

**Common Council
of the
City of Waukesha, Wisconsin**

Resolution Number _____-14

A Resolution Adopting a Sewer Connection Charge Schedule for 2015

Whereas the City of Waukesha imposes a fee for the connection of building sewers to the City's wastewater treatment system, and requires the maintenance of a Sewer Connection Charge Schedule, pursuant to Municipal Code §29.14; and

Whereas §29.14 requires periodic revision of the Sewer Connection Charge Schedule to reflect changing costs; and

Whereas the City has conducted a cost study and analysis, and determined that revision to the Sewer Connection Charge Schedule is necessary to reflect current costs;

Now, therefore, be it resolved by the Common Council that the attached 2015 Sewer Connection Charge Schedule is adopted pursuant to Municipal Code §29.14, replacing all previous sewer connection charge schedules, effective as of January 1, 2015.

Passed the _____ day of _____, 2014.

Approved:

Shawn N. Reilly, Mayor

Attest:

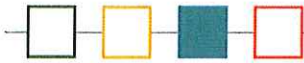
Gina L. Kozlik, City Clerk

For _____ Against _____ Absent _____

**City of Waukesha
Department of Public Works
2015 Sewer Connection Charge Schedule**

Published pursuant to Waukesha Municipal Code §29.14

Size of Water Meter Serving Property	Sewer Connection Charge
5/8"	\$1650.00
3/4"	\$2448.00
1"	\$4071.00
1½"	\$8143.00
2"	\$13,039.00
3"	\$24,428.00
4"	\$40,713.00
6"	\$81,400.00



Sewer Connection Charge Update

For

The City of Waukesha



December, 2014

Prepared by:

Jon Cameron
Financial Advisor

EXECUTIVE SUMMARY

INTRODUCTION

Chapter 29.14 of the City of Waukesha Municipal Code states that “All new users of wastewater collection and treatment services receiving such service for the first time after January 1, 1984, shall pay a sewer connection charge to the City.” The connection charge was initially established in 1984 and was last updated in 2002 via a resolution adopted by the Common Council.

The sewer connection charge is a one-time charge for new connections to the sanitary sewer system. The purpose for the charge is to recover the proportionate share of capital costs for excess capacity in the sanitary sewer collection system reserved for new development. The charge is established based upon the size of the new connection’s water meter. The City now desires to update the sewer connection charge to ensure that the charge is reflective of the current costs of sanitary sewer assets, and is fair and equitable to all new connections to the sanitary sewer system.

CONNECTION CHARGE METHODOLOGY

The sewer connection charge recovers capital costs associated with only the sewer collection system. The City has a separate sewer impact fee that recovers the proportionate share of capital costs for the Wastewater Treatment Facility from new development. The sewer connection charge is calculated on a “buy in basis”, whereby new development is buying into the value of excess capacity in the sewer collection system. To update the connection charge, the original cost of sewer collection system assets funded by the City were brought into today’s dollars and divided by the total capacity of the sewer collection system, in terms of the total number of equivalent meters able to be served, to arrive at a connection charge per equivalent meter. Sewer connection charges were then calculated for all meter sizes based upon the equivalency factors established in the previous connection charge update.

STUDY RESULTS

Table 1 shows the current number of water meters by meter size and customer class in the City of Waukesha. As shown in the table, the City currently has 20,048 meters ranging in size from 5/8” to 6” meters. Based on the meter equivalency factors from the existing connection charges, the City has 26,877 equivalent meters.

Table 2 shows the list of existing sanitary sewer collection system assets. As discussed above, the connection charge is calculated by examining the value of the City’s existing collection system assets and bringing them into today’s dollars. To accomplish this, the list of existing assets was prepared by the City Finance Department and shows the existing asset, year purchased, and original asset cost. The asset list was reviewed to remove any collection system assets contributed by private development. Only collection system assets funded via the sewer utility were included in the list shown on Table 2. The original cost of all sewer collection system assets were brought into December 31, 2013 dollars using the Engineering News Record Construction Cost Index for the Chicago region. As is shown on the table the original cost of sewer collection system assets net of

assets contributed by development is approximately \$33.8 million, which equates to approximately \$63.7 million in today's dollars.

Table 3 is the calculation of the sewer connection charge per equivalent meter. To calculate the updated connection charge the value of the collection system in today's dollars as was determined in table 2 was divided by the total amount of equivalent meters of capacity in the collection system. The total capacity of the collection system was determined dividing the peak hour capacity of the sanitary sewer collection system by the amount of billable flow including inflow and infiltration of the average 5/8" meter. The table shows that the sewer collection system has a total capacity of 38,594 equivalent meters. The value of the collection system divided by the number of equivalent meters of total capacity yields a connection charge of \$1,650 per equivalent meter.

Table 4 is the schedule of proposed connection charges by meter size and a comparison of the existing sewer connection charges to the proposed connection charges. Table 5 shows a comparison of the existing and proposed fees for new development compared to surrounding municipalities.

