>765,448</u>	<u>828,000</u>	<u>527,564</u>
<b>TOTAL</b>	\$27,535,420	\$27,349,377	25,857,385

Expenses for 2022/23 were \$186,043 higher than budget, primarily due to higher than planned water purchases (+\$336,000) which were partially offset by lower operating expenses (-\$88,000) and lower administrative and general expenses (-\$63,000).

Expenses for 2022/23 were \$1,678,000 higher than for 2021/22. This increase was due to higher water purchases (+\$1,456,000) and Administrative and General expenses (+\$238,000), which were partially offset by lower Operating Expenses (-\$15,000).

### **CAPITAL EXPENSES**

The estimated capital expenses for 2022/23 totaled \$408,526 and were for the initial expenses for a multi-year project that will separate the two water storage tanks at Webster Station (\$263,000), the purchase of two trucks (\$56,000), the initial expenses for the replacement of three PRVs (\$67,000), the initial expenses for the replacement of water meters (\$8,000), the purchase of a new computer server (\$8,000) and the final expenses for the replacement of the 16" water main in 14 Mile Road (\$7,000).

Respectfully Submitted,

Jeffrey A. McKeen, P.E.  
General Manager

Suggested Resolution: "That the report on 2022/23 operations be received and filed."

August 2, 2023

Board of Trustees  
Southeastern Oakland County Water Authority

Subject: Water Rate Survey – 2023/24

Board Members:

We have completed the 2023/24 water rate survey and the final version is posted on the SOCWA website. Please let us know if you find any other errors in our rate calculations.

Respectfully submitted,

Jeffrey A. McKeen, P.E.  
General Manager

Suggested Resolution: “That the report on Water and Sewer Rate Survey be received and filed.”

August 3, 2023

Board of Trustees  
Southeastern Oakland County Water Authority

Subject: Lead and Copper Rule – System Materials Inventory and 2023 Testing

Board Members:

About half of the EGLE required lead and copper samples have been completed for the 2023 testing period. We encourage each community to complete the collection of the samples by August 31, 2023. If your community has any lead and copper testing issues, please contact Bob Jackovich.

Eastpointe and Wayne, both of which are GLWA customers, recently reported lead results over EGLE’s action level of 15 ppb. Both communities were required to do twice yearly testing due to previous lead testing results that exceeded the action level.

HRC is working with Berkley, Bingham Farms, Birmingham, Beverly Hills, and Southfield with the preparation of their CDSMI. If other communities are interested in using the services of HRC, please work directly with Brad Shepler to set up an agreement between HRC and your community for the appropriate level of service required.

Respectfully submitted,

Jeffrey A. McKeen, P.E.  
General Manager

Suggested Resolution: “That the report on Lead and Copper Rule – System Materials Inventory and 2023 Testing be received and filed.”



July 28, 2023

Board of Trustees  
Southeastern Oakland County Water Authority

Subject: OPEB Actuarial Valuation Report

Board Members:

The June 30, 2023 actuarial valuation reports for our OPEB plans are attached. The actuarial reports were completed using the Milliman tool. Milliman concluded that as of June 30, 2023, SOCWA's OPEB plans are 152.3% funded with the salaried plan being 186.0% funded and the union plan being 137.0% funded.

The details of the analyses are as follows:

	Actuarial Liability	Actuarial Assets	Unfunded Liability	% Funded
Salaried Plan	\$ 358,019	\$ 665,858	\$ - 307,839	186.0%
Union Plan	\$ 792,039	\$1,085,125	\$ - 293,086	137.0%
TOTAL	\$1,150,058	\$1,750,983	\$ - 600,925	152.3%

The recent history of our OPEB liabilities is contained in the tables below:

**OPEB RESULTS-SALARIED PLAN**

Valuation Date	Liability	Assets	Unfunded Liability	% Funded
6/30/2023	\$358,019	\$665,858	\$-307,839	186.0%
6/30/2022	\$371,535	\$650,290	\$-278,755	175.8%
6/30/2021	\$490,125	\$767,015	\$-276,890	156.5%
6/30/2020	\$443,172	\$636,441	\$-192,269	143.6%
6/30/2019 Milliman	\$483,987	\$650,308	\$-166,321	134.4%
6/30/2019 GRS	\$645,675	\$654,732	\$ -9,057	101.4%
6/30/2018	\$652,446	\$636,172	\$ 16,274	97.5%
6/30/2017	\$659,598	\$597,868	\$ 61,730	90.6%
6/30/2016	\$779,269	\$545,647	\$ 233,622	70.0%
6/30/2015	\$826,980	\$483,509	\$ 343,471	58.5%
6/30/2014	\$797,924	\$422,036	\$ 375,888	52.9%

SOCRRA shares in the liability for the SOCWA salaried plan. As of June 30, 2023 SOCRRA's share of this liability was estimated at 49%.

**OPEB RESULTS-UNION PLAN**

Valuation Date	Liability	Assets	Unfunded Liability	% Funded
6/30/2023	\$792,039	\$1,085,125	\$-293,086	137.0%
6/30/2022	\$820,123	\$1,063,874	\$-243,751	129.7%
6/30/2021	\$887,035	\$1,198,001	\$-310,966	135.1%
6/30/2020	\$784,691	\$ 946,973	\$-162,283	120.7%
6/30/2019 Milliman	\$720,969	\$ 898,007	\$-177,038	124.6%
6/30/2019 GRS	\$974,549	\$ 898,732	\$ 76,542	92.2%
6/30/2018	\$919,363	\$ 842,354	\$ 77,009	91.6%
6/30/2017	\$862,410	\$ 765,126	\$ 97,284	88.7%
6/30/2016	\$770,568	\$ 677,169	\$ 93,399	87.9%
6/30/2015	\$858,555	\$ 609,406	\$ 249,149	71.0%
6/30/2014	\$940,758	\$ 501,898	\$ 438,860	53.4%

Since both plans continue to be overfunded, our budget for 2023/24 was prepared using the following assumptions:

1. 100% of the health insurance costs for all retirees will be paid from the OPEB trusts.
2. No additional contributions to the OPEB trusts.

These assumptions will allow us to continue to use the trust funds but should not significantly reduce the funding level of the plans.

Respectfully submitted,

Jeffrey A. McKeen, P.E.  
General Manager

Suggested Resolution: "That the OPEB Actuarial Report be received and filed."



Attn: GASBhelp.com  
200 Great Pond Drive  
Suite 100  
Windsor, CT 06095  
Tel +1 860 687 0148  
milliman.com



July 31, 2023

Jeff McKeen  
General Manager  
SOCWA - MI  
3910 W. Webster  
Royal Oak, MI 48073

## GASBhelp Valuation Report

Thank you for using GASBhelp. This report contains the results of the Valuation Report using the Alternative Measurement Method in accordance with GASB 74/75. It also contains a detailed explanation of the methodology and results. All inputs and assumptions that impact the results are contained herein.

The exhibit below provides the key results from the GASB 74/75 OPEB valuation, which may be used in preparation of financial statements. A description of these results and how they were derived are detailed later in this report.

### Key Results

Measurement Date: 6/30/2023

Actuarially Determined Contribution (ADC)	Service Cost (SC)	Amortization Payment	Fiduciary Net Position	Total OPEB Liability	Net OPEB Liability (NOL)
<b>(\$22,048)</b>	<b>\$2,023</b>	<b>(\$24,071)</b>	<b>\$665,858</b>	<b>\$358,019</b>	<b>(\$307,839)</b>

Please note that the Key Results in the table above were calculated using the Entry Age Normal Actuarial Cost Method as required by GASB 75. Also, note that for unfunded plans (plans without assets), the Actuarially Determined Contribution and the Amortization Payment are set to N/A.

*This report was prepared solely to provide assistance to (the) SOCWA - MI in Royal Oak, MI in determining values to be reported under GASB 75 and GASB 74. It may not be appropriate to use for other purposes. Milliman does not intend to benefit and assumes no duty or liability to other parties who receive this report. Copyright © 2023 Milliman, Inc.*

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## **SECTION 1** **OVERVIEW OF GASB 74 AND GASB 75**

The Government Accounting Standards Board (GASB) Statements 74 and 75 require government employers to perform periodic valuations to determine annual accounting costs related to Other (than pension) Post-Employment Benefits (OPEB). Government employers must also disclose information in their financial statements about asset and liability levels as well as historical contributions toward OPEB funding. Statement 75 focuses on the requirements for the actuarial valuation and reporting of OPEB liabilities. Statement 74 contains similar information but is only applicable for plans funding their OPEB liability. GASB 75 replaces GASB 45, which set initial standards for OPEB valuations several years ago; similarly, GASB 74 replaces GASB 43.

GASB 75 is effective for fiscal years beginning after June 15, 2017 for all entities. GASB 74 is effective one year earlier than that date.

GASB 75 applies to most benefits that are provided after retirement other than pension benefits: medical insurance, dental, vision, and hearing benefits plus life insurance and other non-pension post-employment benefits. The philosophy driving the accounting standard is that these post-employment benefits are part of the compensation that is paid to employees in return for their services, and the cost of these benefits should be recognized while the employees are providing those services, rather than after they have retired.

**GASBhelp is fully compliant with GASB 75.** The GASB 75 Alternative Measurement Method, while intended to simplify the valuation process for small employers, is still best performed by an expert or by using validated tools like GASBhelp in order to avoid errors. GASBhelp was created and rigorously checked by Milliman actuaries who have pension and health expertise, so auditors can recognize that the calculations performed by GASBhelp are fully compliant with GASB 75 and the Alternative Measurement Method. This report contains all auditor-required elements, including the information necessary to understand the inputs, assumptions, valuation methodology, and valuation results. Milliman customer service representatives are also available to answer questions that auditors or those who read this report may have.

## SECTION 2 THE LIABILITY DETERMINATION PROCESS

The process of determining the liability for retiree OPEB benefits is based on many assumptions about future events.

The key assumptions are:

- **Turnover and retirement rates:** How likely is it that an employee will remain employed by the same employer and qualify for post-employment benefits, and when will those benefits start?
- **Healthcare trend and claims costs assumptions:** When a retiree starts receiving post-employment benefits, possibly many years from now, how much will those benefits cost each year and how rapidly will the costs grow?
- **Mortality assumption:** How long is a retiree likely to receive the benefits?
- **Discount rate assumption:** What is the present value of those future benefit payments in terms of today's dollars?

According to GASB 75, "A liability should be recognized for the Net OPEB Liability. The Net OPEB Liability should be measured as the portion of the actuarial present value of projected benefit payments that is attributed to past periods of employee service, net of the OPEB plan's Fiduciary Net Position."

Therefore, the Net OPEB Liability is calculated as the Total OPEB Liability less the plan's Fiduciary Net Position. The Fiduciary Net Position is equal to the total assets set aside for funding. **If the OPEB plan is prefunded, the valuation will also need to determine an Actuarially Determined Contribution (ADC). If the plan is not prefunded, we set the ADC to N/A throughout this report.**

The ADC consists of two pieces:

- **Service Cost:** cost for OPEB benefits attributable to the current year of service.
- **Amortization Payment:** a catch-up payment for past normal costs to amortize the Net OPEB Liability. GASBhelp assumes a rolling 20-year amortization period.

**Note:** The ADC does not have to be paid each year, nor does it need to be calculated. However, if it is calculated, then it must be disclosed in financial statements annually for prefunded plans.

In addition, the discount rate used to calculate the liabilities must reflect the expected investment income of whatever funds are set aside to prefund the benefits; if there is no prefunding then the discount rate will be much lower and the liabilities significantly higher than if the benefits are prefunded. GASB 74 and 75 generally require that a blended discount rate be used to measure the Total OPEB Liability. The long-term expected rate of return on plan assets may be used to the extent that the plan's Fiduciary Net Position is projected to cover benefit payments and administrative expenses. A 20-year tax-exempt municipal bond yield must be used for periods where the Fiduciary Net Position is not projected to cover benefit payments and administrative expenses. Determining the discount rate under GASB 74 and 75 will often require that the actuary perform complex "depletion date" projections of future benefit payments and asset values; however, Paragraph 29 allows for alternative evaluations if such evaluation may be reliably made. The method for alternative evaluations is not specified but rather left to professional judgment.

Based on this requirement, if your plan is unfunded (i.e., you are paying for OPEB on a pay-as-you-go basis) or fully-funded (i.e., you expect that your plan assets will be sufficient over the projection period to offset OPEB liability), GASBhelp's online tool may be used in its entirety. For plans that are not prefunded, the discount rate will be based on the 20-year tax exempt municipal bond yield. For fully-funded plans, the discount rate will be based on your long-term expected rate of return on plan assets.

**If your plan is partially prefunded, meaning that the assets being set aside are expected to partially but not fully offset the liability over time, then you will use GASBhelp for all inputs and then Milliman will calculate the appropriate discount rate to use and provide you with a customized report. GASBhelp's online tool does not allow for discount rate calculations using the depletion date methodology so we will calculate the discount rate for you outside the web-based platform and deliver you a custom report.**

As an entity that qualifies to use the Alternative Measurement Method (AMM), the calculation of your Total OPEB Liability and ADC may be completed without a full actuarial valuation. The AMM calculation process is similar to an actuarial valuation, but with simplifications of several assumptions permitted per GASB guidelines. The GASBhelp tools' calculation process is built in accordance with the Alternative Measurement Method.

**SECTION 3**  
**KEY RESULTS, SENSITIVITY ANALYSIS, AND REPORTING ELEMENTS**

This exhibit provides the key results from the GASB 74 and GASB 75 OPEB valuation, which may be used in preparation of financial statements.

**Key Results**

**Measurement Date: 6/30/2023**

Actuarially Determined Contribution (ADC)	Service Cost (SC)	Amortization Payment	Fiduciary Net Position	Total OPEB Liability	Net OPEB Liability (NOL)
<b>(\$22,048)</b>	<b>\$2,023</b>	<b>(\$24,071)</b>	<b>\$665,858</b>	<b>\$358,019</b>	<b>(\$307,839)</b>

Two sensitivity analyses are then required by GASB 75 and/or GASB 74.

The first sensitivity analysis is required to show how your liability will change based on your assumed discount rate. As more assets are set aside to fund OPEB liabilities, your expected investment return may increase, offsetting more of your liability cost. A second sensitivity analysis is required to show how your liability will change based on a change in the healthcare trend rates used in the valuation.

**Sensitivity 1: Change in Discount Rate Assumption**

<b>Your discount rate baseline is:</b>	<b>6.850%</b>
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The OPEB liability calculated using a discount rate 1% greater than and 1% less than the baseline discount rate are shown in the table below.

	Discount Rate - 1%	Baseline	Discount Rate + 1%
<b>Discount Rate</b>	<b>5.850%</b>	<b>6.850%</b>	<b>7.850%</b>
<b>Net OPEB Liability</b>	<b>(\$277,764)</b>	<b>(\$307,839)</b>	<b>(\$334,164)</b>
<b>Change from Baseline</b>	<b>\$30,075</b>	<b>\$0</b>	<b>(\$26,326)</b>



## Sensitivity 2: Change in Healthcare Trend Rate

Your healthcare trend rate baseline is:

	Medical	Pharmacy	Dental	Vision
Year 1	5.500%	5.200%	3.500%	3.000%
Year 2	5.300%	4.800%	3.500%	3.000%
Year 3	5.000%	4.700%	3.000%	3.000%
Year 4	4.800%	4.600%	3.000%	3.000%
Year 5	4.500%	4.500%	3.000%	3.000%
Year 6	4.500%	4.400%	3.000%	3.000%
Year 7	4.500%	4.300%	3.000%	3.000%
Year 8	4.500%	4.200%	3.000%	3.000%
Year 9	4.500%	4.200%	3.000%	3.000%
Year 10 +	4.500%	4.200%	3.000%	3.000%

The OPEB liability calculated using healthcare trend rates 1% greater than and 1% less than the baseline trends are shown in the table below. The ACA excise tax will ultimately affect all plans. Due to the variability of the ACA excise tax by plan, the user needs to estimate the impact and the trend. The excise tax could raise the average annual trend rate by 0.5% or more in each year.

	Baseline Trend - 1%	Baseline Trend	Baseline Trend + 1%
<b>Net OPEB Liability</b>	<b>(\$333,383)</b>	<b>(\$307,839)</b>	<b>(\$279,188)</b>
<b>Change from Baseline</b>	<b>(\$25,544)</b>	<b>\$0</b>	<b>\$28,651</b>

### Calculation of Changes in Net OPEB Liability

You are required to demonstrate the change in your Net OPEB Liability from the last reporting period to the current period. The Changes in Net OPEB Liability exhibit, populated based on user inputs and on GASBhelp valuation results, is shown below.

#### Changes in Net OPEB Liability Exhibit

Line #		Total OPEB Liability (a)	Change in Fiduciary Net Position (b)	Net OPEB Liability (a)-(b)
1	Balance as of Prior Measurement Date	\$371,535	\$650,290	(\$278,755)
2	Service Cost	\$2,249	N/A	\$2,249
3	Interest on Total OPEB Liability	\$25,127	N/A	\$25,127
4	Effect of Plan Changes*	\$0	N/A	\$0
5	Effect of Economic/Demographic Gains or Losses	(\$14,893)	N/A	(\$14,893)
6	Effect of Assumptions Changes or Inputs	\$4,173	N/A	\$4,173
7	Benefit Payments	(\$30,171)	(\$30,171)	\$0
8a	Employer Contributions	N/A	(\$12,180)	\$12,180
8b	Employee Contributions	N/A	\$12,798	(\$12,798)
9	Net Investment Income	N/A	\$45,650	(\$45,650)
10	Administrative Expenses	N/A	(\$528)	\$528
11	Balance as of Current Measurement Date	\$358,019	\$665,858	(\$307,839)

\*GASBhelp is able to generate the combined impact of Line 4 (Effect of Plan Changes) and Line 5 (Effect of Economic/Demographic Gains or Losses). For purposes of populating this exhibit we have put the entire value in Line 5. If you have not had any plan changes (e.g. changes in OPEB benefits, changes in eligibility requirements) since your last valuation, Line 4 may remain at \$0. If you have had OPEB plan changes you will need to estimate the portion of the displayed Line 5 adjustment due to plan changes and allocate it to Line 4 instead.

**GASBhelp Outputs to Aid You In Developing Exhibit**

Key	Date and Discount Rate Scenario	Measurement Date	Discount Rate	Total OPEB Liability (TOL)	Service Cost (SC)
<b>(i)</b>	Last Measurement Date, Last Year's Assumptions	6/30/2022	7.000%	\$349,221	\$2,101
<b>(ii)</b>	Current Measurement Date, Last Year's Assumptions	6/30/2023	7.000%	\$353,846	\$1,962
<b>(iii)</b>	Current Measurement Date, Current Assumptions	6/30/2023	6.850%	\$358,019	\$2,023
<b>(iv)</b>	Next Measurement Date, Current Assumptions	6/30/2024	6.850%	\$323,843	\$1,136

**Calculation of OPEB Expense:**

OPEB Expense must be demonstrated via the following calculation.

