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TOWN OF JERUSALEM

SEWER FUND

Keuka College Sewer Discussion Outline

CAPITAL AND USAGE CHARGE ALLOCATION

(FOR DISCUSSION PURPOSES ONLY)
Draft - August 11, 2011

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Town of Jerusalem

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Keuka Park Sewer & Water EDU's as of 8/4/2010 A

TOWN OF JERUSALEM

ANNUAL UTILITY RATE REVIEW

- (1) Review latest actual year-end results
- (2) Review trend of fund balance:
 - Appropriated
 - Unappropriated
- (3) Review reserves:
 - Current levels
 - Contributions to
 - Needs from (long-range plan update)
- (4) New capital projects - review needs:
 - Authorization dates
 - Financing - bonds, grants, cash, other?
 - Construction dates
 - Borrowing / cash flow needs
 - Debt service impacts
- (5) Existing debt fall off:
 - Timing of
 - Amount of
- (6) July Review any increase / decrease in EDU's, service area, or usage
- (7) August
 - Updated College EDU allocation / Calculation Report due to Town
 - Update "Projected Revenues" column to compare to Budget with Sewer Dept
- (8) Oct / Nov Rates / Projected costs to College
- (9) Review budgeting trends (what is relationship of expenses to CPI - NE?)
- (10) Does current rate structure suffice?
 - Allocations of user types - shifting? Consistent?
 - Rate levels?

Town of Jerusalem

SEWER USERS

Keuka Park Sewer & Extensions

Sewer District	As of May 31, 2011 Billing		2011 Budget Preparation	
	EDU's for Capital Charge	# of Minimums Charged	EDU's for Capital Charge	# of Minimums Charged
Original - Non-College ³	139.0	139.0	139	139
- College	342.0 ³	342.0	342 ³	342
Extension #1	239.5	239.5	234	234
Extension #2	276.5 ¹	287.5	272 ¹	283
Extension #3	15.5	15.5	9	9
Total	1,012.5	1,023.5	996	1,007

Notes: 1 12 properties paid a lump-sum payment for the sewer bond. They are not included in the EDU Capital Charge count because they do not contribute.

2 In addition to the minimum fees and bond payments in Sewer Extension #2, \$18/quarter is collected for the grinder pump reserve. There are 280 grinder pumps in Sewer Extension #2

3 Keuka College is a minimum 245 units or 1 unit per 48,000 gallons per year per unit, whichever is greater. (Currently billing 342 units) (Per Town Code Book, Chapter 131-27)

Town of Jerusalem

SEWER FUND

2011 Budget Breakdown - REVENUES

	<u>BUDGET</u>	<u>Projected</u>	<u># Units</u>	<u>Quarterly Rate</u>
O & M	\$445,558 \$133,480	\$451,776 \$139,236	= 283	\$156 \$123
Debt Service #1	\$20,054	\$14,480	= 724	\$5
Debt Service #2	\$184,336	\$184,960	= 272	\$170
Grinder Pump Fee	\$20,000	\$20,088	= 279	\$18
Other	\$6,200	TBD?		
TOTAL (W/O Fund Bal + Transfers)	\$809,628			
District Orig + 1 + 3	\$471,812			