CONCLUSION

The sewer connection charges have been updated in accordance with the methodology explained on the first page of this Executive Summary. It is recommended that the Common Council adopt the proposed sewer connection charges listed in Table 4 of this report. If the Council does elect to adopt the proposed sewer connection charges, it is recommended that it do so via a resolution as was done in 2002 when the charges were last updated.

Table 1
City of Waukesha - Sewer Connection Charge Update
Customer Class and Meter Size

Meter Size	Residential	Commercial	Multi-Family	Industrial	Institutional	Total	Existing Equivalency Factors (2)	Total Existing Equivalent Meters
5/8	16,248	528	15	46	14	16,851	1	16,851
3/4	1,286	220	64	16	4	1,590	1.48	2,359
1	55	241	543	32	29	900	2.47	2,221
1 1/2		114	191	14	15	334	4.94	1,648
2		126	112	28	49	315	7.90	2,490
3		14	10	3	8	35	14.81	518
4		3	1	6	4	14	24.68	345
6		2		6	1	9	49.34	444
	17,589	1,248	936	151	124	20,048		26,877

Notes:

- (1) The existing meters by meter size and customer class were provided by the Waukesha Water Utility on 1/10/2014.
- (2) The equivalency factors are taken from the current schedule of sewer connection charges, adopted by resolution on 1/16/2002.

Table 2
City of Waukesha - Sewer Connection Charge Update
List of Existing Sewer Collection System Assets and Current Costs

ID	Asset Description ⁽¹⁾	Year Acquired ⁽¹⁾	Original Cost ⁽⁴⁾	Acquired Year- CCI ⁽²⁾	Current Year- CCI ⁽²⁾	Factor	Current Cost
16	BLUEMOUND/PEWAUKEE RD -	2000	93,425.74	7,747.96	13,592.96	1.75	163,905.38
38	PEBBLE VALLEY LIFT STAT	1970		1,381.00	13,592.96	9.84	-
39	NORTHVIEW RD LIFT STATI	1965	13,800.00	971.00	13,592.96	14.00	193,185.22
40	GREY TERRACE LIFT STATI	1950	6,000.00	510.00	13,592.96	26.65	159,917.18
41	HEYER DRIVE LIFT STATIO	1969	35,600.00	1,269.00	13,592.96	10.71	381,331.27
42	S WEST AVENUE LIFT STAT	1960	13,500.00	824.00	13,592.96	16.50	222,700.19
43	SUNSET DRIVE LIFT STATI	1965	11,700.00	971.00	13,592.96	14.00	163,787.47
44	GREENMEADOW DRIVE LIFT	1960	17,800.00	824.00	13,592.96	16.50	293,634.33
59	RUEBEN DR PUMP STA ADDI	1993	15,987.00	5,962.58	13,592.96	2.28	36,445.74
60	E SUNSET DR PUMP STATIO	1993	1,172.81	5,962.58	13,592.96	2.28	2,673.67
62	FOX RIVER PUMP STATION	1993	471,358.00	5,962.58	13,592.96	2.28	1,074,560.08
63	E RACINE AVE PUMP STATI	1993	236,736.00	5,962.58	13,592.96	2.28	539,689.69
98	MORELAND BLVD LIFT STAT	1950	4,300.00	510.00	13,592.96	26.65	114,607.31
99	BLUEMOUND LIFT STATION	1980	10,200.00	3,497.25	13,592.96	3.89	39,644.92
100	UNDERGROUND LIFT STATIO	1982	11,400.00	4,106.45	13,592.96	3.31	37,735.69
101	UNDERGROUND LIFT STATIO	1975	9,700.00	2,212.00	13,592.96	6.15	59,607.46
102	UNDERGROUND LIFT STATIO	1977	11,400.00	2,576.00	13,592.96	5.28	60,155.18
103	UNDERGROUND LIFT STATIO	1982	24,500.00	4,106.45	13,592.96	3.31	81,098.64
104	UNDERGROUND LIFT STATIO	1977	12,300.00	2,576.00	13,592.96	5.28	64,904.27
105	UNDERGROUND LIFT STATIO	1988	41,200.00	4,844.48	13,592.96	2.81	115,601.66
106	UNDERGROUND LIFT STATIO	1986	18,000.00	4,495.88	13,592.96	3.02	54,421.67
180	PUMP STATION EQUIPMENT	1994	38,285.22	6,177.81	13,592.96	2.20	84,238.50
181	PUMP STATION EQUIPMENT	1994	38,285.21	6,177.81	13,592.96	2.20	84,238.48
182	LIFT STATION EQUIPMENT	1994	51,340.88	6,177.81	13,592.96	2.20	112,964.71
201	LIFT STATION STANDBY GE	1994	24,361.56	6,177.81	13,592.96	2.20	53,602.44
225	Pre 1990 Collection Sys	1980	3,329,050.16	3,497.25	13,592.96	3.89	12,939,208.14
241	1990 Collection System	1990	179,798.00	4,998.80	13,592.96	2.72	488,914.74