	<u>Item</u> <u>Value</u>
	Service Cost \$2,249
	+ Interest on Total OPEB Liability \$25,127
	+ Effect of Plan Changes^ \$0
	+ Administrative Expenses \$528
	- Employee Contributions (\$12,798)
	- Expected Investment Return Net of Investment Expenses (\$45,650)
	+ Recognition of Effect of Economic/Demographic Gains or Losses* (\$14,893)
	+ Recognition of Effect of Assumptions Changes or Inputs* \$4,173
	<b>OPEB Expense (\$41,264)</b>

\*Per GASB 75 Paragraph 43(a), deferred inflows/outflows of resources related to differences between actual and expected experience with regard to economic or demographic factors or changes in assumptions and other inputs should not be used under the Alternative Measurement Method. These items should be recognized in OPEB expense immediately. Per Paragraph 43(b), the difference between projected and actual earnings on OPEB plan investments should be recognized in OPEB expense over a closed 5 year period; the amount not immediately recognized should be reported as deferred inflows/outflows. **As such, if your plan does not have OPEB assets in a trust, deferred inflows/outflows are \$0. If you do invest assets in a trust backing the OPEB liability, then you must assess and track the deferred inflows/outflows related to actual versus expected investment earnings. This investment performance detail is not captured in GASBhelp and must be maintained by the auditor or accountant.**

^In this exhibit we have set the Effect of Plan Changes to 0. Per the note following the Changes in Net OPEB Liability Exhibit, our calculations cannot distinguish between Effect of Plan Changes and Effect of Economics/Demographic Gains or Losses. If you have not had any plan changes (e.g. changes in OPEB benefits, changes in eligibility requirements) since the last valuation, the Effect of Plan Changes may remain at 0. If you have had plan changes you will need to estimate those and adjust this exhibit to reflect them.

**SECTION 4**  
**SUMMARY OF CENSUS DATA**

Here is a summary of the number of employees covered by the benefit terms as required by GASB 75. This exhibit also serves as documentation of the census data you input, on which the valuation was calculated.

**Census Summary**

	Younger than 65 Years	65 Years or Older	Total
<b>Subscribers</b>	<b>1</b>	<b>7</b>	<b>8</b>
<b>Spouses</b>	<b>4</b>	<b>3</b>	<b>7</b>
<b>Total</b>	<b>5</b>	<b>10</b>	<b>15</b>
<b>Average Ages</b>	<b>63</b>	<b>74</b>	<b>71</b>

**Subscribers by Status**

	# Subscribers
<b>Active</b>	<b>2</b>
<b>Retired</b>	<b>6</b>
<b>Terminated</b>	<b>0</b>
<b>Deceased*</b>	<b>2</b>
<b>Total</b>	<b>10</b>

\*Deceased subscribers are only included when a surviving beneficiary is currently receiving benefits. The total number of subscribers by status may differ from the number of subscribers in the census summary, because the summary only includes living plan members.

**SECTION 5**  
**CURRENT PREMIUMS**

This exhibit serves as documentation of the premium and employer contribution information you input, on which the valuation was calculated.

**Total Monthly Premiums Paid to the Insurer**

Retiree Health		
Medical, Pharmacy Coverage	Single Premium	Family Premium
Subscriber Under 65	\$852.00	\$1,704.00
Subscriber Over 65	\$159.76	\$319.53

- \* Premium Effective Date: **7/1/2023**.
- \* Number of Premium Payments per Year: **12**.
- \* May be Covered: **The Subscriber and Spouse**. Not Children.
- \* This benefit pays: **Secondary to Medicare**.
- \* Benefit for: **Both early retirees (pre-65) and regular retirees (65-and-over)**
- \* Total tiered premiums due to the insurer exist for each segment: actives, pre-Medicare-eligible retirees, and Medicare-eligible retirees.

**Employer Contributions toward the Monthly Premiums**

SOCWA Salaried - Retiree Health		
Medical, Pharmacy Coverage	Single Contribution	Family Contribution
Subscriber Under 65	\$852.00	\$1,704.00
Subscriber Over 65	\$127.81	\$255.62

- \* Contribution Type: **Fixed Percent**
- \* Eligibility requirements for this benefit:
  - Minimum age before retirement (termination): **60**
  - Minimum required years of service: **10**

**SECTION 6**  
**SUMMARY OF KEY ASSUMPTIONS AND METHODS**

The exhibit below provides key assumptions and methods used in the valuation as well as user inputs.

**Key Assumptions and Methods Used in the Valuation**

Assumptions	User Defined Values are in Bold
<b>Age Adjustment Factor:</b>	1
<b>Average Retirement Age:</b>	<b>62</b>
<b>Employer Future Premium Contribution:</b>	<b>Remain a level % of the total cost over time</b>
<b>Actuarial Cost Method:</b>	Entry Age Normal
<b>Amortization Method:</b>	Level Percentage of Payroll
<b>Assets Backing OPEB Liability:</b>	<b>\$665,858</b>
<b>Plan Asset Return:</b>	<b>6.850%</b>
<b>Bond Yield:</b>	<b>4.170%</b>
<b>Discount Rate:</b>	6.850%
<b>Measurement Date:</b>	6/30/2023
<b>Prior Measurement Date:</b>	6/30/2022
<b>Prior Year Discount Rate:</b>	7.000%
<b>Projected Salary Increases:</b>	<b>3.25%</b>
<b>Amortization Period:</b>	20
<b>Percentage Participation:</b>	100.00%
<b>NOL and ADC:</b>	Calculated using the Alternative Measurement Method in accordance with GASB methodology.
<b>Mortality Table:</b>	Pub-2010 Public Retirement Plans Mortality Tables, with mortality improvement projected for 10 years.
<b>Turnover Assumption:</b>	Derived from data maintained by the U.S. Office of Personnel Management regarding the most recent experience of the employee group covered by the Federal Employees Retirement System

Payroll Growth Assumption Source: Michigan Uniform Assumptions

The exhibit below provides user inputs used in the financial reporting section.

### Key Inputs Used in the Financial Reporting Section

User Inputs	Values
Total OPEB Liability Prior Balance:	\$371,535
Prior Fiduciary Net Position:	\$650,290
Prior Service Cost:	\$2,249
OPEB Benefit Payments:	\$30,171
Employer Contributions to OPEB Trust:	\$0
Employee Contributions to OPEB Trust:	\$12,798
Net Investment Income from OPEB Trust:	\$45,650
Administrative Expenses from OPEB Trust:	\$528



**Healthcare Cost Trend Rates**

	Medical	Pharmacy	Dental	Vision
Year 1	5.500%	5.200%	3.500%	3.000%
Year 2	5.300%	4.800%	3.500%	3.000%
Year 3	5.000%	4.700%	3.000%	3.000%
Year 4	4.800%	4.600%	3.000%	3.000%
Year 5	4.500%	4.500%	3.000%	3.000%
Year 6	4.500%	4.400%	3.000%	3.000%
Year 7	4.500%	4.300%	3.000%	3.000%
Year 8	4.500%	4.200%	3.000%	3.000%
Year 9	4.500%	4.200%	3.000%	3.000%
Year 10 +	4.500%	4.200%	3.000%	3.000%

Healthcare Cost Trend Source: Michigan Uniform Assumptions- Medicare The ACA excise tax will ultimately affect all plans. Due to the variability of the ACA excise tax by plan, the user needs to estimate the impact and adjust the trend. The excise tax could raise the average annual trend rate by 0.5% or more in each year.

## **SECTION 7** **REQUIRED SUPPLEMENTAL INFORMATION**

GASB 75 requires the following supplementary information to be reported separately for each plan through which OPEB is provided. Your auditor should work with you to compile this supplementary information. The information requiring disclosure can be found in paragraphs 55 through 57 in the GASB 75 text. In this section we provide guidance on this reporting and data elements from the valuation that must be used in the reporting.

1. A 10-year schedule of the changes in the Net OPEB Liability that separately presents the sources of change in the Net OPEB Liability.

For this schedule, you can use the results shown in the Calculation of Changes in Net OPEB Liability exhibit detailed in Section 3 of this report as well as historical information. The schedule should include the Total OPEB Liability, the OPEB plan's Fiduciary Net Position, the Net OPEB Liability, the OPEB plan's Fiduciary Net Position as a percentage of the progression over time of Total OPEB Liability, the covered employee payroll, and the Net OPEB Liability as a percentage of covered employee payroll.

2. A 10-year schedule of actuarially determined contributions if applicable. Include the amount of contributions recognized by the OPEB plan in relation to the ADC and the difference between the ADC and the contributions. Also include the covered employee payroll and the contributions recognized as a percentage of covered employee payroll. Covered payroll is not an output of GASBhelp.
3. For prefunded plans, the money-weighted rate of return must be calculated and disclosed. GASBhelp does not provide this calculation as it is based on the timing and nature of each entity's investments and cashflows. We recommend working with an accountant or auditor on these supplemental exhibits. They are not provided by GASBhelp.

## SECTION 8 INDIVIDUAL SUBSCRIBER DATA

This exhibit contains the data provided for each of the subscribers that the user keyed in to the system.

Subscriber ID: <b>BJ</b> Gender: <b>M</b>								
Status	Birth Yr	Hire Yr	Service Credits	Retirement Yr	Medicare Opt Out	Spouse Birth Yr	Child Birth Yr	Group
Active	1959	1979	N/A	N/A	Medicare Eligible	1959	N/A	SOCWA Salaried
Pre 65 Medical Plan	Pre 65 Medical Tier	Pre 65 Pharmacy Plan	Pre 65 Pharmacy Tier	Pre 65 Dental Plan	Pre 65 Dental Tier	Pre 65 Vision Plan	Pre 65 Vision Tier	Pre 65 Life Plan
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Post 65 Medical Plan	Post 65 Medical Tier	Post 65 Pharmacy Plan	Post 65 Pharmacy Tier	Post 65 Dental Plan	Post 65 Dental Tier	Post 65 Vision Plan	Post 65 Vision Tier	Post 65 Life Plan
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: <b>JM</b> Gender: <b>M</b>								
Status	Birth Yr	Hire Yr	Service Credits	Retirement Yr	Medicare Opt Out	Spouse Birth Yr	Child Birth Yr	Group
Active	1954	2002	N/A	N/A	Medicare Eligible	1958	N/A	SOCWA Salaried
Pre 65 Medical Plan	Pre 65 Medical Tier	Pre 65 Pharmacy Plan	Pre 65 Pharmacy Tier	Pre 65 Dental Plan	Pre 65 Dental Tier	Pre 65 Vision Plan	Pre 65 Vision Tier	Pre 65 Life Plan
No Coverage	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Post 65 Medical Plan	Post 65 Medical Tier	Post 65 Pharmacy Plan	Post 65 Pharmacy Tier	Post 65 Dental Plan	Post 65 Dental Tier	Post 65 Vision Plan	Post 65 Vision Tier	Post 65 Life Plan
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: <b>JS</b> Gender: <b>M</b>								
Status	Birth Yr	Hire Yr	Service Credits	Retirement Yr	Medicare Opt Out	Spouse Birth Yr	Child Birth Yr	Group
Retired	1941	1998	N/A	2011	Medicare Eligible	N/A	N/A	SOCWA Salaried
Pre 65 Medical Plan	Pre 65 Medical Tier	Pre 65 Pharmacy Plan	Pre 65 Pharmacy Tier	Pre 65 Dental Plan	Pre 65 Dental Tier	Pre 65 Vision Plan	Pre 65 Vision Tier	Pre 65 Life Plan
No Coverage	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Post 65 Medical Plan	Post 65 Medical Tier	Post 65 Pharmacy Plan	Post 65 Pharmacy Tier	Post 65 Dental Plan	Post 65 Dental Tier	Post 65 Vision Plan	Post 65 Vision Tier	Post 65 Life Plan
Retiree Health	Single	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: <b>KB</b> Gender: <b>F</b>								
Status	Birth Yr	Hire Yr	Service Credits	Retirement Yr	Medicare Opt Out	Spouse Birth Yr	Child Birth Yr	Group
Retired	1956	1993	N/A	2017	Medicare Eligible	1953	N/A	SOCWA Salaried
Pre 65 Medical Plan	Pre 65 Medical Tier	Pre 65 Pharmacy Plan	Pre 65 Pharmacy Tier	Pre 65 Dental Plan	Pre 65 Dental Tier	Pre 65 Vision Plan	Pre 65 Vision Tier	Pre 65 Life Plan
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Post 65 Medical Plan	Post 65 Medical Tier	Post 65 Pharmacy Plan	Post 65 Pharmacy Tier	Post 65 Dental Plan	Post 65 Dental Tier	Post 65 Vision Plan	Post 65 Vision Tier	Post 65 Life Plan
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: <b>KH</b> Gender: <b>F</b>								
Status	Birth Yr	Hire Yr	Service Credits	Retirement Yr	Medicare Opt Out	Spouse Birth Yr	Child Birth Yr	Group

*This report was prepared solely to provide assistance to (the) SOCWA - MI in Royal Oak, MI in determining values to be reported under GASB 75 and GASB 74. It may not be appropriate to use for other purposes. Milliman does not intend to benefit and assumes no duty or liability to other parties who receive this report. Copyright © 2023 Milliman, Inc.*

Retired	1946	1978	N/A	2010	Medicare Eligible	N/A	N/A	SOCWA Salaried
<b>Pre 65 Medical Plan</b>	<b>Pre 65 Medical Tier</b>	<b>Pre 65 Pharmacy Plan</b>	<b>Pre 65 Pharmacy Tier</b>	<b>Pre 65 Dental Plan</b>	<b>Pre 65 Dental Tier</b>	<b>Pre 65 Vision Plan</b>	<b>Pre 65 Vision Tier</b>	<b>Pre 65 Life Plan</b>
No Coverage	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Post 65 Medical Plan</b>	<b>Post 65 Medical Tier</b>	<b>Post 65 Pharmacy Plan</b>	<b>Post 65 Pharmacy Tier</b>	<b>Post 65 Dental Plan</b>	<b>Post 65 Dental Tier</b>	<b>Post 65 Vision Plan</b>	<b>Post 65 Vision Tier</b>	<b>Post 65 Life Plan</b>
Retiree Health	Single	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: <b>KM</b> Gender: <b>F</b>								
<b>Status</b>	<b>Birth Yr</b>	<b>Hire Yr</b>	<b>Service Credits</b>	<b>Retirement Yr</b>	<b>Medicare Opt Out</b>	<b>Spouse Birth Yr</b>	<b>Child Birth Yr</b>	<b>Group</b>
Retired	1956	1990	N/A	2016	Medicare Eligible	1959	N/A	SOCWA Salaried
<b>Pre 65 Medical Plan</b>	<b>Pre 65 Medical Tier</b>	<b>Pre 65 Pharmacy Plan</b>	<b>Pre 65 Pharmacy Tier</b>	<b>Pre 65 Dental Plan</b>	<b>Pre 65 Dental Tier</b>	<b>Pre 65 Vision Plan</b>	<b>Pre 65 Vision Tier</b>	<b>Pre 65 Life Plan</b>
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Post 65 Medical Plan</b>	<b>Post 65 Medical Tier</b>	<b>Post 65 Pharmacy Plan</b>	<b>Post 65 Pharmacy Tier</b>	<b>Post 65 Dental Plan</b>	<b>Post 65 Dental Tier</b>	<b>Post 65 Vision Plan</b>	<b>Post 65 Vision Tier</b>	<b>Post 65 Life Plan</b>
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: <b>MCz</b> Gender: <b>M</b>								
<b>Status</b>	<b>Birth Yr</b>	<b>Hire Yr</b>	<b>Service Credits</b>	<b>Retirement Yr</b>	<b>Medicare Opt Out</b>	<b>Spouse Birth Yr</b>	<b>Child Birth Yr</b>	<b>Group</b>
Retired	1953	1989	N/A	2012	Medicare Eligible	1956	N/A	SOCWA Salaried
<b>Pre 65 Medical Plan</b>	<b>Pre 65 Medical Tier</b>	<b>Pre 65 Pharmacy Plan</b>	<b>Pre 65 Pharmacy Tier</b>	<b>Pre 65 Dental Plan</b>	<b>Pre 65 Dental Tier</b>	<b>Pre 65 Vision Plan</b>	<b>Pre 65 Vision Tier</b>	<b>Pre 65 Life Plan</b>
No Coverage	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Post 65 Medical Plan</b>	<b>Post 65 Medical Tier</b>	<b>Post 65 Pharmacy Plan</b>	<b>Post 65 Pharmacy Tier</b>	<b>Post 65 Dental Plan</b>	<b>Post 65 Dental Tier</b>	<b>Post 65 Vision Plan</b>	<b>Post 65 Vision Tier</b>	<b>Post 65 Life Plan</b>
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: <b>MF</b> Gender: <b>F</b>								
<b>Status</b>	<b>Birth Yr</b>	<b>Hire Yr</b>	<b>Service Credits</b>	<b>Retirement Yr</b>	<b>Medicare Opt Out</b>	<b>Spouse Birth Yr</b>	<b>Child Birth Yr</b>	<b>Group</b>
Deceased	1960	1993	N/A	2019	Medicare Eligible	1958	N/A	SOCWA Salaried
<b>Pre 65 Medical Plan</b>	<b>Pre 65 Medical Tier</b>	<b>Pre 65 Pharmacy Plan</b>	<b>Pre 65 Pharmacy Tier</b>	<b>Pre 65 Dental Plan</b>	<b>Pre 65 Dental Tier</b>	<b>Pre 65 Vision Plan</b>	<b>Pre 65 Vision Tier</b>	<b>Pre 65 Life Plan</b>
Retiree Health	Single	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Post 65 Medical Plan</b>	<b>Post 65 Medical Tier</b>	<b>Post 65 Pharmacy Plan</b>	<b>Post 65 Pharmacy Tier</b>	<b>Post 65 Dental Plan</b>	<b>Post 65 Dental Tier</b>	<b>Post 65 Vision Plan</b>	<b>Post 65 Vision Tier</b>	<b>Post 65 Life Plan</b>
Retiree Health	Single	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: <b>TW</b> Gender: <b>M</b>								
<b>Status</b>	<b>Birth Yr</b>	<b>Hire Yr</b>	<b>Service Credits</b>	<b>Retirement Yr</b>	<b>Medicare Opt Out</b>	<b>Spouse Birth Yr</b>	<b>Child Birth Yr</b>	<b>Group</b>
Retired	1935	1972	N/A	2002	Medicare Eligible	N/A	N/A	SOCWA Salaried
<b>Pre 65 Medical Plan</b>	<b>Pre 65 Medical Tier</b>	<b>Pre 65 Pharmacy Plan</b>	<b>Pre 65 Pharmacy Tier</b>	<b>Pre 65 Dental Plan</b>	<b>Pre 65 Dental Tier</b>	<b>Pre 65 Vision Plan</b>	<b>Pre 65 Vision Tier</b>	<b>Pre 65 Life Plan</b>
No Coverage	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Post 65 Medical Plan</b>	<b>Post 65 Medical Tier</b>	<b>Post 65 Pharmacy Plan</b>	<b>Post 65 Pharmacy Tier</b>	<b>Post 65 Dental Plan</b>	<b>Post 65 Dental Tier</b>	<b>Post 65 Vision Plan</b>	<b>Post 65 Vision Tier</b>	<b>Post 65 Life Plan</b>
Retiree Health	Single	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: <b>VG</b> Gender: <b>F</b>								
<b>Status</b>	<b>Birth Yr</b>	<b>Hire Yr</b>	<b>Service Credits</b>	<b>Retirement Yr</b>	<b>Medicare Opt Out</b>	<b>Spouse Birth Yr</b>	<b>Child Birth Yr</b>	<b>Group</b>

Deceased	1928	1956	N/A	1988	Medicare Eligible	1928	N/A	SOCWA Salaried
<b>Pre 65 Medical Plan</b>	<b>Pre 65 Medical Tier</b>	<b>Pre 65 Pharmacy Plan</b>	<b>Pre 65 Pharmacy Tier</b>	<b>Pre 65 Dental Plan</b>	<b>Pre 65 Dental Tier</b>	<b>Pre 65 Vision Plan</b>	<b>Pre 65 Vision Tier</b>	<b>Pre 65 Life Plan</b>
No Coverage	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Post 65 Medical Plan</b>	<b>Post 65 Medical Tier</b>	<b>Post 65 Pharmacy Plan</b>	<b>Post 65 Pharmacy Tier</b>	<b>Post 65 Dental Plan</b>	<b>Post 65 Dental Tier</b>	<b>Post 65 Vision Plan</b>	<b>Post 65 Vision Tier</b>	<b>Post 65 Life Plan</b>
Retiree Health	Single	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## **SECTION 9** **CAVEATS AND LIMITATIONS**

This report is based on the data, methods, assumptions and plan provisions specified by the user of the website. Since the valuation results are dependent on the integrity of the data supplied, the results can be expected to differ if any of the underlying data is incomplete or missing. If any data or other information is inaccurate or incomplete, the calculations may need to be revised.

