



THE FOSTER GROUP

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MEMORANDUM

FY 2012-13 Sewer Rate Report Material

February 11, 2012

To: Sue McCormick, James George

From: Nick Foster

The accompanying material comprises the tables that will be included in the FY 2012-13 Sewer Rate Report. The narrative for that report is still in production, but we feel it is prudent at this time to distribute the tables from the report. We are presenting this material at the Rates Rollout meeting next week, along with additional material summarizing the rate proposals. We encourage that all of this material be posted on the DWSD web site, and in the customer outreach portal.

We will continue to finalize the report narrative and produce a final report summarizing the development of the FY 2012-13 Sewer Rates.

We are available to discuss this matter at your convenience.

Table 1
Projection of Revenues Under Existing Rates
Prospective Rate Year 2012-13

	(1) Projected <u>Volume</u> Mcf	(2) Existing Sewer <u>Rate</u> \$/Mcf	(3) Commodity Charge <u>Revenue</u> \$ <i>(1)*(2)</i>	(4) Fixed <u>Charge</u> \$/month	(5) Projected <u>Revenue</u> \$ <i>(3)+(4)*12</i>
OUTSIDE CITY					
<u>Billing Meter Customers</u>					
Allen Park	38,000	7.70	292,600	15,577.00	479,500
Center Line	50,000	9.63	481,500	24,731.00	778,300
Dearborn East	500,000	7.72	3,860,000	209,283.00	6,371,400
Dearborn West	575,000	6.38	3,668,500	294,322.00	7,200,400
Evergreen-Farmington	1,920,000	10.67	20,486,400	698,484.00	28,868,200
Farmington	65,000	8.96	582,400	24,990.00	882,300
Grosse Pointe Park	95,000	8.43	800,900	44,546.00	1,335,500
Oakland Macomb Int Dist	3,819,300	11.68	44,609,400	1,418,021.00	61,625,700
Melvindale	84,000	9.24	776,200	31,422.00	1,153,300
N.E. Wayne County	1,500,000	7.57	11,355,000	689,639.00	19,630,700
Rouge Valley	3,300,000	10.79	35,607,000	992,287.00	47,514,400
George W Kuhn Drainage Dist	<u>2,800,000</u>	8.77	<u>24,556,000</u>	<u>1,187,514.00</u>	<u>38,806,200</u>
<i>SUBTOTALS:</i>	14,746,300	9.97	147,075,900	5,630,816.00	214,645,900
<u>System Meter Customers</u>					
Dearborn E. (Storm Only)	17,811	NA	NA	80,653.00	967,800
Dearborn N.E.	35,000	10.22	357,700	63,831.00	1,123,700
Grosse Pointe	32,500	11.14	362,100	37,865.00	816,500
Grosse Pointe Farms	75,000	11.22	841,500	80,236.00	1,804,300
Hamtramck	80,000	9.85	788,000	231,540.00	3,566,500
Harper Woods	6,000	10.35	62,100	9,867.00	180,500
Highland Park	150,000	10.47	1,570,500	312,829.00	5,324,400
Redford Township	1,500	9.50	14,300	7,265.00	101,500
Wayne County #3	200	9.20	1,800	3,045.00	38,300
Wayne County #6	<u>3,250</u>	10.73	<u>34,900</u>	<u>7,342.00</u>	<u>123,000</u>
<i>SUBTOTALS:</i>	401,261	10.05	4,032,900	834,473.00	14,046,500
SUBTOTAL SUBURBAN	15,147,561	9.98	151,108,800	6,465,289.00	228,692,400
CITY OF DETROIT	3,775,000	29.58	111,661,000	7,481,125	201,434,500
INDUSTRIAL WASTE CONTROL CHARGES				1,660,100	19,921,200
INDUSTRIAL SURCHARGES				319,008	3,828,100
TOTAL REV. FROM RATES & CHARGES	18,922,561	13.89	262,769,800	15,925,522	453,876,200

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Table 2
Projected Operation and Maintenance Expense
Prospective Rate Year 2012-13

Wastewater Treatment Plant	130,093,827
Industrial Waste Control Program	13,283,487
Combined Sewer Overflow Facilities	7,861,345
Pumping Stations	6,442,394
Mechanical Maintenance	10,282,208
Maintenance & Repair	9,440,818
Customer Outreach Program	522,500
Commercial & Meter Operations - Suburban Wholesale	3,663,262
Commercial & Meter Operations - Detroit Retail	9,231,849
Engineering	1,243,332
Administration	<u>38,258,579</u>
GRAND TOTAL	230,323,600

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Table 3
Capital Improvement Program Projected Expenditures
Prospective Rate Year 2012-13

Line No.	<u>Category</u>	<u>FY 2012</u> \$	<u>FY 2013</u> \$
	<u>Plant</u>		
1	Primary Treatment	5,342,000	18,895,000
2	Secondary Treatment	6,811,000	7,897,000
3	Solids Handling	17,770,000	29,227,000
4	Disinfection Facilities	2,656,000	9,506,000
5	General Purpose	<u>18,536,000</u>	<u>27,291,000</u>
6	Subtotal Plant	51,115,000	92,816,000
7	Sewer Interceptor System	823,000	1,300,000
8	Combined Sewer System	35,793,000	4,828,000
9	Lateral Sewer Replacement	35,947,000	44,200,000
10	Planning & Administration	<u>1,882,000</u>	<u>2,000,000</u>
11	Subtotal	74,445,000	52,328,000
12	Total Capital Program	125,560,000	145,144,000

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Table 4
Capital Improvement Program Financing Plan
Prospective Rate Year 2012-13

<u>Line</u> <u>No.</u>	<u>Item</u>	<u>FY 2012</u> \$	<u>FY 2013</u> \$
Financing Requirements			
1	Capital Improvement Program	125,560,000	145,144,000
Financing Sources			
<u>Improvement and Extension Fund</u>			
2	Beginning Balance	7,245,200	38,750,000
3	Revenue Financed Capital	<u>31,504,800</u>	<u>48,594,000</u>
4	Subtotal - Improvement & Extension	38,750,000	87,344,000
<u>Construction Bond Funds</u>			
5	Beginning Balance	120,600,000	209,426,000
Bond Proceeds			
6	Sewage System Revenue Bonds	489,535,000	0
7	Less: Issuance Expenses	<u>(305,535,000)</u>	<u>0</u>
8	Net Bond Proceeds Available	184,000,000	0
9	SRF Proceeds	<u>30,386,000</u>	<u>9,086,000</u>
10	Subtotal - Construction Bond Funds	<u>334,986,000</u>	<u>218,512,000</u>
11	Total Financing Sources Available	373,736,000	305,856,000
Application of Financing Sources			
12	Projects Funded with		
	Improvement and Extension Funds	0	19,375,000
13	Projects Funded with Construction Bond	<u>125,560,000</u>	<u>125,769,000</u>
14	Total Financing Sources Applied	125,560,000	145,144,000
Financing Sources Available for			
Future Requirements			
15	Improvement & Extension Fund	38,750,000	67,969,000
16	Construction Bond Funds	<u>209,426,000</u>	<u>92,743,000</u>
17	Total Financing Sources Available for		
	Future Requirements	248,176,000	160,712,000

