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St. Clair CountyGASB 45 Actuarial Valuation
As of December 31, 2014

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Table of Contents

	Page
Certification	1
Executive Summary	3
GASB Disclosures FY 2015 GASB Results	6
Projected FY 2016 GASB Results	8
Schedule of Funding Progress	10
Schedule of Employer Contributions Historical Annual OPEB Cost	11 12
HISTORICAL ANNUAL OPER COST	12
Reconciliation of Actuarial Accrued Liability (AAL)	13
Asset Information	14
Health Care Trust Projection	17
Employer Contribution Cash Flow Projections	18
Substantive Plan Provisions	20
Actuarial Methods and Assumptions	24
Summary of Plan Participants	29
Appendix	34
Comparison of Participant Demographic Information	35
Glossary	36
Decrements Exhibit	37
Retirement Rates Exhibit	38
Illustrations of GASB Calculations	39
Definitions	41



December 4, 2015

Tami Rumsey St. Clair County 200 Grand River Avenue, Ste. 206 Port Huron, MI 48060

This report summarizes the GASB actuarial valuation for St. Clair County as of December 31, 2014. To the best of our knowledge, the report presents a fair position of the funded status of the plan in accordance with GASB Statement No. 45 (Accounting and Financial Reporting by Employers for Post-Employment Benefits Other Than Pensions).

The information presented herein is based on the actuarial assumptions and substantive plan provisions summarized in this report and participant information furnished to us by the Plan Sponsor. We have reviewed the employee census provided by the Plan Sponsor for reasonableness when compared to the prior information provided but have not audited the information at the source, and therefore do not accept responsibility for the accuracy or the completeness of the data on which the information is based. When relevant data may be missing, we may have made assumptions we feel are neutral or conservative to the purpose of the measurement. We are not aware of any significant issues with and have relied on the data provided.

The discount rate and other economic assumptions have been selected by the Plan Sponsor. Demographic assumptions have been selected by the Plan Sponsor with the concurrence of Nyhart. In our opinion, the actuarial assumptions are individually reasonable and in combination represent our estimate of anticipated experience of the Plan. All calculations have been made in accordance with generally accepted actuarial principles and practice.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following:

- plan experience differing from that anticipated by the economic or demographic assumptions;
- changes in economic or demographic assumptions;
- increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period); and
- changes in plan provisions or applicable law.

We did not perform an analysis of the potential range of future measurements due to the limited scope of our engagement.

To our knowledge, there have been no significant events prior to the current year's measurement date or as of the date of this report that could materially affect the results contained herein.

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Neither Nyhart nor any of its employees has any relationship with the plan or its sponsor that could impair or appear to impair the objectivity of this report. Our professional work is in full compliance with the American Academy of Actuaries "Code of Professional Conduct" Precept 7 regarding conflict of interest. The undersigned meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Should you have any questions please do not hesitate to contact us.

Randy Gomez, FSA, MAAA Consulting Actuary Evi Laksana, ASA, MAAA Valuation Actuary

Summary of Results

Presented below is the summary of GASB 45 results as of December 31, 2014 compared to the prior year as shown in the County's Notes to Financial Statement.

	As of December 31, 2013	 As of December 31, 2014
Actuarial Accrued Liability	\$ 125,538,349	\$ 125,951,254
Actuarial Value of Assets	\$ 35,159,413	\$ 37,543,635
Unfunded Actuarial Accrued Liability	\$ 90,378,936	\$ 88,407,619
Funded Ratio	28.0%	29.8%
	FY 2014 ¹	FY 2015
Annual Required Contribution	\$ 10,420,633	\$ 10,682,722
Annual OPEB Cost	\$ 8,075,428	\$ 8,083,364
Annual Employer Contribution	\$ 2,900,392	\$ 1,118,000²
	As of December 31, 2014	As of December 31, 2015
Net OPEB Obligation	\$ 64,483,183	\$ 71,448,547
	As of December 31, 2014	As of December 31, 2015
Active Participants	725	693
Total Retiree Participants	578	576

The active participants' number above may include active employees who currently have no health care coverage. Refer to Summary of Participants section for an accurate breakdown of active employees with and without coverage.

¹ Based on the Post-employment Health Care Plan Notes to the Financial Statements as of December 31, 2014 as shown in the County's Comprehensive Annual Financial Report.

² Estimated annual employer contribution based on the average of percentage of Annual Required Contribution contributed in fiscal years 2012 through 2014 by location.

Below is a breakdown of total GASB 45 liabilities allocated to past, current, and future service as of December 31, 2014 compared to the prior year.

	As of I	December 31, 2013	As of L	As of December 31, 2014		
Present Value of Future Benefits	\$	156,087,242	\$	155,145,293		
Active Employees		83,565,315		84,258,544		
Retired Employees		72,521,927		70,886,749		
Actuarial Accrued Liability	\$	125,538,349	\$	125,951,255		
Active Employees		53,016,422		55,064,506		
Retired Employees		72,521,927		70,886,749		
Normal Cost	\$	3,050,721	\$	2,999,097		
Future Normal Cost	\$	27,498,172	\$	26,194,941		

Present Value of Future Benefits is the amount needed as of December 31 to fully fund the County's retiree health care subsidies for existing and future retirees and their dependents assuming all actuarial assumptions are met.

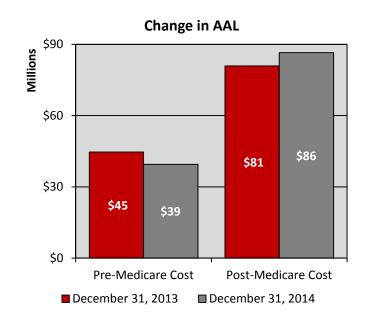
Actuarial Accrued Liability is the portion of PVFB considered to be accrued or earned as of December 31. This amount is a required disclosure in the Required Supplementary Information section.

Normal Cost is the portion of the total liability amount that is attributed and accrued for current year's active employee service by the actuarial cost method.

Future Normal Cost is the portion of the total liability amount that is attributed to the future employee service by the current year's valuation by the actuarial cost method.

Below is a breakdown of total GASB 45 Actuarial Accrued Liability (AAL) allocated to pre and post Medicare eligibility. The liability shown below includes explicit (if any) and implicit subsidies. Refer to the Substantive Plan Provisions section for complete information on the Plan Sponsor's GASB subsidies.

Actuarial Accrued Liability (AAL)	As o	f December 31, 2013	As	of December 31, 2014
Active Pre-Medicare	\$	24,276,232	\$	23,333,289
Active Post-Medicare		28,740,190		31,731,217
Total Active AAL	\$	53,016,422	\$	55,064,506
Retirees Pre-Medicare	\$	20,374,249	\$	16,118,766
Retirees Post-Medicare		52,147,678		54,767,983
Total Retirees AAL	\$	72,521,927	\$	70,886,749
Total AAL	\$	125,538,349	\$	125,951,255



Development of Annual Required Contribution (ARC) For Fiscal Year 2015

Required Supplementary Information	Total	St. Clair County	_	Mental Health	_	Road Commission
Expected AAL as of December 31, 2014	\$ 125,951,254	\$ 82,431,355	\$	18,695,889	\$	24,824,010
Expected AVA as of December 31, 2014	(37,543,635)	(24,027,124)		(12,285,111)		(1,231,400)
Expected Unfunded AAL (UAAL)	\$ 88,407,619	\$ 58,404,231	\$	6,410,778	\$	23,592,610
Funded Ratio	29.8%	29.1%		65.7%		5.0%
Covered payroll	\$ 36,573,262	\$ 22,286,492	\$	10,389,722	\$	3,897,048
UAAL as a % of covered payroll	241.7%	262.1%		61.7%		605.4%

Annual Required Contribution	Total	St. Clair County	-	Mental Health	_	Road Commission
Normal cost as of beginning of year	\$ 2,999,097	\$ 1,873,493	\$	706,458	\$	419,146
Reduction for employee contributions	(391,847)	(391,847)		0		0
Net normal cost	\$ 2,607,250	\$ 1,481,646	\$	706,458	\$	419,146
Amortization of the UAAL	7,566,771	5,358,854		471,762		1,736,155
Total normal cost and amortization payment	\$ 10,174,021	\$ 6,840,500	\$	1,178,220	\$	2,155,301
Interest to end of year	508,701	342,025		58,911		107,765
Total Annual Required Contribution (ARC)	\$ 10,682,722	\$ 7,182,525	\$	1,237,131	\$	2,263,066

Annual Required Contribution

(ARC) is the annual expense recorded in the income statement under GASB 45 accrual accounting. It replaces the cash basis method of accounting recognition with an accrual method. The GASB 45 ARC is higher than the pay-as-you-go cost because it includes recognition of employer costs expected to be paid in future accounting periods.