Furthermore, the emerging costs will vary from those presented in this report to the extent that actual experience differs from that projected by the actuarial assumptions which are summarized in this report.

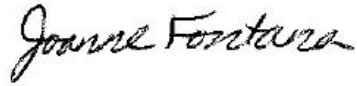
Actuarial computations under GASB 74 and GASB 75 are for purposes of fulfilling financial accounting requirements for public employers and trusts. No attempt is being made to offer any accounting opinion or advice. The calculations in the enclosed exhibits have been made on a basis consistent with the Alternative Measurement Method under GASB 74 and GASB 75. Determinations for purposes other than meeting these financial accounting requirements may be significantly different from the results contained in these exhibits. Accordingly, additional determinations may be needed for other purposes.

This work product was prepared solely to provide assistance to the client or system in determining values to be reported under GASB 74 and GASB 75. It may not be appropriate to use for other purposes. Milliman does not intend to benefit and assumes no duty or liability to other parties who receive this work. The assumptions and results should be reviewed by the user's accountant. Any third party recipient of this work product who desires professional guidance should not rely upon this work product, but should engage qualified professionals for advice appropriate to its own specific needs.

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Please let us know if you have any questions concerning the GASBhelp tool or the information presented in this report. Thank you for using GASBhelp.

Sincerely,

A handwritten signature in black ink that reads "Joanne Fontana". The signature is written in a cursive, flowing style.

Joanne E. Fontana, FSA, MAAA  
Principal and Consulting Actuary

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July 28, 2023

Jeff McKeen  
General Manager  
SOCWA  
3910 W. Webster  
Royal Oak, MI 48073

## GASBhelp Valuation Report

Thank you for using GASBhelp. This report contains the results of the Valuation Report using the Alternative Measurement Method in accordance with GASB 74/75. It also contains a detailed explanation of the methodology and results. All inputs and assumptions that impact the results are contained herein.

The exhibit below provides the key results from the GASB 74/75 OPEB valuation, which may be used in preparation of financial statements. A description of these results and how they were derived are detailed later in this report.

### Key Results

Measurement Date: 6/30/2023

Actuarially Determined Contribution (ADC)	Service Cost (SC)	Amortization Payment	Fiduciary Net Position	Total OPEB Liability	Net OPEB Liability (NOL)
<b>(\$18,567)</b>	<b>\$2,700</b>	<b>(\$21,266)</b>	<b>\$1,085,125</b>	<b>\$792,039</b>	<b>(\$293,086)</b>

Please note that the Key Results in the table above were calculated using the Entry Age Normal Actuarial Cost Method as required by GASB 75. Also, note that for unfunded plans (plans without assets), the Actuarially Determined Contribution and the Amortization Payment are set to N/A.

*This report was prepared solely to provide assistance to (the) SOCWA in Royal Oak, MI in determining values to be reported under GASB 75 and GASB 74. It may not be appropriate to use for other purposes. Milliman does not intend to benefit and assumes no duty or liability to other parties who receive this report.  
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## **SECTION 1** **OVERVIEW OF GASB 74 AND GASB 75**

The Government Accounting Standards Board (GASB) Statements 74 and 75 require government employers to perform periodic valuations to determine annual accounting costs related to Other (than pension) Post-Employment Benefits (OPEB). Government employers must also disclose information in their financial statements about asset and liability levels as well as historical contributions toward OPEB funding. Statement 75 focuses on the requirements for the actuarial valuation and reporting of OPEB liabilities. Statement 74 contains similar information but is only applicable for plans funding their OPEB liability. GASB 75 replaces GASB 45, which set initial standards for OPEB valuations several years ago; similarly, GASB 74 replaces GASB 43.

GASB 75 is effective for fiscal years beginning after June 15, 2017 for all entities. GASB 74 is effective one year earlier than that date.

GASB 75 applies to most benefits that are provided after retirement other than pension benefits: medical insurance, dental, vision, and hearing benefits plus life insurance and other non-pension post-employment benefits. The philosophy driving the accounting standard is that these post-employment benefits are part of the compensation that is paid to employees in return for their services, and the cost of these benefits should be recognized while the employees are providing those services, rather than after they have retired.

**GASBhelp is fully compliant with GASB 75.** The GASB 75 Alternative Measurement Method, while intended to simplify the valuation process for small employers, is still best performed by an expert or by using validated tools like GASBhelp in order to avoid errors. GASBhelp was created and rigorously checked by Milliman actuaries who have pension and health expertise, so auditors can recognize that the calculations performed by GASBhelp are fully compliant with GASB 75 and the Alternative Measurement Method. This report contains all auditor-required elements, including the information necessary to understand the inputs, assumptions, valuation methodology, and valuation results. Milliman customer service representatives are also available to answer questions that auditors or those who read this report may have.

## SECTION 2 THE LIABILITY DETERMINATION PROCESS

The process of determining the liability for retiree OPEB benefits is based on many assumptions about future events.

The key assumptions are:

- **Turnover and retirement rates:** How likely is it that an employee will remain employed by the same employer and qualify for post-employment benefits, and when will those benefits start?
- **Healthcare trend and claims costs assumptions:** When a retiree starts receiving post-employment benefits, possibly many years from now, how much will those benefits cost each year and how rapidly will the costs grow?
- **Mortality assumption:** How long is a retiree likely to receive the benefits?
- **Discount rate assumption:** What is the present value of those future benefit payments in terms of today's dollars?

According to GASB 75, "A liability should be recognized for the Net OPEB Liability. The Net OPEB Liability should be measured as the portion of the actuarial present value of projected benefit payments that is attributed to past periods of employee service, net of the OPEB plan's Fiduciary Net Position."

Therefore, the Net OPEB Liability is calculated as the Total OPEB Liability less the plan's Fiduciary Net Position. The Fiduciary Net Position is equal to the total assets set aside for funding. **If the OPEB plan is prefunded, the valuation will also need to determine an Actuarially Determined Contribution (ADC). If the plan is not prefunded, we set the ADC to N/A throughout this report.**

The ADC consists of two pieces:

- **Service Cost:** cost for OPEB benefits attributable to the current year of service.
- **Amortization Payment:** a catch-up payment for past normal costs to amortize the Net OPEB Liability. GASBhelp assumes a rolling 20-year amortization period.

**Note:** The ADC does not have to be paid each year, nor does it need to be calculated. However, if it is calculated, then it must be disclosed in financial statements annually for prefunded plans.

In addition, the discount rate used to calculate the liabilities must reflect the expected investment income of whatever funds are set aside to prefund the benefits; if there is no prefunding then the discount rate will be much lower and the liabilities significantly higher than if the benefits are prefunded. GASB 74 and 75 generally require that a blended discount rate be used to measure the Total OPEB Liability. The long-term expected rate of return on plan assets may be used to the extent that the plan's Fiduciary Net Position is projected to cover benefit payments and administrative expenses. A 20-year tax-exempt municipal bond yield must be used for periods where the Fiduciary Net Position is not projected to cover benefit payments and administrative expenses. Determining the discount rate under GASB 74 and 75 will often require that the actuary perform complex "depletion date" projections of future benefit payments and asset values; however, Paragraph 29 allows for alternative evaluations if such evaluation may be reliably made. The method for alternative evaluations is not specified but rather left to professional judgment.

Based on this requirement, if your plan is unfunded (i.e., you are paying for OPEB on a pay-as-you-go basis) or fully-funded (i.e., you expect that your plan assets will be sufficient over the projection period to offset OPEB liability), GASBhelp's online tool may be used in its entirety. For plans that are not prefunded, the discount rate will be based on the 20-year tax exempt municipal bond yield. For fully-funded plans, the discount rate will be based on your long-term expected rate of return on plan assets.

**If your plan is partially prefunded, meaning that the assets being set aside are expected to partially but not fully offset the liability over time, then you will use GASBhelp for all inputs and then Milliman will calculate the appropriate discount rate to use and provide you with a customized report. GASBhelp's online tool does not allow for discount rate calculations using the depletion date methodology so we will calculate the discount rate for you outside the web-based platform and deliver you a custom report.**

As an entity that qualifies to use the Alternative Measurement Method (AMM), the calculation of your Total OPEB Liability and ADC may be completed without a full actuarial valuation. The AMM calculation process is similar to an actuarial valuation, but with simplifications of several assumptions permitted per GASB guidelines. The GASBhelp tools' calculation process is built in accordance with the Alternative Measurement Method.

**SECTION 3**  
**KEY RESULTS, SENSITIVITY ANALYSIS, AND REPORTING ELEMENTS**

This exhibit provides the key results from the GASB 74 and GASB 75 OPEB valuation, which may be used in preparation of financial statements.

**Key Results**

**Measurement Date: 6/30/2023**

Actuarially Determined Contribution (ADC)	Service Cost (SC)	Amortization Payment	Fiduciary Net Position	Total OPEB Liability	Net OPEB Liability (NOL)
<b>(\$18,567)</b>	<b>\$2,700</b>	<b>(\$21,266)</b>	<b>\$1,085,125</b>	<b>\$792,039</b>	<b>(\$293,086)</b>

Two sensitivity analyses are then required by GASB 75 and/or GASB 74.

The first sensitivity analysis is required to show how your liability will change based on your assumed discount rate. As more assets are set aside to fund OPEB liabilities, your expected investment return may increase, offsetting more of your liability cost. A second sensitivity analysis is required to show how your liability will change based on a change in the healthcare trend rates used in the valuation.

**Sensitivity 1: Change in Discount Rate Assumption**

<b>Your discount rate baseline is:</b>	<b>6.850%</b>
--	---------------

The OPEB liability calculated using a discount rate 1% greater than and 1% less than the baseline discount rate are shown in the table below.

	Discount Rate - 1%	Baseline	Discount Rate + 1%
<b>Discount Rate</b>	<b>5.850%</b>	<b>6.850%</b>	<b>7.850%</b>
<b>Net OPEB Liability</b>	<b>(\$217,740)</b>	<b>(\$293,086)</b>	<b>(\$357,869)</b>
<b>Change from Baseline</b>	<b>\$75,346</b>	<b>\$0</b>	<b>(\$64,782)</b>

## Sensitivity 2: Change in Healthcare Trend Rate

Your healthcare trend rate baseline is:

	Medical	Pharmacy	Dental	Vision
Year 1	5.500%	5.200%	3.500%	3.000%
Year 2	5.300%	4.800%	3.500%	3.000%
Year 3	5.000%	4.700%	3.000%	3.000%
Year 4	4.800%	4.600%	3.000%	3.000%
Year 5	4.500%	4.500%	3.000%	3.000%
Year 6	4.500%	4.400%	3.000%	3.000%
Year 7	4.500%	4.300%	3.000%	3.000%
Year 8	4.500%	4.200%	3.000%	3.000%
Year 9	4.500%	4.200%	3.000%	3.000%
Year 10 +	4.500%	4.200%	3.000%	3.000%

The OPEB liability calculated using healthcare trend rates 1% greater than and 1% less than the baseline trends are shown in the table below. The ACA excise tax will ultimately affect all plans. Due to the variability of the ACA excise tax by plan, the user needs to estimate the impact and the trend. The excise tax could raise the average annual trend rate by 0.5% or more in each year.

	Baseline Trend - 1%	Baseline Trend	Baseline Trend + 1%
<b>Net OPEB Liability</b>	<b>(\$358,013)</b>	<b>(\$293,086)</b>	<b>(\$218,354)</b>
<b>Change from Baseline</b>	<b>(\$64,927)</b>	<b>\$0</b>	<b>\$74,733</b>

### Calculation of Changes in Net OPEB Liability

You are required to demonstrate the change in your Net OPEB Liability from the last reporting period to the current period. The Changes in Net OPEB Liability exhibit, populated based on user inputs and on GASBhelp valuation results, is shown below.

#### Changes in Net OPEB Liability Exhibit

Line #		Total OPEB Liability (a)	Change in Fiduciary Net Position (b)	Net OPEB Liability (a)-(b)
1	Balance as of Prior Measurement Date	\$820,123	\$1,063,874	(\$243,751)
2	Service Cost	\$5,716	N/A	\$5,716
3	Interest on Total OPEB Liability	\$55,987	N/A	\$55,987
4	Effect of Plan Changes*	\$0	N/A	\$0
5	Effect of Economic/Demographic Gains or Losses	(\$47,182)	N/A	(\$47,182)
6	Effect of Assumptions Changes or Inputs	\$10,341	N/A	\$10,341
7	Benefit Payments	(\$52,946)	(\$52,946)	\$0
8a	Employer Contributions	N/A	(\$417)	\$417
8b	Employee Contributions	N/A	\$0	\$0
9	Net Investment Income	N/A	\$76,566	(\$76,566)
10	Administrative Expenses	N/A	(\$1,951)	\$1,951
11	Balance as of Current Measurement Date	\$792,039	\$1,085,125	(\$293,086)

\*GASBhelp is able to generate the combined impact of Line 4 (Effect of Plan Changes) and Line 5 (Effect of Economic/Demographic Gains or Losses). For purposes of populating this exhibit we have put the entire value in Line 5. If you have not had any plan changes (e.g. changes in OPEB benefits, changes in eligibility requirements) since your last valuation, Line 4 may remain at \$0. If you have had OPEB plan changes you will need to estimate the portion of the displayed Line 5 adjustment due to plan changes and allocate it to Line 4 instead.

**GASBhelp Outputs to Aid You In Developing Exhibit**

Key	Date and Discount Rate Scenario	Measurement Date	Discount Rate	Total OPEB Liability (TOL)	Service Cost (SC)
<b>(i)</b>	Last Measurement Date, Last Year's Assumptions	6/30/2022	7.000%	\$777,526	\$2,489
<b>(ii)</b>	Current Measurement Date, Last Year's Assumptions	6/30/2023	7.000%	\$781,697	\$2,594
<b>(iii)</b>	Current Measurement Date, Current Assumptions	6/30/2023	6.850%	\$792,039	\$2,700
<b>(iv)</b>	Next Measurement Date, Current Assumptions	6/30/2024	6.850%	\$802,896	\$2,820



**Calculation of OPEB Expense:**

OPEB Expense must be demonstrated via the following calculation.

	<u>Item</u> <u>Value</u>
	Service Cost \$5,716
	+ Interest on Total OPEB Liability \$55,987
	+ Effect of Plan Changes^ \$0
	+ Administrative Expenses \$1,951
	- Employee Contributions \$0
	- Expected Investment Return Net of Investment Expenses (\$76,566)
	+ Recognition of Effect of Economic/Demographic Gains or Losses* (\$47,182)
	+ Recognition of Effect of Assumptions Changes or Inputs* \$10,341
	<b>OPEB Expense (\$49,753)</b>

\*Per GASB 75 Paragraph 43(a), deferred inflows/outflows of resources related to differences between actual and expected experience with regard to economic or demographic factors or changes in assumptions and other inputs should not be used under the Alternative Measurement Method. These items should be recognized in OPEB expense immediately. Per Paragraph 43(b), the difference between projected and actual earnings on OPEB plan investments should be recognized in OPEB expense over a closed 5 year period; the amount not immediately recognized should be reported as deferred inflows/outflows. **As such, if your plan does not have OPEB assets in a trust, deferred inflows/outflows are \$0. If you do invest assets in a trust backing the OPEB liability, then you must assess and track the deferred inflows/outflows related to actual versus expected investment earnings. This investment performance detail is not captured in GASBhelp and must be maintained by the auditor or accountant.**

^In this exhibit we have set the Effect of Plan Changes to 0. Per the note following the Changes in Net OPEB Liability Exhibit, our calculations cannot distinguish between Effect of Plan Changes and Effect of Economics/Demographic Gains or Losses. If you have not had any plan changes (e.g. changes in OPEB benefits, changes in eligibility requirements) since the last valuation, the Effect of Plan Changes may remain at 0. If you have had plan changes you will need to estimate those and adjust this exhibit to reflect them.

**SECTION 4**  
**SUMMARY OF CENSUS DATA**

Here is a summary of the number of employees covered by the benefit terms as required by GASB 75. This exhibit also serves as documentation of the census data you input, on which the valuation was calculated.

**Census Summary**

	Younger than 65 Years	65 Years or Older	Total
<b>Subscribers</b>	<b>9</b>	<b>6</b>	<b>15</b>
<b>Spouses</b>	<b>6</b>	<b>3</b>	<b>9</b>
<b>Total</b>	<b>15</b>	<b>9</b>	<b>24</b>
<b>Average Ages</b>	<b>58</b>	<b>74</b>	<b>64</b>

**Subscribers by Status**

	# Subscribers
<b>Active</b>	<b>6</b>
<b>Retired</b>	<b>9</b>
<b>Terminated</b>	<b>0</b>
<b>Deceased*</b>	<b>1</b>
<b>Total</b>	<b>16</b>

\*Deceased subscribers are only included when a surviving beneficiary is currently receiving benefits. The total number of subscribers by status may differ from the number of subscribers in the census summary, because the summary only includes living plan members.

**SECTION 5**  
**CURRENT PREMIUMS**

This exhibit serves as documentation of the premium and employer contribution information you input, on which the valuation was calculated.

**Total Monthly Premiums Paid to the Insurer**

<b>Retiree Health</b>		
Medical, Pharmacy Coverage	Single Premium	Family Premium
Subscriber Under 65	\$852.00	\$1,704.00
Subscriber Over 65	\$159.76	\$319.53

- \* Premium Effective Date: **7/1/2023**.
- \* Number of Premium Payments per Year: **12**.
- \* May be Covered: **The Subscriber and Spouse**. Not Children.
- \* This benefit pays: **Secondary to Medicare**.
- \* Benefit for: **Both early retirees (pre-65) and regular retirees (65-and-over)**
- \* Total tiered premiums due to the insurer exist for each segment: actives, pre-Medicare-eligible retirees, and Medicare-eligible retirees.