Table 5
Revenue Requirements Projections
Prospective Rate Year 2012-13

Line No.	Item	FY 2012 \$	FY 2013 \$
Revenue			
1	Operating Revenue Under Existing Rates	453,875,900	453,875,900
2	Revenues from Look-Back	20,000,000	20,000,000
3	Miscellaneous & Non-Operating Revenue	<u>6,960,800</u>	<u>7,193,900</u>
4	Total Revenue Available	480,836,700	481,069,800
Revenue Requirements			
5	Operation and Maintenance Expense	222,744,500	230,323,600
<u>Debt Service</u>			
6	Senior Lien Bonds	103,710,100	119,344,600
7	Second Lien Bonds	62,141,900	56,008,700
8	SRF Junior Lien Bonds	<u>46,003,300</u>	<u>46,138,100</u>
9	Total Debt Service	211,855,300	221,491,400
10	POC Payments	6,232,100	6,568,200
11	Renewals and Replacements	8,500,000	8,500,000
12	Revenue Financed Major Capital Improvements	31,504,800	48,594,000
13	Extraordinary Repair and Replacement Reserve Fund	0	1,136,800
14	Operating Reserve Requirement	<u>0</u>	<u>3,198,900</u>
15	Total Revenue Requirements	480,836,700	519,812,900
16	Balance (Deficiency) (Line 4 - Line 15)	0	(38,743,100)
17	Approximate Annual Percent Increase Required in Revenue from Rates (-Line 16 / Line 1)		8.5%
Debt Service Coverages Under Required Rates			
18	Senior Lien Bonds	227%	224%
19	Second Lien Bonds	147%	156%
20	SRF Junior Lien Bonds	122%	131%

Table 6
Conversion of Cash Basis Revenue Requirements to Utility Basis

Line No.	<u>Cash Basis</u>	<u>O&M</u>	<u>Capital</u>	<u>Total</u>
1	Operation and Maintenance Expense	\$230,323,600		\$230,323,600
2	Debt Service		221,491,400	221,491,400
3	Revenue Financed Capital & Reserves (a)		41,429,700	41,429,700
		-----	-----	-----
4	Total Cash Basis Revenue Req'ts	230,323,600	262,921,100	493,244,700
	<u>Utility Basis</u>			
5	Operation and Maintenance Expense	\$230,323,600		\$230,323,600
6	Depreciation Expense		112,650,000	112,650,000
7	Return on Rate Base		150,271,100	150,271,100
		-----	-----	-----
8	Total Utility Basis Revenue Req'ts	230,323,600	262,921,100	493,244,700

(a) Net of Look-Back revenues

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Table 7
Revenue Requirements Allocated to Functional Components
Prospective Rate Year 2012-13

Cost Code	System Component	(1) O&M Expense (including Replacement)	(2) Depreciation Expense	(3) Return on Rate Base (5) * 4.94%	(4) TOTAL	(5) OCLD Rate Base
0101	Primary Pumping	4,497,283	6,220,300	4,967,851	15,685,435	100,474,900
0102	Rack & Grit	2,065,894	133,000	116,554	2,315,448	2,357,300
0103	Primary Chemical Addition	1,282,348	0	0	1,282,348	0
0104	Primary Sedimentation	2,494,925	9,455,000	6,857,931	18,807,856	138,701,800
0105	Aeration	8,236,665	6,385,200	4,607,837	19,229,702	93,193,600
0106	Secondary Clarifiers	2,974,020	4,845,100	4,938,274	12,757,394	99,876,700
0107	Chlorination	1,425,097	1,061,800	1,560,389	4,047,286	31,558,900
0108	Sludge Treatment	31,867,660	15,025,400	9,391,619	56,284,679	189,945,700
0109	Scum Incineration	1,521,082	1,223,200	1,232,127	3,976,410	24,919,800
0110	Process Water & Outfall	3,012,998	3,634,200	5,846,219	12,493,416	118,239,900
0111	Industry Only	20,101,915	375,000	111,248	20,588,163	2,250,000
0201	Laboratory	15,393,092	0	0	15,393,092	0
0203	Heating Plant	1,412,647	0	0	1,412,647	0
0204	General Plant	88,500,862	32,496,200	46,341,833	167,338,895	937,264,600
1901	City Pump Stations	1,089,595	2,062,000	4,227,565	7,379,160	85,502,600
1904	OMID Pump Stations	3,408,591	806,900	579,188	4,794,679	11,714,100
1905	Common Pump Stations	6,521,640	4,232,000	3,438,439	14,192,078	69,542,500
2001	City Interceptors	8,611,639	6,862,200	23,451,608	38,925,447	474,309,300
2004	OMID Interceptors	146,567	0	0	146,567	0
2005	Common Interceptors	2,784,765	3,784,000	7,375,918	13,944,683	149,178,100
2007	Suburban Meters	4,185,762	1,604,400	675,515	6,465,676	13,662,300
3000	New Wet Weather Facilities - 83/17	9,556,705	11,944,100	21,277,920	42,778,725	430,346,400
0310	Commercial Division	9,231,849	500,000	74,166	9,806,015	1,500,000
	TOTAL	230,323,601	112,650,000	147,072,200	490,045,801	2,974,538,500

PRELIMINARY

**Table 8
Functional / Service Cost Allocation Matrix
Prospective Rate Year 2012-13**

Cost Code	System Component	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
		FLOW										
		<u>City Only</u>	<u>Wholesale Only</u>	<u>OMID Only</u>	<u>Common</u>	<u>BOD</u>	<u>TSS</u>	<u>PHOS</u>	<u>FOG</u>	<u>New Wet Weather Facilities</u>	<u>Customer</u>	<u>Industry Only</u>
0101	Primary Pumping				100%							
0102	Rack & Grit				100%							
0103	Primary Chemical Addition							100%				
0104	Primary Sedimentation				85%		10%		5%			
0105	Aeration				20%	80%						
0106	Secondary Clarifiers				65%	35%						
0107	Chlorination				100%							
0108	Sludge Treatment					15%	70%	15%				
0109	Scum Incineration								100%			
0110	Process Water & Outfall				100%							
0111	Industry Only											100%
0201	Laboratory					Allocated to WWTP functions based on subtotal of direct allocations						
0202	Process Water & Outfall					Allocated to WWTP functions based on subtotal of direct allocations						
0203	Heating Plant					Allocated to WWTP functions based on subtotal of direct allocations						
0204	General Plant					Allocated to WWTP functions based on subtotal of direct allocations						
1901	City Pump Stations	100%										
1904	OMID Pump Stations			100%								
1905	Common Pump Stations				100%							
2001	City Interceptors	100%										
2004	OMID Interceptors			100%								
2005	Common Interceptors				100%							
2007	Suburban Meters		100%									
3000	New Wet Weather Facilities - 83/17									100%		
0310	Commercial Division		(a)									(a)

(a) A portion of the Commercial Division are directly assigned to Suburban Wholesale Customers. The remaining costs are directly assigned to Detroit Retail customers.