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242	1991 Collection System	1991	694,904.00	5,384.16	13,592.96	2.52	1,754,368.79
243	1992 Collection System	1992	1,108,000.00	5,643.78	13,592.96	2.41	2,668,601.48
244	1993 Collection System	1993	193,303.00	5,962.58	13,592.96	2.28	440,675.00
245	1994 Collection System	1994	49,873.82	6,177.81	13,592.96	2.20	109,736.76
256	95 MISC ENG CHRGS, DPW	1995	16,413.03	6,333.93	13,592.96	2.15	35,223.26
267	Deer Path Pumping Statio	2001	140,000.00	7,679.62	13,592.96	1.77	247,800.59
268	River Hills Pump Statio	2001	16,979.25	7,679.62	13,592.96	1.77	30,053.34
269	WEST AVENUE LIFT STATIO	2006	202,373.53	10,522.78	13,592.96	1.29	261,419.06
284	Generator -Reuben Dr Li	2001	37,912.44	7,679.62	13,592.96	1.77	67,105.18
305	Washington, Glenwood, Wil	2001	235,187.09	7,679.62	13,592.96	1.77	416,282.15
306	Maple Lane Hills Sanita	2001	1,182,621.81	7,679.62	13,592.96	1.77	2,093,245.62
307	River Hills Sanitary Se	2001	33,695.91	7,679.62	13,592.96	1.77	59,641.90
308	Westly Dr. Sanitary Sewe	2001	77,726.21	7,679.62	13,592.96	1.77	137,575.72
309	Deer Path Sanitary Sewe	2001	161,950.00	7,679.62	13,592.96	1.77	286,652.19
310	Hillside Dr. Sanitary S	2001	32,300.00	7,679.62	13,592.96	1.77	57,171.14
311	Fox Ridge West Sanitary	2001	118,940.00	7,679.62	13,592.96	1.77	210,524.30
312	Emslie Dr Sanitary Sewe	2001	57,530.00	7,679.62	13,592.96	1.77	101,828.34
313	Endfield Est III Sanita	2001	33,350.00	7,679.62	13,592.96	1.77	59,029.64
314	River Hill 3 & 4 San Se	2001	350,300.00	7,679.62	13,592.96	1.77	620,032.49
315	River Hill Multi San Se	2001	52,950.00	7,679.62	13,592.96	1.77	93,721.72
316	N. University Dr. San S	2001	37,190.00	7,679.62	13,592.96	1.77	65,826.46
317	River's Crossing San Se	2001	18,920.00	7,679.62	13,592.96	1.77	33,488.48
318	Phoenix Hights Sanitary	2001	196,428.43	7,679.62	13,592.96	1.77	347,679.15
325	Pearl St San Sewer Repl	2009	44,832.01	12,378.76	13,592.96	1.10	49,229.46
368	RIVERS CROSSING	2000	123,568.00	7,747.96	13,592.96	1.75	216,786.73
369	DEER PATH PUMPING STATI	2000	114,087.00	7,747.96	13,592.96	1.75	200,153.33
370	RIVER HILLS PUMPING STA	2000	30,205.00	7,747.96	13,592.96	1.75	52,991.41