TOWN OF JERUSALEM
Keuka College History of Water Meter Readings

Meter #	03/31/08	06/30/08	09/30/08	12/31/08	03/31/09	06/30/09	09/30/09	12/31/09	03/31/10	06/30/10	09/30/10	12/31/10
2	12,630	16,210	11,900	20,260	10,480	13,230	8,270	19,330	14,430	18,140	9,620	18,900
3	602,700	638,700	638,700	600	1,200	333,200	737,800	300	200	14,700	467,300	700
4	37,150	37,150	30,110	1,650	200	22,470	38,580	1,140	220	7,460	20,840	1,010
5	273,800	389,900	316,200	418,700	339,700	395,200	274,300	439,200	316,700	301,600	272,300	397,400
6	9,050	12,350	36,020	39,880	8,470	32,550	29,340	16,270	11,870	12,450	18,760	5,370
7	360,000	335,000	317,000	457,000	395,000	411,000	308,000	494,000	274,000	310,000	302,000	459,000
8	254,000	315,900	426,670	364,930	269,300	306,100	363,100	377,700	300,400	331,600	400,500	360,700
9	59,800	78,400	71,300	69,100	89,100	82,300	116,100	89,600	50,500	78,500	539,900	81,900
10	333,200	381,000	437,700	617,600	432,900	470,100	384,900	682,500	62,000	503,600	92,260,000	92,000
11	101,000	224,000	384,000	85,000	71,000	146,000	312,000	113,000	179,000	239,000	289,000	277,000
12	264,000	263,000	282,000	332,000	242,000	307,000	234,000	260,000	77,700	90,800	78,100	92,600
13	68,300	90,700	70,800	94,000	71,600	93,000	73,700	103,100	38,000	39,500	27,900	51,100
14	26,400	31,300	24,000	33,100	25,100	34,000	22,200	37,600	7,320	8,220	23,230	7,530
15	10,920	19,970	55,340	14,530	6,330	9,330	13,890	7,830	7,320	8,220	23,230	7,530
16	10	50	20	180	20	110	-	1,360	1,510	1,470	1,580	1,870
17	5,460	10,580	8,190	5,230	10,130	15,270	6,580	14,140	7,060	6,460	6,850	4,610
18	6,810	4,900	4,680	4,380	4,560	5,000	4,110	3,550	4,120	4,700	4,300	4,470
19	3,400	3,430	3,460	2,880	2,940	3,550	3,560	2,520	2,850	2,470	2,700	2,300
20	428,000	404,000	404,000	546,000	505,000	603,000	508,000	470,000	347,000	327,000	271,000	417,000
21	132,900	155,900	21,060	24,210	21,940	24,480	11,140	56,700	21,340	26,950	21,200	19,990
22	14,320	18,310	306,200	387,800	351,400	345,100	235,400	471,100	328,200	336,800	245,800	403,700
23	345,600	332,800	34,740	40	70	770	1,340	9,090	13,060	17,910	1,740	62,480
24	500	0	0	0	0	0	0	0	0	0	0	0
25	660	710	1,050	860	670	630	590	540	780	510	1,180	1,380
26	14,000	15,600	41,200	11,800	11,200	13,600	10,300	8,100	7,300	9,100	7,900	6,500
28	177,200	147,800	140,700	166,400	187,100	148,900	119,000	162,500	169,400	114,700	75,300	53,900
29	8,400	10,300	6,300	4,000	6,200	3,700	9,000	5,900	4,100	4,500	4,700	5,000
30	4,670	6,730	9,120	5,030	7,570	6,010	8,390	7,540	4,930	6,180	19,160	40,810
31	410	3,770	3,860	3,780	11,290	3,750	3,430	4,320	3,780	3,780	2,970	4,370
32	8,890	11,840	11,510	11,240	9,410	11,740	11,760	12,180	8,780	26,740	21,920	24,040
33	390	5,720	5,340	5,560	4,770	5,390	5,830	5,140	20	750	8,010	850
34	10,740	13,580	17,220	16,900	22,250	22,630	17,070	17,900	21,770	16,220	22,270	23,370
36	3,200	5,030	3,370	3,980	3,550	5,210	8,230	4,160	2,730	3,530	6,820	13,070
37	6,250	5,570	5,990	5,690	7,310	5,750	6,290	4,880	4,700	5,740	6,580	4,670
38	8,510	10,610	10,220	8,910	9,810	8,460	12,720	13,380	13,000	19,990	16,510	19,870
39	15,000	29,410	19,720	440	36,160	9,200	23,400	21,190	15,150	5,400	7,060	5,800
40	10,860	11,760	12,430	12,820	12,120	11,940	10,950	14,180	14,090	14,120	16,350	17,740
42	3,900	9,500	10,900	10,600	11,000	11,100	13,500	10,900	17,400	12,300	14,300	9,300
43	18,800	15,700	22,500	20,500	18,900	16,900	20,100	17,900	19,200	18,500	20,900	21,500
44	2,869,090	4,008,180	4,341,420	3,807,580	3,187,750	3,937,680	4,085,880	3,980,740	2,868,210	3,201,710	3,673,470	3,682,000
GROSS TOTAL		15,026,270		3,807,580		15,192,050		3,980,740		13,425,390		3,682,000
LESS IRRIGATION	0	(772,750)	(824,710)	(2,250)	(1,400)	(355,670)	(894,380)	(1,440)	(420)	(22,160)	(509,340)	(1,710)
NET TOTAL	2,869,090	3,235,430	3,516,710	3,805,330	3,186,350	3,582,010	3,191,500	3,979,300	2,867,790	3,179,550	3,164,130	3,680,290
NET TOTAL		13,426,560		89,35%		13,939,160		91,75%		12,891,760		96,03%
GROSS TOTAL		15,138,954		13,240,554		13,419,160						
3 Year Averages:												
2005-2007												
2006-2008												
2007-2009												
2008-2010												

cabk/sj/fjms
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Keuka College Water & Sewer Consumption & Billing.xls
KC History