Table 9
Allocation of Revenue Requirements to Cost of Service Function
Prospective Rate Year 2012-13

Line No.	Revenue Requirement	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
		Total	City Only	Wholesale Only	OMID Only	Common	BOD	TSS	PHOS	FOG	New Wet Weather Facilities	Customer	Industry Only
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1	Operation & Maintenance Expense	230,323,601	9,701,200	4,185,800	3,555,200	39,399,600	38,234,700	72,207,700	19,058,200	4,919,800	9,611,800	9,231,800	20,217,800
2	Depreciation Expense	112,650,000	8,924,200	1,604,400	806,900	47,451,800	15,192,100	19,226,700	3,780,200	2,844,600	11,944,100	500,000	375,000
3	Return on Rate Base (a)	<u>147,072,200</u>	<u>27,679,200</u>	<u>675,500</u>	<u>579,200</u>	<u>59,594,100</u>	<u>14,824,900</u>	<u>15,773,300</u>	<u>3,060,700</u>	<u>3,422,000</u>	<u>21,277,900</u>	<u>74,200</u>	<u>111,200</u>
4	Subtotal	490,045,801	46,304,600	6,465,700	4,941,300	146,445,500	68,251,700	107,207,700	25,899,100	11,186,400	42,833,800	9,806,000	20,704,000
5	Less: Miscellaneous & Non-Operating Income	<u>7,193,900</u>	<u>4,880,000</u>	<u>29,800</u>	<u>22,800</u>	<u>664,400</u>	<u>313,400</u>	<u>494,600</u>	<u>119,800</u>	<u>51,100</u>	<u>194,000</u>	<u>327,200</u>	<u>96,700</u>
6	Subtotal from Rates and Charges	482,851,901	41,424,600	6,435,900	4,918,500	145,781,100	67,938,300	106,713,100	25,779,300	11,135,300	42,639,800	9,478,800	20,607,300
7	(a) Based on OCLD Rate Base of: 4.94 % Rate of Return	2,974,538,500	559,811,900	13,662,300	11,714,100	1,205,292,070	299,833,871	319,015,332	61,902,910	69,209,617	430,346,400	1,500,000	2,250,000

PRELIMINARY

Table 10
Calculation of Allocated I/I Volumes - GDRSS Data - Mcf
Look-Back Rate Year 2010-11 & Rate Year 2012-13

Line No.		(1)	(2)	(3)	(4)	(5)
		5-Year Average of GDRSS Data				
		Local I/I	Common Use Interceptors	Common Use Sewers	Customer Connections	Total Allocated
	OUTSIDE CITY					
	<u>Billing Meter Customers</u>					
1	Allen Park	4,437	0	0	0	4,437
2	Center Line	2,665	0	8,488	0	11,154
3	Dearborn East	32,747	0	1,698	0	34,445
4	Dearborn West	145,121	0	0	0	145,121
5	Evergreen-Farmington	211,867	0	86,222	15,227	313,316
6	Farmington	8,166	0	0	142	8,308
7	Grosse Pointe Park	18,263	0	179	0	18,441
8	Oakland Macomb Int Dist	394,554	0	0	163,499	558,054
9	Melvindale	10,385	0	250	0	10,635
10	N.E. Wayne County	183,605	0	6,880	13,705	204,189
11	Rouge Valley	254,090	0	0	0	254,090
12	George W Kuhn Drainage Dist	142,160	0	61,025	0	203,186
13	<i>SUBTOTALS:</i>	1,408,061	0	164,742	192,573	1,765,375
	<u>System Meter Customers</u>					
14	Dearborn E. (Storm Only)	0	0	1,519	0	1,519
15	Dearborn N.E.	25,742	0	11,526	0	37,268
16	Grosse Pointe	11,377	0	518	2,019	13,914
17	Grosse Pointe Farms	23,597	0	1,045	4,143	28,785
18	Hamtramck	103,000	0	29,664	0	132,664
19	Harper Woods	3,573	0	5,808	0	9,380
20	Highland Park	78,534	0	83,809	0	162,344
21	Redford Township	633	0	3,753	0	4,386
22	Wayne County #3	445	0	1,358	0	1,803
23	Wayne County #6	1,038	0	777	0	1,815
24	<i>SUBTOTALS:</i>	247,938	0	139,778	6,162	393,878
25	<i>SUBTOTAL SUBURBAN</i>	1,655,999	0	304,519	198,735	2,159,253
26	CITY OF DETROIT	4,297,379	0	1,224,618	0	5,521,997
27	TOTAL ALLOCATION VOLUME	5,953,378	0	1,529,137	198,735	7,681,250
28	Common Use Interceptor I/I		1,557,164			1,557,164
29	Common Use Sewer I/I			118,030		118,030
30	Customer Connections				0	0
31	TOTAL SYSTEM VOLUME	5,953,378	1,557,164	1,647,167	198,735	9,356,444

**Table 11
Calculation of Wet Weather Allocation Volumes - GDRSS Data
Look-Back Rate Year 2010-11 & Rate Year 2012-13**

Line No.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
	Wet Weather Flow							Overflow Percent	Overflow Volume (7) x (8) Mcf	Allo'd Storm Volume (7) - (9) Mcf		
	FY 2010-11		FY 2007-08 1/5 _{th}	FY 2008-09 1/5 _{th}	FY 2009-10 1/5 _{th}	Prior Method 1/5 _{th}	Wtd Avg					
Metered Flow	less: Total Dry	= Calc'd Wet										
OUTSIDE CITY												
Billing Meter Customers												
1	Allen Park	42,611	27,972	14,639	8,803	12,301	5,450	10,365	10,311	15.0%	1,547	8,765
2	Center Line	57,072	38,483	18,589	12,379	19,068	8,381	5,388	12,761	15.0%	1,914	10,847
3	Dearborn East	489,421	251,309	238,112	172,449	194,736	158,540	161,349	185,037	15.0%	27,756	157,281
4	Dearborn West	567,934	411,471	156,463	168,359	204,835	94,864	118,045	148,513	15.0%	22,277	126,236
5	Evergreen-Farmington	1,876,971	1,559,229	317,742	229,810	332,381	130,350	171,232	236,303	15.0%	35,445	200,858
6	Farmington	71,072	53,976	17,096	12,401	19,124	6,641	10,873	13,227	15.0%	1,984	11,243
7	Grosse Pointe Park	91,839	70,088	21,751	34,531	34,155	14,079	9,659	22,835	15.0%	3,425	19,410
8	Oakland Macomb Int Dist	4,167,283	3,496,637	670,645	235,525	178,096	(135,650)	158,244	221,372	15.0%	33,206	188,166
9	Melvindale	85,121	63,552	21,569	13,328	22,438	7,277	13,291	15,581	15.0%	2,337	13,244
10	N.E. Wayne County	1,620,339	937,831	682,508	429,704	696,222	324,938	314,944	489,663	15.0%	73,449	416,214
11	Rouge Valley	3,365,086	2,573,041	792,045	634,192	968,684	290,011	264,856	589,958	15.0%	88,494	501,464
12	George W Kuhn Drainage Dist	<u>2,972,975</u>	<u>1,819,255</u>	<u>1,153,720</u>	<u>901,169</u>	<u>1,202,348</u>	<u>613,639</u>	<u>721,286</u>	<u>918,432</u>	15.0%	<u>137,765</u>	<u>780,667</u>
13	SUBTOTALS:	<u>15,407,724</u>	<u>11,302,846</u>	<u>4,104,877</u>	<u>2,852,649</u>	<u>3,884,388</u>	<u>1,518,520</u>	<u>1,959,333</u>	<u>2,863,993</u>		<u>429,599</u>	<u>2,434,394</u>
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
Stormwater Runoff and Overflow												
		Area Served	Runoff Coefficient	Avg Annual Rainfall	Conversion Factor	Runoff Volume	Overflow Percent	Overflow Volume	Allo'd Storm Volume			
		(acres)		(inches)		(1)x(2)x(3)x(4) Mcf		(5) x (6) Mcf	(7) - (8) Mcf			
System Meter Customers												
14	Dearborn E. (Storm Only)		852	0.279	32.00	3.63	27,612	15.0%	4,142	23,470		
15	Dearborn N.E.		714	0.462	32.00	3.63	38,291	15.0%	5,744	32,547		
16	Grosse Pointe		675	0.167	32.00	3.63	13,095	15.0%	1,964	11,131		
17	Grosse Pointe Farms		1,369	0.172	32.00	3.63	27,346	15.0%	4,102	23,244		
18	Hamtramck		1,360	0.441	32.00	3.63	69,665	15.0%	10,450	59,215		
19	Harper Woods		173	0.064	32.00	3.63	1,285	15.0%	193	1,092		
20	Highland Park		1,870	0.406	32.00	3.63	88,181	15.0%	13,227	74,953		
21	Redford Township		49	0.332	32.00	3.63	1,899	15.0%	285	1,614		
22	Wayne County #3		17	0.298	32.00	3.63	578	15.0%	87	491		
23	Wayne County #6		81	0.354	32.00	3.63	<u>3,335</u>	15.0%	<u>500</u>	<u>2,834</u>		
24	SUBTOTALS:		<u>7,159</u>				<u>271,287</u>		<u>40,693</u>	<u>230,594</u>		
25	SUBTOTAL SUBURBAN						3,135,281		470,292	2,664,989		
CITY OF DETROIT												
System Meters												
26	Baby Creek		10,831	0.379	32.00	3.63	476,818	15.0%	71,523	405,296		
27	Central		21,844	0.489	32.00	3.63	1,240,802	15.0%	186,120	1,054,682		
28	Conner Creek		15,411	0.395	32.00	3.63	707,085	15.0%	106,063	601,022		
29	East Jefferson		2,452	0.400	32.00	3.63	113,943	15.0%	17,091	96,851		
30	Fox Creek		7,596	0.366	32.00	3.63	322,941	15.0%	48,441	274,500		
31	Hubbell		6,533	0.378	32.00	3.63	286,870	15.0%	43,030	243,839		
32	Oakwood		1,462	0.443	32.00	3.63	75,252	15.0%	11,288	63,964		
33	River Rouge		8,742	0.318	32.00	3.63	322,917	15.0%	48,438	274,480		
34	Southfield		<u>7,308</u>	<u>0.337</u>	<u>32.00</u>	<u>3.63</u>	<u>286,093</u>	15.0%	<u>42,914</u>	<u>243,179</u>		
35	SUBTOTALS:		<u>82,180</u>				<u>3,832,721</u>	15.0%	<u>574,908</u>	<u>3,257,813</u>		
36	TOTAL ALLOCATION VOLUME		82,180				6,968,001		1,045,200	5,922,801		