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373	HEYER DRIVE PUMP STATION	1995	353,832.25	6,333.93	13,592.96	2.15	759,343.35
375	FOX RIVER PUMP STATION/	1996	419,037.63	6,743.46	13,592.96	2.02	844,664.57
377	PEBBLE VALLEY PUMP STA	1997	116,327.15	6,625.83	13,592.96	2.05	238,646.37
378	PEBBLE VALLEY PUMP STAT	1997	123,752.09	6,625.83	13,592.96	2.05	253,878.72
379	SUMMIT AVE PUMP STATION	1998	641,630.66	7,086.96	13,592.96	1.92	1,230,663.06
453	BADGER DR PUMP STA UPGR	1999	20,115.71	7,464.71	13,592.96	1.82	36,629.96
456	KATOLIGHT GENERATOR AND	2005	46,652.37	10,125.85	13,592.96	1.34	62,626.23
539	Burr Oak Blvd. Pump Sta	2002	295,683.96	7,965.18	13,592.96	1.71	504,598.80
540	Cone View Lane Pumping	2002	350,458.26	7,965.18	13,592.96	1.71	598,073.75
541	Bluemound/Silvermail Rd	2002	166,922.32	7,965.18	13,592.96	1.71	284,860.91
542	Fiddler's Creek Pumping	2002	160,000.00	7,965.18	13,592.96	1.71	273,047.64
546	Pump Control Panel-GE L	2004	16,759.00	9,351.32	13,592.96	1.45	24,360.67
547	MADISON ST/HERITAGE HIL	2005	279,193.45	10,125.85	13,592.96	1.34	374,789.81
549	Moreland Blvd Pump Stat	2011	66,000.00	13,179.60	13,593.96	1.03	68,075.01
550	Grandview Blvd Pump Sta	2011	64,806.19	13,179.60	13,594.96	1.03	66,848.58
551	HOLLIDALE PUMP STATION	2012	148,690.39	13,547.07	13,595.96	1.00	149,227.00
552	BLUEMOUND RD PUMP STATI	2012	163,596.84	13,547.07	13,596.96	1.00	164,199.32
561	Coral Dr. San Sewer Corn	1999	39,891.89	7,464.71	13,592.96	1.82	72,641.65
562	Sanitary Laterals For T	1999	9,883.32	7,464.71	13,592.96	1.82	17,997.16
563	Phoenix Heights San Sew	1999	27,190.71	7,464.71	13,592.96	1.82	49,513.27
564	S. Moreland Blvd Sewer R	1999	100,626.26	7,464.71	13,592.96	1.82	183,236.69
565	E. Broadway Sewer Relay	1999	91,022.78	7,464.71	13,592.96	1.82	165,749.11
566	Corai Dr Extended San S	1999	16,426.88	7,464.71	13,592.96	1.82	29,912.74
567	Michigan Ave Sewage For	1999	49,338.70	7,464.71	13,592.96	1.82	89,843.94
568	Hickory Dr Water Latera	1999	7,959.83	7,464.71	13,592.96	1.82	14,494.56
570	San Sewer Pewaukee/ Blue	1999	89,666.20	7,464.71	13,592.96	1.82	163,278.82
572	Patricia Lane Sanitary	1999	51,929.39	7,464.71	13,592.96	1.82	94,561.49

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573	Oakdale Dr Sanitary Sew	1999	44,641.29	7,464.71	13,592.96	1.82	81,290.13
574	Fox Ridge West Sewer Main	2000	45,425.00	7,747.96	13,592.96	1.75	79,693.26
575	Homestead Pud Sewer Mai	2000	53,527.00	7,747.96	13,592.96	1.75	93,907.35
576	Tesch Court	2000	112,654.00	7,747.96	13,592.96	1.75	197,639.29
577	Wildflower Place	2000	22,207.00	7,747.96	13,592.96	1.75	38,959.79
578	Sunset Dr.- Richlonn	2000	9,401.00	7,747.96	13,592.96	1.75	16,493.04
579	Poplar Dr.- Surburban	2000	38,324.00	7,747.96	13,592.96	1.75	67,235.32
580	River Hills	2000	176,041.00	7,747.96	13,592.96	1.75	308,844.94
581	River's Crossing	2000	333,627.00	7,747.96	13,592.96	1.75	585,312.58
582	River's Crossing	2000	17,572.00	7,747.96	13,592.96	1.75	30,828.18
583	Brookstone Willows	2000	272,977.00	7,747.96	13,592.96	1.75	478,908.70
584	The Ponds	2000	45,828.00	7,747.96	13,592.96	1.75	80,400.28
585	Springbrook North	2000	38,663.00	7,747.96	13,592.96	1.75	67,830.06
587	Lawrence Lane	2000	30,705.00	7,747.96	13,592.96	1.75	53,868.61
588	Deer Path	2000	227,470.00	7,747.96	13,592.96	1.75	399,071.58
589	River's Crossing	2000	229,448.00	7,747.96	13,592.96	1.75	402,541.76
590	River Hill	2000	4,543.00	7,747.96	13,592.96	1.75	7,970.20
591	S Washington Ave. Oxfor	2000	34,156.40	7,747.96	13,592.96	1.75	59,923.72
592	S Washington Ave. Oxfor	2000	62,195.84	7,747.96	13,592.96	1.75	109,115.89
593	S Washington Ave. Oxfor	2000	159,300.40	7,747.96	13,592.96	1.75	279,475.37
594	S Washington Ave. Oxfor	2000	32,307.49	7,747.96	13,592.96	1.75	56,680.01
595	Foxridge West Sewer Main	2000	186,501.00	7,747.96	13,592.96	1.75	327,195.89
596	Bluemound/ Pewaukee Rd	2000	479,824.59	7,747.96	13,592.96	1.75	841,800.48
597	W. College Ave et al San	2000	383,730.02	7,747.96	13,592.96	1.75	673,212.92
598	Northview Road Sanitary	2000	514,161.14	7,747.96	13,592.96	1.75	902,040.25
599	Silvermail/ Bluemound Road	2000	753,774.42	7,747.96	13,592.96	1.75	1,322,415.91
600	Garfield Sanitary Sewer	2000	10,100.00	7,747.96	13,592.96	1.75	17,719.36