**Employer Contributions toward the Monthly Premiums**

<b>Medicare Eligible - Retiree Health</b>		
Medical, Pharmacy Coverage	Single Contribution	Family Contribution
Subscriber Under 65	\$724.20	\$1,448.40
Subscriber Over 65	\$127.81	\$255.62

- \* Contribution Type: **Fixed Percent**
- \* Eligibility requirements for this benefit:
  - Minimum age before retirement (termination): **60**
  - Minimum required years of service: **10**

**SECTION 6**  
**SUMMARY OF KEY ASSUMPTIONS AND METHODS**

The exhibit below provides key assumptions and methods used in the valuation as well as user inputs.

**Key Assumptions and Methods Used in the Valuation**

Assumptions	User Defined Values are in Bold
<b>Age Adjustment Factor:</b>	1
<b>Average Retirement Age:</b>	<b>62</b>
<b>Employer Future Premium Contribution:</b>	<b>Remain a level % of the total cost over time</b>
<b>Actuarial Cost Method:</b>	Entry Age Normal
<b>Amortization Method:</b>	Level Percentage of Payroll
<b>Assets Backing OPEB Liability:</b>	<b>\$1,085,125</b>
<b>Plan Asset Return:</b>	<b>6.850%</b>
<b>Bond Yield:</b>	<b>4.170%</b>
<b>Discount Rate:</b>	6.850%
<b>Measurement Date:</b>	6/30/2023
<b>Prior Measurement Date:</b>	6/30/2022
<b>Prior Year Discount Rate:</b>	7.000%
<b>Projected Salary Increases:</b>	<b>3.25%</b>
<b>Amortization Period:</b>	20
<b>Percentage Participation:</b>	100.00%
<b>NOL and ADC:</b>	Calculated using the Alternative Measurement Method in accordance with GASB methodology.
<b>Mortality Table:</b>	Pub-2010 Public Retirement Plans Mortality Tables, with mortality improvement projected for 10 years.
<b>Turnover Assumption:</b>	Derived from data maintained by the U.S. Office of Personnel Management regarding the most recent experience of the employee group covered by the Federal Employees Retirement System

Payroll Growth Assumption Source: Michigan Uniform Assumptions

The exhibit below provides user inputs used in the financial reporting section.

### Key Inputs Used in the Financial Reporting Section

User Inputs	Values
Total OPEB Liability Prior Balance:	\$820,123
Prior Fiduciary Net Position:	\$1,063,874
Prior Service Cost:	\$5,716
OPEB Benefit Payments:	\$52,946
Employer Contributions to OPEB Trust:	\$0
Employee Contributions to OPEB Trust:	\$0
Net Investment Income from OPEB Trust:	\$76,566
Administrative Expenses from OPEB Trust:	\$1,951

### Healthcare Cost Trend Rates

	Medical	Pharmacy	Dental	Vision
Year 1	5.500%	5.200%	3.500%	3.000%
Year 2	5.300%	4.800%	3.500%	3.000%
Year 3	5.000%	4.700%	3.000%	3.000%
Year 4	4.800%	4.600%	3.000%	3.000%
Year 5	4.500%	4.500%	3.000%	3.000%
Year 6	4.500%	4.400%	3.000%	3.000%
Year 7	4.500%	4.300%	3.000%	3.000%
Year 8	4.500%	4.200%	3.000%	3.000%
Year 9	4.500%	4.200%	3.000%	3.000%
Year 10 +	4.500%	4.200%	3.000%	3.000%

Healthcare Cost Trend Source: Michigan Uniform Assumptions The ACA excise tax will ultimately affect all plans. Due to the variability of the ACA excise tax by plan, the user needs to estimate the impact and adjust the trend. The excise tax could raise the average annual trend rate by 0.5% or more in each year.

## **SECTION 7** **REQUIRED SUPPLEMENTAL INFORMATION**

GASB 75 requires the following supplementary information to be reported separately for each plan through which OPEB is provided. Your auditor should work with you to compile this supplementary information. The information requiring disclosure can be found in paragraphs 55 through 57 in the GASB 75 text. In this section we provide guidance on this reporting and data elements from the valuation that must be used in the reporting.

1. A 10-year schedule of the changes in the Net OPEB Liability that separately presents the sources of change in the Net OPEB Liability.

For this schedule, you can use the results shown in the Calculation of Changes in Net OPEB Liability exhibit detailed in Section 3 of this report as well as historical information. The schedule should include the Total OPEB Liability, the OPEB plan's Fiduciary Net Position, the Net OPEB Liability, the OPEB plan's Fiduciary Net Position as a percentage of the progression over time of Total OPEB Liability, the covered employee payroll, and the Net OPEB Liability as a percentage of covered employee payroll.

2. A 10-year schedule of actuarially determined contributions if applicable. Include the amount of contributions recognized by the OPEB plan in relation to the ADC and the difference between the ADC and the contributions. Also include the covered employee payroll and the contributions recognized as a percentage of covered employee payroll. Covered payroll is not an output of GASBhelp.
3. For prefunded plans, the money-weighted rate of return must be calculated and disclosed. GASBhelp does not provide this calculation as it is based on the timing and nature of each entity's investments and cashflows. We recommend working with an accountant or auditor on these supplemental exhibits. They are not provided by GASBhelp.

## SECTION 8 INDIVIDUAL SUBSCRIBER DATA

This exhibit contains the data provided for each of the subscribers that the user keyed in to the system.

Subscriber ID: <b>BK</b> Gender: <b>M</b>								
Status	Birth Yr	Hire Yr	Service Credits	Retirement Yr	Medicare Opt Out	Spouse Birth Yr	Child Birth Yr	Group
Retired	1952	1986	N/A	2018	Medicare Eligible	N/A	N/A	Medicare Eligible
<b>Pre 65 Medical Plan</b>	<b>Pre 65 Medical Tier</b>	<b>Pre 65 Pharmacy Plan</b>	<b>Pre 65 Pharmacy Tier</b>	<b>Pre 65 Dental Plan</b>	<b>Pre 65 Dental Tier</b>	<b>Pre 65 Vision Plan</b>	<b>Pre 65 Vision Tier</b>	<b>Pre 65 Life Plan</b>
No Coverage	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Post 65 Medical Plan</b>	<b>Post 65 Medical Tier</b>	<b>Post 65 Pharmacy Plan</b>	<b>Post 65 Pharmacy Tier</b>	<b>Post 65 Dental Plan</b>	<b>Post 65 Dental Tier</b>	<b>Post 65 Vision Plan</b>	<b>Post 65 Vision Tier</b>	<b>Post 65 Life Plan</b>
Retiree Health	Single	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: <b>BR</b> Gender: <b>M</b>								
Status	Birth Yr	Hire Yr	Service Credits	Retirement Yr	Medicare Opt Out	Spouse Birth Yr	Child Birth Yr	Group
Retired	1959	1986	N/A	2019	Medicare Eligible	N/A	N/A	Medicare Eligible
<b>Pre 65 Medical Plan</b>	<b>Pre 65 Medical Tier</b>	<b>Pre 65 Pharmacy Plan</b>	<b>Pre 65 Pharmacy Tier</b>	<b>Pre 65 Dental Plan</b>	<b>Pre 65 Dental Tier</b>	<b>Pre 65 Vision Plan</b>	<b>Pre 65 Vision Tier</b>	<b>Pre 65 Life Plan</b>
Retiree Health	Single	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Post 65 Medical Plan</b>	<b>Post 65 Medical Tier</b>	<b>Post 65 Pharmacy Plan</b>	<b>Post 65 Pharmacy Tier</b>	<b>Post 65 Dental Plan</b>	<b>Post 65 Dental Tier</b>	<b>Post 65 Vision Plan</b>	<b>Post 65 Vision Tier</b>	<b>Post 65 Life Plan</b>
Retiree Health	Single	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: <b>BY</b> Gender: <b>M</b>								
Status	Birth Yr	Hire Yr	Service Credits	Retirement Yr	Medicare Opt Out	Spouse Birth Yr	Child Birth Yr	Group
Active	1964	1989	N/A	N/A	Medicare Eligible	1965	N/A	Medicare Eligible
<b>Pre 65 Medical Plan</b>	<b>Pre 65 Medical Tier</b>	<b>Pre 65 Pharmacy Plan</b>	<b>Pre 65 Pharmacy Tier</b>	<b>Pre 65 Dental Plan</b>	<b>Pre 65 Dental Tier</b>	<b>Pre 65 Vision Plan</b>	<b>Pre 65 Vision Tier</b>	<b>Pre 65 Life Plan</b>
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Post 65 Medical Plan</b>	<b>Post 65 Medical Tier</b>	<b>Post 65 Pharmacy Plan</b>	<b>Post 65 Pharmacy Tier</b>	<b>Post 65 Dental Plan</b>	<b>Post 65 Dental Tier</b>	<b>Post 65 Vision Plan</b>	<b>Post 65 Vision Tier</b>	<b>Post 65 Life Plan</b>
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: <b>DP</b> Gender: <b>M</b>								
Status	Birth Yr	Hire Yr	Service Credits	Retirement Yr	Medicare Opt Out	Spouse Birth Yr	Child Birth Yr	Group
Active	1977	1998	N/A	N/A	Medicare Eligible	1974	N/A	Medicare Eligible
<b>Pre 65 Medical Plan</b>	<b>Pre 65 Medical Tier</b>	<b>Pre 65 Pharmacy Plan</b>	<b>Pre 65 Pharmacy Tier</b>	<b>Pre 65 Dental Plan</b>	<b>Pre 65 Dental Tier</b>	<b>Pre 65 Vision Plan</b>	<b>Pre 65 Vision Tier</b>	<b>Pre 65 Life Plan</b>
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Post 65 Medical Plan</b>	<b>Post 65 Medical Tier</b>	<b>Post 65 Pharmacy Plan</b>	<b>Post 65 Pharmacy Tier</b>	<b>Post 65 Dental Plan</b>	<b>Post 65 Dental Tier</b>	<b>Post 65 Vision Plan</b>	<b>Post 65 Vision Tier</b>	<b>Post 65 Life Plan</b>
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: <b>GO</b> Gender: <b>M</b>								
Status	Birth Yr	Hire Yr	Service Credits	Retirement Yr	Medicare Opt Out	Spouse Birth Yr	Child Birth Yr	Group

*This report was prepared solely to provide assistance to (the) SOCWA in Royal Oak, MI in determining values to be reported under GASB 75 and GASB 74. It may not be appropriate to use for other purposes. Milliman does not intend to benefit and assumes no duty or liability to other parties who receive this report. Copyright © 2023 Milliman, Inc.*



Retired	1953	1990	N/A	2016	Medicare Eligible	1955	N/A	Medicare Eligible
<b>Pre 65 Medical Plan</b>	<b>Pre 65 Medical Tier</b>	<b>Pre 65 Pharmacy Plan</b>	<b>Pre 65 Pharmacy Tier</b>	<b>Pre 65 Dental Plan</b>	<b>Pre 65 Dental Tier</b>	<b>Pre 65 Vision Plan</b>	<b>Pre 65 Vision Tier</b>	<b>Pre 65 Life Plan</b>
No Coverage	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Post 65 Medical Plan</b>	<b>Post 65 Medical Tier</b>	<b>Post 65 Pharmacy Plan</b>	<b>Post 65 Pharmacy Tier</b>	<b>Post 65 Dental Plan</b>	<b>Post 65 Dental Tier</b>	<b>Post 65 Vision Plan</b>	<b>Post 65 Vision Tier</b>	<b>Post 65 Life Plan</b>
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: <b>JG</b> Gender: <b>M</b>								
<b>Status</b>	<b>Birth Yr</b>	<b>Hire Yr</b>	<b>Service Credits</b>	<b>Retirement Yr</b>	<b>Medicare Opt Out</b>	<b>Spouse Birth Yr</b>	<b>Child Birth Yr</b>	<b>Group</b>
Retired	1957	1978	N/A	2018	Medicare Eligible	N/A	N/A	Medicare Eligible
<b>Pre 65 Medical Plan</b>	<b>Pre 65 Medical Tier</b>	<b>Pre 65 Pharmacy Plan</b>	<b>Pre 65 Pharmacy Tier</b>	<b>Pre 65 Dental Plan</b>	<b>Pre 65 Dental Tier</b>	<b>Pre 65 Vision Plan</b>	<b>Pre 65 Vision Tier</b>	<b>Pre 65 Life Plan</b>
Retiree Health	Single	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Post 65 Medical Plan</b>	<b>Post 65 Medical Tier</b>	<b>Post 65 Pharmacy Plan</b>	<b>Post 65 Pharmacy Tier</b>	<b>Post 65 Dental Plan</b>	<b>Post 65 Dental Tier</b>	<b>Post 65 Vision Plan</b>	<b>Post 65 Vision Tier</b>	<b>Post 65 Life Plan</b>
Retiree Health	Single	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: <b>JN</b> Gender: <b>M</b>								
<b>Status</b>	<b>Birth Yr</b>	<b>Hire Yr</b>	<b>Service Credits</b>	<b>Retirement Yr</b>	<b>Medicare Opt Out</b>	<b>Spouse Birth Yr</b>	<b>Child Birth Yr</b>	<b>Group</b>
Retired	1960	1992	N/A	2021	Medicare Eligible	1964	N/A	Medicare Eligible
<b>Pre 65 Medical Plan</b>	<b>Pre 65 Medical Tier</b>	<b>Pre 65 Pharmacy Plan</b>	<b>Pre 65 Pharmacy Tier</b>	<b>Pre 65 Dental Plan</b>	<b>Pre 65 Dental Tier</b>	<b>Pre 65 Vision Plan</b>	<b>Pre 65 Vision Tier</b>	<b>Pre 65 Life Plan</b>
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Post 65 Medical Plan</b>	<b>Post 65 Medical Tier</b>	<b>Post 65 Pharmacy Plan</b>	<b>Post 65 Pharmacy Tier</b>	<b>Post 65 Dental Plan</b>	<b>Post 65 Dental Tier</b>	<b>Post 65 Vision Plan</b>	<b>Post 65 Vision Tier</b>	<b>Post 65 Life Plan</b>
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: <b>JW</b> Gender: <b>M</b>								
<b>Status</b>	<b>Birth Yr</b>	<b>Hire Yr</b>	<b>Service Credits</b>	<b>Retirement Yr</b>	<b>Medicare Opt Out</b>	<b>Spouse Birth Yr</b>	<b>Child Birth Yr</b>	<b>Group</b>
Active	1963	1988	N/A	N/A	Medicare Eligible	N/A	N/A	Medicare Eligible
<b>Pre 65 Medical Plan</b>	<b>Pre 65 Medical Tier</b>	<b>Pre 65 Pharmacy Plan</b>	<b>Pre 65 Pharmacy Tier</b>	<b>Pre 65 Dental Plan</b>	<b>Pre 65 Dental Tier</b>	<b>Pre 65 Vision Plan</b>	<b>Pre 65 Vision Tier</b>	<b>Pre 65 Life Plan</b>
Retiree Health	Single	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Post 65 Medical Plan</b>	<b>Post 65 Medical Tier</b>	<b>Post 65 Pharmacy Plan</b>	<b>Post 65 Pharmacy Tier</b>	<b>Post 65 Dental Plan</b>	<b>Post 65 Dental Tier</b>	<b>Post 65 Vision Plan</b>	<b>Post 65 Vision Tier</b>	<b>Post 65 Life Plan</b>
Retiree Health	Single	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: <b>JY</b> Gender: <b>M</b>								
<b>Status</b>	<b>Birth Yr</b>	<b>Hire Yr</b>	<b>Service Credits</b>	<b>Retirement Yr</b>	<b>Medicare Opt Out</b>	<b>Spouse Birth Yr</b>	<b>Child Birth Yr</b>	<b>Group</b>
Retired	1942	1992	N/A	2012	Medicare Eligible	1942	N/A	Medicare Eligible
<b>Pre 65 Medical Plan</b>	<b>Pre 65 Medical Tier</b>	<b>Pre 65 Pharmacy Plan</b>	<b>Pre 65 Pharmacy Tier</b>	<b>Pre 65 Dental Plan</b>	<b>Pre 65 Dental Tier</b>	<b>Pre 65 Vision Plan</b>	<b>Pre 65 Vision Tier</b>	<b>Pre 65 Life Plan</b>
No Coverage	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Post 65 Medical Plan</b>	<b>Post 65 Medical Tier</b>	<b>Post 65 Pharmacy Plan</b>	<b>Post 65 Pharmacy Tier</b>	<b>Post 65 Dental Plan</b>	<b>Post 65 Dental Tier</b>	<b>Post 65 Vision Plan</b>	<b>Post 65 Vision Tier</b>	<b>Post 65 Life Plan</b>
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: <b>KBr</b> Gender: <b>M</b>								
<b>Status</b>	<b>Birth Yr</b>	<b>Hire Yr</b>	<b>Service Credits</b>	<b>Retirement Yr</b>	<b>Medicare Opt Out</b>	<b>Spouse Birth Yr</b>	<b>Child Birth Yr</b>	<b>Group</b>