PRELIMINARY

Table 12
Calculation of Allocated Sanitary Volumes - Mcf
Prospective Rate Year 2012-13

Line No.	(1) Metered <u>Wastewater</u> <i>Table 1</i>	(2) Local <u>I/I</u> <i>Table 10</i>	(3) Total <u>Storm</u> <i>Table 11</i>	(4) Allocated <u>Sanitary</u> <i>(1) - (2) - (3)</i>	
OUTSIDE CITY					
<u>Billing Meter Customers</u>					
1	Allen Park	38,000	4,437	10,311	23,251
2	Center Line	50,000	2,665	12,761	34,573
3	Dearborn East	500,000	32,747	185,037	282,216
4	Dearborn West	575,000	145,121	148,513	281,366
5	Evergreen-Farmington	1,920,000	211,867	236,303	1,471,830
6	Farmington	65,000	8,166	13,227	43,607
7	Grosse Pointe Park	95,000	18,263	22,835	53,902
8	Oakland Macomb Int Dist	3,819,300	394,554	221,372	3,203,374
9	Melvindale	84,000	10,385	15,581	58,035
10	N.E. Wayne County	1,500,000	183,605	489,663	826,732
11	Rouge Valley	3,300,000	254,090	589,958	2,455,952
12	George W Kuhn Drainage Dist	<u>2,800,000</u>	<u>142,160</u>	<u>918,432</u>	<u>1,739,407</u>
13	<i>SUBTOTALS:</i>	<i>14,746,300</i>	<i>1,408,061</i>	<i>2,863,993</i>	<i>10,474,246</i>
		Metered <u>Water Sales</u> <i>Table 1</i>	Allocation <u>Factor</u>	Allocated <u>Sanitary</u> <i>(2) x (3)</i>	
<u>System Meter Customers</u>					
14	Dearborn E. (Storm Only)				0
15	Dearborn N.E.		35,000	0.90	31,500
16	Grosse Pointe		32,500	0.90	29,250
17	Grosse Pointe Farms		75,000	0.90	67,500
18	Hamtramck		80,000	0.90	72,000
19	Harper Woods		6,000	0.90	5,400
20	Highland Park		150,000	0.90	135,000
21	Redford Township		1,500	0.90	1,350
22	Wayne County #3		200	0.90	180
23	Wayne County #6		<u>3,250</u>	<u>0.90</u>	<u>2,925</u>
24	<i>SUBTOTALS:</i>		<i>383,450</i>		<i>345,105</i>
25	SUBTOTAL SUBURBAN				10,819,351
26	CITY OF DETROIT		3,775,000	0.99	<u>3,737,500</u>
27	TOTAL ALLOCATION VOLUME				14,556,851

Table 13
Calculation of Estimated Allocation Volumes - GDRSS Data - Mcf
Prospective Rate Year 2012-13

Line No.	(1) Allocated Sanitary <i>Table 12</i>	(2) Total Allocated I/I <i>Table 10</i>	(3) Allo'd Storm Volume <i>Table 11</i>	(4) Total Allocated Volume <i>(1)+(2)+(3)</i>	(5) Integrated System Flow Allocation Factor	
OUTSIDE CITY						
<u>Billing Meter Customers</u>						
1	Allen Park	23,251	4,437	8,765	36,453	0.13%
2	Center Line	34,573	11,154	10,847	56,574	0.20%
3	Dearborn East	282,216	34,445	157,281	473,942	1.68%
4	Dearborn West	281,366	145,121	126,236	552,723	1.96%
5	Evergreen-Farmington	1,471,830	313,316	200,858	1,986,004	7.05%
6	Farmington	43,607	8,308	11,243	63,158	0.22%
7	Grosse Pointe Park	53,902	18,441	19,410	91,753	0.33%
8	Oakland Macomb Int Dist	3,203,374	558,054	188,166	3,949,594	14.03%
9	Melvindale	58,035	10,635	13,244	81,913	0.29%
10	N.E. Wayne County	826,732	204,189	416,214	1,447,135	5.14%
11	Rouge Valley	2,455,952	254,090	501,464	3,211,506	11.40%
12	George W Kuhn Drainage Dist	<u>1,739,407</u>	<u>203,186</u>	<u>780,667</u>	<u>2,723,261</u>	<u>9.67%</u>
13	SUBTOTALS:	<u>10,474,246</u>	<u>1,765,375</u>	<u>2,434,394</u>	<u>14,674,016</u>	<u>52.11%</u>
<u>System Meter Customers</u>						
14	Dearborn E. (Storm Only)	0	1,519	23,470	24,989	0.09%
15	Dearborn N.E.	31,500	37,268	32,547	101,316	0.36%
16	Grosse Pointe	29,250	13,914	11,131	54,295	0.19%
17	Grosse Pointe Farms	67,500	28,785	23,244	119,529	0.42%
18	Hamtramck	72,000	132,664	59,215	263,879	0.94%
19	Harper Woods	5,400	9,380	1,092	15,873	0.06%
20	Highland Park	135,000	162,344	74,953	372,297	1.32%
21	Redford Township	1,350	4,386	1,614	7,350	0.03%
22	Wayne County #3	180	1,803	491	2,474	0.01%
23	Wayne County #6	<u>2,925</u>	<u>1,815</u>	<u>2,834</u>	<u>7,575</u>	<u>0.03%</u>
24	SUBTOTALS:	<u>345,105</u>	<u>393,878</u>	<u>230,594</u>	<u>969,577</u>	<u>3.44%</u>
25	SUBTOTAL SUBURBAN	10,819,351	2,159,253	2,664,989	15,643,592	55.55%
26	CITY OF DETROIT	<u>3,737,500</u>	<u>5,521,997</u>	<u>3,257,813</u>	<u>12,517,309</u>	44.45%
27	TOTAL ALLOCATION VOLUME	14,556,851	7,681,250	5,922,801	28,160,902	100.00%