Development of Annual OPEB Cost and Net OPEB Obligation For Fiscal Year 2015

Annual employer contribution for pre-funding is estimated for 2015.

Net OPEB Obligation (NOO)	Total	St. Clair County	_	Mental Health	_	Road Commission
ARC as of end of year	\$ 10,682,722	\$ 7,182,525	\$	1,237,131	\$	2,263,066
Interest on NOO to end of year	3,224,159	2,204,600		368,636		650,924
NOO amortization adjustment to the ARC	(5,823,517)	(4,247,923)		(569,678)		(1,005,917)
Annual OPEB Cost	\$ 8,083,364	\$ 5,139,202	\$	1,036,089	\$	1,908,073
Annual employer contribution for pay-go cost	0	0		0		0
Annual employer contribution for pre-funding	(1,118,000)	(611,000)		(371,000)		(136,000)
Change in NOO	\$ 6,965,364	\$ 4,528,202	\$	665,089	\$	1,772,073
NOO as of beginning of year	64,483,183	44,091,922		7,372,717		13,018,474
NOO as of end of year	\$ 71,448,547	\$ 48,620,194	\$	8,037,806	\$	14,790,547

Pay-as-you-go Cost is the expected total employer cash cost for the coming period based on all explicit and implicit subsidies. It is also the amount recognized as expense on the Income Statement under pay-as-you-go accounting.

Net OPEB Obligation is the cumulative difference between the annual OPB cost and employer contributions. This obligation will be created if cash contributions are less than the current year expense under GASB 45 accrual rules.

The net obligation is recorded as a liability on the employer's balance sheet which will reduce the net fund balance.

The value of implicit subsidies is considered as part of cash contributions for the current period. Other cash expenditures that meet certain conditions are also considered as

Development of Annual Required Contribution (ARC) For Fiscal Year 2016

FY 2016 projected Annual Required Contribution was calculated using estimated employee contributions based on December 31, 2014 active data, salary, and Health Care Trust contribution policy by Union group effective on January 1, 2014 as described in the Substantive Plan Provisions section.

Required Supplementary Information	Total	L	St. Clair County	-	Mental Health	-	Road Commission
Expected AAL as of December 31, 2014	\$ 130,980,260	\$	85,691,315	\$	19,845,604	\$	25,443,338
Expected AVA as of December 31, 2014	(36,883,354)		(23,640,611)		(12,865,449)		(377,294)
Expected Unfunded AAL (UAAL)	\$ 94,096,906	\$	62,050,704	\$	6,980,158	\$	25,066,044
Funded Ratio	28.2%		27.6%		64.8%		1.5%
Expected covered payroll ³	\$ 35,606,427	\$	21,758,906	\$	10,080,356	\$	3,767,165
UAAL as a % of covered payroll	264.3%		285.2%		69.2%		665.4%

Annual Required Contribution	Total	Γ	St. Clair County	-	Mental Health	-	Road Commission
Normal cost as of beginning of year	\$ 3,149,052	\$	1,967,168	\$	741,781	\$	440,103
Reduction for employee contributions	(397,274)		(397,274)		0		0
Net normal cost	\$ 2,751,778	\$	1,569,894	\$	741,781	\$	440,103
Amortization of the UAAL	8,479,310		5,970,103		546,544		1,962,663
Total normal cost and amortization payment	\$ 11,231,088	\$	7,539,997	\$	1,288,325	\$	2,402,766
Interest to end of year	561,554		377,000		64,416		120,138
Total Annual Required Contribution (ARC)	\$ 11,792,642	\$	7,916,997	\$	1,352,741	\$	2,522,904

Annual Required Contribution

(ARC) is the annual expense recorded in the income statement under GASB 45 accrual accounting. It replaces the cash basis method of accounting recognition with an accrual method. The GASB 45 ARC is higher than the pay-as-you-go cost because it includes recognition of employer costs expected to be paid in future accounting periods.

³ FY 2016 covered payroll is projected from FY 2015 and takes into account anticipated terminations and retirements.

Development of Annual OPEB Cost and Net OPEB Obligation For Fiscal Year 2016

Net OPEB Obligation (NOO)	Total	St. Clair County	_	Mental Health	_	Road Commission
ARC as of end of year	\$ 11,792,642	\$ 7,916,997	\$	1,352,741	\$	2,522,904
Interest on NOO to end of year	3,572,427	2,431,010		401,890		739,527
NOO amortization adjustment to the ARC	(6,788,630)	(4,911,805)		(660,825)		(1,216,000)
Annual OPEB Cost	\$ 8,576,439	\$ 5,436,202	\$	1,093,806	\$	2,046,431
Annual employer contribution for pay-go cost	0	0		0		0
Annual employer contribution for pre-funding	TBD	TBD		TBD		TBD
Change in NOO	\$ TBD	\$ TBD	\$	TBD	\$	TBD
NOO as of beginning of year	71,448,547	48,620,194		8,037,806		14,790,547
NOO as of end of year	\$ TBD	\$ TBD	\$	TBD	\$	TBD

Pay-as-you-go Cost is the expected total employer cash cost for the coming period based on all explicit and implicit subsidies. It is also the amount recognized as expense on the Income Statement under pay-as-you-go accounting.

Net OPEB Obligation is the cumulative difference between the annual OPB cost and employer contributions. This obligation will be created if cash contributions are less than the current year expense under GASB 45 accrual rules.

The net obligation is recorded as a liability on the employer's balance sheet which will reduce the net fund balance.

The value of implicit subsidies is considered as part of cash contributions for the current period. Other cash expenditures that meet certain conditions are also considered as

Summary of GASB 45 Financial Results

Presented below is the summary of GASB 45 results for the fiscal year ending December 31, 2014 and prior fiscal years as shown in the County's Notes to Financial Statements.

Schedule of Funding Progress

As of	Actuarial Accrued Liability (AAL)		rial Value of Assets (AVA)	nfunded Actuarial rued Liability (UAAL)	Funded Ratio	Cov	vered Payroll	UAAL as % of Covered Payroll
	Α		В	C = A - B	D = B / A		Ε	F = C / E
December 31, 2014								
St. Clair County	\$ 82,431,355	\$	24,027,124	\$ 58,404,231	29.1%	\$	22,286,492	262.1%
Mental Health	\$ 18,695,889	\$	12,285,111	\$ 6,410,778	65.7%	\$	10,389,722	61.7%
Road Commission	\$ 24,824,010	\$	1,231,400	\$ 23,592,610	5.0%	\$	3,897,048	605.4%
Total	\$ 125,951,254	\$	37,543,635	\$ 88,407,619	29.8%	\$	36,573,262	241.7%
December 31, 2013								
St. Clair County	\$ 82,056,384	\$	23,583,083	\$ 58,473,301	28.7%	\$	23,506,075	248.8%
Mental Health	\$ 19,739,896	\$	9,621,833	\$ 10,118,063	48.7%	\$	9,920,486	102.0%
Road Commission	\$ 23,742,069	\$	1,954,497	\$ 21,787,572	8.2%	\$	3,795,636	574.0%
Total	\$ 125,538,349	\$	35,159,413	\$ 90,378,936	28.0%	\$	37,222,197	242.8%
December 31, 2012								
St. Clair County	\$ 75,663,868	\$	22,032,674	\$ 53,631,194	29.1%	\$	25,566,989	209.8%
Mental Health	\$ 18,273,076	\$	8,521,725	\$ 9,751,351	46.6%	\$	10,455,228	93.3%
Road Commission	\$ 22,667,171	\$	2,277,174	\$ 20,389,997	10.0%	\$	4,031,028	505.8%
Total	\$ 116,604,115	\$	32,831,573	\$ 83,772,542	28.2%	\$	40,053,245	209.2%

Summary of GASB 45 Financial Results (Continued)

Schedule of Employer Contributions

FYE	Employer Contributions	Annual Required Contribution (ARC)	% of ARC Contributed	
	А		В	C = A / B
December 31, 2015				
St. Clair County	\$ 611,000	\$	7,182,525	8.5%
Mental Health	\$ 371,000	\$	1,237,131	30.0%
Road Commission	\$ 136,000	\$	2,263,066	6.0%
Total	\$ 1,118,000	\$	10,682,722	10.5%
December 31, 2014				
St. Clair County	\$ 564,196	\$	7,017,174	8.0%
Mental Health	\$ 2,179,520	\$	1,375,499	158.5%
Road Commission	\$ 156,676	\$	2,027,960	7.7%
Total	\$ 2,900,392	\$	10,420,633	27.8%
December 31, 2013				
St. Clair County	\$ 607,570	\$	6,326,013	9.6%
Mental Health	\$ 554,606	\$	1,225,498	45.3%
Road Commission	\$ 164,545	\$	3,660,086	4.5%
Total	\$ 1,326,721	\$	11,211,597	11.8%