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Retired	1941	1996	N/A	2007	Medicare Eligible	N/A	N/A	Medicare Eligible
<b>Pre 65 Medical Plan</b>	<b>Pre 65 Medical Tier</b>	<b>Pre 65 Pharmacy Plan</b>	<b>Pre 65 Pharmacy Tier</b>	<b>Pre 65 Dental Plan</b>	<b>Pre 65 Dental Tier</b>	<b>Pre 65 Vision Plan</b>	<b>Pre 65 Vision Tier</b>	<b>Pre 65 Life Plan</b>
No Coverage	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Post 65 Medical Plan</b>	<b>Post 65 Medical Tier</b>	<b>Post 65 Pharmacy Plan</b>	<b>Post 65 Pharmacy Tier</b>	<b>Post 65 Dental Plan</b>	<b>Post 65 Dental Tier</b>	<b>Post 65 Vision Plan</b>	<b>Post 65 Vision Tier</b>	<b>Post 65 Life Plan</b>
Retiree Health	Single	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: LW Gender: M								
<b>Status</b>	<b>Birth Yr</b>	<b>Hire Yr</b>	<b>Service Credits</b>	<b>Retirement Yr</b>	<b>Medicare Opt Out</b>	<b>Spouse Birth Yr</b>	<b>Child Birth Yr</b>	<b>Group</b>
Active	1963	1984	N/A	N/A	Medicare Eligible	1959	N/A	Medicare Eligible
<b>Pre 65 Medical Plan</b>	<b>Pre 65 Medical Tier</b>	<b>Pre 65 Pharmacy Plan</b>	<b>Pre 65 Pharmacy Tier</b>	<b>Pre 65 Dental Plan</b>	<b>Pre 65 Dental Tier</b>	<b>Pre 65 Vision Plan</b>	<b>Pre 65 Vision Tier</b>	<b>Pre 65 Life Plan</b>
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Post 65 Medical Plan</b>	<b>Post 65 Medical Tier</b>	<b>Post 65 Pharmacy Plan</b>	<b>Post 65 Pharmacy Tier</b>	<b>Post 65 Dental Plan</b>	<b>Post 65 Dental Tier</b>	<b>Post 65 Vision Plan</b>	<b>Post 65 Vision Tier</b>	<b>Post 65 Life Plan</b>
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: RK Gender: F								
<b>Status</b>	<b>Birth Yr</b>	<b>Hire Yr</b>	<b>Service Credits</b>	<b>Retirement Yr</b>	<b>Medicare Opt Out</b>	<b>Spouse Birth Yr</b>	<b>Child Birth Yr</b>	<b>Group</b>
Deceased	1929	1976	N/A	1998	Medicare Eligible	1934	N/A	Medicare Eligible
<b>Pre 65 Medical Plan</b>	<b>Pre 65 Medical Tier</b>	<b>Pre 65 Pharmacy Plan</b>	<b>Pre 65 Pharmacy Tier</b>	<b>Pre 65 Dental Plan</b>	<b>Pre 65 Dental Tier</b>	<b>Pre 65 Vision Plan</b>	<b>Pre 65 Vision Tier</b>	<b>Pre 65 Life Plan</b>
No Coverage	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Post 65 Medical Plan</b>	<b>Post 65 Medical Tier</b>	<b>Post 65 Pharmacy Plan</b>	<b>Post 65 Pharmacy Tier</b>	<b>Post 65 Dental Plan</b>	<b>Post 65 Dental Tier</b>	<b>Post 65 Vision Plan</b>	<b>Post 65 Vision Tier</b>	<b>Post 65 Life Plan</b>
Retiree Health	Single	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: RR Gender: M								
<b>Status</b>	<b>Birth Yr</b>	<b>Hire Yr</b>	<b>Service Credits</b>	<b>Retirement Yr</b>	<b>Medicare Opt Out</b>	<b>Spouse Birth Yr</b>	<b>Child Birth Yr</b>	<b>Group</b>
Retired	1952	1999	N/A	2014	Medicare Eligible	N/A	N/A	Medicare Eligible
<b>Pre 65 Medical Plan</b>	<b>Pre 65 Medical Tier</b>	<b>Pre 65 Pharmacy Plan</b>	<b>Pre 65 Pharmacy Tier</b>	<b>Pre 65 Dental Plan</b>	<b>Pre 65 Dental Tier</b>	<b>Pre 65 Vision Plan</b>	<b>Pre 65 Vision Tier</b>	<b>Pre 65 Life Plan</b>
No Coverage	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Post 65 Medical Plan</b>	<b>Post 65 Medical Tier</b>	<b>Post 65 Pharmacy Plan</b>	<b>Post 65 Pharmacy Tier</b>	<b>Post 65 Dental Plan</b>	<b>Post 65 Dental Tier</b>	<b>Post 65 Vision Plan</b>	<b>Post 65 Vision Tier</b>	<b>Post 65 Life Plan</b>
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: SM Gender: M								
<b>Status</b>	<b>Birth Yr</b>	<b>Hire Yr</b>	<b>Service Credits</b>	<b>Retirement Yr</b>	<b>Medicare Opt Out</b>	<b>Spouse Birth Yr</b>	<b>Child Birth Yr</b>	<b>Group</b>
Active	1962	1992	N/A	N/A	Medicare Eligible	N/A	N/A	Medicare Eligible
<b>Pre 65 Medical Plan</b>	<b>Pre 65 Medical Tier</b>	<b>Pre 65 Pharmacy Plan</b>	<b>Pre 65 Pharmacy Tier</b>	<b>Pre 65 Dental Plan</b>	<b>Pre 65 Dental Tier</b>	<b>Pre 65 Vision Plan</b>	<b>Pre 65 Vision Tier</b>	<b>Pre 65 Life Plan</b>
Retiree Health	Single	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Post 65 Medical Plan</b>	<b>Post 65 Medical Tier</b>	<b>Post 65 Pharmacy Plan</b>	<b>Post 65 Pharmacy Tier</b>	<b>Post 65 Dental Plan</b>	<b>Post 65 Dental Tier</b>	<b>Post 65 Vision Plan</b>	<b>Post 65 Vision Tier</b>	<b>Post 65 Life Plan</b>
Retiree Health	Single	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: TR Gender: M								

Status	Birth Yr	Hire Yr	Service Credits	Retirement Yr	Medicare Opt Out	Spouse Birth Yr	Child Birth Yr	Group
Active	1964	1990	N/A	N/A	Medicare Eligible	1961	N/A	Medicare Eligible
<b>Pre 65 Medical Plan</b>	<b>Pre 65 Medical Tier</b>	<b>Pre 65 Pharmacy Plan</b>	<b>Pre 65 Pharmacy Tier</b>	<b>Pre 65 Dental Plan</b>	<b>Pre 65 Dental Tier</b>	<b>Pre 65 Vision Plan</b>	<b>Pre 65 Vision Tier</b>	<b>Pre 65 Life Plan</b>
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Post 65 Medical Plan</b>	<b>Post 65 Medical Tier</b>	<b>Post 65 Pharmacy Plan</b>	<b>Post 65 Pharmacy Tier</b>	<b>Post 65 Dental Plan</b>	<b>Post 65 Dental Tier</b>	<b>Post 65 Vision Plan</b>	<b>Post 65 Vision Tier</b>	<b>Post 65 Life Plan</b>
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Subscriber ID: TW Gender: M								
Status	Birth Yr	Hire Yr	Service Credits	Retirement Yr	Medicare Opt Out	Spouse Birth Yr	Child Birth Yr	Group
Retired	1959	1996	N/A	2021	Medicare Eligible	1961	N/A	Medicare Eligible
<b>Pre 65 Medical Plan</b>	<b>Pre 65 Medical Tier</b>	<b>Pre 65 Pharmacy Plan</b>	<b>Pre 65 Pharmacy Tier</b>	<b>Pre 65 Dental Plan</b>	<b>Pre 65 Dental Tier</b>	<b>Pre 65 Vision Plan</b>	<b>Pre 65 Vision Tier</b>	<b>Pre 65 Life Plan</b>
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Post 65 Medical Plan</b>	<b>Post 65 Medical Tier</b>	<b>Post 65 Pharmacy Plan</b>	<b>Post 65 Pharmacy Tier</b>	<b>Post 65 Dental Plan</b>	<b>Post 65 Dental Tier</b>	<b>Post 65 Vision Plan</b>	<b>Post 65 Vision Tier</b>	<b>Post 65 Life Plan</b>
Retiree Health	Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## **SECTION 9** **CAVEATS AND LIMITATIONS**

This report is based on the data, methods, assumptions and plan provisions specified by the user of the website. Since the valuation results are dependent on the integrity of the data supplied, the results can be expected to differ if any of the underlying data is incomplete or missing. If any data or other information is inaccurate or incomplete, the calculations may need to be revised.

Furthermore, the emerging costs will vary from those presented in this report to the extent that actual experience differs from that projected by the actuarial assumptions which are summarized in this report.

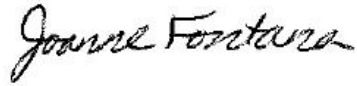
Actuarial computations under GASB 74 and GASB 75 are for purposes of fulfilling financial accounting requirements for public employers and trusts. No attempt is being made to offer any accounting opinion or advice. The calculations in the enclosed exhibits have been made on a basis consistent with the Alternative Measurement Method under GASB 74 and GASB 75. Determinations for purposes other than meeting these financial accounting requirements may be significantly different from the results contained in these exhibits. Accordingly, additional determinations may be needed for other purposes.

This work product was prepared solely to provide assistance to the client or system in determining values to be reported under GASB 74 and GASB 75. It may not be appropriate to use for other purposes. Milliman does not intend to benefit and assumes no duty or liability to other parties who receive this work. The assumptions and results should be reviewed by the user's accountant. Any third party recipient of this work product who desires professional guidance should not rely upon this work product, but should engage qualified professionals for advice appropriate to its own specific needs.

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Please let us know if you have any questions concerning the GASBhelp tool or the information presented in this report. Thank you for using GASBhelp.

Sincerely,

A handwritten signature in black ink that reads "Joanne Fontana". The signature is written in a cursive, flowing style.

Joanne E. Fontana, FSA, MAAA  
Principal and Consulting Actuary

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August 3, 2023

Board of Trustees  
Southeastern Oakland County Water Authority

Subject: GLWA Issues

Board Members:

This report is intended to update the Board on the issues regarding GLWA and the Highland Park unpaid bill issue that have been discussed at recent Board meetings.

#### Highland Park Cases

The stays of the various court actions continue until October 1, 2023. Highland Park's motion to Wayne Circuit Court Judge Edward Joseph to reconsider his recent rulings in the 2014 case was denied. A status conference in this case is scheduled for August 29, 2023. It appears that settlement discussions are ongoing between GLWA, Highland Park and the state of Michigan.

GLWA has not yet announced when the bill credits resulting from the incremental \$1 million payment from Highland Park will be applied. SOCWA's plan to issue corresponding bill credits, which total only \$8,200, to our customers is on hold until the GLWA bill credits are issued. It is unclear if GLWA plans to issue any additional bill credits for additional payments from Highland Park.

We are also continuing to advocate for GLWA booking a portion of all payments received from Highland Park to the water fund. Historically, GLWA has booked all Highland Park payments to the sewer fund because the amount owed to the sewer system predated GLWA supplying water to Highland Park starting in 2012.

Mr. Davis is continuing to follow developments in the Highland Park cases through GLWA's outside legal counsel.

#### Main Break on 120" Water Main

SOCWA withheld \$44,984.91 from our GLWA payment that was due on June 9, 2023. This amount has been segregated in a separate account at Flagstar. GLWA denied our initial claim for payment, but they have not responded to our withheld payment. Mr. Davis and I are awaiting a response from GLWA.

Respectfully submitted,

Jeffrey A. McKeen, P.E.  
General Manager

Suggested Resolution: "That the report on GLWA Issues be received and filed."

July 26, 2023

Board of Trustees  
Southeastern Oakland County Water Authority

Subject: SOCWA Website Redesign

Board Members:

The SOCWA website has been in its current form for about 15 years. We requested a proposal from RRS, a recycling consulting firm from Ann Arbor, to update the SOCWA website. We are proposing to use RRS for this work because they have performed similar work for the SOCRRA website, which is significantly more complicated than the SOCWA website. Having both websites on the same platform with the same basic design will greatly improve our ability to maintain the SOCWA website using our non-technical staff. This will result in a much more modern looking website that has the same look and feel as the SOCRRA website and is much easier to maintain.

Mr. Davis has reviewed and approved the attached agreement. RRS did make one change to the agreement as recommended by Mr. Davis.

I am recommending that the Board accept the proposal from RRS to update the SOCWA website at a cost not to exceed \$14,700. There is sufficient money in our consulting budget for 2023/24 to accomplish this work.

Respectfully submitted,

Jeffrey A. McKeen, P.E.  
General Manager

Suggested Resolution: "That the Board accept the proposal from RRS to update the SOCWA website at a cost not to exceed \$14,700."

**TO: JEFF MCKEEN AND COLETTE FARRIS, SOCRRA**  
**FROM: ANNA LYNOTT AND MAGGIE OROZCO, RRS**  
**DATE: 5.31.2023**  
**RE: PROPOSAL FOR SOCWA WEBSITE MIGRATION**

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## BACKGROUND

As part of its commitment to providing efficient and effective services to its customers, SOCWA has maintained a [website](#) to communicate with the public and provide information about its services. Currently, the website is built on an older platform, and SOCWA has decided to migrate its website to the Squarespace platform to improve its design, functionality, and security. The new platform offers a range of advanced features and capabilities, including improved design options, enhanced functionality, and greater security. Additionally, SOCWA's partner organization, SOCRRA, already has a website built on Squarespace. By migrating to the same platform, both organizations can leverage each other's knowledge and expertise, streamline their workflows, and provide a consistent user experience to their stakeholders.

## PROJECT OBJECTIVES

- Improve the design and user experience of SOCWA's website to make it more visually appealing, intuitive, and engaging for stakeholders.
- Streamline website management by using Squarespace's intuitive content management system (CMS) to enable SOCWA's staff to easily update content, create new pages, and manage website features and functionality.
- Ensure that the website is scalable and flexible to accommodate future growth and changes in SOCWA's service offerings.
- Align SOCWA's website infrastructure with its partner organization, SOCRRA, to create a consistent user experience across both websites.

## WORK PLAN NARRATIVE

The migration to the new platform will involve several key steps. RRS will begin by reviewing SOCWA's current website and identifying all content, features, and functionality that will need to be migrated. RRS will then work with SOCWA's team to create a customized design that aligns with their branding and service offerings. RRS will then migrate all existing content from the old website to the new Squarespace platform and conduct extensive testing to ensure all features and functionality are working. Once the site is launched, RRS will conduct a virtual demo to train SOCWA's staff on how to use the new website.



### TASK 1

The first phase of the project will involve a thorough review of SOCWA's existing website to identify all content, features, and functionality that will need to be migrated to Squarespace. This will involve working with SOCWA's team to understand their requirements, goals, and preferences for the new website.

#### Assumptions

- SOCWA will provide timely feedback on which information should be removed, which should be kept, and if they would like to reorganize anything during the content review phase. RRS will collaborate closely with SOCWA during this phase to provide recommendations.
- The migration will not require significant modifications to existing content.
- Will require about 8 hours of labor.

### TASK 2

RRS will work with SOCWA's team to create a customized website design that aligns with their service offerings. This will involve refreshing SOCWA's brand like selecting updated fonts, making logo design improvements to bring it in line with current design best practices, and defining a color palette. RRS will also develop wireframes and mockups to demonstrate different design options and layouts. Once a design is agreed upon, RRS will begin building the website on Squarespace, using the platform's built-in tools and features to create pages, add content, and integrate functionality.

#### Assumptions

- SOCWA will provide clear design guidelines and branding materials.
- The website's design will be based on Squarespace's built-in templates and tools.
- The final design will be approved by SOCWA before proceeding to the content migration and testing phase.
- Will require about 20 hours of labor.

#### Deliverables

- A comprehensive brand guide that outlines the new design elements, color palette, typography, and other key branding components. RRS will provide all necessary design files, including vector files of the updated logo and any other visual assets created during the refresh process.
- A set of design mockups that provide a visual representation of the proposed design, allowing SOCWA to review and provide feedback.

### TASK 3

RRS will move all existing content from SOCWA's website to the newest version of Squarespace. Once the content migration is complete, RRS will conduct extensive testing to ensure that all features and functionality are working as expected, including the website's navigation, search functionality, and any custom integrations or forms.

### Assumptions

- A subscription to the new version will cost \$276/year.
- All required website content will be available for migration. Any missing or incomplete content may result in delays.
- Will require about 49 hours of labor.

### Deliverables

- A content inventory document that lists all website pages and their associated content, enabling SOCWA to review and ensure completeness and accuracy.

### TASK 4

Once the site is launched, RRS will conduct a virtual demo to train SOCWA's staff on how to use the new website. RRS will also work with SOCWA's IT team to ensure that the website is launched successfully and with minimal disruption to SOCWA's operations. This phase will also include a final round of testing and optimization to ensure that the website is performing optimally and meeting all of SOCWA's requirements and goals.

### Assumptions

- The virtual demo will be conducted using a reliable video conferencing platform like Zoom or Microsoft Teams.
- The virtual demo will be recorded and made available for future reference.
- Will require about 7 hours of labor.

### Deliverables

- A recording of the demo for future reference.

## PROJECT TIMELINE

Upon receipt of the signed Project Authorization page of the proposal, RRS and the client will identify a start date agreeable to both parties. The following preliminary project timeline will be discussed and confirmed at project authorization.

	AUG	SEPT	OCT	NOV	DEC
Task 1	X	X			
Task 2		X	X		
Task 3			X	X	X
Task 4					X

## PROJECT BUDGET

Compensation for this scope of work will be on a fixed basis not to exceed \$14,700 including all project expenses as described below. Any work that falls outside of this scope of work will be subject to a change order process where the specific project assignment and budget will be outlined and authorized by both entities. RRS will not execute any out-of-scope work until an authorized change order is in place.

	LABOR COSTS	EXPENSES	TOTAL TASK COST
Task 1	\$1,359	\$0	\$1359
Task 2	\$3,455	\$0	\$3455
Task 3	\$8,324	\$276	\$8600
Task 4	\$1,196	\$0	\$1196
<b>TOTAL</b>	<b>\$14,334</b>	<b>\$276</b>	<b>\$14,610</b>

# PROJECT AUTHORIZATION

Client Name: Project Name

**RESOURCE RECYCLING SYSTEMS, INC. (RRS)**

416 Longshore Drive  
Ann Arbor, MI 48105  
Office: 734.996.1361  
Fax: 734.996.5595  
[www.recycle.com](http://www.recycle.com)

**PROJECT MANAGER**

Anna Lynott  
734.646.5822 | [alynott@recycle.com](mailto:alynott@recycle.com)

**INVOICING CONTACT**

Ché Pomo  
734.996.1361 x 151 | [cpomo@recycle.com](mailto:cpomo@recycle.com)

**TIMELINE**

Upon receipt of the signed Project Authorization page of the proposal, RRS and the client will identify a start date agreeable to both parties. The following preliminary project timeline will be discussed and confirmed at project authorization.

Start Date: August 1, 2023      End Date: December 1, 2023

**PROJECT BUDGET**

Compensation for this scope of work will be on a fixed basis not to exceed \$14,700 including all project expenses as described above. Any work that falls outside of this scope of work will be subject to a change order process where the specific project assignment and budget will be outlined and authorized by both entities. RRS will not execute any out-of-scope work until an authorized change order is in place.

**COVID-19 SAFETY**

RRS and the client agree to the Project Protocols for COVID-19 Safety in relation to this scope of work as identified in Attachment A.

**PAYMENT TERMS**

RRS will invoice on a monthly billing cycle with fees not to exceed the costs as shown in the above proposal. The client will process and make payment on the invoices within the next immediate pay cycle and no later than 30 days from receipt of the invoice.

**CONTRACT TERMS**

RRS agrees to complete the work scope above in accordance to the terms and conditions of this proposal. Upon receipt of the signed Project Authorization page of the proposal, RRS and the client will identify a start date agreeable to both parties. A purchase order or authorization letter/email may accompany the signed Project Authorization page. If a change of work scope and/or additional funding is required during the course of the project, RRS will submit a change order to the client for approval before work continues.