Table 14
Units of Service Summary by Customer
Prospective Rate Year 2012-13

Line No.		(1)	(2)	(3)	(4)	(5)	(6)
		Allocation <u>Volume</u> Mcf	<u>BOD</u> lbs <i>(a)</i>	<u>TSS</u> lbs <i>(b)</i>	<u>PHOS</u> lbs <i>(c)</i>	<u>FOG</u> lbs <i>(d)</i>	New Wet Weather <u>Facilities</u>
OUTSIDE CITY							
<u>Billing Meter Customers</u>							
1	Allen Park	36,453	223,648	348,767	5,768	37,237	0.03%
2	Center Line	56,574	338,890	528,482	8,740	56,425	0.06%
3	Dearborn East	473,942	2,798,745	4,364,500	72,182	465,987	0.00%
4	Dearborn West	552,723	3,004,738	4,685,735	77,495	500,285	0.00%
5	Evergreen-Farmington	1,986,004	13,297,691	20,737,069	342,958	2,214,048	1.49%
6	Farmington	63,158	405,520	632,387	10,459	67,519	0.05%
7	Grosse Pointe Park	91,753	537,844	838,740	13,871	89,550	0.06%
8	Oakland Macomb Int Dist	3,949,594	27,945,085	43,578,932	720,727	4,652,820	2.65%
9	Melvindale	81,913	533,967	832,695	13,771	88,905	0.07%
10	N.E. Wayne County	1,447,135	8,355,796	13,030,437	215,503	1,391,229	1.17%
11	Rouge Valley	3,211,506	21,915,250	34,175,713	565,212	3,648,861	2.96%
12	George W Kuhn Drainage Dist	<u>2,723,261</u>	<u>16,720,902</u>	<u>26,075,392</u>	<u>431,246</u>	<u>2,784,008</u>	<u>2.26%</u>
13	SUBTOTALS:	<u>14,674,016</u>	<u>96,078,074</u>	<u>149,828,849</u>	<u>2,477,933</u>	<u>15,996,874</u>	<u>10.80%</u>
<u>System Meter Customers</u>							
14	Dearborn E. (Storm Only)	24,989	66,804	104,177	1,723	11,123	1.63%
15	Dearborn N.E.	101,316	441,817	688,991	11,395	73,562	0.00%
16	Grosse Pointe	54,295	303,903	473,921	7,838	50,599	0.23%
17	Grosse Pointe Farms	119,529	685,900	1,069,626	17,690	114,201	0.50%
18	Hamtramck	263,879	1,096,215	1,709,491	28,272	182,518	1.59%
19	Harper Woods	15,873	71,741	111,877	1,850	11,945	0.01%
20	Highland Park	372,297	1,727,987	2,694,708	44,566	287,708	2.06%
21	Redford Township	7,350	26,976	42,068	696	4,491	0.06%
22	Wayne County #3	2,474	7,592	11,839	196	1,264	0.03%
23	Wayne County #6	<u>7,575</u>	<u>36,125</u>	<u>56,335</u>	<u>932</u>	<u>6,015</u>	<u>0.08%</u>
24	SUBTOTALS:	<u>969,577</u>	<u>4,465,060</u>	<u>6,963,034</u>	<u>115,158</u>	<u>743,427</u>	<u>6.20%</u>
25	SUBTOTAL SUBURBAN	15,643,592	100,543,135	156,791,882	2,593,090	16,740,301	17.00%
26	CITY OF DETROIT	<u>12,517,309</u>	<u>53,748,165</u>	<u>83,817,518</u>	<u>1,386,210</u>	<u>8,948,999</u>	83.00%
27	TOTAL ALLOCATION VOLUME	28,160,902	154,291,300	240,609,400	3,979,300	25,689,300	100.00%
28	Industrial Monitored Customers		<u>4,398,000</u>	<u>6,157,000</u>	<u>71,000</u>	<u>1,163,000</u>	
29	TOTAL ASSIGNED UNITS OF SER	28,160,902	158,689,300	246,766,400	4,050,300	26,852,300	100.00%

(a) Based on 130 mg/l Sanitary, 43 mg/l DWII, and 43 mg/l wet weather
(b) Based on 202 mg/l Sanitary, 67 mg/l DWII, and 67 mg/l wet weather
(c) Based on 3.3 mg/l Sanitary, 1.1 mg/l DWII, and 1.1 mg/l wet weather
(d) Based on 21.6 mg/l Sanitary, 7.1 mg/l DWII, and 7.1 mg/l wet weather

TFG

Table 15
Estimated Detailed Units of Service
Prospective Rate Year 2012-13

Line No.	System Component	(1) Allocation Volume Mcf	(2) City Only Mcf	(3) Wholesale Only Mcf	(4) Clinton- Oakland Only Mcf	(5) Macomb Only Mcf	Common		(6) Common Mcf	(7) BOD lbs	(8) TSS lbs	(9) PHOS lbs	(10) FOG lbs	(11) New Wet Weather Facilities Factor
							Clinton- Oakland & Macomb Mcf	Common Except Macomb Mcf						
OUTSIDE CITY														
Billing Meter Customers														
1	Allen Park	36,453		36,453			36,453	36,453	36,453	223,648	348,767	5,768	37,237	0.03%
2	Center Line	56,574		56,574			56,574	56,574	56,574	338,890	528,482	8,740	56,425	0.06%
3	Dearborn East	473,942		473,942			473,942	473,942	473,942	2,798,745	4,364,500	72,182	465,987	0.00%
4	Dearborn West	552,723		552,723			552,723	552,723	552,723	3,004,738	4,685,735	77,495	500,285	0.00%
5	Evergreen-Farmington	1,986,004		1,986,004			1,986,004	1,986,004	1,986,004	13,297,691	20,737,069	342,958	2,214,048	1.49%
6	Farmington	63,158		63,158			63,158	63,158	63,158	405,520	632,387	10,459	67,519	0.05%
7	Grosse Pointe Park	91,753		91,753			91,753	91,753	91,753	537,844	838,740	13,871	89,550	0.06%
8	Oakland Macomb Int Dist	3,949,594		3,949,594		3,949,594		3,949,594	3,949,594	27,945,085	43,578,932	720,727	4,652,820	2.65%
9	Melvindale	81,913		81,913			81,913	81,913	81,913	533,967	832,695	13,771	88,905	0.07%
10	N.E. Wayne County	1,447,135		1,447,135			1,447,135	1,447,135	1,447,135	8,355,796	13,030,437	215,503	1,391,229	1.17%
11	Rouge Valley	3,211,506		3,211,506			3,211,506	3,211,506	3,211,506	21,915,250	34,175,713	565,212	3,648,861	2.96%
12	George W Kuhn Drainage Dist	2,723,261		2,723,261			2,723,261	2,723,261	2,723,261	16,720,902	26,075,392	431,246	2,784,008	2.26%
13	SUBTOTALS:	<u>14,674,016</u>	<u>0</u>	<u>14,674,016</u>	<u>0</u>	<u>3,949,594</u>	<u>10,724,422</u>	<u>10,724,422</u>	<u>14,674,016</u>	<u>96,078,074</u>	<u>149,828,849</u>	<u>2,477,933</u>	<u>15,996,874</u>	<u>10.80%</u>
System Meter Customers														
14	Dearborn E. (Storm Only)	24,989		24,989			24,989	24,989	24,989	66,804	104,177	1,723	11,123	1.63%
15	Dearborn N.E.	101,316		101,316			101,316	101,316	101,316	441,817	688,991	11,395	73,562	0.00%
16	Grosse Pointe	54,295		54,295			54,295	54,295	54,295	303,903	473,921	7,838	50,599	0.23%
17	Grosse Pointe Farms	119,529		119,529			119,529	119,529	119,529	685,900	1,069,626	17,690	114,201	0.50%
18	Hamtramck	263,879		263,879			263,879	263,879	263,879	1,096,215	1,709,491	28,272	182,518	1.59%
19	Harper Woods	15,873		15,873			15,873	15,873	15,873	71,741	111,877	1,850	11,945	0.01%
20	Highland Park	372,297		372,297			372,297	372,297	372,297	1,727,987	2,694,708	44,566	287,708	2.06%
21	Redford Township	7,350		7,350			7,350	7,350	7,350	26,976	42,068	696	4,491	0.06%
22	Wayne County #3	2,474		2,474			2,474	2,474	2,474	7,592	11,839	196	1,264	0.03%
23	Wayne County #6	7,575		7,575			7,575	7,575	7,575	36,125	56,335	932	6,015	0.08%
24	SUBTOTALS:	<u>969,577</u>	<u>0</u>	<u>969,577</u>	<u>0</u>	<u>0</u>	<u>969,577</u>	<u>969,577</u>	<u>969,577</u>	<u>4,465,060</u>	<u>6,963,034</u>	<u>115,158</u>	<u>743,427</u>	<u>6.20%</u>
25	SUBTOTAL SUBURBAN	<u>15,643,592</u>	<u>0</u>	<u>15,643,592</u>	<u>0</u>	<u>3,949,594</u>	<u>11,693,999</u>	<u>11,693,999</u>	<u>15,643,592</u>	<u>100,543,135</u>	<u>156,791,882</u>	<u>2,593,090</u>	<u>16,740,301</u>	<u>17.00%</u>
26	CITY OF DETROIT	<u>12,517,309</u>	<u>12,517,309</u>				<u>12,517,309</u>	<u>12,517,309</u>	<u>12,517,309</u>	<u>53,748,165</u>	<u>83,817,518</u>	<u>1,386,210</u>	<u>8,948,999</u>	<u>83.00%</u>
27	TOTAL	<u>28,160,902</u>	<u>12,517,309</u>	<u>15,643,592</u>	<u>0</u>	<u>3,949,594</u>	<u>24,211,308</u>	<u>24,211,308</u>	<u>28,160,902</u>	<u>154,291,300</u>	<u>240,609,400</u>	<u>3,979,300</u>	<u>25,689,300</u>	<u>100.00%</u>

**Table 16
Unit Costs of Service
Prospective Rate Year 2012-13**

Line No.	(1) Total System	(2) City Only	(3) Wholesale Only	(4) OMID Only	(5) Common	(6) BOD	(7) TSS	(8) PHOS	(9) FOG	(10) New Wet Weather Facilities	(11) Customer	(12) Industry Only	
													FLOW
<u>Revenue Requirements - \$</u>													
1	OM&R	238,823,601	10,112,600	4,363,300	3,706,000	41,070,400	39,856,000	75,269,800	19,866,400	5,128,400	10,019,400	9,623,300	21,075,200
2	Capital	<u>253,795,499</u>	<u>31,723,400</u>	<u>2,250,100</u>	<u>1,363,300</u>	<u>106,381,500</u>	<u>29,703,600</u>	<u>34,505,400</u>	<u>6,721,100</u>	<u>6,215,500</u>	<u>33,028,000</u>	<u>247,000</u>	<u>389,500</u>
3	Total	492,619,100	41,836,000	6,613,400	5,069,300	147,451,900	69,559,600	109,775,200	26,587,500	11,343,900	43,047,400	9,870,300	21,464,700
4	Units of Service		12,517,309	15,643,592	3,949,594	28,160,902	158,689,300	246,766,400	4,050,300	26,852,300	100%	Direct	Direct
5	Units		Mcf	Mcf	Mcf	Mcf	lbs	lbs	lbs	lbs	Factor	Direct	Direct
<u>Unit Costs of Service - \$/unit</u>													
6	OM&R		0.808	0.279	0.938	1.458	0.251	0.305	4.905	0.191	10,019,400	9,623,300	21,075,200
7	Capital		<u>2.534</u>	<u>0.144</u>	<u>0.345</u>	<u>3.778</u>	<u>0.187</u>	<u>0.140</u>	<u>1.659</u>	<u>0.231</u>	<u>33,028,000</u>	<u>247,000</u>	<u>389,500</u>
8	Total		3.342	0.423	1.283	5.236	0.438	0.445	6.564	0.422	43,047,400	9,870,300	21,464,700

Table 17
Distribution of Revenue Requirements to Customers
Prospective Rate Year 2012-13

Line No.	(1) Total \$	(2) City Only \$	(3) Wholesale Only \$	(4) OMID Only \$	(5) Common \$	(6) BOD \$	(7) TSS \$	(8) PHOS \$	(9) FOG \$	(10) New Wet Weather Facilities \$	(11) Customer \$	(12) Industry Only \$
OUTSIDE CITY												
Billing Meter Customers												
1	Allen Park	526,334	0	15,411	0	190,871	98,033	155,151	37,863	15,731	13,274	
2	Center Line	808,895	0	23,917	0	296,224	148,549	235,098	57,374	23,837	23,896	
3	Clinton-Oakland	0	0	0	0	0	0	0	0	0	0	
4	Dearborn East	6,520,996	0	200,361	0	2,481,585	1,226,797	1,941,568	473,826	196,859	0	
5	Dearborn West	7,249,363	0	233,666	0	2,894,086	1,317,092	2,084,471	508,700	211,348	0	
6	Evergreen-Farmington	30,118,184	0	839,592	0	10,398,816	5,828,887	9,224,983	2,251,292	935,337	639,277	
7	Farmington	936,204	0	26,700	0	330,696	177,755	281,321	68,654	28,524	22,554	
8	Grosse Pointe Park	1,283,552	0	38,789	0	480,426	235,758	373,117	91,057	37,831	26,574	
9	Oakland Macomb Int Dist	66,892,941	0	1,669,709	5,069,300	20,680,271	12,249,401	19,386,294	4,731,088	1,965,609	1,141,269	
10	Melvindale	1,227,797	0	34,629	0	428,901	234,058	370,428	90,400	37,558	31,823	
11	N.E. Wayne County	20,156,092	0	611,783	0	7,577,272	3,662,665	5,796,651	1,414,632	587,732	505,357	
12	Rouge Valley	49,506,909	0	1,357,679	0	16,815,609	9,606,294	15,203,227	3,710,240	1,541,481	1,272,379	
13	George W Kuhn Drainage Dist	39,317,666	0	1,151,271	0	14,259,129	7,329,412	11,599,761	2,830,839	1,176,119	971,135	
14	SUBTOTALS:	224,544,933	0	6,203,507	5,069,300	76,833,886	42,114,701	66,652,070	16,265,965	6,757,966	4,647,538	0
System Meter Customers												
15	Dearborn E. (Storm Only)	935,179	0	10,564	0	130,845	29,283	46,344	11,310	4,699	702,134	
16	Dearborn N.E.	1,179,370	0	42,832	0	530,496	193,665	306,501	74,799	31,077	0	
17	Grosse Pointe	822,359	0	22,953	0	284,289	133,212	210,826	51,451	21,376	98,252	
18	Grosse Pointe Farms	1,834,204	0	50,531	0	625,859	300,656	475,828	116,122	48,245	216,963	
19	Hamtramck	3,683,330	0	111,556	0	1,381,684	480,513	760,475	185,589	77,106	686,407	
20	Harper Woods	193,730	0	6,710	0	83,110	31,447	49,769	12,146	5,046	5,502	
21	Highland Park	5,365,881	0	157,390	0	1,949,366	757,443	1,198,754	292,547	121,544	888,837	
22	Redford Township	103,417	0	3,107	0	38,485	11,825	18,714	4,567	1,897	24,822	
23	Wayne County #3	39,387	0	1,046	0	12,957	3,328	5,267	1,285	534	14,970	
24	Wayne County #6	125,050	0	3,202	0	39,661	15,835	25,061	6,116	2,541	32,634	
25	SUBTOTALS:	14,281,907	0	409,891	0	5,076,752	1,957,207	3,097,539	755,932	314,065	2,670,521	0
26	SUBTOTAL SUBURBAN	238,826,840	0	6,613,398	5,069,300	81,910,638	44,071,908	69,749,609	17,021,897	7,072,031	7,318,059	0
27	CITY OF DETROIT	216,833,191	41,836,000	0	0	65,541,262	23,559,880	37,286,619	9,099,535	3,780,553	35,729,342	0
28	Subtotal	455,660,031	41,836,000	6,613,398	5,069,300	147,451,900	67,631,788	107,036,228	26,121,432	10,852,584	43,047,401	0
29	Industrial Surcharges	5,624,166	0	0	0	0	1,927,812	2,738,971	466,067	491,316	0	
30	Subtotal	461,284,197	41,836,000	6,613,398	5,069,300	147,451,900	69,559,600	109,775,199	26,587,499	11,343,900	43,047,401	0
31	Industrial Waste Control	21,464,700										21,464,700
32	Commercial - Retail Detroit	9,870,300										9,870,300
33	TOTAL	492,619,197	41,836,000	6,613,398	5,069,300	147,451,900	69,559,600	109,775,199	26,587,499	11,343,900	43,047,401	9,870,300

Table 18
Calculation of Adjustments to Cost of Service
Prospective Rate Year 2012-13

Line No.		(1) Initial Revenue Requirement Allocation \$	(2) Adjustment A \$	(3) Restated Revenue Requirement Allocation \$
	OUTSIDE CITY	<i>Adj Amt:</i>	5,253,348	
	<u>Billing Meter Customers</u>			
1	Allen Park	526,334	11,577	537,911
2	Center Line	808,895	17,793	826,688
3	Dearborn East	6,520,996	143,439	6,664,435
4	Dearborn West	7,249,363	159,460	7,408,823
5	Evergreen-Farmington	30,118,184	662,494	30,780,678
6	Farmington	936,204	20,593	956,797
7	Grosse Pointe Park	1,283,552	28,234	1,311,786
8	Oakland Macomb Int Dist	66,892,941	1,471,409	68,364,350
9	Melvindale	1,227,797	27,007	1,254,804
10	N.E. Wayne County	20,156,092	443,363	20,599,455
11	Rouge Valley	49,506,909	1,088,977	50,595,886
12	George W Kuhn Drainage Dist	39,317,666	864,850	40,182,516
13	<i>SUBTOTALS:</i>	<u>224,544,933</u>	<u>4,939,196</u>	<u>229,484,129</u>
	<u>System Meter Customers</u>			
14	Dearborn E. (Storm Only)	935,179	20,571	955,750
15	Dearborn N.E.	1,179,370	25,942	1,205,312
16	Grosse Pointe	822,359	18,089	840,448
17	Grosse Pointe Farms	1,834,204	40,346	1,874,550
18	Hamtramck	3,683,330	81,020	3,764,350
19	Harper Woods	193,730	4,261	197,991
20	Highland Park	5,365,881	118,030	5,483,911
21	Redford Township	103,417	2,275	105,692
22	Wayne County #3	39,387	866	40,253
23	Wayne County #6	125,050	2,751	127,801
24	<i>SUBTOTALS:</i>	<u>14,281,907</u>	<u>314,152</u>	<u>14,596,059</u>
25	SUBTOTAL SUBURBAN	238,826,840	5,253,348	244,080,188
26	CITY OF DETROIT	216,833,191	(5,253,348)	211,579,843
27	Subtotal	455,660,031	0	455,660,031
28	Industrial Surcharges	5,624,166		5,624,166
29	Subtotal	461,284,197	0	461,284,197
30	Industrial Waste Control	21,464,700		21,464,700
31	Commercial - Retail Detroit	9,870,300		9,870,300
32	TOTAL	492,619,197	0	492,619,197

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Table 19
Allocation of Revenue Requirements to Flow Components
Prospective Rate Year 2012-13

Line No.	(1) Total Allocated Rev Req't \$	(2) Related to Fixed Charges \$	(3) Related to Wholesale Only Costs \$	(4) New Wet Weather Facilities \$	(5) Subtotal to Recover on Volume \$	(6) (7) (8) Allocation to Volume Components			(9) (10) (11) Recoverable by:			
						Sanitary \$ ~Table 13	Infiltration \$ ~Table 13	Inflow \$ ~Table 13	Fixed Charges \$ (2)+(3)+(4)+(7)+(8)	Commodity Charges \$ (6)	Other Charges \$	
OUTSIDE CITY												
Billing Meter Customers												
1	Allen Park	537,911	0	15,411	13,274	509,226	324,800	61,989	122,437	213,111	324,800	
2	Center Line	826,688	0	23,917	23,896	778,875	475,985	153,556	149,333	350,702	475,985	
3	Dearborn East	6,664,435	0	200,361	0	6,464,074	3,849,131	469,790	2,145,153	2,815,304	3,849,131	
4	Dearborn West	7,408,823	0	233,666	0	7,175,157	3,652,547	1,883,880	1,638,731	3,756,276	3,652,547	
5	Evergreen-Farmington	30,780,678	0	839,592	639,277	29,301,809	21,715,611	4,622,714	2,963,484	9,065,067	21,715,611	
6	Farmington	956,797	0	26,700	22,554	907,543	626,608	119,381	161,554	330,189	626,608	
7	Grosse Pointe Park	1,311,786	0	38,789	26,574	1,246,423	732,233	250,517	263,673	579,553	732,233	
8	Oakland Macomb Int Dist	68,364,350	5,069,300	1,669,709	1,141,269	60,484,072	49,056,464	8,546,031	2,881,577	19,307,886	49,056,464	0
9	Melvindale	1,254,804	0	34,629	31,823	1,188,352	841,936	154,286	192,130	412,868	841,936	
10	N.E. Wayne County	20,599,455	0	611,783	505,357	19,482,315	11,130,025	2,748,938	5,603,352	9,469,430	11,130,025	
11	Rouge Valley	50,595,886	0	1,357,679	1,272,379	47,965,828	36,681,163	3,794,990	7,489,675	13,914,723	36,681,163	
12	George W Kuhn Drainage Dist	40,182,516	0	1,151,271	971,135	38,060,110	24,309,844	2,839,708	10,910,557	15,872,672	24,309,844	
13	SUBTOTALS:	<u>229,484,129</u>	<u>5,069,300</u>	<u>6,203,507</u>	<u>4,647,588</u>	<u>213,563,784</u>	<u>153,396,348</u>	<u>25,645,779</u>	<u>34,521,657</u>	<u>76,087,781</u>	<u>153,396,348</u>	<u>0</u>
System Meter Customers												
14	Dearborn E. (Storm Only)	955,750	0	10,564	702,134	243,052	0	14,774	228,278	955,750	0	
15	Dearborn N.E.	1,205,312	0	42,832	0	1,162,480	361,425	427,611	373,444	843,887	361,425	
16	Grosse Pointe	840,448	0	22,953	98,252	719,243	387,476	184,313	147,454	452,972	387,476	
17	Grosse Pointe Farms	1,874,550	0	50,531	216,963	1,607,056	907,532	387,014	312,510	967,018	907,532	
18	Hamtramck	3,764,350	0	111,556	686,407	2,966,387	809,385	1,491,334	665,668	2,954,965	809,385	
19	Harper Woods	197,991	0	6,710	5,502	185,779	63,204	109,790	12,786	134,788	63,204	
20	Highland Park	5,483,911	0	157,390	888,837	4,437,684	1,609,165	1,935,094	893,426	3,874,746	1,609,165	
21	Redford Township	105,692	0	3,107	24,822	77,763	14,283	46,400	17,080	91,409	14,283	
22	Wayne County #3	40,253	0	1,046	14,970	24,237	1,763	17,662	4,812	38,490	1,763	
23	Wayne County #6	127,801	0	3,202	32,634	91,965	35,513	22,038	34,414	92,288	35,513	
24	SUBTOTALS:	<u>14,596,059</u>	<u>0</u>	<u>409,891</u>	<u>2,670,521</u>	<u>11,515,647</u>	<u>4,189,746</u>	<u>4,636,029</u>	<u>2,689,872</u>	<u>10,406,313</u>	<u>4,189,746</u>	<u>0</u>
25	SUBTOTAL SUBURBAN	244,080,188	5,069,300	6,613,398	7,318,059	225,079,431	157,586,094	30,281,807	37,211,529	86,494,094	157,586,094	0
26	CITY OF DETROIT	<u>211,579,843</u>	<u>0</u>	<u>0</u>	<u>35,729,342</u>	<u>175,850,501</u>	<u>52,506,591</u>	<u>77,576,248</u>	<u>45,767,662</u>	<u>81,497,004</u>	<u>130,082,839</u>	
27	Subtotal	455,660,031	5,069,300	6,613,398	43,047,401	400,929,932	210,092,686	107,858,055	82,979,191	167,991,098	287,668,933	0
28	Industrial Surcharges	<u>5,624,166</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>5,624,166</u>						<u>5,624,166</u>
29	Subtotal	461,284,197	5,069,300	6,613,398	43,047,401	406,554,098	210,092,686	107,858,055	82,979,191	167,991,098	287,668,933	5,624,166
30	Industrial Waste Control	21,464,700	0	0	0	21,464,700						21,464,700
31	Commercial - Retail Detroit	<u>9,870,300</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>9,870,300</u>				<u>0</u>	<u>9,870,300</u>	
32	TOTAL	492,619,197	5,069,300	6,613,398	43,047,401	437,889,098	210,092,686	107,858,055	82,979,191	167,991,098	297,539,233	27,088,866

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Table 20
Calculation of Suburban Wholesale Commodity Rates
Prospective Rate Year 2012-13

Line No.	Commodity Revenue Requirement \$	Applicable FY 2013 Billable Volume Mcf	FY 2013 Commodity Rate \$/Mcf	
OUTSIDE CITY				
<u>Billing Meter Customers</u>				
1	Allen Park	324,800	38,000	8.55
2	Center Line	475,985	50,000	9.52
3	Dearborn East	3,849,131	500,000	7.70
4	Dearborn West	3,652,547	575,000	6.35
5	Evergreen-Farmington	21,715,611	1,920,000	11.31
6	Farmington	626,608	65,000	9.64
7	Grosse Pointe Park	732,233	95,000	7.71
8	Oakland Macomb Int Dist	49,056,464	3,819,300	12.84
9	Melvindale	841,936	84,000	10.02
10	N.E. Wayne County	11,130,025	1,500,000	7.42
11	Rouge Valley	36,681,163	3,300,000	11.12
12	George W Kuhn Drainage Dist	24,309,844	2,800,000	8.68
13	<i>SUBTOTALS:</i>	<i>153,396,348</i>	<i>14,746,300</i>	<i>10.40</i>
<u>System Meter Customers</u>				
14	Dearborn E. (Storm Only)	NA	NA	NA
15	Dearborn N.E.	361,425	35,000	10.33
16	Grosse Pointe	387,476	32,500	11.92
17	Grosse Pointe Farms	907,532	75,000	12.10
18	Hamtramck	809,385	80,000	10.12
19	Harper Woods	63,204	6,000	10.53
20	Highland Park	1,609,165	150,000	10.73
21	Redford Township	14,283	1,500	9.52
22	Wayne County #3	1,763	200	8.82
23	Wayne County #6	35,513	3,250	10.93
24	<i>SUBTOTALS:</i>	<i>4,189,746</i>	<i>383,450</i>	<i>10.93</i>
25	<i>"Average" Suburban</i>	<i>157,586,094</i>	<i>15,129,750</i>	<i>10.42</i>

Table 21
Calculation of Suburban Wholesale Fixed Monthly Charges
Prospective Rate Year 2012-13

Line No.		Fixed Basis Revenue Requirement \$	Fixed Charge \$/month
OUTSIDE CITY			
<u>Billing Meter Customers</u>			
1	Allen Park	213,111	17,759
2	Center Line	350,702	29,225
3	Dearborn East	2,815,304	234,609
4	Dearborn West	3,756,276	313,023
5	Evergreen-Farmington	9,065,067	755,422
6	Farmington	330,189	27,516
7	Grosse Pointe Park	579,553	48,296
8	Oakland Macomb Int Dist	19,307,886	1,608,991
9	Melvindale	412,868	34,406
10	N.E. Wayne County	9,469,430	789,119
11	Rouge Valley	13,914,723	1,159,560
12	George W Kuhn Drainage Dist	<u>15,872,672</u>	<u>1,322,723</u>
13	<i>SUBTOTALS:</i>	<u>76,087,781</u>	<u>6,340,649</u>
<u>System Meter Customers</u>			
14	Dearborn E. (Storm Only)	955,750	79,646
15	Dearborn N.E.	843,887	70,324
16	Grosse Pointe	452,972	37,748
17	Grosse Pointe Farms	967,018	80,585
18	Hamtramck	2,954,965	246,247
19	Harper Woods	134,788	11,232
20	Highland Park	3,874,746	322,896
21	Redford Township	91,409	7,617
22	Wayne County #3	38,490	3,208
23	Wayne County #6	<u>92,288</u>	<u>7,691</u>
24	<i>SUBTOTALS:</i>	<u>10,406,313</u>	<u>867,194</u>
25	<i>Total Suburban</i>	<u>86,494,094</u>	<u>7,207,843</u>