Summary of GASB 45 Financial Results (Continued)

Historical Annual OPEB Cost

As of	Annu	ıal OPEB Cost	% of Annual OPEB Cost Contributed	Net OPEB Obligation			
December 31, 2015							
St. Clair County	\$	5,139,202	11.9%	\$	48,620,194		
Mental Health	\$	1,036,089	35.8%	\$	8,037,806		
Road Commission	\$	1,908,073	7.1%	\$	14,790,547		
Total	\$	8,083,364	13.8%	\$	71,448,547		
December 31, 2014							
St. Clair County	\$	5,355,957	10.5%	\$	44,091,992		
Mental Health	\$	1,183,498	184.2%	\$	7,372,717		
Road Commission	\$	1,535,973	10.2%	\$	13,018,474		
Total	\$	8,075,428	35.9%	\$	64,483,183		
December 31, 2013							
St. Clair County	\$	4,974,109	12.2%	\$	39,300,231		
Mental Health	\$	1,000,463	55.4%	\$	8,368,739		
Road Commission	\$	1,515,939	10.9%	\$	11,639,177		
Total	\$	7,490,511	17.7%	\$	59,308,147		

The Actuarial Accrued Liability (AAL) is expected to change on an annual basis as a result of expected and unexpected events. Under normal circumstances, it is generally expected to have a net increase each year. Below is a list of the most common events affecting the AAL and whether they increase or decrease the liability.

Expected Events

- Increases in AAL due to additional benefit accruals as employees continue to earn service each year
- Increases in AAL due to interest as the employees and retirees age
- Decreases in AAL due to benefit payments

Unexpected Events

- Increases in AAL when actual premium rates increase more than expected. A liability decrease occurs when premium rates increase less than expected.
- Increases in AAL when more new retirements occur than expected or fewer terminations occur than anticipated. Liability decreases occur when the opposite outcomes happen.
- Increases or decreases in AAL depending on whether benefit provisions are improved or reduced.

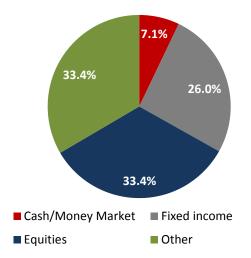
		2014	2015
	_	2014	2013
Actuarial Accrued Liability as of beginning of year	\$	125,538,349	\$ 125,951,254
Normal cost as of beginning of year		3,050,721	2,999,097
Expected benefit payments during the year		(4,576,565)	(4,311,144)
Interest adjustment to end of year		6,316,435	6,341,053
Expected Actuarial Accrued Liability as of end of year	\$	130,328,940	\$ 130,980,260
Actuarial loss due to normal activity		(4,377,686)	TBD
Actual Actuarial Accrued Liability as of end of year	\$	125,951,254	\$ TBD
Normal cost as of beginning of year Expected benefit payments during the year Interest adjustment to end of year Expected Actuarial Accrued Liability as of end of year Actuarial loss due to normal activity	\$	3,050,721 (4,576,565) 6,316,435 130,328,940 (4,377,686)	\$ 2,999,09 (4,311,144 6,341,05 130,980,260 TBI

Reconciliation of AAL shows what the actuary expects the actuarial accrued liability to be at the beginning of the following fiscal year based on current assumptions and plan provisions. The expected end of year AAL will change as actual plan experience varies from assumptions. Generally, the AAL is expected to have a net increase each year.

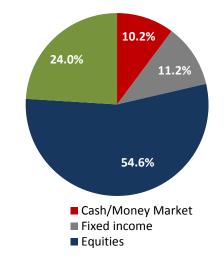
Summary of Assets	Market Value as of December 31, 2013	Market Value as of December 31, 2014
Cash / money market	\$ 2,704,923	\$ 4,044,970
Fixed income	9,892,912	4,448,922
Equities	12,718,510	21,711,871
Other assets	12,724,533	9,555,948
Total market value of assets	\$ 38,040,878	\$ 39,761,711
Less: Accounts Payable, Accrued Liabilities	(206,003)	(206,526)
Net market value of assets	\$ 37,834,875	\$ 39,555,185

Reconciliation of Market Value of Assets	2013	2014
Market value of assets as of January 1	\$ 35,130,317	\$ 37,834,875
Revenues		
Member contributions	\$ 640,263	\$ 469,641
Employer contributions	1,156,454	2,919,088
Recognized investment income	4,088,532	2,194,805
Medicare Part D reimbursements	49,357	44,178
Total	\$ 5,934,606	\$ 5,627,712
Expenditures		
Benefit payments	\$ (3,011,945)	\$ (3,822,733)
Investment expenses and professional fees	(91,780)	(84,669)
Total	\$ (3,103,725)	\$ (3,907,402)
Miscellaneous adjustment	\$ (126,323)	\$ 0
Market value of assets as of December 31	\$ 37,834,875	\$ 39,555,185

Asset Allocation as of 12/31/2013



Asset Allocation as of 12/31/2014



Funding Value of Trust Assets

The Trust assets are actuarially adjusted to reduce the impact of market-based fluctuations when determining future funding requirements. The adjusted assets are referred to as the "funding value of assets". The actuarial smoothing method essentially spreads investment gains and losses over a five-year period. Below is a schedule with the calculation details for this adjustment.

Yea	r Ended December 31,	2013	2014	2015 ⁴
A.	Funding value as of beginning of year	\$ 32,831,573	\$ 35,159,413	\$ 37,543,635
В.	Market value as of end of year	\$ 37,834,875	\$ 39,555,185	\$ 37,135,468
C.	Market value as of beginning of year	\$ 35,130,317	\$ 37,834,875	\$ 39,555,185
D.	Non-investment net cash flow	\$ (1,223,514)	\$ (518,673)	\$ (2,801,297)
E.	Investment income:			
	E1. Reflecting actual market conditions (B – C – D)	\$ 3,928,072	\$ 2,238,983	\$ 381,580
	E2. Amount for immediate recognition (7.5%)	\$ 2,416,486	\$ 2,617,506	\$ 2,710,724
	E3. Amount for phased-in recognition (E1 – E2)	\$ 1,511,586	\$ (378,523)	\$ (2,329,144)
F.	Phased-in recognition of investment income			
	F1. Current year (E3 / 5)	\$ 302,317	\$ (75,705)	\$ (465,829)
	F2. First prior year	204,125	302,317	(75,705)
	F3. Second prior year	(534,616)	204,125	302,317
	F4. Third prior year	389,268	(534,616)	204,125
	F5. Fourth prior year	773,774	389,268	(534,616)
	F6. Total recognized gain recognized in current period	\$ 1,134,868	\$ 285,389	\$ (569,708)
G.	Funding value as of end of year (A + D + E2 + F6)	\$ 35,159,413	\$ 37,543,635	\$ 36,883,354
l.	Recognized rate of return using funding value	11.0%	8.1%	5.9%
J.	Rate of return using market value of assets (net of expenses)	11.4%	5.5%	1.0%
K.	Ratio funding value to market value (G / B)	92.9%	94.9%	99.3%

⁴ CY 2015 non-investment net cash flow is based on expected contributions and benefit payments. The end of year fair market value is projected from the beginning of year fair market value assuming a 1.0% asset rate of return.

Asset Allocations

	2013	 Total	St.	Clair County	Me	ntal Health	Road	Commission
A.	Actuarial Value of Assets as of BOY	\$ 32,831,573	\$	22,032,674	\$	8,521,725	\$	2,277,174
В.	Member contributions	640,263		524,642		115,621		0
C.	Employer contributions	1,156,454		607,570		384,339		164,545
D.	Benefit payments	(3,011,945)		(1,958,878)		(345,388)		(707,679)
E.	Professional expenses	(8,286)		(5,560)		(2,151)		(575)
F.	Investment Income Allocation ⁵	3,551,354		2,382,635		947,687		221,032
G.	Actuarial Value of Assets as of EOY	\$ 35,159,413	\$	23,583,083	\$	9,621,833	\$	1,954,497

	2014	Total	St.	Clair County	Me	ental Health	Road	d Commission
Α.	Actuarial Value of Assets as of BOY	\$ 35,159,413	\$	23,583,083	\$	9,621,833	\$	1,954,497
В.	Member contributions	469,641		398,833		70,808		0
C.	Employer contributions	2,919,088		564,196		2,198,164		156,728
D.	Benefit payments	(3,822,733)		(2,363,182)		(457,226)		(1,002,325)
E.	Professional expenses	(84,669)		(56,791)		(23,171)		(4,707)
F.	Investment Income Allocation	2,902,895		1,900,985		874,703		127,207
G.	Actuarial Value of Assets as of EOY	\$ 37,543,635	\$	24,027,124	\$	12,285,111	\$	1,231,400