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AUTHORIZED CLIENT SIGNATURE

---

PRINTED NAME

---

DATE

---

AUTHORIZED RRS SIGNATURE

---

PRINTED NAME

---

DATE

## TERMS AND CONDITIONS

1. **AUTHORIZATION TO PROCEED.** Signing this form shall be construed as authorization by CLIENT for Resource Recycling Systems, Inc. (RRS) to proceed with the work, unless otherwise provided for in the authorization.
2. **CLIENT RESPONSIBILITIES.** CLIENT must furnish full information as related to the project and agree to requirements when requested and to make available pertinent existing data.
3. **CONFIDENTIALITY.** RRS shall not share information provided by the CLIENT with anyone other than necessary RRS personnel, unless otherwise directed by the CLIENT.
4. **EXPENSES.** Unless stipulated otherwise, CLIENT shall compensate RRS for reimbursable expenses defined as: Those costs incurred on or directly for CLIENT project, including but not limited to necessary transportation costs, meals and lodging, laboratory analyses, computer services, special equipment services, trade show charges, delivery charges, telephone, and telefax charges, copying and binding charges and outside technical/professional services. Reimbursement for these expenses shall be on the basis of actual charges with prior approval by CLIENT when furnished by outside sources and on the basis of usual commercial charges or separate rate schedules when furnished by RRS.
5. **COST ESTIMATES.** Any cost estimates provided by RRS as part of our work and/or deliverable will be on a basis of experience and judgment, but because it has no control over market conditions or bidding procedures, RRS cannot warrant that bids or ultimate costs will not vary from these cost estimates provided in our work and/or deliverables.
6. **PROFESSIONAL STANDARDS/WARRANTY.** RRS shall be responsible, to the level of competency presently maintained by other practicing consultants in the same type of work in CLIENT'S community, for the professional and technical soundness, accuracy, and adequacy of all work and materials furnished under this authorization. RRS makes no other warranty, express or implied, with regard to its capacity, the work performed under this authorization, or the ultimate performance or compliance of the project.
7. **TERMINATION.** Either CLIENT or RRS may terminate this authorization with or without cause by giving 30 days written notice to the other party. In such event, CLIENT shall forthwith pay RRS in full for all work previously performed prior to effective date of termination. Upon receipt of such payment, RRS will return to CLIENT all documents and information which is the property of CLIENT. If no notice of termination is given, obligations created by this authorization shall be terminated upon completion of all applicable requirements of the authorization.
8. **MEDIATION/ARBITRATION.** To resolve any conflicts that arise during the project or following completion of the project, the CLIENT and RRS agree that all disputes between them relating to this agreement shall be submitted to nonbinding mediation unless the parties mutually agree otherwise. In the event the parties to this agreement are unable to reach a settlement of any dispute arising out of the services under this agreement in accordance with this section then such controversy or claim arising out of or relating to this agreement, or the breach thereof, shall be settled by arbitration in accordance with the Commercial Arbitration Rules of the American Arbitration Association, and judgment upon the award rendered by the arbitrator(s) may be entered in any court having jurisdiction thereof.
9. **LEGAL EXPENSES.** In the event legal action, including arbitration, is brought by CLIENT or RRS against the other to enforce any of the obligations hereunder or arising out of any dispute concerning the terms and conditions hereby created, the losing party shall pay the prevailing party its reasonable amounts for fees, costs and expenses incurred as a result of that action.
10. **PAYMENT TO RRS.** In addition to any other remedies RRS may have, RRS shall have the absolute right to cease performing any basic or additional services in the event payment has not been made on a current basis.
11. **LIMITATION OF LIABILITY.** RRS's liability to the CLIENT and CLIENT's liability to RRS for any cause or combination of causes, whether arising out of claims based upon contract, warranty, negligence, strict liability shall be, in the aggregate, limited to an amount no greater than the total fee amount under this agreement.
12. **OWNERSHIP OF WORK PRODUCT.** CLIENT shall be the owner of the Deliverables delivered to the CLIENT, subject to the following reserved rights of RRS: (1) RRS is the sole owner of all analytical concepts and protocols contained in or used to develop those Deliverables, (2) RRS is the sole owner of any data included in those Deliverables that was collected by RRS other than in performing its work under this Agreement and (3) RRS may include the data collected in performing its work under this Agreement in the general database where all data is held confidentially and in aggregate.
13. **PRE-EXISTING INTELLECTUAL PROPERTY.** RRS is, and shall remain, the sole and exclusive owners of all right, title and interest in and to all data, know-how, analytical concepts, protocols, methodologies, software and other materials, provided by or used by RRS in connection with performing the services, in each case developed or acquired by RRS prior to the commencement or independently of this Agreement, including all intellectual property rights therein. RRS hereby grants the CLIENT a license to any Pre-Existing Intellectual Property to the extent it is incorporated, combined with, or otherwise necessary in the Deliverable.
14. **AUTHORIZATION TO USE CLIENT NAME, LOGOS, PROJECT MATERIALS.** CLIENT grants to RRS a non-exclusive, royalty free license to use CLIENT's name, logos, and related project materials for use in promotional materials and for marketing and advertising purposes unless otherwise specified in a non-disclosure agreement.
15. **COMPLETE AGREEMENT.** This agreement and its attachments constitute the full and complete agreement of RRS and CLIENT regarding the subject matter of this agreement, and no other agreements, written or oral shall apply. This agreement may be modified only by written agreement signed by both parties.
16. **GOVERNING LAW.** This agreement shall be governed by and construed in accordance with the laws of the State of Michigan.
17. **NONDISCRIMINATION.** RRS covenants not to discriminate against any employee or applicant for employment with respect to hire, tenure, terms, conditions or privileges of employment, or a matter directly or indirectly related to employment, because of race, color, religion, national origin, age, sex, height, weight, marital status, financial status or protected activity. In addition, RRS covenants not to discriminate against any employee or applicant for employment with respect to hire, tenure, terms, conditions or privileges of employment, or a matter directly or indirectly related to employment, because of a disability that is unrelated to the individual's ability to perform the duties of a particular job or position. A breach of these covenants may be regarded as a material breach of this agreement.

## ATTACHMENT A

### PROJECT PROTOCOLS FOR COVID-19 SAFETY

With the spread of the coronavirus or "COVID-19", RRS has adopted these protocols and has established a general COVID-19 Preparedness and Response for our everyday operations and a COVID-19 On-Site Safety Plan for all on-site field work with our clients. RRS draws guidance from the US Center for Disease Control and Prevention (CDC), Occupational Safety and Health Administration (OSHA) and other state, local and provincial public health guidance.

These Protocols will be incorporated into each contract for services by RRS until the CDC has determined that the COVID-19 pandemic has abated.

#### RRS STAFFING

With the increasing rate of COVID-19 cases, RRS cannot guarantee the ongoing availability of the specific staff proposed to complete this scope of work. RRS will communicate any key personnel changes to the client within five business days of a necessary staffing substitution; RRS will provide competent and qualified personnel to meet the scope of the project. But until the COVID-19 pandemic has abated, both RRS and the client acknowledge that the dynamics of our project are subject to change as a result of staffing changes due to COVID-19. Any project changes and/or short notice scheduling adjustments necessitated by COVID-19 considerations may require the project work plan, timeline, and budget to be modified.

#### TRAVEL RESTRICTIONS AND STAY AT HOME ORDERS

Due to the fluid and location-specific nature of travel restrictions and stay at home orders, both RRS and the client acknowledge that the dynamics of every project and all on-site work are subject to change. Any necessary project changes and/or scheduling adjustments as a result of travel restrictions or stay at home orders may require the project work plan, key personnel, timeline, and budget to be modified. RRS agrees to communicate any such project changes and/or scheduling changes as soon as reasonably possible. The client agrees to provide RRS with as much advance notice as is reasonably possible if any project work plan components, site specific COVID-19 concerns or scheduling adjustments are needed.

#### ON-SITE AND/OR FIELD WORK AT CLIENT LOCATION

For all on-site work at a client location, a RRS Safety Plan will be drafted, reviewed, approved and signed by both RRS and the client in advance of on-site travel. The Safety Plan will confirm all on-site safety and COVID-19 precautions including pre-trip, travel and on-site safety and protective measures to be taken by both RRS and the client. If at any time, the client stops or does not follow the approved Safety Plan, RRS staff will have the right to leave the client location due to the safety concern.

All on-site work contracts are subject to a COVID-19 contingency administrative fee to cover unexpected issues such as disruption of work on-site due to a potential COVID-19 exposure or positive COVID-19 case. The administrative fee will only be used as a contingency if a COVID-19 issue arises while RRS staff are on-site.

If in the event on-site work needs to be canceled due to COVID-19, the following will apply to the payment of services related to the on-site work.

- If the client cancels the on-site work in advance of RRS travel on-site, the client will only be responsible for the payment of time and materials (labor hours and expenses) expended up until the client cancels the on-site work.
- If the client cancels the on-site work while RRS is on-site at client location, the client will be responsible for payment of time and materials (labor hours and expenses) for all work conducted and scheduled to be conducted while on-site at client location.
- If RRS feels that the client is not properly following the Safety Plan and/or is concerned about the health and safety of RRS staff on-site at client location, RRS has the right to leave the client location due to the safety concerns. If this occurs, the client will only be responsible for the payment of time and materials (labor hours and expenses) for all work conducted while RRS was on-site at the client location.

#### FORCE MAJEURE CONDITION

The client and RRS each acknowledge that the COVID-19 pandemic constitutes a force majeure condition and that failure or omission by RRS to carry out or observe any of the provisions of its contract with the client as a result of the unavailability of staff, travel restrictions, stay at home orders or other effects of the COVID-19 pandemic shall not give rise to any claim against RRS or be deemed to be a breach of that contract by RRS. In the event that RRS is unable to carry out or observe any of the provisions of its contract with the client for such reasons, RRS will use all reasonable efforts to remove such reasons or mitigate the effects thereof, and upon removal and remedying of such reasons RRS resume the performance of its obligations.

July 21, 2023

Board of Trustees  
Southeastern Oakland County Water Authority

Subject: Investments – July 1, 2022 to June 30, 2023

Board Members:

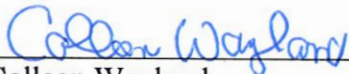
Attached is a list of investments made by the Authority during the fourth quarter of fiscal year 2022-2023. These investments comply with Act 79 of the Public Acts of 1979. The Authority's investment policy is to have 90% or more of all available funds invested. On June 30, 2023, the Authority had 99.9% of all funds invested and accruing interest.

The Board has authorized the General Manager to enter into agreements with Michigan First Credit Union, Flagstar, PNC, and the Oakland County Local Government Investment Pool for the investment of surplus funds as provided for in Public Act 367. The attached list details interest income from these investments. The following table summarizes interest income over the prior 10 fiscal years.


<b>Fiscal Year</b>	<b>Interest Earned</b>
2012/13	29,292
2013/14	42,005
2014/15	27,206
2015/16	25,148
2016/17	39,181
2017/18	61,359
2018/19	73,184
2019/20	80,659
2020/21	46,297
2021/22	31,033
2022/23 4 <sup>th</sup> Quarter	138,312

It is recommended that this report be received and filed and made a part of the Board record.

Submitted by:

  
Colleen Wayland  
Accounting & Finance Manager

Approved by:

  
Jeffrey A. McKeen, P.E.  
General Manager

Suggested Resolution: "That the investments report made by the Authority for July 1, 2022 to June 30, 2023 be received and filed and made a part of the Board record."

**SOCWA INVESTMENTS**  
**Fourth Quarter FY 22/23**

**Flagstar CDARS Account Summary**

<b>Account ID</b>	<b>Effective Date</b>	<b>Maturity Date</b>	<b>Opening Balance</b>	<b>Ending Balance</b>	<b>Yield</b>
1026104846	07/28/22	01/26/23	200,149.66	0.00	1.53813
1026188403	08/18/22	02/16/23	200,149.66	0.00	2.32288
1026240197	09/08/22	03/09/23	200,149.66	0.00	2.32288
1026373812	10/13/22	04/13/23	200,199.60	0.00	3.10154
1026442202	11/03/22	05/04/23	200,199.60	0.00	3.10154
1026512316	11/25/22	05/25/23	200,425.19	0.00	3.95115
1026722736	01/26/23	07/27/23	301,690.61	301,690.61	4.21037
1026800974	02/16/23	08/17/23	302,481.33	302,481.33	4.21037
1026875648	03/09/23	09/07/23	302,481.33	302,481.33	4.32538
1027048672	04/13/23	10/12/23	303,319.67	303,319.67	4.32538
1027153166	05/04/23	11/02/23	303,319.67	303,319.67	4.32538
1027236991	05/25/23	11/24/23	304,390.71	304,390.71	4.48806
<b>CDARS Total</b>				<b>1,817,683.32</b>	

<b>Interest Income by Account</b>	<b>July</b>	<b>August</b>	<b>September</b>	<b>October</b>	<b>November</b>	<b>December</b>	<b>January</b>	<b>February</b>	<b>March</b>	<b>April</b>	<b>May</b>	<b>June</b>	<b>Total Interest by Account</b>
1015 FLAGSTAR RECEIVING FUND	2.55	3.49	4.07	5.10	6.08	6.64	7.22	6.71	7.77	7.81	8.47	8.22	<b>74.13</b>
1015B FLAGSTAR ICS SWEEP	432.24	961.57	1,931.26	2,493.30	2,726.96	1,794.25	2,820.23	2,426.78	3,146.90	2,715.06	3,923.59	4,220.88	<b>29,593.02</b>
1020 FLAGSTAR O & M FUNDS	76.57	132.17	194.40	667.85	378.29	872.91	371.12	216.54	406.18	405.14	226.18	336.57	<b>4,283.92</b>
1040 MI FIRST BUSINESS MONEY MARKET	144.33	144.35	139.71	481.28	465.95	481.68	481.89	435.44	482.28	466.92	482.68	467.31	<b>4,673.82</b>
1045 Flagstar GLWA Escrow												113.88	<b>113.88</b>
1110 OAKLAND COUNTY INVESTMENT POOL	578.58	1,915.60	1,825.15	4,492.55	5,715.99	3,453.98	2,775.21	2,418.76	2,350.45	10,238.10	8,344.81	3,621.79	<b>47,730.97</b>
1115 FLAGSTAR SAVINGS	1,132.68	1,886.93	2,062.57	3,758.15	4,244.03	4,655.61	3,030.37	2,478.33	2,898.11	970.16	631.84	615.52	<b>28,364.30</b>
1105 FLAGSTAR CDARS	49.91	49.91	49.91	49.94	325.74	0.00	1,540.95	2,331.67	2,331.67	3,120.07	7,085.59	0.00	<b>16,935.36</b>
1234 MMRMA	0.00	0.00	737.73	0.00	0.00	773.41	0.00	0.00	687.63	0.00	0.00	0.00	<b>2,198.77</b>
1120 PNC INVESTMENT FUND	79.24	174.93	164.11	229.22	332.86	382.67	450.57	434.51	496.62	473.77	584.33	540.95	<b>4,343.78</b>
<b>Total Interest by Month</b>	<b>2,496.10</b>	<b>5,268.95</b>	<b>7,108.91</b>	<b>12,177.39</b>	<b>14,195.90</b>	<b>12,421.15</b>	<b>11,477.56</b>	<b>10,748.74</b>	<b>12,807.61</b>	<b>18,397.03</b>	<b>21,287.49</b>	<b>9,925.12</b>	<b>138,311.95</b>



August 9, 2023

***VIA ELECTRONIC MAIL***

Mr. Jeffrey McKeen, General Manager

General Manager

SOCWA

3910 W. Webster Road

Royal Oak, MI 48073

**Re: Quarterly Legal Report/SOCWA**

Dear Mr. McKeen:

This letter serves as the quarterly legal report. This report is also intended to set forth the expected legal work issues in the next quarter. As the next quarter progresses, there may be new issues that require attention.

**I. CURRENT PROJECTS**

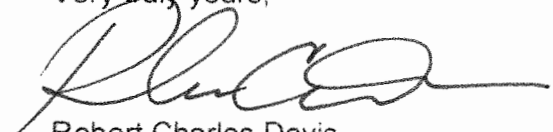
- Ongoing discussions and meetings with GLWA, representatives and attorneys on GLWA issues.
- Ongoing issues with GLWA on contract issues, rates and rate processes.
- Ongoing contract and agenda items as requested by administration.
- Ongoing issues and contracts for lead/copper municipal projects and implementation of process.
- Analyze and monitor litigation initiated by GLWA relating to Highland Park. Analyze for permissive joinder and/or judicial intervention under applicable Court Rules. Strategy with GLWA outside legal counsel.
- Analyze and monitor litigation by General Mills against GLWA. Communicate updates as necessary.
- Analyze water pressure district claims raised by Lear Corporation and related FOIA requests.

**II. NEXT QUARTER PROJECTS**

Aside from the above, there are currently no new projects for next quarter. There is no litigation, threatened or pending, directly relating to a SOCWA interest.

Should you have any questions and/or concerns, please do not hesitate to call.

Very truly yours,



Robert Charles Davis

July 24, 2023

Board of Trustees  
Southeastern Oakland County Water Authority

Subject: Amendment to Oakland County Infrastructure Planning Grant Agreement

Board Members:

SOCWA has an existing grant agreement with Oakland County through which we have received funding under their Critical Infrastructure Planning Grant program. The grant agreement was approved by the Board at the September 2022 Board meeting. Oakland County has requested that the Board approve the attached amendment to the grant agreement. Mr. Davis has reviewed and approved the proposed amendment. I am recommending that the Board approve the attached grant amendment and authorize me to execute the amendment.

Respectfully submitted,

Jeffrey A. McKeen, P.E.  
General Manager

Suggested Resolution: "That the Board approves Amendment 1 to the Agreement For Local Fiscal Recovery Fund Distribution Between Oakland County and SOCWA and authorizes the General Manager to execute the Amendment."

**AGREEMENT FOR LOCAL FISCAL RECOVERY FUND DISTRIBUTION BETWEEN  
OAKLAND COUNTY AND  
SOCWA**

**Amendment 1**

---

The Parties agree to amend the **AGREEMENT FOR LOCAL FISCAL RECOVERY FUND DISTRIBUTION BETWEEN OAKLAND COUNTY AND SOCWA**] (“Agreement”) as follows:

1. The following sentence will be added to the end of the first paragraph on the first page of the Agreement: “Notwithstanding any language to the contrary in the Agreement, Public Body is a grantee of the funds it received under the Agreement. Public Body shall comply with all requirements in the Agreement regardless of its classification as a grantee.”
2. Paragraph 5.f. under **PUBLIC BODY AFFIRMATIONS** will be deleted.
3. Paragraph 10. **COMPLIANCE WITH LAWS** will be modified to add subparagraph f. which states, “Public Body must comply with 2 C.F.R. Part D, Post Federal Award Requirements, being 200.300 et seq., where applicable.”
4. This Amendment will be effective on August 9, 2023\_\_\_\_\_.
5. All contractual provisions of the Agreement not otherwise affected by this Amendment shall remain in full force and effect.

**FOR AND IN CONSIDERATION** of the mutual assurances, promises, acknowledgments, set forth in this Amendment 1 and for other good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, the undersigned hereby execute this Amendment 1 on behalf of the Parties, and by doing so legally obligate and bind the Parties to the terms and conditions of this Amendment 1.

IN WITNESS WHEREOF, Jeffrey A. McKeen, General Manager hereby acknowledges that he/she has been authorized by a resolution of the SOCWA, a certified copy of which is attached, to execute this Amendment on behalf of Public Body and hereby accepts and binds Public Body to the terms and conditions of this Amendment.