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601	Trillium Hill Sewer Mai	2000	84,980.00	7,747.96	13,592.96	1.75	149,088.24
602	Fiddler's Creek Force M	2000	115,910.00	7,747.96	13,592.96	1.75	203,351.59
603	Fiddler's Creek Sewer M	2000	44,310.00	7,747.96	13,592.96	1.75	77,737.12
604	Rivers Crossing Sewer M	2000	135,625.00	7,747.96	13,592.96	1.75	237,939.43
605	Villas of Waukesha Sewe	2000	28,920.00	7,747.96	13,592.96	1.75	50,737.02
606	E. Sunset Drive	2000	26,013.04	7,747.96	13,592.96	1.75	45,637.07
607	W. Newhall	2000	187,450.75	7,747.96	13,592.96	1.75	328,862.12
608	Villas of Waukesha	2000	61,300.00	7,747.96	13,592.96	1.75	107,544.24
609	Rivers Crossing	2000	389,400.00	7,747.96	13,592.96	1.75	683,160.29
610	Oakmont	2000	600,400.00	7,747.96	13,592.96	1.75	1,053,337.03
611	Rivers Hill No. 5	2003	58,400.00	8,348.45	13,592.96	1.63	95,086.98
612	Redmond- Grandview Pla	2003	161,100.00	8,348.45	13,592.96	1.63	262,303.28
613	BAA Sanitary Sewer Ente	2003	176,778.83	8,348.45	13,592.96	1.63	287,831.58
614	Waukesha Corporate Cent	2003	614,813.56	8,348.45	13,592.96	1.63	1,001,040.45
615	Heritage Hills Force Ma	2004	99,439.62	9,351.32	13,592.96	1.45	144,544.17
616	Spring City Commerce Ce	2004	126,533.45	9,351.32	13,592.96	1.45	183,927.42
617	Timber Ridge Sewer Syst	2004	223,150.00	9,351.32	13,592.96	1.45	324,368.01
618	Alpine Village Sewer Sy	2004	8,205.00	9,351.32	13,592.96	1.45	11,926.68
619	Deep Trail San Sewer Sy	2004	72,824.00	9,351.32	13,592.96	1.45	105,856.04
620	Tara Hills Condos Sewer	2004	38,991.00	9,351.32	13,592.96	1.45	56,676.82
621	Broadway (YMCA) Sewer M	2004	17,853.00	9,351.32	13,592.96	1.45	25,950.89
622	Oakmont Phase 2	2004	46,760.00	9,351.32	13,592.96	1.45	67,969.74
623	Dresser Highlands	2004	109,880.00	9,351.32	13,592.96	1.45	159,720.17
624	Heritage Hills	2004	258,395.00	9,351.32	13,592.96	1.45	375,599.69
625	River Hills Etates No 7	2004	26,900.00	9,351.32	13,592.96	1.45	39,101.50
626	Oakmont Phase 2 Sewer S	2005	78,426.00	10,125.85	13,592.96	1.34	105,279.21
627	Rolling Ridge # 7 Sewer	2005	235,952.00	10,125.85	13,592.96	1.34	316,742.41

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628	Welsh Oaks Sewer System	2005	162,077.00	10,125.85	13,592.96	1.34	217,572.47
629	Madison St Subdv Sewer	2005	270,586.00	10,125.85	13,592.96	1.34	363,235.15
630	Mary Street Relay	2005	45,142.47	10,125.85	13,592.96	1.34	60,599.34
631	Corporate Ct Sewer Syst	2005	29,796.91	10,125.85	13,592.96	1.34	39,999.43
632	Beechwood Ave Relay	2005	320,624.21	10,125.85	13,592.96	1.34	430,406.54
633	Motor Ave Relay	2005	128,492.21	10,125.85	13,592.96	1.34	172,488.18
634	Woodland Hills Sanitary	2006	173,276.00	10,522.78	13,592.96	1.29	223,831.89
635	Rolling Ridge S #8	2006	186,678.00	10,522.78	13,592.96	1.29	241,144.13
636	Life Care Hospital Sani	2006	151,545.00	10,522.78	13,592.96	1.29	195,760.54
637	Fox Lake Subdiv Sanitar	2006	632,505.89	10,522.78	13,592.96	1.29	817,049.04
638	Fox Lake Subdiv Pumping	2006	238,551.00	10,522.78	13,592.96	1.29	308,151.86
639	N Grandview Blvd Sanita	2006	359,588.33	10,522.78	13,592.96	1.29	464,503.66
640	Mapleton Court Sanitary	2006	141,936.35	10,522.78	13,592.96	1.29	183,348.42
641	Deer Trails Ph2 Sanitar	2007	91,904.00	11,137.98	13,592.96	1.22	112,161.04
642	Rivers Crossing No 3 Sa	2007	146,122.00	11,137.98	13,592.96	1.22	178,329.51
643	Deer Trails Ph2 Subdiv	2007	122,459.00	11,137.98	13,592.96	1.22	149,450.82
644	Oakland Ave San Sewer R	2007	354,162.72	11,137.98	13,592.96	1.22	432,225.56
645	Hinman Ave San Sewer Re	2007	95,728.78	11,137.98	13,592.96	1.22	116,828.86
646	East Ave San Sewer Rela	2007	55,022.29	11,137.98	13,592.96	1.22	67,150.04
647	River Valley Force Main	2008	102,189.51	11,857.66	13,592.96	1.15	117,144.35
648	Badger Dr San Sewer For	2008	369,049.53	11,857.66	13,592.96	1.15	423,057.80
649	N James St San Sewer Re	2008	106,053.02	11,857.66	13,592.96	1.15	121,573.27
650	Pearl Street Forcemain	2008	58,722.64	11,857.66	13,592.96	1.15	67,316.36
651	Turnberry Oak Dr San Se	2008	41,867.58	11,857.66	13,592.96	1.15	47,994.66
652	Bryce Commercial Ctr Sa	2008	41,535.00	11,857.66	13,592.96	1.15	47,613.41
653	Waukesha Rehb Clinic Sa	2008	103,835.00	11,857.66	13,592.96	1.15	119,030.65
654	Shoppes at Fox River Sa	2008	145,467.00	11,857.66	13,592.96	1.15	166,755.25