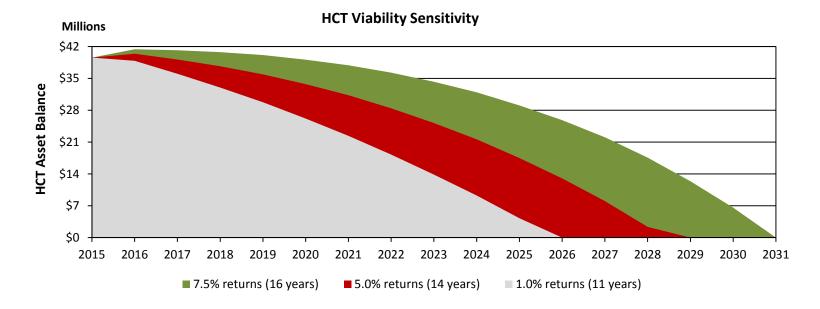
	2015 (Projected)	Total	St.	Clair County	Me	ental Health	Road	d Commission
A.	Actuarial Value of Assets as of BOY	\$ 37,543,635	\$	24,027,124	\$	12,285,111	\$	1,231,400
В.	Member contributions (expected)	391,847		391,847		0		0
C.	Employer contributions (expected)	1,118,000		611,000		371,000		136,000
D.	Benefit payments (expected)	(4,311,144)		(2,760,602)		(514,160)		(1,036,382)
E.	Professional expenses	0		0		0		0
F.	Investment Income Allocation	2,141,016		1,371,242		723,498		46,276
G.	Actuarial Value of Assets as of EOY	\$ 36,883,354	\$	23,640,611	\$	12,865,449	\$	377,294

⁵ Investment income is allocated among the different groups in the same proportion as each group's Average Valuation Assets to the total. The Average Valuation Assets is calculated as follows: (A) + 0.5 * (B + C + D + E).

St. Clair County established a Health Care Trust (HCT) for the purpose of funding future retiree health benefits. Currently both the County and its employees (except for Road Commission) contribute a percentage of salary to this Trust, and payments for retirees' premiums are made from this Trust annually.

The viability of this Trust is highly sensitive to the investment return earned and future Trust contribution. Below is a comparison of the viability of the Trust under three different investment return scenario:

- 1. Low return (1.0%) the HCT will be depleted in 11 years.
- 2. Medium return (5.0%) the HCT will be depleted in 14 years.
- 3. High return (7.5%) the HCT will be depleted in 16 years.

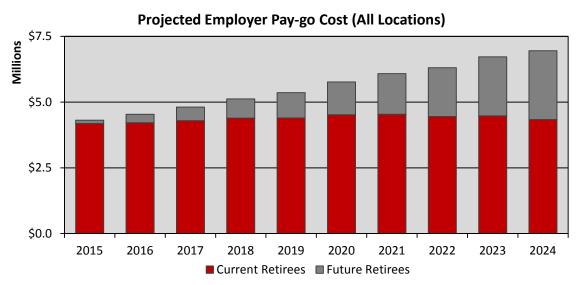


Additional assumptions made in our analysis:

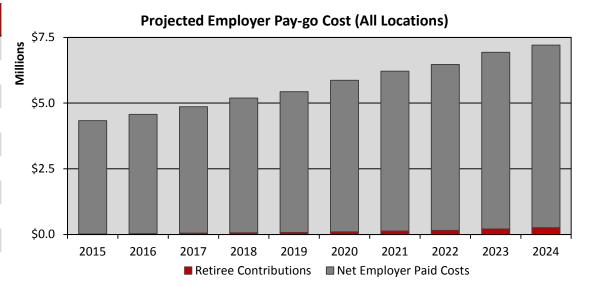
- 1. Market value of assets of \$39,555,185 as of January 1
- 2. Active employee contributions to HCT effective on 1/1/2014 as shown on page 24 of this report
- 3. 2.5% average employer contributions of eligible payroll for all groups (County General, Sheriff, Mental Health Authority, and Road Commission)
- 4. Projected future retiree health costs using current retirement and health care trend assumptions

The below projections show the actuarially estimated pay-go expenses of retiree health benefits for the next ten years. Results are shown separately for current /future retirees and gross claim costs/retiree contributions for all locations combined. These projections include explicit and implicit subsidies.

FYE	Curi	rent Retirees	Futu	re Retirees ⁶	Total
2015	\$	4,181,466	\$	129,678	\$ 4,311,144
2016	\$	4,212,212	\$	324,230	\$ 4,536,442
2017	\$	4,294,075	\$	516,029	\$ 4,810,104
2018	\$	4,389,142	\$	734,011	\$ 5,123,153
2019	\$	4,396,618	\$	960,898	\$ 5,357,516
2020	\$	4,515,720	\$	1,250,673	\$ 5,766,393
2021	\$	4,537,467	\$	1,544,551	\$ 6,082,018
2022	\$	4,448,610	\$	1,861,787	\$ 6,310,397
2023	\$	4,477,217	\$	2,242,894	\$ 6,720,111
2024	\$	4,333,092	\$	2,617,999	\$ 6,951,091



FYE	stimated aims Costs	Retiree tributions	Employer- aid Costs
2015	\$ 4,333,172	\$ 22,028	\$ 4,311,144
2016	\$ 4,568,712	\$ 32,270	\$ 4,536,442
2017	\$ 4,862,330	\$ 52,226	\$ 4,810,104
2018	\$ 5,188,811	\$ 65,658	\$ 5,123,153
2019	\$ 5,435,111	\$ 77,595	\$ 5,357,516
2020	\$ 5,866,039	\$ 99,646	\$ 5,766,393
2021	\$ 6,211,847	\$ 129,829	\$ 6,082,018
2022	\$ 6,468,774	\$ 158,377	\$ 6,310,397
2023	\$ 6,929,320	\$ 209,209	\$ 6,720,111
2024	\$ 7,208,488	\$ 257,397	\$ 6,951,091



⁶ Projections for future retirees do not take into account future new hires.

Projection of the actuarially estimated pay-go expenses of retiree health benefits for the next ten years by location are as shown below.