**KC Net Total - Water Meter Readings
Summary for Years 2005-2010**

(KC Irrigation Water Meter Not Included)

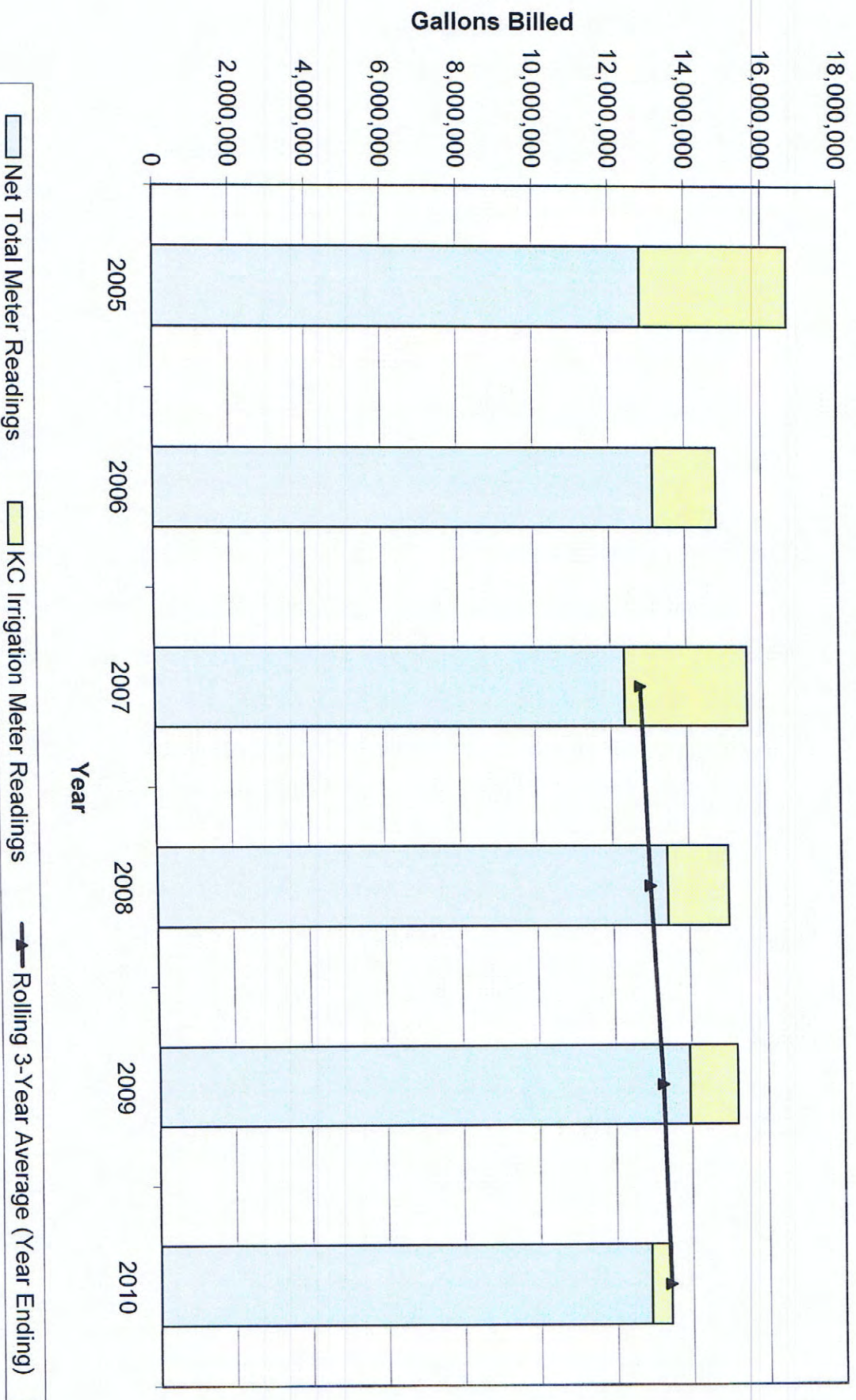
KC Net Gallons (By Year)	
2005	12,829,900
2006	13,146,750
2007	12,355,942
2008	13,426,560
2009	13,939,160
2010	12,891,760
2011	