Table 2
City of Waukesha - Sewer Connection Charge Update
List of Existing Sewer Collection System Assets and Current Costs

ID	Asset Description ⁽¹⁾	Year Acquired ⁽¹⁾	Original Cost ⁽¹⁾	Acquired Year- CCI ⁽²⁾	Current Year- CCI ⁽²⁾	Factor	Current Cost
655	Comanche La San Sewer R	2009	125,984.37	12,378.76	13,592.96	1.10	138,341.85
656	Chicago/ Fourth San Sewe	2009	78,405.12	12,378.76	13,592.96	1.10	86,095.67
657	N Grandview/ Summit San	2009	524,478.21	12,378.76	13,592.96	1.10	575,922.90
658	S. West Ave. Forcemain	2010	110,588.63	12,742.71	13,592.96	1.07	117,967.59
659	N. University Dr. Relin	2010	300,083.32	12,742.71	13,592.96	1.07	320,106.21
660	S. Grand Ave. Sewer Mai	2010	499,239.39	12,742.71	13,592.96	1.07	532,550.85
661	W Sunset San Sewer Reli	2010	178,041.47	12,742.71	13,592.96	1.07	189,921.18
662	Dana Lane San Sewer (Ne	2010	85,020.64	12,742.71	13,592.96	1.07	90,693.59
663	Wisconsin Ave San Sewer	2010	60,802.86	12,742.71	13,592.96	1.07	64,859.90
664	Sunkist Ave San Sewer R	2010	40,753.04	12,742.71	13,592.96	1.07	43,472.26
665	Dunbar Oaks San Sewer M	2010	49,679.51	12,742.71	13,592.96	1.07	52,994.35
666	Overlook Trail San Sewe	2010	190,320.00	12,742.71	13,592.96	1.07	203,018.99
667	River Hills No 8 San Sew	2010	23,520.00	12,742.71	13,592.96	1.07	25,089.36
668	S West Ave Easement Mai	2010	45,900.00	12,742.71	13,592.96	1.07	48,962.65
669	Spring City Lane San Se	2010	24,383.00	12,742.71	13,592.96	1.07	26,009.94
670	Golf & Grandview Forcema	2011	366,225.30	13,179.60	13,592.96	1.03	377,711.45
671	Sentry Dr San Sewerreli	2011	543,639.13	13,179.60	13,592.96	1.03	560,689.62
672	Wesley Dr Sewer Main Ex	2011	113,623.85	13,179.60	13,592.96	1.03	117,187.51
673	W St. Paul San Sewer Rel	2011	97,692.86	13,179.60	13,592.96	1.03	100,756.86
674	Moreland Blvd Forcemain	2011	94,916.97	13,179.60	13,592.96	1.03	97,893.91
675	Dunbar; Franklin; Hamilito	2011	403,379.41	13,179.60	13,592.96	1.03	416,030.85
676	N&S West Ave San Sewer	2012	146,551.40	13,547.07	13,592.96	1.00	147,047.84
677	Eales Ave & Rock St Mai	2012	141,872.06	13,547.07	13,592.96	1.00	142,352.64
678	Heyer Ave Sanitary Sewe	2012	553,002.80	13,547.07	13,592.96	1.00	554,876.07
679	Northview Road Force Ma	2012	72,950.00	13,547.07	13,592.96	1.00	73,197.11
680	E Newhall Ave Sanitary	2012	429,883.53	13,547.07	13,592.96	1.00	431,339.74
681	Sunset Drive Forcemain	2012	19,330.06	13,547.07	13,592.96	1.00	19,395.54

Table 2
City of Waukesha - Sewer Connection Charge Update
List of Existing Sewer Collection System Assets and Current Costs

ID	Asset Description ⁽¹⁾	Year Acquired ⁽¹⁾	Original Cost ⁽¹⁾	Acquired Year- CCI ⁽²⁾	Current Year- CCI ⁽²⁾	Factor	Current Cost
682	N & S Grand Ave. Sanita	2012	35,142.98	13,547.07	13,592.96	1.00	35,262.03
683	S Mbreland Sanitary For	1995	138,509.89	6,333.93	13,592.96	2.15	297,249.80
684	Delafield St Sanitary S	1995	7,185.76	6,333.93	13,592.96	2.15	15,421.03
685	San Swr Relays/W Colleg	1995	84,363.11	6,333.93	13,592.96	2.15	181,047.85
686	S Mbreland Blvd Forcema	1995	126,167.35	6,333.93	13,592.96	2.15	270,762.03
687	Sntry Sewer Relay .N Gre	1995	16,724.41	6,333.93	13,592.96	2.15	35,891.50
688	Ridge Rd Sanitary Sewer	1995	10,817.24	6,333.93	13,592.96	2.15	23,214.39
689	Sanitary Sewer Wilkin/ C	1996	179,063.73	6,743.46	13,592.96	2.02	360,943.21
690	Sanitary Sewers New Dev	1996	33,022.44	6,743.46	13,592.96	2.02	66,564.15
691	Darlene Dr Interceptor	1997	248,388.90	6,625.83	13,592.96	2.05	509,572.44
692	Wauk Indu Park/ Glendon	1997	92,691.25	6,625.83	13,592.96	2.05	190,157.08
693	86 Developer Added San	1986	143,030.00	4,495.88	13,592.96	3.02	432,440.61
694	Sanitary Crossing @ Sth	1998	126,558.92	7,086.96	13,592.96	1.92	242,743.06
703	Interceptor Sewer Big B	1998	174,677.47	7,086.96	13,592.96	1.92	335,035.60
	Totals		33,759,478.00				63,672,588.46

Notes:

(1) Current list of assets including original installation cost and year installed provided by the City of Waukesha Finance Department, 11/27/13.

(2) Acquired Year Construction Cost Index (CCI) for each asset was taken from the Engineering News Record Construction Cost Index - Chicago. The current year CCI was taken from the Engineering News Record Construction Cost Index-Chicago for December, 2013.

Table 3
City of Waukesha - Sewer Connection Charge Update
Calculation of Fee per Equivalent Meter

Peak Hour Capacity of Sanitary Sewer Collection System (MGD) ⁽¹⁾	60
Avg Annual Billable Flow of 5/8 Residential Meter (gal) ⁽²⁾	58,500
Avg Annual Billable Flow of 5/8" Residential Meter incl I/I (gal) ⁽³⁾	97,500
I/I % = 40%	
Peak Hour Peaking Factor ⁽⁴⁾	582%
Peak Hour Definition of a 5/8" Equivalent Meter (MGD)	0.00155
Total Equivalent Meters of Capacity	38,594
Total Value of Sewer Collection System ⁽⁵⁾	\$63,672,588
Total Charge per Equivalent Meter	\$1,650

Notes:

(1) Represents the peak instantaneous flow capacity of the sewer collection system at the point of entry to the Wastewater Treatment Facility. Provided by Donahue and Associates and the City of Waukesha Engineering Department on 1/31/14.

(2) Taken from City of Waukesha billing records provided by the Waukesha Water Utility.

(3) The percent inflow and infiltration taken from influent flow records compared to billing records for the sewer utility for the past 5-years and the City of Waukesha Wastewater Treatment Plant Facilities Plan, Strand and Associates 2011.

(4) Peak hour factor calculated by taking peak hour flow capacity of the sewer collection system divided by average annual flow in MGD, provided by the City of Waukesha Wastewater Treatment Plant Facilities Plan, Strand and Associates 2011.

(5) Taken from Table 2.

**Table 4
City of Waukesha - Sewer Connection Charge Update
Proposed Sewer Connection Fee Schedule**

Meter Size	Existing Meter Equivalency Factors	Proposed Charge Based Upon Size of Water Meter
5/8	1.00	\$1,650
3/4	1.48	\$2,448
1	2.47	\$4,071
1 1/2	4.94	\$8,143
2	7.90	\$13,039
3	14.81	\$24,428
4	24.68	\$40,713
6	49.34	\$81,400

Comparison of Existing and Proposed Sewer Connection Fees

Meter Size	Existing Sewer Connection Charge ⁽¹⁾	Proposed Sewer Connection Charge	Dollar Change
5/8	\$310	\$1,650	\$1,340
3/4	\$460	\$2,448	\$1,988
1	\$765	\$4,071	\$3,306
1 1/2	\$1,530	\$8,143	\$6,613
2	\$2,450	\$13,039	\$10,589
3	\$4,590	\$24,428	\$19,838
4	\$7,650	\$40,713	\$33,063
6	\$15,295	\$81,400	\$66,105

Notes:

(1) Existing sewer connection charge schedule provided by City staff 3/18/2014. The current sewer connection charge schedule was adopted by resolution 1/16/2002.

Table 5
City of Waukesha - Sewer Connection Charge Update
Survey of Impact Fees & Reserve Capacity Assessments per Single-Family Residence Charged by Area Municipalities: 2014

Municipality	Water	Sewer	Parks	Law Enforcement	Fire	Library	Stormwater	Highway and Transportation	Public Works	Total
Delavan, City	\$3,618	\$5,476	\$1,636	\$0	\$576	\$0	\$0	\$0	\$0	\$11,306
Hartland, Village ⁽¹⁾	\$0	\$7,505	\$935	\$25	\$87	\$750	\$0	\$0	\$197	\$9,499
East Troy, Village ⁽²⁾	\$1,469-\$2,192	\$4,900	\$1,054	\$488						\$8,393-\$9,116
Oconomowoc, City	\$877	\$5,884	\$1,310	\$183	\$218	\$0	\$0	\$103	\$0	\$8,575
Mukwonago, Village ⁽³⁾	\$2,006	\$2,733	\$942	\$198	\$273	\$1,660	\$0	\$0	\$0	\$7,812
Nashotah, Village ⁽⁴⁾	\$0	\$6,439								\$6,439
Waukesha, City - Proposed ⁽⁵⁾	\$0	\$3,259	\$1,774	\$68	\$0	\$308	\$0	\$0	\$0	\$5,409
Kenosha ⁽⁷⁾	\$0	\$3,281	\$1,415	\$0	\$0	\$0	\$0	\$0	\$0	\$4,696
Waukesha, City - Existing ⁽⁵⁾	\$0	\$1,919	\$1,774	\$68	\$0	\$308	\$0	\$0	\$0	\$4,069
Waterford, Village ⁽⁴⁾	\$1,280-\$2,080	\$0	\$750	\$0	\$1,201	\$137	\$0	\$0	\$0	\$3,368-\$4,168
New Berlin, Village	\$809	\$2,204	\$284	\$23	\$174	\$154	\$0	\$0	\$0	\$3,648
Brookfield, City ⁽⁶⁾	\$0	\$0	\$1,043	\$0	\$0	\$0	\$0	\$0	\$0	\$1,043
Menomonee Falls, Village	\$2,544	\$2,674	\$2,682	\$0	\$1,744	\$0	\$0	\$0	\$0	\$9,644

Notes:

- (1) Includes area-wide special assessment for local sanitary sewer infrastructure and a fee to the Del-Hart Water Pollution Control Facility of \$4,339. The Del-Hart fee is frozen until the year 2017.
- (2) The water impact fee includes and additional fee for the boosted pressure zone. Sewer fee includes a connection fee and reserve capacity assessment.
- (3) The fee for sanitary sewer includes both an impact fee and a reserve capacity assessment.
- (4) The water impact fee includes an additional fee for the Waterford Centre Business/Industrial Planned Community Development District.
- (5) The impact fees were taken from the Impact Fee Schedule prepared October 21, 2014. The sewer fee includes the connection charge of \$310 per equivalent meter size. Fee is for a 5/8" meter.
- (6) Park impact fee includes a parkland fee of \$747, a bikeway fee of \$200 and a wetland preservation fee of \$96.
- (7) Park impact fee is at least \$1,415 or 5% of the land subject to development.

M 8-UZ Establish Increased Sewer Connection Charges to Reflect Costs

RESOLUTION
CITY OF WAUKESHA

WHEREAS, the City of Waukesha has adopted an ordinance relating to Sewer Use and Wastewater Treatment (Chapter 29, Municipal Code);

WHEREAS, the City of Waukesha requires that sewer connection charges be paid to the City according to the ordinance in Section 29.14;

WHEREAS, the sewer connection charges are to be updated to reflect costs and a schedule is to be provided to proposed users;

NOW, THEREFORE, be it resolved that the following sewer connection charges are to be paid to the City upon application to connect to the City sewer, effective upon adoption of this resolution.

3/8" water meter	\$ 310
1/2" water meter	460
1" water meter	765
1 1/2" water meter	1,530
2" water meter	2,450
3" water meter	4,590
4" water meter	7,650
6" water meter	15,295

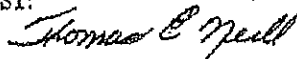
PASSED THIS 15th DAY OF January, 2002

APPROVED THIS 16th DAY OF January, 2002



Mayor

ATTEST:



City Clerk