			St.	Clair County				Mental Health Authority				Road Commission						
FYE		Current Retirees		Future Retirees ⁷		Total		Current Retirees		Future Retirees		Total	_	Current Retirees		Future Retirees		Total
2015	\$	2,679,357	\$	81,245	\$	2,760,602	\$	489,272	\$	24,888	\$	514,160	\$	1,012,837	\$	23,545	\$	1,036,382
2016	\$	2,692,457	\$	209,087	\$	2,901,544	\$	525,355	\$	56,493	\$	581,848	\$	994,400	\$	58,650	\$	1,053,050
2017	\$	2,799,368	\$	333,434	\$	3,132,802	\$	506,310	\$	88,962	\$	595,272	\$	988,397	\$	93,633	\$	1,082,030
2018	\$	2,848,491	\$	471,937	\$	3,320,428	\$	520,655	\$	127,080	\$	647,735	\$	1,019,996	\$	134,994	\$	1,154,990
2019	\$	2,849,909	\$	623,984	\$	3,473,893	\$	523,882	\$	165,298	\$	689,180	\$	1,022,827	\$	171,616	\$	1,194,443
2020	\$	2,917,743	\$	797,222	\$	3,714,965	\$	529,244	\$	215,905	\$	745,149	\$	1,068,733	\$	237,546	\$	1,306,279
2021	\$	2,947,995	\$	963,400	\$	3,911,395	\$	525,953	\$	258,030	\$	783,983	\$	1,063,519	\$	323,121	\$	1,386,640
2022	\$	2,898,093	\$	1,163,192	\$	4,061,285	\$	535,557	\$	292,164	\$	827,721	\$	1,014,960	\$	406,431	\$	1,421,391
2023	\$	2,967,423	\$	1,411,948	\$	4,379,371	\$	547,732	\$	341,123	\$	888,855	\$	962,062	\$	489,823	\$	1,451,885
2024	\$	2,890,156	\$	1,647,202	\$	4,537,358	\$	555,268	\$	408,599	\$	963,867	\$	887,668	\$	562,198	\$	1,449,866
EVE	1	Estimated		Retiree	Ne	t Employer-	I E	stimated		Retiree	Net	t Employer-	E	Stimated		Retiree	Ne	t Employer-
FYE		Estimated aims Costs	Co	Retiree ontributions		t Employer- Paid Costs		stimated aims Costs		Retiree ntributions		t Employer- Paid Costs		Estimated aims Costs	Co	Retiree ontributions		t Employer- Paid Costs
FYE 2015			\$						Coi		P				C c \$			
	CI	aims Costs		ontributions	ı	Paid Costs	CI	aims Costs	Coi	ntributions	P	aid Costs	- CI	aims Costs	\$	ontributions	\$	Paid Costs
2015	C l	2,771,427	\$ \$	ontributions 10,825	\$	2,760,602	\$ \$	519,671	\$ \$	ntributions 5,511	\$ \$	514,160	CI	1,042,074	\$ \$	5,692 2,972	\$	Paid Costs 1,036,382
2015 2016	\$ \$	2,771,427 2,918,774	\$ \$	10,825 17,230	\$	2,760,602 2,901,544	\$ \$	519,671 593,916	\$ \$	5,511 12,068	\$ \$	514,160 581,848	CI \$	1,042,074 1,056,022	\$ \$	5,692 2,972	\$ \$	201d Costs 1,036,382 1,053,050
2015 2016 2017	\$ \$ \$	2,771,427 2,918,774 3,172,281	\$ \$ \$	10,825 17,230 39,479 51,748	\$ \$ \$	2,760,602 2,901,544 3,132,802	\$ \$ \$ \$	519,671 593,916 604,636	\$ \$ \$ \$ \$	5,511 12,068 9,364	\$ \$ \$ \$	514,160 581,848 595,272	- Cl \$ \$	1,042,074 1,056,022 1,085,413	\$ \$ \$	5,692 2,972 3,383 3,807	\$ \$ \$	1,036,382 1,053,050 1,082,030
2015 2016 2017 2018	\$ \$ \$ \$	2,771,427 2,918,774 3,172,281 3,372,176	\$ \$ \$ \$	10,825 17,230 39,479 51,748	\$ \$ \$ \$	2,760,602 2,901,544 3,132,802 3,320,428	\$ \$ \$ \$ \$	519,671 593,916 604,636 657,838	\$ \$ \$ \$ \$ \$	5,511 12,068 9,364 10,103	\$ \$ \$ \$ \$	514,160 581,848 595,272 647,735	\$ \$ \$ \$	1,042,074 1,056,022 1,085,413 1,158,797	\$ \$ \$ \$	5,692 2,972 3,383 3,807 3,996	\$ \$ \$ \$	1,036,382 1,053,050 1,082,030 1,154,990
2015 2016 2017 2018 2019	\$ \$ \$ \$ \$ \$	2,771,427 2,918,774 3,172,281 3,372,176 3,536,631	\$ \$ \$ \$	10,825 17,230 39,479 51,748 62,738 83,667	\$ \$ \$ \$	2,760,602 2,901,544 3,132,802 3,320,428 3,473,893	\$ \$ \$ \$ \$ \$ \$ \$	519,671 593,916 604,636 657,838 700,041	\$ \$ \$ \$ \$ \$ \$	5,511 12,068 9,364 10,103 10,861	\$ \$ \$ \$ \$	514,160 581,848 595,272 647,735 689,180	\$ \$ \$ \$ \$	1,042,074 1,056,022 1,085,413 1,158,797 1,198,439	\$ \$ \$ \$	5,692 2,972 3,383 3,807 3,996 4,386	\$ \$ \$ \$ \$	1,036,382 1,053,050 1,082,030 1,154,990 1,194,443
2015 2016 2017 2018 2019 2020	\$ \$ \$ \$ \$ \$	2,771,427 2,918,774 3,172,281 3,372,176 3,536,631 3,798,632	\$ \$ \$ \$ \$	10,825 17,230 39,479 51,748 62,738 83,667	\$ \$ \$ \$ \$ \$	2,760,602 2,901,544 3,132,802 3,320,428 3,473,893 3,714,965	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	519,671 593,916 604,636 657,838 700,041 756,742	\$ \$ \$ \$ \$ \$ \$ \$	5,511 12,068 9,364 10,103 10,861 11,593	\$ \$ \$ \$ \$ \$	514,160 581,848 595,272 647,735 689,180 745,149	\$ \$ \$ \$ \$ \$	1,042,074 1,056,022 1,085,413 1,158,797 1,198,439 1,310,665	\$ \$ \$ \$ \$	5,692 2,972 3,383 3,807 3,996 4,386 5,364	\$ \$ \$ \$ \$ \$	1,036,382 1,053,050 1,082,030 1,154,990 1,194,443 1,306,279
2015 2016 2017 2018 2019 2020 2021	\$ \$ \$ \$ \$ \$ \$ \$	2,771,427 2,918,774 3,172,281 3,372,176 3,536,631 3,798,632 4,019,842	\$ \$ \$ \$ \$ \$	10,825 17,230 39,479 51,748 62,738 83,667 108,447	\$ \$ \$ \$ \$ \$	2,760,602 2,901,544 3,132,802 3,320,428 3,473,893 3,714,965 3,911,395	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	519,671 593,916 604,636 657,838 700,041 756,742 800,001	\$ \$ \$ \$ \$ \$ \$ \$ \$	5,511 12,068 9,364 10,103 10,861 11,593 16,018	\$ \$ \$ \$ \$ \$	514,160 581,848 595,272 647,735 689,180 745,149 783,983	\$ \$ \$ \$ \$ \$ \$	1,042,074 1,056,022 1,085,413 1,158,797 1,198,439 1,310,665 1,392,004	\$ \$ \$ \$ \$	5,692 2,972 3,383 3,807 3,996 4,386 5,364	\$ \$ \$ \$ \$ \$	1,036,382 1,053,050 1,082,030 1,154,990 1,194,443 1,306,279 1,386,640

⁷ Projections for future retirees do not take into account future new hires.

Eligibility

Retiree health benefits eligibility requirements:

- 1. Original Plan members earlier of:
 - a. Age 55 (or age 50 for Sheriff) with 25 years of service
 - b. Age 60 with 8 years of service
 - c. 25 years of service and 80 points
- 2. Modified Plan members earlier of:
 - a. Age 55 (or age 50 for Sheriff) with 25 years of service
 - b. Age 60 with 20 years of service
 - c. 25 years of service and 80 points

Employees hired after the eligibility cut-off date shown below are not eligible for retiree health benefits. There's no cut-off date for Mental Health employees.

Union Code	Union Name	Retiree Health Eligibility Cut-Off Date
CBSO	Bailiff and Court Security Officers Association	Hired after 6/30/2012
RC	Road Commission Production and Op Eng Clerical and TPOAM	Hired after 9/14/2011 Hired after 8/23/2011
CDCO FOCP PCCL	Communication Officers POAM Friend of the Court Supervisors Probate Clerical	Hired after 6/30/2011
SDEI PSE	Correction Officers and Support Staff Public Service Employees	Hired after 6/29/2011
FOCE	Friend of the Court	Hired after 5/11/2011
SDEE	Sheriff Deputies	Hired after 1/6/2011
PCJC	Probate Court Juvenile Counselors	Hired after 12/16/2009
DCE	District Court AFSCME	Hired after 8/19/2009

Eligibility (continued)

Employees hired after the eligibility cut-off date shown below are not eligible for retiree health benefits.

Union Code	Union Name	Retiree Health Eligibility Cut-Off Date
BDMB	Board Member	
CANUE	CANUE Non-Affiliated	
COMM	Commissioners	
SDCO	Correction Officers Supervisors	
ELEC	Elected Officials	
HRE	Human Resources Clerks and Specialists	
JDGS	Judges	
JVCS	Juvenile Center Shift Supervisors	Hired after 1/1/2009
JVCN	Juvenile Center Teamsters	
PCSP	Probate Court Supervisors	
PAPE	Prosecuting Attorneys	
PHNS	Public Health Nurse Supervisors	
PHNA	Public Health Nurses	
ADCE	Association of 72 nd District Court Employees	
CPEA	Circuit Court Probate Court Employee Associates	
SDSP	Sheriff Deputies Supervisors	Based on lower unit cut-off date

Terminated Vested Employees

Employees who terminated employment with vested pension benefits are eligible for retiree health benefits commencing at age 55 if they have at least 25 years of service at termination or at age 60 if they have fewer than 25 years of service at termination. Upon benefits commencement, contribution requirements follow regular retirees.

Disability Retirement

Employees disabled in the line of duty are eligible for retiree health benefits without any age or service requirement. Employees disabled under any other circumstances are eligible for retiree health benefits if they have at least ten years of service at time of disability. Retiree contribution requirements follow regular retirees.

Spouse Benefit

Surviving spouse can continue coverage upon death of the retiree or active employees who have at least ten years of service at time of death. Surviving spouse contribution requirement follows member's contribution requirements prior to their death.