Average 13,098,345

KC Total Net Gallons (Rolling 3-Year Averages)	
2005-2007	12,777,531
2006-2008	12,976,417
2007-2009	13,240,554
2008-2010	13,419,160
2009-2011	

Average 13,103,416

Sewer Fund (Rolling 3-Year Average vs. Net Total Meter Readings)



Net Total Meter Readings
 KC Irrigation Meter Readings
 Rolling 3-Year Average (Year Ending)

TOWN OF JERUSALEM
Proposed Keuka College Sewer EDU Allocation

(0) CURRENT ALLOCATION

Students = 1,368 (Keuka Magazine Winter 2007)
If 4 students = 1 EDU, then 1,368 / 4 = 342 EDU's
then 342 / 996 34.34%

(1) CONSUMPTION BASIS - 40,000 GALLON DIVISOR

ACTUAL BILLED CONSUMPTION - LESS IRRIGATION					
	GROSS Keuka College	LESS Irrigation	NET Keuka College	40,000 Gallon Divisor	Keuka College EDU's
2008	15,026,270	(1,599,710)	13,426,560	40,000	336
2009	15,192,050	(1,252,890)	13,939,160	40,000	348
2010	13,425,390	(533,630)	12,891,760	40,000	322
3 YEAR AVERAGE	14,547,903	(1,128,743)	13,419,160	40,000	335
Non-Keuka College EDU's					
Keuka College EDU's based on divisor					
TOTAL EDU's 335.5					
33.90%					

(2) CONSUMPTION BASIS

ACTUAL BILLED CONSUMPTION - LESS Irrigation					
	GROSS Keuka College	LESS Irrigation	NET Keuka College	Total Waste-water Flow	Keuka College Percentage
2008	15,026,270	(1,599,710)	13,426,560	34,952,035	38.41%
2009	15,192,050	(1,252,890)	13,939,160	39,401,750	35.38%
2010	13,425,390	(533,630)	12,891,760	34,358,910	37.52%
3 YEAR AVG	14,547,903	(1,128,743)	13,419,160	36,237,565	37.10%
Non-Keuka College EDU's					
Keuka College EDU's based on percentage used					
TOTAL EDU's 385.8					
37.10%					

TOWN OF JERUSALEM
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200Y BUDGET Cost Allocation - Original + Extension 1 + Extension 3

	KC Using 40,000 Gallon Divisor 2011 BUDGET		KC Using Consumption Basis 2011 BUDGET	
200Y O & M + DS (for Original + 1)	\$471,812	\$471,812	\$471,812	
TOTAL EDU COUNT	996.0	989.5	1,039.8	
LESS Extension #2	(272.0)	(272.0)	(272.0)	
Orig + Ext. 1 + Ext. 3 (200Y Budget EDU Count)	724.0	717.5	767.8	
Minimum 200Y Budget Cost / EDU / Qtr	\$162.92	\$164.40	\$153.62	
Rate used for Budget	\$161.00	(2012 Budget to be Determined...)		

Proposed Cost Allocation Options - Original + Extension 1 + Extension 3

	KC EDU's	TOTAL EDU's	200Y Qtrly RATE / EDU	200Y RATE / EDU	200Y KC Cost	Quarterly
(0) CURRENT ALLOCATION	342.0	996.0	\$161.00	\$644.00	\$220,248	\$55,062
(1) 40,000 GALLON DIVISOR BASIS	335.5	989.5	\$164.40	\$657.60	\$220,624	\$55,156
(2) CONSUMPTION BASIS	385.8	1,039.8	\$153.62	\$614.49	\$237,077	\$59,269

8/5/10 CCJen
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KEUKA PARK SEWER & EXTENSIONS

SEWER DISTRICT	EDU'S	# OF MINIMUMS CHARGED	Grinder Pumps
ORIGINAL	481	481	0
SEWER EXT #1	234	234	0
SEWER EXT #2	272	283	279
SEWER EXT #3	9	9	0
TOTALS	996	1007	279

KEUKA PARK WATER & EXTENSIONS

WATER DISTRICT	EDU'S	# OF MINIMUMS CHARGED
ORIGINAL, Ext 1, Ext 2, Ext 3	1648	1415

8/4/2010

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