EXECUTED: \_\_\_\_\_  
Jeffrey A. McKeen

DATE: \_\_\_\_\_

WITNESSED: \_\_\_\_\_  
Kim Tisler, Office Assistant

DATE: \_\_\_\_\_

IN WITNESS WHEREOF, David Woodward, Chairperson, Oakland County Board of Commissioners, hereby acknowledges that he has been authorized by a resolution of the Oakland County Board of Commissioners to execute this Amendment on behalf of Oakland County, and hereby accepts and binds Oakland County to the terms and conditions of this Amendment.

EXECUTED: \_\_\_\_\_

David Woodward, Chairperson  
Oakland County Board of Commissioners

DATE: \_\_\_\_\_

WITNESSED: \_\_\_\_\_

Oakland County Board of Commissioners  
County of Oakland

DATE: \_\_\_\_\_

July 24, 2023

Board of Trustees  
Southeastern Oakland County Water Authority

Subject: Increase Limit on Banking Pools

Board Members:

At the July Board meeting, the Board approved an aggregate limit of \$5 million between the Oakland County Local Government Investment Pool and the Michigan Cooperative Liquid Assets Securities System. I had originally proposed retaining the existing \$4 million limit on the Oakland County Pool and a new \$2 million limit on the MI CLASS pool, which would have resulted in a \$6 million total limit. I am requesting that the Board increase the aggregate limit to \$6 million for the two investment pools.

Respectfully submitted,

Jeffrey A. McKeen, P.E.  
General Manager

Suggested Resolution: "That the Board approves and aggregate limit of \$6 million between the Oakland County Local Government Investment Pool and the Michigan Cooperative Liquid Assets Securities System."

August 2, 2023

Board of Trustees  
SOCWA

Subject: Michigan Municipal Employees' Retirement System - Annual Meeting

Board Members:

The Annual Meeting of the Michigan Municipal Employees' Retirement System will be held on September 28 & 29 at the Detroit Marriott at the Renaissance Center in Detroit, Michigan.

It is proposed that the employee delegate represent SOCWA and attend the meeting.

It is recommended that the Board adopt the attached resolution, providing for the employee delegate to participate in the Michigan Municipal Employees' Retirement System Annual Meeting.

Submitted by:

---

Anne Farris  
Human Resources Associate

Approved by:

---

Jeffrey A. McKeen, P.E.  
General Manager

AF  
Attach.

Suggested Resolution: "That the attached resolution be adopted."

# SOCWA

## PROPOSED RESOLUTION

### Delegate and Alternate Annual Retirement System Meeting

WHEREAS, the Michigan Municipal Employees' Retirement System will hold its Annual Meeting at the Detroit Marriott at the Renaissance Center in Detroit, Michigan, on September 28 & 29, 2023, and

WHEREAS, SOCWA employees have elected by secret ballot Colette Farris as delegate to represent the employees of SOCWA at this Annual Meeting;

NOW THEREFORE BE IT RESOLVED, that the Secretary be directed to notify the Michigan Municipal Employees' Retirement System of the employees' selection of the SOCWA Delegate.



August 3, 2023

Boards of Trustees  
Southeastern Oakland County Water Authority  
SOCRRA

Subject: General Manager Search Process

Board Members:

Colette Farris, Bob Davis, Teresa Newman and I (“Staff”) have completed the General Manager position profile, which is attached. We have begun posting the position in a number of different venues and we are reaching out to a number of potential candidates. Please feel free to forward the position profile to anyone that you think would be a good candidate. We have asked for resumes to be submitted by August 31, 2023.

Our tentative outline for the remainder of the General Manager search is:

1. Staff will work with the joint Advisory Committees to review all applicants in a public meeting and to develop a short list of 3-5 candidates for interviews by the full Boards. Staff will perform a thorough background check, with candidate permission, on the short-listed candidates.
2. A special joint meeting of both Boards will be held, most likely in September, to interview the short-listed candidates:
  - a. All Board members, currently 16 individuals, Bob Davis, Teresa Newman, Colette Farris and I will participate in the interviews.
  - b. The interviews will be conducted in an open meeting. Candidates will be requested not to attend interviews of other candidates.
  - c. Common interview questions will be designed by Staff and reviewed by both Boards.
  - d. Interview questions will be assigned to specific Board members for each interview. Not all Board members will be asking questions in each interview.
  - e. Staff will design a candidate evaluation form to be filled out by Board members and Staff within 48 hours of each interview.
  - f. Questions from candidates will be answered by the appropriate Board Chair.
  - g. Staff will compile the completed candidate evaluation forms and email a summary of the forms shortly after the interviews are completed.
3. A special joint meeting of both Boards will be held several days after the interview date.
  - a. Teresa Newman will lead a discussion of Board members and Staff to reach consensus on one candidate.
  - b. The Boards may determine if a second interview of some or all of the candidates would be appropriate.
  - c. Each Board will vote on the final candidate using established voting methodologies.

4. Teresa Newman and Bob Davis will conduct contract negotiations with the selected candidate within parameters established by the Boards using the existing General Manager contract as a template.
5. A special joint meeting of both Boards will be held following the completion of contract negotiations. Each Board will vote on the General Manager employment contract, see discussion below regarding an employment contract, using established voting methodologies.
6. Mr. McKeen will develop a transition plan for the new General Manager assuming a new General Manager start date of November 1, 2023.

Respectfully submitted,

Jeffrey A. McKeen, P.E.  
General Manager

Suggested Resolution: "That the report on the General Manager Search Process be received and filed."

**SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY (SOCWA)**  
**and**  
**SOUTHEASTERN OAKLAND COUNTY RESOURCE RECOVERY AUTHORITY (SOCRRA)**

Profile for the Position of  
**GENERAL MANAGER**

Resumes and supporting documents are requested no later than 4:00 p.m. EST August 31, 2023 to:

Teresa Newman

[Teresa@twnconsulting.com](mailto:Teresa@twnconsulting.com)

EQUAL OPPORTUNITY EMPLOYER

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## INTRODUCTION

This is a professional opportunity for the management of public services in two municipal authorities. One authority, as enabled by state law, services defined communities and provides a water supply service. The second authority, also enabled by state law, provides waste services for trash, recyclables, and yard waste to twelve municipalities in suburban Oakland County, north of Detroit. The General Manager is the chief administrative officer appointed by the two Boards of Trustees. The Boards are made up of representatives of the member municipalities as selected by each municipality. The Boards now seek a professional manager with technical knowledge, planning, and financial skills to assure continued high-quality management services and to position both authorities for future success. The General Manager must be able to communicate effectively with a wide range of individuals including Board members, member municipalities, utilities, contractors, consultants, and employees. The General Manager represents the Authorities before other governmental entities and public groups.

This recruitment profile outlines the experience, education, skills, abilities, and personal characteristics identified as either necessary or desirable for candidates for the General Manager of Southeastern Oakland County Water Authority (SOCWA) and Southeastern Oakland County Resource Recovery Authority (SOCRRA). It also includes a list of Opportunities and Challenges for each Authority.

Information about SOCWA and SOCRRA, the public services they provide, their structure and their employees are presented. Also included is general information about Oakland County to assist potential candidates in understanding the region.

The profile will be used as a guide in the recruitment process, providing specific criteria by which applications will be screened and individuals selected for final interview and appointment consideration.

All inquiries relating to the recruitment and selection process for the General Manager position are to be directed to the consultant working with the Authorities as listed on the cover of this profile.

## ABOUT THE POSITION

The General Manager is the Chief Administrator of both SOCWA and SOCRRA. The General Manager is responsible for the finances, human resources, service operations, technical planning, contracting of equipment, and the facilities of both Authorities. The General Manager recommends policy and procedures to the Boards and ensures that the Boards' policies and directives are implemented. The General Manager represents the Authorities before other governmental entities and public groups.

The General Manager works with a small, dedicated administrative staff that provides services to both organizations. The staff are committed to supporting a community-minded manager who is forward-thinking and ready for an exciting career that provides opportunities for innovation and improvements in infrastructure and sustainability efforts. Both the administrative staff and the union employees of SOCWA and SOCRRA have a history of long tenures with the Authorities.

**Supervision:** The General Manager carries out these functions with considerable independence according to established rules, regulations, procedures, and policy directives from the Boards. Performance is reviewed annually by the Boards. The General Manager is responsible for the supervision – either directly or indirectly – of all of the combined employees of the Authorities.

### **Examples of Essential Duties:**

- Develop and maintain up-to-date long-range goals, plans, and programs, including strategic planning of revenue, costs, maintenance and capital improvements over a multi-year period.
- Plan and organize programs and functions that provide the services established by the Boards.
- Develop and maintain productive relationships with Board members and community representatives.
- Carry out the policies adopted by the Boards.
- Plan, organize and administer the budgets of both Authorities.
- Communicate effectively with a wide variety of stakeholders.
- Prepare the agenda for Board meetings and follow up on actions taken by the Boards.
- Approve technical and financial parameters for projects.
- Recommend consultants to assist with engineering, legal, audit and other Authority work.
- Consult with attorneys regarding labor matters, liability cases and other legal matters.
- Participate in labor negotiations, grievances and arbitration procedures.
- Answer questions and discuss problems with members, elected officials and others.
- Evaluate and approve changes in organizational structure and staffing levels.

- Evaluate employees and determine compensation and benefits.
- Aggressive negotiation and participation in meetings and hearings regarding third party providers such as the Great Lakes Water Authority and private waste haulers as well as State legislative and regulatory entities.
- Attend meetings with city, village, county, township and state officials as required and as requested.
- Prepare press releases for information and participate in interviews by members of the press.
- Prepare reports and correspondence as required.
- Manage staff.
- Perform related duties as required.

**Compensation:** Salary is competitive and negotiable, depending on qualifications and experience. SOCWA/SOCRRA has an attractive and competitive fringe benefits package that includes a hybrid defined benefit/defined compensation pension plan through the Municipal Employees' Retirement System (MERS) as well as a Health Care Savings plan, voluntary 457 Retirement plan, medical insurance and dental/optical reimbursement accounts. These benefits have an estimated annual value of nearly \$45,000 in addition to the annual base salary range of \$115,000-\$135,000.

**Employment at Will:** The General Manager serves the Boards of both Authorities. The Boards expect to enter into an "at will" contract establishing salary, appraisal periods, vacation, pension benefits, and related conditions of employment.

**Performance Planning and Appraisal:** The General Manager can expect to meet with the Boards within six months of employment for the purpose of establishing mutually agreeable goals and performance measures. Performance appraisal based on such performance planning will be scheduled on an annual basis thereafter.

**Interview Process:** The final candidates will be invited for interviews with the Boards of SOCWA/SOCRRA.

## ABOUT THE CANDIDATE

### **Education and Professional Development**

- Bachelor's degree in public administration, engineering, business administration, or related field. Master's degree is desirable.
- Licensed Professional Engineer desirable, but not required.
- Minimum of five years of varied management experience.
- Demonstrated professional development such as memberships and training with related professional associations (APWA, AWWA, ICMA or similar).

### **Experience**

- Progressively increasing responsibility for organization, financial management of budgets at or above \$25 million, project management, and service delivery in an organization approaching the size and complexity of SOCWA/SOCRRA.
- Familiarity with solid waste recovery, management, transfer, composting, and contracts for collection and disposal, and with the laws and regulations affecting resource recovery in Michigan.
- Familiarity with recycling, community services, and contracts for bulk sales of recycled materials, including commodity pricing negotiations.
- Familiarity with water storage facilities, pumping facilities, transmission, and the purchase of water from a major regional source, and with the laws and regulations affecting public water systems.
- Experienced in managing the services and intergovernmental relationships of a public service organization in a highly political environment, with accountability to federal, state and local regulators (EPA, EGLE), elected officials, city officials, and Board members.
- Experience applying a range of public financing and accounting methods, including grants, for project design, construction, maintenance, and service delivery, and familiarity with required reports. Familiarity with rigorous public purchasing procedures and municipal audits.
- Experience with labor relations in a strong labor environment, as well as positive employee relations, including motivation and reward.
- Experience with successful, mutually beneficial relationships with other local jurisdictions, such as cities, villages, townships, and county government.

### **Working Style, Skills, Knowledge, and Abilities**

- Strategic vision and leadership ability to evaluate future directions and roles of SOCWA/SOCRRA, making recommendations to the Board and leading the staff through transitions.
- An understanding of the importance of positive public relations, including



communications with the public, member jurisdictions and the news media, in order to enhance the credibility of SOCWA/SOCRRA.

- An inclusive leadership style, supportive of professional staff and comfortable with a participative approach.
- A thorough approach to research, examining alternatives, and presenting well-documented and supported options and recommendations to the Boards.
- Demonstrated skills in interpersonal, written, and oral communications. Skilled at keeping stakeholders well informed, including Board members, member jurisdictions, contractors, and employees.
- Able to learn information systems including accounting, Microsoft Office applications, and proprietary scale software and web applications.
- Skill with management analysis, rate and revenue analysis, and organizational analysis that contributes to high levels of productivity and provides measures for the public.
- Involved with local, regional, state, and national public works issues and practices, with a network of knowledgeable, objective advisors.

### **Personal Characteristics**

- Unquestioned integrity and ethics. Demonstrates the highest standards of professional conduct.
- Strong work ethic.
- Customer service oriented, seeking continuous improvement while recognizing the limitations of the budget and schedules.
- Organized with the ability to guide priorities, goals, and directions.
- Demonstrates ability and willingness to listen and learn before introducing significant changes.
- Decisive yet supportive of the decisions of subordinates.
- Values an open rapport with subordinates and colleagues, respecting the talents and accomplishments of each and the value of their professional development.
- Good humored, thick skinned and a can-do attitude.

## ABOUT SOCWA

SOCWA was formed in 1952 to provide water service to its member communities of Berkley, Beverly Hills, Bingham Farms, Birmingham, Clawson, Huntington Woods, Lathrup Village, Pleasant Ridge, Royal Oak, Southfield, and Southfield Township. SOCWA also supplies water to Bloomfield Hills, Bloomfield Township, the Detroit Zoo, and the Rackham Golf Course. SOCWA supplies water to municipal water systems that serve a population of 250,000. SOCWA purchases all of its water from the Great Lakes Water Authority (GLWA). The purchased water is transported through SOCWA's water storage, pumping, and transmission facilities to about fifty municipal meter locations. The water is then provided to the individual water systems which are owned and operated by the member and customer communities.

SOCWA manages its purchase from GLWA in order to minimize peak water demands and thereby obtains a favorable water rate from GLWA. The water system is operated and controlled through SCADA and meter SCADA systems that are overseen by the SOCWA Control Room, which is staffed 24 hours a day.

SOCWA is governed by an eleven-member Board of Trustees with one member representing each of the constituent municipalities. Member voting power is based on individual community water consumption in the previous fiscal year. SOCWA is subject to FOIA, Open Meetings, and other governmental requirements.



## ABOUT SOCRRA

SOCRRA is a municipal corporation founded in the early 1950's. SOCRRA consists of twelve member municipalities with a total population of approximately 300,000 and covers an area of 75 square miles. SOCRRA provides one of Michigan's most comprehensive solid waste management systems to the residents of our member communities – Berkley, Beverly Hills, Birmingham, Clawson, Ferndale, Hazel Park, Huntington Woods, Lathrup Village, Oak Park, Pleasant Ridge, Royal Oak, and Troy.

SOCRRA is governed by a twelve-member Board of Trustees, one member representing each of the constituent municipalities. Member voting power is based on individual member municipality tonnage delivered to the Authority's facilities. SOCRRA is subject to FOIA, Open Meetings and other governmental requirements.

SOCRRA holds the contracts for the curbside collection of refuse, recycling and yard waste from the 122,000 households in its member communities. SOCRRA receives the collected refuse at its Transfer Station in Troy, compacts it into large trailers which are hauled to a private landfill for disposal. The collected single stream recyclable materials are brought to SOCRRA's Material Recovery Facility (MRF) in Troy to be processed into commodities that can be sold to purchasers of recycled materials. The MRF is designed to process about 35,000 tons of recyclables per year. The SOCRRA Compost site in Rochester Hills is a municipal composting operation that turns the collected yard waste material into compost that is redistributed to its member communities for its residents' use or sold to landscape companies.



## OPPORTUNITIES AND CHALLENGES

### SOCWA

- Application of Technology and Automation  
Recent advances in technology, automation, and artificial intelligence will have a major impact on SOCWA's operations. A long-term plan must be developed for the application of new technology to meet SOCWA's needs.
- Declining Water Sales  
Water sales have been on a long-term decline throughout both the SOCWA communities and the United States. This long-term trend has been accelerated by cost increases from GLWA. Strategies to respond to declining water sales must be developed. Possibilities include expansion of SOCWA, reduction in SOCWA operating costs, identifying new users and/or uses of water.
- Great Lakes Water Authority (GLWA)  
GLWA was established in 2016 and is SOCWA's sole provider of water under a long-term contract. GLWA maintains a robust Customer Outreach Program, within which SOCWA serves as an active leader and respected resource. SOCWA's philosophy has been to work with GLWA to encourage GLWA to be more customer focused, more efficient and to have lower rate increases. This philosophy has been only partially effective. Possible areas to explore include SOCWA expansion, a stronger relationship between SOCWA and the GLWA Board and developing a more assertive customer community through GLWA's Customer Outreach program.
- SOCWA Facilities  
SOCWA facilities were designed for significantly higher water sales, both peak day/hour and annual sales. SOCWA facilities need to be reevaluated in the current environment of declining water sales and increasing costs. Possible areas to explore include facility abandonment, use of facilities for other purposes including solar power generation, and expansion of SOCWA to use existing facilities more intensively.

### SOCRRA

- SOCRRA Membership Agreements in Place Until June 2027  
Membership agreements between SOCRRA and its municipal members are in place until June 2027. New membership agreements must be developed and approved by all twelve member communities.
- Service Provider Contracts in Place Until June 2027  
SOCRRA contracts with private waste haulers for the collection of recycling, refuse and yard waste and the hauling and disposal of refuse from the transfer station. These contracts are in place until June 2027. A process must be conducted to develop long-term replacements of these contracts to meet the needs of the member communities.

- Expansion and Provision of SOCRRA Services

Services provided by SOCRRA and how those services are provided must be continually reevaluated based on residents' expectations, technology developments, cost, and changes in State of Michigan regulations.

- Material Recovery Facility (MRF) Operation and Function

Since SOCRRA's MRF was redesigned in 2018, the available MRF technology, the mix of incoming materials, and the cost and availability of labor have changed significantly. A long-term plan must be developed to position SOCRRA's MRF for a future that is substantially different from the assumptions that were used when the MRF was designed. This plan should also explore developing operating alliances with neighboring communities.

- Application of Technology and Automation

Recent advances in technology, automation, and artificial intelligence will have a major impact on SOCRRA's operations and services. A long-term plan must be developed for the application of new technology to meet the needs of SOCRRA residents.

- Uses of SOCRRA Property and Facilities

- SOCRRA owns a former incinerator site in Madison Heights that is licensed as a waste transfer facility but is not currently being used for the permitted purposes. A plan for the use or disposal of this site must be developed.
- The use of SOCRRA's Compost site in Rochester Hills is currently limited to the composting of only "yard waste" through a Consent Judgment. This limitation needs to be amended or revised to allow SOCRRA to compost food scraps.
- SOCRRA also owns rental homes and vacant property adjacent to the Compost Site. These properties are currently used as a buffer to SOCRRA's compost operations. Alternative uses for these properties need to be explored including solar power generation.