Health Care Trust Contributions

Health Care Trust contribution requirements as a % of salary while actively employed are as shown below:

Union Code	Union Name	Eff. 1/1/2014
CBSO COMM ELEC JDGS ADCE CDCO SDEI	Bailiff and Court Security Officers Association Commissioners Elected Officials Judges Association of 72 nd District Court Employees Communication Officers POAM Correction Officers and Support Staff	
SDCO FOCE FOCP PCCL PCJC PCSP PAPE SDEE SDSP CPEA PSE BDMB CANUE DCE HRE	Correction Officers Supervisors Friend of the Court Friend of the Court Supervisors Probate Clerical Probate Court Juvenile Counselors Probate Court Supervisors Prosecuting Attorneys Sheriff Deputies Sheriff Deputies Supervisors Circuit Court Probate Court Employee Associates Public Service Employees Board Member CANUE Non-Affiliated District Court AFSCME Human Resources Clerks and Specialists	2.50%*
СМН	Mental Health	2.00%
JVCS JVCN PHNS PHNA	Juvenile Center Shift Supervisors Juvenile Center Teamsters Public Health Nurse Supervisors Public Health Nurses	2.50%

^{*} Limited to the first \$50,000 of salary.

Road Commission employees are not required to contribute to the Health Care Trust.

Retiree Contributions

Employees are eligible for retiree health benefits if they meet all of the following requirements:

- 1. Original Plan members have at least 8 years of service at retirement and contribute to Health Care Trust (HCT) while actively employed if it's required in their Collective Bargaining Unit (CBA).
- 2. Modified Plan members have at least 20 years of service at retirement and contribute to HCT while actively employed if it's required in their CBA.

Any employees may purchase retiree health benefits at retirement if they have at least 11 years of service at retirement regardless of whether they contribute to HCT while actively employed.

Medical Benefit

All health plans are self-insured except for the Medicare Advantage plan. The monthly retiree illustrative rates for medical and prescription drug benefits (excluding dental) by suffix are as shown below. These illustrative rates are calculated based on the blended claims experience for active employees and retirees.

Pre-65	_	Eff. 1/	1/2015
Suffix	Group	Single	2-person
900/40/54/60	St. Clair County Non-Hardship Retirees	\$ 435.22	\$ 1,044.53
901/41/57/60	St. Clair County Hardship Retirees ⁸	\$ 466.21	\$ 1,118.89
920/44/56/62	Mental Health Non-Hardship Retirees	\$ 435.22	\$ 1,044.53
921/45/59/62	Mental Health Hardship Retirees ⁸	\$ 466.21	\$ 1,118.89
910/42/55/61	Road Commission Non-Hardship Retirees ⁹	\$ 435.22	\$ 1,044.53
911/43/58/61	Road Commission Hardship Retirees ^{8, 9}	\$ 466.21	\$ 1,118.89

Post-65 (Medicare Advantage Plan)		Rates Per Person		
Suffix Group		Eff. 1/1/2015	Eff. 1/1/2016	
600/601/602	Non-Hardship Retirees	\$ 222.94	\$ 245.02	
603/604/605	Hardship Retirees	\$ 259.46	\$ 285.13	

Dental Benefit

Dental monthly illustrative rates effective on January 1, 2015 for all locations are as shown below.

	Single	2-person
Pre-65	\$ 24.02	\$ 57.65
Post-65	\$ 24.02	\$ 48.04

⁸ Hardship retirees are those with annual household incomes of \$24,999 or less and have at least 20 years of service at retirement. Annual household income means any and all income (taxable or not) received by a retired member and/or their spouse residing in the same household.

⁹ Road Commission employees and retirees moved to the County's group health plans effective on March 1, 2015.

The actuarial assumptions used in this report represent a reasonable long-term expectation of future OPEB outcomes. As national economic and County experience change over time, the assumptions will be tested for ongoing reasonableness and, if necessary, updated.

There are no significant changes to the actuarial methods and assumptions since the last GASB valuation, which was as of December 31, 2013. For the current year GASB valuation, we have updated the health care trend rates and per capita costs. We expect to update health care trend rates and per capita costs again in the next full GASB valuation, which will be as of December 31, 2014.

Measurement Date December 31, 2014

Discount Rate 5.0%

Payroll Growth 3.5% for general inflation plus merit increases as follows:

YOS	Rates
0 – 1	4.5%
2	3.5%
3	3.0%
4	2.5%
5	2.0%
6 – 19	0.5%
20+	0.0%

Inflation Rate 3.0% per year

Cost Method Entry Age Normal Level % of Salary

Asset Valuation MethodActuarial value of assets with a five-year smoothing

Amortization Mental Health and Road Commission: Level % of pay over a closed period

St. Clair County: Level dollar over a closed period

The remaining amortization period for all locations is 15 years as of December 31, 2014.

Mortality RP-2000 Combined Mortality Table fully generational using Scale AA

Disability

Annual sample rates are as shown below. Disability benefit is only valued for the Sheriff group (CDCO, SDEI, SDCO, SDEE, and SDSP unions) and 25% of disability is assumed to be duty-related.

Age	Rates	Age	Rates
20	0.08%	45	0.27%
25	0.08%	50	0.49%
30	0.08%	55	0.89%
35	0.08%	60	1.41%
40	0.20%		

Turnover Rate

Assumption used to project terminations (voluntary and involuntary) prior to meeting minimum retirement eligibility for retiree health coverage. The rates represent the probability of termination in the next 12 months.

YOS	General / Mental Health	Sheriff / Road Commission
0 – 2	11.0%	4.0%
3 – 4	10.0%	4.0%
5	6.0%	4.0%
6+	4.0%*	4.0%

^{*} Annual turnover rate before age 35 for employees with at least 6 years of service is 6.0%.

Retirement Rate

Annual rates of retirement by group are as shown below:

					She	riff*	
Age	General / Mental Health	Road Commission	Age	<25 YOS	25 – 29 YOS	30 – 34 YOS	35+ YOS
50 – 59	15%	25%	40 – 59	0%	25%	100%	100%
60	15%	15%	60 – 61	15%	15%	15%	100%
61	20%	15%	62	40%	40%	40%	100%
62	40%	40%	63 – 64	20%	20%	20%	100%
63 – 64	20%	20%	65+	100%	100%	100%	100%
65	40%	100%					
66 – 69	25%	100%					
70+	100%	100%					

^{*} Applies to CDCO, SDEI, SDCO, SDEE, and SDSP unions.

Census Data

Census information was provided by the County as of June 2015. We have reviewed it for reasonableness and no material modifications were made.

Employer Funding Policy

Partial pre-funding at the County's discretion

Health Care Trend Rates

FYE	Rates	FYE	Rates
2016	9.0%*	2021	6.5%
2017	8.5%	2022	6.0%
2018	8.0%	2023	5.5%
2019	7.5%	2024+	5.0%
2020	7.0%		

The initial trend rate was based on a combination of employer history, national trend surveys, and professional judgment.

The ultimate trend rate was selected based on historical medical CPI information.

Retiree Contributions

Retiree contributions are assumed to increase according to health care trend rates.

Health Care Coverage Election Rate

Active employees eligible for retiree health benefits are assumed to elect coverage according to the table below:

Group	Rates
County General	85%
County Police	100%
Mental Health	80%
Road Commission	95%

All retirees that currently have coverage are assumed to continue coverage in the future.

All retirees that currently have no coverage are assumed never to elect coverage in the future.

^{*} Annual health care trend rate for Medicare Advantage plan in FYE 2016 is based on the actual premium increase from 2015 to 2016, which is 9.9% for all three entities.

Spousal Coverage

Per Capita Costs

Spousal coverage and age for current retirees is based on actual data. 80% of male and 50% of female employees is assumed to be married at retirement. Husbands are assumed to be three years older than wives.

Annual per capita costs were calculated based on the County's illustrative rates effective on January 1, 2015 actuarially increased using health index factors and current enrollment. The costs are assumed to increase with health care trend rates. Annual per capita costs applicable to all groups (County's General employees, Sheriff, Road Commission, and Mental Health Authority) are as shown below:

Age	Male	Female
< 55	\$ 5,900	\$ 6,600
55 – 59	\$ 7,500	\$ 7,300
60 – 64	\$ 9,600	\$ 8,700
65 – 69	\$ 2,100	\$ 2,100
70 – 74	\$ 2,500	\$ 2,500
75 – 79	\$ 2,900	\$ 2,900
80+	\$ 3,400	\$ 3,400

The per capita costs represent the cost of coverage for a retiree-only population.

Actuarial standards require the recognition of higher inherent costs for a retired population versus an active population.

Annual dental per capita costs are as follows and they are assumed to increase with dental trend rates.

Age	All Groups
< 65	\$ 288
65+	\$ 288

Nyhart used the 2015 County's illustrative rates without adjustment in our calculations. The rates were provided by BCBS and were assumed to represent the expected cost of claims and administrative expenses under the self-insured health plan. To the extent the rates do not reflect the full cost of coverage, our actuarial results will need to be revised. Common reasons for rates not reflecting the full cost are (1) use of asset reserves to pay a portion of the expected costs which leads to lower rates than required based on claims experience and (2) use of maximum claim exposure under the plan's aggregate stop-loss policy to set rates which overstate the expected costs for GASB 45 purposes.

Explicit Subsidy

The difference between (a) the illustrative rate and (b) the retiree contribution. Below is an example of the monthly explicit subsidies for a County retiree age 60 in the Modified plan enrolled in the non-hardship plan with 20 years of service at retirement.

	Illustrative Rate	Retiree Contribution	Explicit Subsidy		
	Α	В	C = A - B		
Retiree	\$ 435.22	\$ 0.00	\$ 435.22		
Spouse	\$ 609.31	\$ 0.00	\$ 609.31		

Implicit Subsidy

The difference between (a) the per capita cost and (b) the illustrative rate. Below is an example of the monthly implicit subsidies for a male County retiree age 60 in the Modified plan enrolled in the non-hardship plan.

	Per Capita	Premium	Implicit
	Cost	Rate	Subsidy
	Α	В	C = A - B
Retiree	\$ 800.00	\$ 435.22	\$ 364.78
Spouse	\$ 725.00	\$ 609.31	\$ 115.69

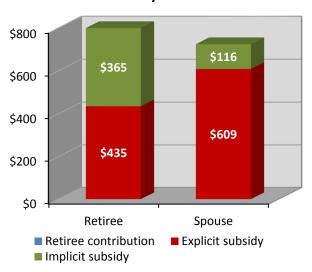
All employers that utilize premium rates based on blended active/retiree claims experience will have an implicit subsidy. There is an exception for plans using a true community-rated premium rate.

GASB Subsidy Breakdown

Below is a breakdown of the GASB 45 monthly total cost for a male County retiree age 60 in the Modified plan and his / her spouse of the same age enrolled in the non-hardship plan.

	F	Retiree	Spouse		
Retiree contribution	\$	0.00	\$	0.00	
Explicit subsidy	\$	435.22	\$	609.31	
Implicit subsidy	\$	364.78	\$	115.69	
Total monthly cost	\$	800.00	\$	725.00	

GASB Subsidy Breakdown



Actives	Single	Non-Single	Total	Avg. Age	Avg. Svc	Salary
St. Clair County	N/A	N/A	428	47.7	14.0	\$ 22,286,492
Mental Health Authority	N/A	N/A	197	45.3	10.2	\$ 10,389,722
Road Commission	N/A	N/A	68	50.1	17.1	\$ 3,897,048
Total actives	N/A	N/A	693	47.3	13.2	\$ 36,573,262

Active enrollment above includes employees that are eligible for retiree health benefits only. Employees hired after the cut-off date as noted on pages 22 and 23 of this report are not eligible for retiree health benefits.

Retirees ¹⁰	Single	Non-Single	Total	Avg. Age
St. Clair County	N/A	N/A	367	69.8
Mental Health Authority	N/A	N/A	68	67.7
Road Commission	N/A	N/A	141	73.9
Total retirees	N/A	N/A	576	70.6

Terminated Vested ¹¹	Total	Avg. Age		
St. Clair County	39	52.2		
Mental Health Authority	22	51.4		
Road Commission	6	52.1		
Total terminated vested	67	51.9		

¹⁰ Includes disabled retirees and beneficiaries but excludes all those without coverage.

¹¹ Includes all terminated vested employees, including those that are not eligible for retiree health benefits. Out of 67 terminated vested employees, 9 of them are not eligible for retiree health benefits.

Active Age-Service Distribution

All Groups (including those eligible for retiree health benefits only)

					Years o	f Service					
Age	< 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & up	Total
Under 25	1										1
25 to 29	4	6	6								16
30 to 34	6	8	39	13							66
35 to 39	3	12	29	36	7						87
40 to 44	2	10	41	34	21	8					116
45 to 49	1	6	32	40	34	13	9	1			136
50 to 54	3	3	20	23	27	15	13	5	1		110
55 to 59	1	7	14	21	24	13	10	5			95
60 to 64		1	7	14	15	6	3	2	2	1	51
65 to 69			1	4	3		1	1		1	11
70 & up				3	1						4
Total	21	53	189	188	132	55	36	14	3	2	693

Active Age-Service Distribution (Continued)

St. Clair County (including those eligible for retiree health benefits only)

					Years o	f Service					
Age	< 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & up	Total
Under 25											
25 to 29		2	5								7
30 to 34		1	31	9							41
35 to 39		2	23	24	6						55
40 to 44		2	26	22	15	2					67
45 to 49		1	22	26	23	8	6				86
50 to 54		1	14	16	13	12	8	5	1		70
55 to 59			9	18	14	8	6	0			55
60 to 64			6	11	12	5	1	0	1	1	37
65 to 69			1	1	2		1	1		1	7
70 & up				2	1						3
Total	0	9	137	129	86	35	22	6	2	2	428

Active Age-Service Distribution (Continued)

Mental Health Authority (including those eligible for retiree health benefits only)

					Years o	f Service					
Age	< 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & up	Total
Under 25	1										1
25 to 29	4	4									8
30 to 34	6	7	8	2							23
35 to 39	3	10	5	9							27
40 to 44	2	8	14	8	4	3					39
45 to 49	1	5	10	8	7	2	1				34
50 to 54	3	2	6	3	5	3	3				25
55 to 59	1	6	4	3	6	2	1	5			28
60 to 64		1	1	2	1		2	1	1		9
65 to 69				2	1						3
70 & up											0
Total	21	43	48	37	24	10	7	6	1	0	197

Active Age-Service Distribution (Continued)

Road Commission (including those eligible for retiree health benefits only)

					Years o	^f Service					
Age	< 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & up	Total
Under 25											0
25 to 29			1								1
30 to 34				2							2
35 to 39			1	3	1						5
40 to 44			1	4	2	3					10
45 to 49				6	4	3	2	1			16
50 to 54				4	9		2				15
55 to 59		1	1		4	3	3				12
60 to 64				1	2	1		1			5
65 to 69				1							1
70 & up				1							1
Total	0	1		22	22	10	7	2	0	0	68

APPENDIX

Comparison of Participant Demographic Information

The active participants' number below may include active employees who currently have no health care coverage. Refer to Summary of Participants section for an accurate breakdown of active employees with and without coverage.

	As of December 31, 2013	As of December 31, 2014
Active Participants	725	693
Retired Participants ¹²	578	576
Netheu Farticipants	376	370
Averages for Active		
Age	46.9	47.3
Service	12.8	13.2
Salary	\$ 51,341	\$ 52,775
Averages for Inactive		
Age	70.3	70.6

¹²Retired participants' enrollment as of December 31, 2013 excludes 54 retirees and one beneficiary who currently have no medical coverage. Retired participants' enrollment as of December 31, 2014 includes only those who have medical coverage.

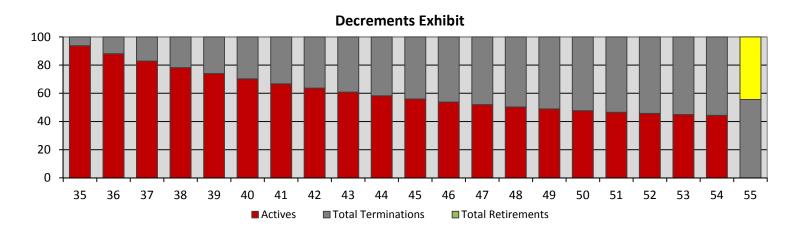
Glossary

Decrements Exhibit

The table below illustrates how actuarial assumptions can affect a long-term projection of future liabilities. Starting with 100 employees at age 35, the illustrated actuarial assumptions show that 44.430 employees out of the original 100 are expected to retire and could elect retiree health benefits at age 55.

Age	# Remaining Employees	# of Terminations per Year*	# of Retirements per Year*	Total Decrements
35	100.000	6.276	0.000	6.276
36	93.724	5.677	0.000	5.677
37	88.047	5.136	0.000	5.136
38	82.911	4.648	0.000	4.648
39	78.262	4.209	0.000	4.209
40	74.053	3.814	0.000	3.814
41	70.239	3.456	0.000	3.456
42	66.783	3.131	0.000	3.131
43	63.652	2.835	0.000	2.835
44	60.817	2.564	0.000	2.564
45	58.253	2.316	0.000	2.316

Age	# Remaining Employees	# of Terminations per Year*	# of Retirements per Year*	Total Decrements
46	55.938	2.085	0.000	2.085
47	53.853	1.866	0.000	1.866
48	51.987	1.656	0.000	1.656
49	50.331	1.452	0.000	1.452
50	48.880	1.253	0.000	1.253
51	47.627	1.060	0.000	1.060
52	46.567	0.877	0.000	0.877
53	45.690	0.707	0.000	0.707
54	44.983	0.553	0.000	0.553
55	44.430	0.000	44.430	44.430

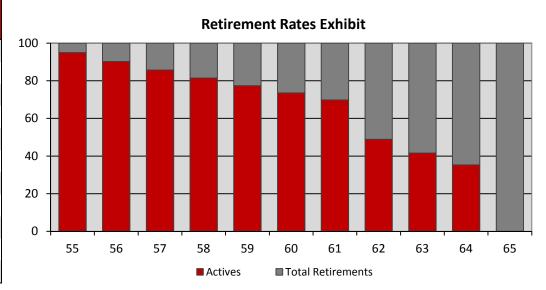


^{*} The above rates are illustrative rates and are not used in our GASB calculations.

Retirement Rates Exhibit

The table below illustrates how actuarial assumptions can affect a long-term projection of future liabilities. The illustrated retirement rates show the number of employees who are assumed to retire annually based on 100 employees age 55 who are eligible for retiree health care coverage. The average age at retirement is 62.0.

Age	Active Employees BOY	Annual Retirement Rates*	# Retirements per Year	Active Employees EOY
55	100.000	5.0%	5.000	95.000
56	95.000	5.0%	4.750	90.250
57	90.250	5.0%	4.513	85.738
58	85.738	5.0%	4.287	81.451
59	81.451	5.0%	4.073	77.378
60	77.378	5.0%	3.869	73.509
61	73.509	5.0%	3.675	69.834
62	69.834	30.0%	20.950	48.884
63	48.884	15.0%	7.333	41.551
64	41.551	15.0%	6.233	35.318
65	35.318	100.0%	35.318	0.000



^{*} The above rates are illustrative rates and are not used in our GASB calculations.

Illustration of GASB Calculations

The purpose of the illustration is to familiarize non-actuaries with the GASB 45 actuarial calculation process.

I. Facts

- 1. The employer provides subsidized retiree health coverage worth \$100,000 to employees retiring at age 55 with 25 years of service. The employer funds for retiree health coverage on a pay-as-you-go basis.
- 2. Employee X is age 50 and has worked 20 years with the employer.
- 3. Retiree health subsidies are paid from the general fund assets which are expected to earn 4.5% per year on a long-term basis.
- 4. Based on Employee X's age and sex he has a 98.0% probability of living to age 55 and a 95.0% probability of continuing to work to age 55.

II. Calculation of Present Value of Future Benefits

Present Value of Future Benefits represents the cost to finance benefits payable in the future to current and future retirees and beneficiaries, discounted to reflect the expected effects of the time value (present value) of money and the probabilities of payment.

	Value	Description
Α.	\$100,000	Projected benefit at retirement
В.	80.2%	Interest discount for five years = $(1 / 1.045)^5$
C.	98.0%	Probability of living to retirement age
D.	95.0%	Probability of continuing to work to retirement age
E.	\$74,666	Present value of projected retirement benefit measured at employee's current age = A x B x C x D

Illustration of GASB Calculations (continued)

III. Calculation of Actuarial Accrued Liability

Actuarial Accrued Liability represents the portion of the Present Value of Future Benefits which has been accrued recognizing the employee's past service with the employer. The Actuarial Accrued Liability is a required disclosure in the Required Supplementary Information section of the employer's financial statement.

	Value	Description
Α.	\$74,666	Present value of projected retirement benefit measured at employee's current age
В.	20	Current years of service with employer
C.	25	Projected years of service with employer at retirement
D.	\$59,733	Actuarial accrued liability measured at employee's current age = A x B / C

IV. Calculation of Normal Cost

Normal Cost represents the portion of the Present Value of Future Benefits allocated to the current year.

	Value	Description
A.	\$74,666	Present value of projected retirement benefit measured at employee's current age
В.	25	Projected years of service with employer at retirement
C.	\$2,987	Normal cost measured at employee's current age = A / B

V. Calculation of Annual Required Contribution

Annual Required Contribution is the total expense for the current year to be shown in the employer's income statement.

	Value	Description
Α.	\$2,987	Normal Cost for the current year
В.	\$3,509	30-year amortization (level dollar method) of Unfunded Actuarial Accrued Liability using a 4.5% interest rate discount factor
C.	\$292	Interest adjustment = 4.5% x (A + B)
D.	\$6,788	Annual Required Contribution = A + B + C

Definitions

GASB 45 defines several unique terms not commonly employed in the funding of pension and retiree health plans. The definitions of the terms used in the GASB actuarial valuations are noted below.

- 1. **Actuarial Accrued Liability** That portion, as determined by a particular Actuarial Cost Method, of the Actuarial Present Value of plan benefits and expenses which is not provided for by the future Normal Costs.
- 2. **Actuarial Assumptions** Assumptions as to the occurrence of future events affecting health care costs, such as: mortality, withdrawal, disablement and retirement; changes in compensation and Government provided health care benefits; rates of investment earnings and asset appreciation or depreciation; procedures used to determine the Actuarial Value of Assets; characteristics of future entrants for Open Group Actuarial Cost Methods; and other relevant items.
- 3. **Actuarial Cost Method** A procedure for determining the Actuarial Present Value of future benefits and expenses and for developing an actuarially equivalent allocation of such value to time periods, usually in the form of a Normal Cost and an Actuarial Accrued Liability.
- 4. **Actuarial Present Value** The value of an amount or series of amounts payable or receivable at various times, determined as of a given date by the application of a particular set of Actuarial Assumptions. For purposes of this standard, each such amount or series of amounts is:
 - a) adjusted for the probable financial effect of certain intervening events (such as changes in compensation levels, Social Security, marital status, etc.);
 - b) multiplied by the probability of the occurrence of an event (such as survival, death, disability, termination of employment, etc.) on which the payment is conditioned; and
 - c) discounted according to an assumed rate (or rates) of return to reflect the time value of money.
- 5. **Annual OPEB Cost** An accrual-basis measure of the periodic cost of an employer's participation in a defined benefit OPEB plan.
- 6. **Annual Required Contribution (ARC)** The employer's periodic required contributions to a defined benefit OPEB plan, calculated in accordance with the parameters.
- 7. **Explicit Subsidy** The difference between (a) the amounts required to be contributed by the retirees based on the premium rates and (b) actual cash contribution made by the employer.
- 8. Funded Ratio The actuarial value of assets expressed as a percentage of the actuarial accrued liability.
- 9. **Healthcare Cost Trend Rate** The rate of change in the per capita health claims costs over time as a result of factors such as medical inflation, utilization of healthcare services, plan design, and technological developments.

Definitions (continued)

- 10. **Implicit Subsidy** In an experience-rated healthcare plan that includes both active employees and retirees with blended premium rates for all plan members, the difference between (a) the age-adjusted premiums approximating claim costs for retirees in the group (which, because of the effect of age on claim costs, generally will be higher than the blended premium rates for all group members) and (b) the amounts required to be contributed by the retirees.
- 11. **Net OPEB Obligation** The cumulative difference since the effective date of this Statement between annual OPEB cost and the employer's contributions to the plan, including the OPEB liability (asset) at transition, if any, and excluding (a) short-term differences and (b) unpaid contributions that have been converted to OPEB-related debt.
- 12. Normal Cost The portion of the Actuarial Present Value of plan benefits and expenses which is allocated to a valuation year by the Actuarial Cost Method.
- 13. **Pay-as-you-go** A method of financing a benefit plan under which the contributions to the plan are generally made at about the same time and in about the same amount as benefit payments and expenses becoming due.
- 14. **Per Capita Costs** The current cost of providing postretirement health care benefits for one year at each age from the youngest age to the oldest age at which plan participants are expected to receive benefits under the plan.
- 15. **Present Value of Future Benefits** Total projected benefits include all benefits estimated to be payable to plan members (retirees and beneficiaries, terminated employees entitled to benefits but not yet receiving them, and current active members) as a result of their service through the valuation date and their expected future service. The actuarial present value of total projected benefits as of the valuation date is the present value of the cost to finance benefits payable in the future, discounted to reflect the expected effects of the time value (present value) of money and the probabilities of payment. Expressed another way, it is the amount that would have to be invested on the valuation date so that the amount invested plus investment earnings will provide sufficient assets to pay total projected benefits when due.
- 16. **Select and Ultimate Rates** Actuarial assumptions that contemplate different rates for successive years. Instead of a single assumed rate with respect to, for example, the investment return assumption, the actuary may apply different rates for the early years of a projection and a single rate for all subsequent years. For example, if an actuary applies an assumed investment return of 8% for year 20W0, then 7.5% for 20W1, and 7% for 20W2 and thereafter, then 8% and 7.5% select rates, and 7% is the ultimate rate.
- 17. **Substantive Plan** The terms of an OPEB plan as understood by the employer(s) and plan members.