## ABOUT OAKLAND COUNTY

Oakland County is home to nearly 1.3 million people in 62 cities, villages, and townships across 907 square miles. The economy employs 647,000 people and the largest industries are Manufacturing, Healthcare, and Social Assistance, and Professional, Scientific, and Technical Services.

Oakland County residents have access to 17 degree-granting colleges and universities. There are 485 institutions of art, culture, and the humanities in the county. Residents and visitors enjoy nearly 90,000 acres of parkland, 65 miles of trails, 76 public and private golf courses, and 1,450 lakes, rivers, and streams, and the headwaters of five river systems.

Lakes, parks, shopping, sports, cultural activities, education, medical care, and neighborhoods where you can walk all add up to a county with livable communities where you can raise your family, build a home, and find many ways to spend your leisure time.

SOCWA and SOCRRA member communities are in the Southeastern region of Oakland County, just north of Detroit – a vibrant and diverse cultural city with museums, music venues, major sports teams, and a lively restaurant scene.



**SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY  
WATER CONSUMPTION  
AVERAGE M.G. PER DAY**

**July 2023**

<b><u>Purchase from Detroit</u></b>	<b><u>2020</u></b>	<b><u>2021</u></b>	<b><u>2022</u></b>	<b><u>2023</u></b>
Buchanan	0.00	0.00	0.00	0.00
Lamb	0.99	0.18	1.51	0.59
Shafter	3.33	0.34	1.54	1.54
12 Mile	9.61	10.13	10.89	11.78
14 Mile	14.05	11.21	11.39	9.13
16 Mile	2.46	1.37	2.72	1.36
Bloomfield Hills	2.75	1.82	2.23	2.04
Bloomfield Twp	<u>11.07</u>	<u>5.66</u>	<u>9.10</u>	<u>7.02</u>
<b>Total:</b>	44.26	30.71	39.38	33.46
<b><u>Sold by Authority</u></b>				
Berkley	1.29	0.97	1.17	1.07
Beverly Hills	1.62	1.04	1.27	1.13
Bingham Farms	0.49	0.32	0.44	0.35
Birmingham	4.39	3.07	3.80	3.33
Bloomfield Hills	2.75	1.82	2.49	2.04
Bloomfield Twp	11.96	6.27	9.81	7.73
Clawson	0.82	0.80	0.90	0.81
Huntington Woods	0.80	0.54	0.74	0.57
Lathrup Village	0.59	0.48	0.49	0.34
Pleasant Ridge	0.42	0.29	0.39	0.30
Royal Oak	6.99	5.21	7.16	6.05
Southfield	11.83	9.57	10.66	9.64
Detroit (Zoo & Rackham)	<u>0.58</u>	<u>0.36</u>	<u>0.50</u>	<u>0.40</u>
<b>Total:</b>	44.53	30.74	39.82	33.76
<b>Water Sales Over or Under Water Purchased</b>	<b>0.27</b>	<b>0.03</b>	<b>0.44</b>	<b>0.30</b>
<b>Per Cent</b>	<b>0.61%</b>	<b>0.10%</b>	<b>1.12%</b>	<b>0.90%</b>

**SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY**  
**INCOME STATEMENT**  
**07/01/23 - 07/31/23**

	<b>Period Actual</b>	<b>Period Budget</b>	<b>Variance</b>
<b>REVENUES</b>			
SALE OF WATER MEMBERS	1,874,687.28	2,209,459.00	(334,771.72)
SALE OF WATER OTHERS	1,323,308.46	1,794,052.00	(470,743.54)
<b>TOTAL SALE OF WATER REVENUES</b>	<b>3,197,995.74</b>	<b>4,003,511.00</b>	<b>(805,515.26)</b>
RENTALS	6,395.10	6,395.10	0.00
WATER ANALYSIS & MISC	0.00	1,000.00	(1,000.00)
INTEREST ON INVESTMENTS	17,446.31	12,500.00	4,946.31
GRANT REVENUE	0.00	0.00	0.00
<b>TOTAL OTHER REVENUES</b>	<b>23,841.41</b>	<b>19,895.10</b>	<b>3,946.31</b>
<b>TOTAL REVENUES</b>	<b>3,221,837.15</b>	<b>4,023,406.10</b>	<b>(801,568.95)</b>
LEAD SERVICE REPLACEMENT	0.00	250,000.00	(250,000.00)
<b>EXPENSES</b>			
PURCHASE OF WATER FOR RESALE	0.00	0.00	0.00
POWER, PUMPING & GROUNDS WEBSTER	45,543.73	63,788.34	(18,244.61)
POWER, PUMPING & GROUNDS	9,488.59	29,644.68	(20,156.09)
COMPUTER OPERATIONS	10,440.22	9,083.00	1,357.22
PURIFICATION	5,553.74	12,877.08	(7,323.34)
METERS & MAINS	8,603.78	21,916.48	(13,312.70)
ADMINISTRATION & GENERAL	60,835.29	132,650.00	(71,814.71)
IN TRANSIT	2,363,270.21	2,844,000.00	(480,729.79)
<b>TOTAL EXPENSES</b>	<b>2,503,735.56</b>	<b>3,113,959.58</b>	<b>(610,224.02)</b>
LEAD SERVICE LINE REPLACEMENT	0.00	190,000.00	(190,000.00)
<b>CURRENT PERIOD INCOME</b>	<b>718,101.59</b>	<b>909,446.52</b>	<b>(191,344.93)</b>



## SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY

Water Supplier Bacteriological Analysis Report for the Michigan Department of Environmental Quality

System Name: S.O.C.W.A. WSSN-6150

Oakland County, Michigan

Month: **July 2023**

# of Weeks: **4**

Community	Date:	07/06/23	Date:	07/13/23	Date:	07/20/23	Date:	07/27/23	Date:	07/27/23	Date:	07/27/23
(Sample Location)	Site No.	Cl <sub>2</sub>	P/A	Cl <sub>2</sub>	P/A	Cl <sub>2</sub>	P/A	Cl <sub>2</sub>	P/A	Cl <sub>2</sub>	P/A	P/A
<b>City of Berkley (WSSN #0630)</b>												
Einstein Bagel	27350 Woodward Ave.	BE-1	0.70	A	0.70	A	0.70	A	0.70	A		
Auto One	3080 11 Mile Rd.	BE-2	0.70	A	0.70	A	0.70	A	0.70	A		
DPW Building	3226 Bacon St.	BE-3	0.70	A	0.70	A	0.70	A	0.70	A		
Public Safety Building	2395 12 Mile Rd.	BE-4	0.70	A	0.70	A	0.70	A	0.70	A		
<b>Weekly Average</b>			0.70		0.70		0.70		0.70		#DIV/0!	<b>0.70</b>
<b>Village of Beverly Hills (WSSN #0690)</b>												
Valvoline Oil Change	31005 Greenfield Rd.	BH-1	0.70	A	0.70	A	0.70	A	0.70	A		
Public Safety Building	18600 W. 13 Mile Rd.	BH-2	0.60	A	0.60	A	0.60	A	0.60	A		
Northbrook Church	22055 W. 14 Mile Rd.	BH-3	0.70	A	0.70	A	0.70	A	0.70	A		
<b>Weekly Average</b>			0.67		0.67		0.67		0.67		#DIV/0!	<b>0.67</b>
<b>Village of Bingham Farms (WSSN #0715)</b>												
Tel Bingham Offices	30100 Telegraph Rd.	BF-1	0.70	A	0.70	A	0.70	A	0.70	A		
Butzel Long Building	32270 Telegraph Rd.	BF-2	0.70	A	0.70	A	0.70	A	0.70	A		
<b>Weekly Average</b>			0.70		0.70		0.70		0.70		#DIV/0!	<b>0.70</b>
<b>City of Birmingham (WSSN #0730)</b>												
D.R.S.	925 Eton St.	BI-1	0.70	A	0.70	A	0.70	A	0.70	A		
Adams Fire Station	572 Adams Rd.	BI-2	0.60	A	0.60	A	0.60	A	0.60	A		
Police Station	151 Martin St.	BI-3	0.50	A	0.50	A	0.50	A	0.50	A		
Chesterfield Fire Station	1600 W. Maple Rd.	BI-4	0.60	A	0.60	A	0.60	A	0.60	A		
Chanelle Pastry	159 Eton	BI-5	0.70	A	0.70	A	0.70	A	0.70	A		
<b>Weekly Average</b>			0.62		0.62		0.62		0.62		#DIV/0!	<b>0.62</b>
<b>City of Clawson (WSSN #1440)</b>												
Auger's Collision	726 S. Rochester Rd.	CL-1	0.70	A	0.70	A	0.70	A	0.70	A		
Police Station	425 Livernois Rd.	CL-2	0.60	A	0.60	A	0.60	A	0.60	A		
DPW Building	635 Elmwood Ave.	CL-3	0.70	A	0.70	A	0.70	A	0.70	A		
National Coney	1331 Maple Rd.	CL-4	0.70	A	0.70	A	0.70	A	0.70	A		
			0.68		0.68		0.68		0.68		#DIV/0!	<b>0.68</b>
<b>City of Huntington Woods (WSSN #3310)</b>												
Community Center	26325 Scotia St.	HW-1	0.70	A	0.70	A	0.70	A	0.70	A		
H.W. D.P.W.	12795 W. 11 Mile Rd.	HW-2	0.70	A	0.70	A	0.70	A	0.70	A		

Community			Date:	07/06/23	Date:	07/13/23	Date:	07/20/23	Date:	07/27/23	Date:	
(Sample Location)		Site No.	Cl <sub>2</sub>	P/A	Cl <sub>2</sub>	P/A	Cl <sub>2</sub>	P/A	Cl <sub>2</sub>	P/A	Cl <sub>2</sub>	P/A
Rackham Golf Course	10100 W. 10 Mile Rd.	HW-3	0.60	A	0.70	A	0.70	A	0.70	A		
			0.67		0.70		0.70		0.70		#DIV/0!	0.69
<b>City of Lathrup Village (WSSN #3800)</b>												
DPW	19101 12 Mile Rd.	LV-1	0.70	A	0.70	A	0.70	A	0.70	A		
Hellenic Coney Island	27000 Evergreen Rd.	LV-2	0.70	A	0.70	A	0.70	A	0.70	A		
Lathrup City Hall	27400 Southfield Rd.	LV-3	0.70	A	0.70	A	0.70	A	0.70	A		
			0.70		0.70		0.70		0.70		#DIV/0!	0.70
<b>City of Pleasant Ridge (WSSN #5390)</b>												
D.P.W.	92 Amherst St.	PR-1	0.70	A	0.70	A	0.70	A	0.70	A		
Sunoco Station	23701 Woodward Ave.	PR-2	0.70	A	0.70	A	0.70	A	0.70	A		
Community Center	4 Ridge Rd.	PR-3	0.70	A	0.70	A	0.70	A	0.70	A		
			0.70		0.70		0.70		0.70		#DIV/0!	0.70

Cl<sub>2</sub> (Chlorine measured in mg/L)

P/A (Presence/Absence 100 mL/sample)

**City of Royal Oak (WSSN #5830)**

Subway	1411 11 Mile Rd.	RO-1	0.70	A	0.70	A	0.70	A	0.70	A		
Fire Station 6 <sup>th</sup> & Troy	216 6 <sup>th</sup> St.	RO-2	0.70	A	0.70	A	0.70	A	0.70	A		
McPeeks Citgo	1702 Crooks Rd.	RO-3	0.70	A	0.70	A	0.70	A	0.70	A		
Fire Station Wood/13	31000 Woodward Ave.	RO-4	0.60	A	0.60	A	0.60	A	0.60	A		
Midas Muffler	32700 Woodward Ave.	RO-5	0.70	A	0.70	A	0.70	A	0.70	A		
Brakes & More	2400 14 Mile Rd.	RO-6	0.70	A	0.70	A	0.70	A	0.70	A		
McDonald's	3300 Rochester Rd.	RO-7	0.70	A	0.70	A	0.70	A	0.70	A		
Howie Glass	940 Campbell Rd.	RO-8	0.70	A	0.70	A	0.70	A	0.70	A		
BP Gas	30875 Woodward Ave	RO-9	0.70	A	0.70	A	0.70	A	0.70	A		
Dunkin Donuts	1700 14 Mile	RO-10	0.70	A	0.70	A	0.70	A	0.70	A		
Sunoco	4738 Rochester Rd.	RO-11	0.70	A	0.70	A	0.70	A	0.70	A		
Burger King	1711 Main St.	RO-12	0.70	A	0.70	A	0.70	A	0.70	A		
RO DPS	1600 Campbell Rd.	RO-13	0.60	A	0.50	A	0.50	A	0.50	A		
Belle Tire	200 Stephenson Hwy	RO-14	0.70	A	0.70	A	0.70	A	0.70	A		
Shell Gas	110 Washington St.	RO-15	0.70	A	0.70	A	0.70	A	0.70	A		
			0.69		0.68		0.68		0.68		#DIV/0!	0.68

**City of Southfield (WSSN #6160)**

Dunkin Donuts	22111 Greenfield Rd.	SO-1	0.70	A	0.70	A	0.70	A	0.70	A		
Marathon Gas	20020 8Mile Rd.	SO-2	0.60	A	0.60	A	0.60	A	0.60	A		
JAX Car Wash	27000 8 Mile Rd.	SO-3	0.70	A	0.70	A	0.70	A	0.70	A		
Midas Muffler	24945 Telegraph Rd.	SO-4	0.70	A	0.70	A	0.70	A	0.70	A		
Comfort Suites	24977 Northwestern	SO-5	0.70	A	0.70	A	0.70	A	0.70	A		

Community			Date:	07/06/23	Date:	07/13/23	Date:	07/20/23	Date:	07/27/23	Date:	
(Sample Location)		Site No.	Cl <sub>2</sub>	P/A	Cl <sub>2</sub>	P/A	Cl <sub>2</sub>	P/A	Cl <sub>2</sub>	P/A	Cl <sub>2</sub>	P/A
Walgreens	28901 Greenfield Rd.	SO-6	0.70	A	0.70	A	0.70	A	0.70	A		
Midas Muffler	26969 Greenfield Rd.	SO-7	0.70	A	0.70	A	0.70	A	0.70	A		
OCRC Garage	27900 Clara Ln.	SO-8	0.70	A	0.70	A	0.70	A	0.70	A		
JAX Car Wash	28845 Telegraph Rd.	SO-9	0.60	A	0.60	A	0.60	A	0.60	A		
Ted Lindsey Center	30503 Greenfield Rd.	SO-10	0.70	A	0.70	A	0.70	A	0.70	A		
Mobil Gas 9 Mile	18300 9 Mile Rd.	SO-11	0.70	A	0.70	A	0.70	A	0.70	A		
Stop & Go	20041 12 Mile Rd.	SO-12	0.70	A	0.70	A	0.70	A	0.70	A		
BP Gas	19995 9 Mile Rd.	SO-13	0.70	A	0.70	A	0.70	A	0.70	A		
Stacker-Z	23145 Lahser Rd.	SO-14	0.70	A	0.70	A	0.70	A	0.70	A		
Marriott	27027 Northwestern	SO-15	0.70	A	0.70	A	0.70	A	0.70	A		
Hayes Mkt.	22580 Telegraph Rd.	SO-16	0.70	A	0.70	A	0.70	A	0.70	A		
7-Eleven	26355 Telegraph Rd.	SO-17	0.70	A	0.70	A	0.70	A	0.70	A		
Burger King	26211 12 Mile Rd.	SO-18	0.70	A	0.70	A	0.70	A	0.70	A		
Mobil Gas 13 Mile	30915 Southfield Rd.	SO-19	0.70	A	0.70	A	0.70	A	0.70	A		
McDonalds	30161 Southfield Rd.	SO-20	0.70	A	0.70	A	0.70	A	0.70	A		
			0.69		0.69		0.69		0.69		#DIV/0!	<b>0.69</b>

Community			Date:	07/06/23	Date:	07/13/23	Date:	07/20/23	Date:	07/27/23	Date:	
(Sample Location)		Site No.	Cl <sub>2</sub>	P/A	Cl <sub>2</sub>	P/A	Cl <sub>2</sub>	P/A	Cl <sub>2</sub>	P/A	Cl <sub>2</sub>	P/A
<b>SOCWA Entry Points (WSSN #6150)</b>												
Livernois Pump Station	224 Livernois Rd.	WA-1	0.80	A	0.60	A	0.70	A	0.70	A		
Lamb Pump Station	21101 Greenfield Rd.	WA-2	0.60	A	0.50	A	0.70	A	0.70	A		
Webster Pump Station	3910 W. Webster Rd.	WA-3	0.70	A	0.70	A	0.80	A	0.80	A		
**from Webster 10 MG	3910 W. Webster Rd.	WA-4	0.60	A	0.60	A	0.60	A	0.60	A		
**from Webster 7.5 MG	3910 W. Webster Rd.	WA-5	0.70	A	0.60	A	0.50	A	0.50	A		
Gare Pump Station	24570 W. 12 Mile Rd.	WA-6	0.80	A	0.80	A	0.80	A	0.80	A		
**from Gare 4.5 MG	24570 W. 12 Mile Rd.	WA-7	0.60	A	0.60	A	0.60	A	0.60	A		
14 Mile Pump Station	16111 W. 14 Mile Rd.	WA-8	0.80	A	0.80	A	0.80	A	0.80	A		
**from 14 Mile 5.0 MG	16111 W. 14 Mile Rd.	WA-9	0.60	A	0.60	A	0.60	A	0.60	A		
Samoset Elevated Tank	2721 Samoset Rd.	WA-10	0.80	A	0.80	A	0.80	A	0.80	A		
Oliver Pump Station	2443 Oliver Rd.	WA-11	0.80	A	0.80	A	0.80	A	0.80	A		
Buchanan Pump Station	24250 W. 8 Mile Rd.	WA-12	0.30	A	0.30	A	0.30	A	0.30	A		
**from Buchanan 2.5 MG	24250 W. 8 Mile Rd.	WA-13	OOS	OOS	OOS	OOS	OOS	OOS	OOS	OOS		
			0.68		0.64		0.67		0.67		#DIV/0!	0.66
<b>Metered Connections</b>												
Detroit Zoo	8450 W. Ten Mile Rd.	MC-1	0.70	A	0.70	A	0.70	A	0.70	A		
Beaumont Hospital	1301 13 Mile Rd.	MC-2	0.70	A	0.70	A	0.70	A	0.70	A		
			0.70		0.70		0.70		0.70			0.70
<b>Total: Routine Municipal Samples</b>				75		75		75		75		
<b>Total: Water Main Construction &amp; Misc.</b>				0		5		1		3		
<b>Total: Samples for Month:</b>	<b>309</b>			75		80		76		78		

Method of Analysis: Analyzed per "STANDARD METHODS-for the Examination of Water and Wastewater"

Part No. 9223 B. Enzyme Substrate Test.

Examined by: Laurence Westmore

Date:

