

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 33 of 312

Witness: Paul Herbert

33. RE: Testimony of Paul Herbert, p. 8, lines 12-18. Please provide copies of the witness's analyses, notes, and workpapers regarding the "field studies of customer class demands conducted for the Company, field observations of the service areas of the Company, ... and generally-accepted customer class maximum day and maximum hour demand ratios."

Response:

The field study conducted by the Company was prepared by Burgess & Niple in 1999. A copy of the report is attached.

The generally-accepted customer class demand ratios can be found in the examples presented in the AWWA M1 manual.

For electronic version, refer to KAW_R_AGDR1#33_061807.pdf

Customer Class Water Demand Study - 1999

Kentucky-American Water Company

April 2000



BURGESS & NIPLE

KENTUCKY-AMERICAN WATER COMPANY

CUSTOMER CLASS WATER DEMAND STUDY – 1999

APRIL 2000

**Burgess & Niple, Limited
Engineers and Architects
5085 Reed Road
Columbus, OH 43220**

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INTRODUCTION

During the summer of 1999, June, July, August and September, the Kentucky-American Water Company (KAWC) installed *FloSearch* devices on a representative sample of customers in the commercial, other public authority (OPA), industrial and other water utility (OWU) customer classes in order to perform a customer class water demand study. Meters were read on a daily basis for 204 residential customers during the months of June, July, August and September in order to estimate the maximum day demand factor for the residential customer class.

During the summer of 1997 a similar type of demand study was also prepared but in the 1997 study, because of technical difficulties, the detailed information required to estimate the residential class maximum day demand was lost.

The purpose of a demand study is to determine the maximum day and maximum hour water use requirements (load factors) for each customer class. The estimated maximum day and maximum hour load factors that were calculated in the 1997 and 1999 demand studies should be considered in conjunction with other factors when future KAWC Cost of Service studies are prepared in order to allocate costs attributable to peak water demand requirements. Many components in water systems are designed and sized based upon maximum system demands. The cost of operation is also affected by peak demands placed upon the water system. Therefore, it is desirable to have information on customer class load factors for use in the cost allocation process.

However, the maximum day demand factors calculated in the 1999 demand study for the commercial, OPA, Industrial and OWU customers may need to be tempered because the 1999 summer was unusually hot and dry. There were also drought conditions. These conditions created unusually high demand factors for these customers. Because of the drought conditions, water use such as lawn watering was restricted. The water use restrictions during the summer of 1999 actually lowered the maximum day demand factors for the residential customer class. The five highest maximum day demand factors for the residential customers were 1.57, 1.59, 1.64, 1.66 and 1.77. The average is 1.65, which equals 165 percent. Normally the residential customer class maximum day demand is about 200 percent. Because of the water use restrictions, you can justify increasing the residential customer class demand factor 10 to 20 percent. If you increased the average of the five highest demand factors by 15 percent the result would be 190 percent (165 x 1.15).

A comparison of the 1997 and 1999 customer class demand factors are shown in the following table. The percents are based on the average of the five highest maximum day and maximum hour demand factors for all of the customer classes. The maximum day demand factor for the residential customer class was increased to 190 percent from 165 percent as previously stated.

Customer Class	Maximum Day		Maximum Hour	
	1997 Demand (%)	1999 Demand (%)	1997 Demand (%)	1999 Demand (%)
Commercial	167	185	276	262
OPA	160	174 / 168	225	208
Industrial	153	169	203	213
OWU	144	169	161	191
Residential	N/A	190	N/A	N/A

The demand study was a joint effort between KAWC and Burgess & Niple (B&N). KAWC performed all of the *FloSearch* water metering functions and B&N analyzed the raw data to determine customer class demands.

Auxiliary *FloSearch* metering equipment was installed on existing water meters to determine and record hour-by-hour water demands. Commercial, OPA, industrial and OWU customers were monitored during the months of June, July, August and September. Approximately 25 percent of the OPA customer class water usage was monitored with the *FloSearch* equipment, 74 percent of the industrial class water usage, 50 percent of the OWU class water usage, and 4 percent of the commercial class water usage. The largest number of customers that were successfully monitored were 18 commercial, 10 OPA, 6 industrial, and 4 OWU. More commercial, OPA and OWU customers were monitored than the number of customers indicated above but the *FloSearch* equipment malfunctioned on about 10 percent of the total number of customers that were monitored. The largest numbers of customers monitored were commercial customers but there are a total of about 7,709 commercial customers served by KAWC. There are about 430 OPA customers, 15 industrial customers and 8 OWU customers.

The report explains in detail how the maximum day and maximum hour load factors for each customer class were calculated. The following is a list of schedules in the demand study report.

Schedule 1 – Average Water Usage by Customer Class for the Monitored Customers

Schedule 2 – Commercial Class Composite Maximum Day

Schedule 2A – Commercial Class, Composite Maximum Hour

Schedule 3 – OPA Class, Composite Maximum Day

Schedule 3A – OPA Class, Composite Maximum Hour

Schedule 4 – Industrial Class, Composite Maximum Day

Schedule 4A – Industrial Class, Composite Maximum Hour

Schedule 5 – OWU, Composite Maximum Day

Schedule 5A – OWU Composite, Maximum Hour

Schedule 6 – Residential, Maximum Day Demand

Back up information is available to support the data shown on the schedules in this report. However, any request for supporting information should be as specific as possible in order to minimize the amount of backup information that will have to be retrieved and supplied.

MAXIMUM DAY DEMAND LOAD FACTORS

Schedule 4, the industrial user class composite maximum day demand information, will be used to explain how the maximum day load factors were calculated for each customer class. The peak maximum day demand factor, 1.75 occurred on July 30. The demand factor was calculated as follows. On Schedule 4, page 2/4 the columns with customer headings list the water usage in cubic feet that was recorded by the *FloSearch* equipment. On July 30, the customers monitored included Crest Products, General Electric, Pepsi Cola, Proctor and Gamble, The Trane Co., and Toyota. The total monitored usage was 505,826 cu. ft. which is equal to 3,793,695 gallons. The average daily billed usage for the six customers that were monitored, 2,162,679 gallons/day, is shown on Schedule 1 page 8/8 report page 17. Schedule 1 shows the average daily billed usage in gallons/day for all of the groups of customers that were monitored in each customer class. The demand factor was calculated by dividing the *FloSearch* usage by the average usage ($3,793,695 \text{ gallons} / 2,162,679 = 1.75$).

The maximum day and also the maximum hour demand factor for the customer classes will vary from year to year. In particular, 1999 was drought influenced. It would be appropriate to set the demand factors based on the average of the five highest demand factors that were calculated from the 1999 *FloSearch* data. This would especially be appropriate for the commercial customer class since only 4 percent of the commercial water usage was monitored.

The five highest maximum day demand factors for the industrial customer class based on monitoring six customers occurred on July 30, August 13, August 11, July 7, and July 28. The demand factors were 1.75, 1.69, 1.68, 1.67, and 1.66. The average is 1.69.

The demand study factors shown in the table on page 2 were based on the average of the five highest demand factors.

The five highest maximum day demand factors for the commercial, OPA, and OWU customer classes are as follows.

Commercial Customers Class - Schedule 2

Dates = June 9, 8, 21 and July 19 and 26
Factors = 2.16, 2.08, 1.89, 1.58 and 1.56
Average = 1.85

On June 9, 8 and 21 there were only 13 customers monitored. The dates of July 19 and 26 were used because 17 and 16 customers were monitored on those days including Central Baptist Hospital, which is one of the typical large commercial customers. Factors higher than 1.58 and 1.56 occurred in June but fewer customers were monitored.

OPA Customer Class - Schedule 3

Dates - July 23, 31, 30, 28 and 26
Factors = 1.78, 1.74, 1.73, 1.72 and 1.71
Average = 1.74

On the dates of July 23, 31, 30, 28 and 26 only 7 customers were monitored but the total average usage for these customers is equal to 88 percent of the total average usage for the largest number of OPA customers that were monitored. The dates of August 11 and 13 where maximum day usage rates of 1.54 and 1.59 occurred may want to be considered because 8 OPA customers were monitored including the UK Chemistry/Physics Building and the UK Dormitory Tower which are typical OPA customers. These customers were not monitored in July. The total average usage for the 8 customers monitored on August 11 and 13 is equal to 99 percent of the total average usage for the largest number of OPA customers that were monitored. If August 11 and 13 are used the maximum day demand factors would be 1.78, 1.74, 1.73, 1.59, and 1.54. The average would be 1.68 versus the average of 1.74 as previously calculated.

OWU Customer Class - Schedule 5

Dates = July 18, Aug 1, 4, and 7, July 17

Factors = 1.74, 1.71, 1.68, 1.68, and 1.66

Average = 1.69

Because of the 1999 drought conditions, the 1999 maximum day demand factors for the OWU customers are considerably higher than the 1997 OWU maximum day demand factors, 1.69 vs. 1.44. Because of the unusual drought conditions, the 1999 OWU maximum day demand factors probably should not be used in any future KAWC cost of service studies because the factors are higher than normal. On page 2 in the previous customer class demand study we prepared for the KAWC we made the following statement regarding the OWU maximum day demand. "OWU customers usually have their own storage facilities that help meet their maximum demands and some of the customers buy water from more than one water utility. Also the OWU customers may consist of a mix of residential, commercial, OPA and industrial customers that would help reduce the maximum demand factors."

MAXIMUM HOUR DEMAND LOAD FACTORS

Schedule 4A, the industrial user class maximum hour demand information, will be used to explain how the maximum hour load factors were calculated for each customer class. The first step in the maximum hour demand factor analysis was to select the day to analyze the hourly usage for the customer class. It is not necessary and would be too time consuming and expensive to analyze hourly usage for every day where the customers were monitored with the *FloSearch* equipment because it is reasonably certain that the maximum hour usage will occur on the maximum day. The day selected for maximum hour analysis for the industrial class was July 30 which is the highest maximum day demand for the industrial customers that were monitored.

Schedule 4A, report page 49, contains the hourly usage in cubic feet (cu. ft.) recorded by the *FloSearch* equipment for each of the customers that were monitored. The peak maximum hour demand factor, 2.36, occurred at the 11:00 hour. The usage recorded for each hour is the amount of water used during the previous hour. Therefore, the usage for the 11:00 hour represents the actual usage for the hour from 10:00 a.m. to 11:00 a.m. The 0:00 hour is midnight which is the beginning of the day. The total usage for the 11:00 hour was 28,355.98 cu. ft. which is equal to 212,670 gallons/hour. The total gallons per hour was multiplied by 24 to arrive at a daily rate based on maximum hour usage. The daily rate was then divided by the average daily usage for the monitored customers to determine the maximum hour demand factor ($5,104,0676 \text{ gallons} / 2,162,679 \text{ gallons} = 2.36$).

As previously stated, like the maximum day demand factor, the maximum hour demand factor will vary from year to year. Therefore, if this data were to be used it is appropriate to base the cost of service allocation maximum hour demand factor on the average of the five highest maximum hour demand factors calculated from the 1999 *FloSearch* data. Also, as previously stated, this is appropriate for the commercial customer class since only 4 percent of the commercial water usage was monitored.

The five highest maximum hour demand factors on August 26 occurred at the 11:00, 9:00, 23:00, 4:00 and 8:00 hourly recordings. The demand factors were 2.36, 2.16, 2.08, 2.05 and 2.01. The average is 2.13.

The days that were analyzed for maximum hour demands for the commercial, OPA and OWU customers were June 21 for commercial, July 23 for OPA, and July 18 for OWU. The days were the

peak maximum day demand days except for the commercial customer class. On July 9 when the highest commercial maximum day demand occurred 13 customers were monitored but the total average usage for the 13 customers was only 18 percent of the total average usage for the largest number of commercial customers that were monitored. The 13 customers monitored on June 21 represents 33 percent of the total average usage for the largest number of commercial customers that were monitored. Also on June 21 Little Joe's Mobile Home was monitored but Patchen Village Car Wash was not. Little Joe's Mobile Home is a more typical commercial customer than Patchen Village Car Wash is. The maximum hour demand factor for June 9 was calculated but the average for the five highest maximum hours was 4.20 which is unreasonably high compared to the commercial class maximum hour demand factors calculated in previous customer class demand studies.

The five highest maximum hour demand factors for the Commercial, OPA, and OWU customer classes is as follows:

Commercial Customer Class - Schedule 2A

Date = June 21
Times = 21:00, 20:00, 23:00, 0:00 and 6:00
Factors = 2.91, 2.87, 2.65, 2.37 and 2.29
Average = 2.62

OPA Customer Class - Schedule 3A

Date = July 23
Times = 11:00, 14:00, 13:00, 12:00 and 16:00
Factors = 2.27, 2.07, 2.03, 2.01 and 2.00
Average = 2.08

OWU Customer Class - Schedule 5A

Date = July 18

Times = 22:00, 19:00, 20:00, 21:00 and 11:00

Factors = 1.97, 1.92, 1.89, 1.89 and 1.86

Average = 1.91

		KAWC -- CUSTOMER DEMAND STUDY												Page 1 / 8	
		SCHEDULE 1													
		CUSTOMER CLASS AVERAGE WATER USAGE - YEAR ENDING NOV. 1999													
Monitored Customers	Average Usage CCF / Day	Average Usage Gals. / Day	Data Used for Max Day & Max Hour Demand Factors												
			June 1 - 2	June * 3	June 4 - 7	June 8 - 9	June 10	June 11 - 13	June 14 - 16	June 17	June 18 - 22	June 23			
COMMERCIAL															
Jeff Adams Car Wash	4.98	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735
Aramark Uniform Service	129.59	97,193													
Bob Evans Restaurant	5.58	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185
Central Baptist Hospital	187.28	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960
Days Inn	9.71	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283
Dismas Charities Inc.	3.70	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775
Emerson Center	15.82	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865
First Baptist Church	0.15	113													
Hartland Home Owners	1.64	1,230			1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230
Hoegland Comm. Retail	3.87	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903
Holiday Cleaners	1.19	893	893	893	893	893	893	893	893	893	893	893	893	893	893
Hyatt Regency	78.80	59,100													
Lexington Country Club	47.98	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985
Little Joe's Mobile Hms.	89.34	67,005													
Patchen Village Car Wash	1.89	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418
Patchen Wilkes Farm	6.70	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025
Parkhills Apts. LTD	6.25	4,688			4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688
Wendy's Hamburgers	1.36	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020
Total	605.83	454,373	223,629	225,047	230,965	83,005	148,780	150,010	148,592	147,362	148,592	147,362	148,592	147,362	297,970

		KAWC -- CUSTOMER DEMAND STUDY												Page 2 / 8	
		SCHEDULE 1													
		CUSTOMER CLASS AVERAGE WATER USAGE - YEAR ENDING NOV. 1999													
Monitored Customers	Average Usage CCF / Day	Average Usage Gals. / Day	Data Used for Max Day & Max Hour Demand Factors												
			June 24	June 25	June 26 - 27	June 28 - 29	June 30	July 1 - 2	July 3 - 5	July 6	July 7 - 9	July 10 - 11	July 12		
COMMERCIAL															
Jeff Adams Car Wash	4.98	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735
Aramark Uniform Service	129.59	97,193										97,193	97,193	97,193	
Bob Evans Restaurant	5.58	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185
Central Baptist Hospital	197.28	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960
Days Inn	9.71	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283
Dismas Charities Inc.	3.70	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775
Emerson Center	15.82	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865
First Baptist Church	0.15	113										113	113	113	
Hartland Home Owners	1.64	1,230	1,230									1,230	1,230	1,230	1,230
Hoagland Comm. Retail	3.87	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903
Holiday Cleaners	1.19	893	893	893	893	893	893	893	893	893	893	893	893	893	893
Hyatt Regency	78.80	59,100	59,100	59,100	59,100	59,100	59,100	59,100	59,100	59,100	59,100	59,100	59,100	59,100	59,100
Lexington Country Club	47.98	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985
Little Joe's Mobile Hms.	89.34	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005
Patchen Village Car Wash	1.89	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418
Patchen Wilkes Farm	6.70	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025
Parkhills Apts. LTD	6.25	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688
Wendy's Hamburgers	1.36	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020
Total	605.83	454,373	354,422	357,070	355,840	354,422	354,422	357,070	357,070	454,376	357,183	454,376	454,376	395,276	286,105

KAWC -- CUSTOMER DEMAND STUDY														
SCHEDULE 1														
CUSTOMER CLASS AVERAGE WATER USAGE - YEAR ENDING NOV. 1999														
Monitored Customers	Average Usage CCF / Day	Average Usage Gals. / Day	Data Used for Max Day & Max Hour Demand Factors											
			July 12	July 13	July 14 - 15	July 16	July 17	July 18	July 19 - 23	July 24 - 25	July 26	July 27 - 31		
COMMERCIAL														
Jeff Adams Car Wash	4.98	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735
Aramark Uniform Service	129.59	97,193	97,193	97,193	97,193	97,193	97,193	97,193	97,193	97,193	97,193	97,193	97,193	97,193
Bob Evans Restaurant	5.58	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185
Central Baptist Hospital	197.28	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960
Days Inn	9.71	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283
Dismas Charities Inc.	3.70	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775
Emerson Center	15.82	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865
First Baptist Church	0.15	113	113	113	113	113	113	113	113	113	113	113	113	113
Hartland Home Owners	1.64	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230
Hoagland Comm. Retail	3.87	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903
Holiday Cleaners	1.19	893	893	893	893	893	893	893	893	893	893	893	893	893
Hyatt Regency	78.80	59,100	59,100	59,100	59,100	59,100	59,100	59,100	59,100	59,100	59,100	59,100	59,100	59,100
Lexington Country Club	47.98	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985
Little Joe's Mobile Hms.	89.34	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005
Patchen Village Car Wash	1.89	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418
Patchen Wilkes Farm	6.70	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025
Parkhills Apts. LTD	6.25	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688
Wendy's Hamburgers	1.36	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020
Total	605.83	454,373	383,411	395,276	383,411	395,276	383,411	395,276	383,411	298,083	395,276	286,216	383,411	395,276

		KAWC -- CUSTOMER DEMAND STUDY												Page 4 / 8
		SCHEDULE 1												
		CUSTOMER CLASS AVERAGE WATER USAGE - YEAR ENDING NOV. 1999												
		Data Used for Max Day & Max Hour Demand Factors												
Monitored Customers	Average Usage													
	CCF / Day	Aug. 1	Aug. 2 - 4	Aug. 5 - 7	Aug. 8	Aug. 9 - 14	Aug. 15	Aug. 16	Aug. 17 - 20	Aug. 21 - 22	Aug. 23 - 28			
COMMERCIAL														
Jeff Adams Car Wash	4.98	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	
Aramark Uniform Service	129.59	97,193	97,193	97,193	97,193	97,193	97,193	97,193	97,193	97,193	97,193	97,193	97,193	
Bob Evans Restaurant	5.58	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	
Central Baptist Hospital	197.28	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	
Days Inn	9.71	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	
Dismas Charities Inc.	3.70	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	
Emerson Center	15.82	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	
First Baptist Church	0.15	113	113	113	113	113	113	113	113	113	113	113	113	
Harland Home Owners	1.64	1,230												
Hogland Comm. Retail	3.87	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	
Holiday Cleaners	1.19	893	893	893	893	893	893	893	893	893	893	893	893	
Hyatt Regency	78.80	59,100												
Lexington Country Club	47.98	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	
Little Joe's Mobile Hrms.	89.34	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005	
Patchen Village Car Wash	1.89	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	
Patchen Wilkes Farm	6.70	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	
Parkhill Apts. LTD	6.25	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	
Wendy's Hamburgers	1.36	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	
Total	605.83	454,373	296,553	382,181	284,988	382,181	284,988	382,181	284,988	382,181	441,281	344,088	382,181	

		KAWC -- CUSTOMER DEMAND STUDY										Page 5 / 8	
		SCHEDULE 1											
		CUSTOMER CLASS AVERAGE WATER USAGE - YEAR ENDING NOV. 1999											
Monitored Customers	Average Usage CCF / Day	Average Usage Gals. / Day	Data Used for Max Day & Max Hour Demand Factors										
			Aug. 29	Aug. 30 - 31	Sept. 1 - 20	Sept. 21	Sept. 22 - 23	Sept. 24 - 30					
COMMERCIAL													
Jeff Adams Car Wash	4.98	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735	3,735
Aramark Uniform Service	129.59	97,193	97,193	97,193	97,193	97,193	97,193	97,193	97,193	97,193	97,193	97,193	97,193
Bob Evans Restaurant	5.58	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185	4,185
Central Baptist Hospital	197.28	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960	147,960
Days Inn	9.71	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283	7,283
Dismas Charities Inc.	3.70	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775	2,775
Emerson Center	15.82	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865	11,865
First Baptist Church	0.15	113	113	113	113	113	113	113	113	113	113	113	113
Harland Home Owners	1.64	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230
Hoagland Comm. Retail	3.87	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903
Holiday Cleaners	1.19	893	893	893	893	893	893	893	893	893	893	893	893
Hyatt Regency	78.80	59,100	59,100	59,100	59,100	59,100	59,100	59,100	59,100	59,100	59,100	59,100	59,100
Lexington Country Club	47.98	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985	35,985
Little Joe's Mobile Hrms.	89.34	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005	67,005
Patchen Village Car Wash	1.89	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418	1,418
Patchen Wilkes Farm	6.70	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025	5,025
Parkhills Apts. LTD	6.25	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688	4,688
Wendy's Hamburgers	1.36	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,020
Total	605.83	454,373	284,988	382,181	382,181	382,181	234,221	228,618	228,618	234,221	228,618	287,718	287,718

KAWC -- CUSTOMER DEMAND STUDY												Page 6 / 8	
SCHEDULE 1													
CUSTOMER CLASS AVERAGE WATER USAGE - YEAR ENDING NOV. 1999													
Monitored Customers	Average Usage CCF / Day	Average Usage Gals. / Day	Data Used for Max Day & Max Hour Demand Factors								July 9 - 31	Aug. 1 - 7	
			June 1 - 3	June 4 - 8	June 9 - 16	June 17 - 23	June 24 - 30	July 1 - 2	July 3 - 8	July 9 - 31			
OTHER PUBLIC AUTH.													
Ag. Science Dept. , UK	5.17	3,878	3,878	3,878	3,878	3,878	3,878	3,878	3,878	3,878	3,878	3,878	3,878
Federal Medical Center	468.90	351,675	351,675	351,675	351,675	351,675	351,675	351,675	351,675	351,675	351,675	351,675	351,675
Shephards House Inc.	1.46	1,095	1,095	1,095	1,095	1,095	1,095	1,095	1,095	1,095	1,095	1,095	1,095
UK Chem/ Physic Bldg	63.58	47,685	47,685	47,685	47,685	47,685	47,685	47,685	47,685	47,685	47,685	47,685	47,685
UK Cooling Plant	107.57	80,678	80,678	80,678	80,678	80,678	80,678	80,678	80,678	80,678	80,678	80,678	80,678
UK Dormitory Tower	89.45	67,088									67,088		67,088
UK Heating Plant													
UK Horticulture	66.90	50,175						50,175	50,175	50,175	50,175	50,175	50,175
UK Hospital	339.87	254,903					254,903	254,903	254,903	254,903	254,903	254,903	254,903
VA Hospital , Fed. Govt.	175.63	131,723									131,723	131,723	131,723
US Postal Service	0.82	615	615										
Total	1319.35	989,513	484,531	485,626	485,011	739,914	790,089	742,404	941,215	874,127	988,900		

KAWC -- CUSTOMER DEMAND STUDY											
SCHEDULE 1											
CUSTOMER CLASS AVERAGE WATER USAGE - YEAR ENDING NOV. 1999											
Monitored Customers	Average Usage CCF / Day	Average Usage Gals. / Day	Data Used for Max Day & Max Hour Demand Factors								
			Aug. 8 - 17	Aug. 18	Aug. 19 - 29	Aug. 30	Aug. 31	Sept. 1 - 16	Sept. 17 - 30		
OTHER PUBLIC AUTH.											
Ag. Science Dept. , UK	5.17	3,878	3,878	3,878	3,878	3,878	3,878	3,878	3,878	3,878	3,878
Federal Medical Center	468.90	351,675	351,675	351,675	351,675	351,675	351,675	351,675	351,675	351,675	351,675
Shephards House Inc.	1.46	1,095	1,095	1,095	1,095	1,095	1,095	1,095	1,095	1,095	1,095
UK Chem/ Physic Bldg	63.58	47,685	47,685	47,685	47,685	47,685	47,685	47,685	47,685	47,685	47,685
UK Cooling Plant	107.57	80,678	80,678	80,678	80,678	80,678	80,678	80,678	80,678	80,678	80,678
UK Dormitory Tower	89.45	67,088	67,088	67,088	67,088	67,088	67,088	67,088	67,088	67,088	67,088
UK Heating Plant											
UK Horticulture	66.90	50,175	50,175	50,175	50,175	50,175	50,175	50,175	50,175	50,175	50,175
UK Hospital	339.87	254,903	254,903	254,903	254,903	254,903	254,903	254,903	254,903	254,903	254,903
VA Hospital , Fed. Govt.	175.63	131,723	131,723	131,723	131,723	131,723	131,723	131,723	131,723	131,723	131,723
US Postal Service	0.82	615	615	615	615	615	615	615	615	615	615
Total	1319.35	989,513	987,805	988,900	989,515	985,637	989,515	989,515	941,830	686,927	

KAWC - CUSTOMER DEMAND STUDY												
SCHEDULE 1												
CUSTOMER CLASS AVERAGE WATER USAGE - YEAR ENDING NOV. 1999												
Monitored Customers	Average Usage CCF / Day	Average Usage Gals. / Day	Data Used for Max Day & Max Hour Demand Factors									Page 8 / 8
			June 1 - 4	June 5 - 7	June 8 - 30	July 1 - 31	Aug. 1 - 31	Sept. 1 - 6	Sept. 7	Sept. 8 - 30		
INDUSTRIAL												
Crest Products Inc.	10.98	8,235	8,235	8,235	8,235	8,235	8,235	8,235	8,235	8,235	8,235	8,235
General Electric	335.39	251,543	251,543	251,543	251,543	251,543	251,543	251,543	251,543	251,543	251,543	251,543
Pepsi Cola	93.28	69,960	69,960	69,960	69,960	69,960	69,960	69,960	69,960	69,960	69,960	69,960
Proctor & Garbale	43.11	32,333	32,333	32,333	32,333	32,333	32,333	32,333	32,333	32,333	32,333	32,333
The Trane Company	204.48	153,360	153,360	153,360	153,360	153,360	153,360	153,360	153,360	153,360	153,360	153,360
Toyota	2196.33	1,647,248	1,647,248	1,647,248	1,647,248	1,647,248	1,647,248	1,647,248	1,647,248	1,647,248	1,647,248	1,647,248
Total	2883.57	2,162,678	1,976,986	2,130,346	2,162,679	2,162,679	2,162,679	2,162,679	2,162,679	2,162,679	2,130,346	2,162,679
OTHER WATER UTILITIES												
Lex. South Elkhorn(903)	671.95	503,963	503,963	503,963	503,963	503,963	503,963	503,963	503,963	503,963	503,963	503,963
Lex. South Elkhorn(892)	1.01	758	758	758	758	758	758	758	758	758	758	758
City of Midway	180.03	135,023										135,023
Spears Water	161.10	120,825	120,825	120,825	120,825	120,825	120,825	120,825	120,825	120,825	120,825	120,825
Total	1014.09	760,568	504,721	625,546	625,546	625,546	625,546	625,546	625,546	625,546	760,569	760,569

		KAWC -- CUSTOMER DEMAND STUDY												Page 1 / 12					
		SCHEDULE 2																	
		COMMERCIAL USER CLASS - COMPOSITE MAX DAY																	
		Aramark			Central			Dismas			Emerson			Hoagland					
		Uniform Service			Baptist Hospital			Charities Inc			Center			Home Owners					
		Bob Evans Restaurant			Days Inn			Cu. Ft.			Cu. Ft.			Cu. Ft.					
		Cu. Ft.			Cu. Ft.			Cu. Ft.			Cu. Ft.			Cu. Ft.					
June	Jeff Adams																		
1999	Car Wash																		
1		1			24,050		635	304		1,699							512		169
2		65			23,226		841	347		1,843							525		128
3		502			17,023		1,067	353		1,694							621		138
4		826			21,528		1,498	360		1,794							575		262
5		634			17,191		1,875	387		1,597							170		203
6		326			17,481		1,522	448		1,603							154		1
7		610			22,454		1,451	383		1,836							486		312
8		534					1,880	381		1,527							473		286
9		468					1,238	335		1,729							474		288
10		666					1,558	391		1,606							486		253
11		690					1,223	541		1,796							474		67
12		634					2,568	321		1,762							170		26
13		324					1,736	388		1,538							150		18
14		36					1,381	337		1,586							482		129
15		425					1,669	420		1,662							530		363
16		82					1,503	388		1,771							470		302
17		442					1,997	336		1,623							467		106
18		788					1,997	435		1,724							449		368
19		921					2,181	346		1,750							175		639
20		341					1,914	383		1,512							159		637
21		651					2,301	377		1,748							487		354
22		656					1,989	380		1,704							795		118
23		695			26,405		2,374	350		1,627							821		158
24		3			24,550		2,470	334		1,533							521		128
25		323			26,383		1,922	431		1,618							325		77
26		503			21,773		1,587	444		1,477							176		34
27		70			21,421		1,400	376		1,530							154		25
28		17			26,382		1,372	520		1,637							497		137
29		109			26,839		1,689	328		1,652							489		129
30		324			25,524		1,819	321		1,537							471		117
Total		12,566			342,230		50,657	11,445		49,715							14,009		5,970

SCHEDULE 2												Page 2 / 12
June 1999	Hyatt Regency Cu. Ft.	Lexington Country Club Cu. Ft.	Little Joe's Mobile Hrms Cu. Ft.	Patchen Village Car Wash Cu. Ft.	Patchen Wilkes Farm Cu. Ft.	Parkhills Apts LTD Cu. Ft.	Wendy's Hamburgers Cu. Ft.					
1		7,389			527		107					
2		657			482		128					
3		862		153	516		136					
4		5,089		163	550	529	137					
5		11,440		218	458	743	149					
6		7,469		225	740	773	138					
7		9,504		152	1,372	734	172					
8		14,717		149	931	645	128					
9		15,563		132	1,588	679	146					
10		16,409	8,529	131	1,453	658	151					
11		19,566	8,742	152	2,089	746	164					
12		16,350	8,437	175	1,359	744	155					
13		16,141	9,237	211	1,689	747	152					
14		8,726	9,102		1,841	656	169					
15		1,149	8,665		519	653	135					
16		4,628	8,886		508	642	153					
17		9,049	8,311		516	662	146					
18		13,907	8,425		720	692	153					
19		10,577	8,754		881	689	163					
20		15,584	9,191		694	891	124					
21		19,341	8,726		1,139	669	145					
22		17,092	8,719		1,249	627	139					
23		19,774	8,381	108	786	655	191					
24	11,218	8,626	8,680		523	588	138					
25	11,045	628	8,590	101	712	743	168					
26	11,571	556	9,341	207	742	810	113					
27	9,123	2,140	8,890	103	465	731	109					
28	7,471	533	8,994		704	649	184					
29	6,355	450	8,877		726	616	138					
30	7,405	639	9,165	133	511	632	141					
Total	64,188	274,555	184,642	2,513	26,990	18,603	4,372					

SCHEDULE 2										Page 3 / 12
June 1999	Total Cu. Ft. / Day	Total Gals. / Day	Number of Customers Monitored	Tot. Average Usage for Customers Monitored	Max Day Usage Ratios					
1	35,819	268,643	11	223,629	1.20					
2	28,652	214,890	11	223,629	0.96					
3	23,458	175,935	12	225,047	0.78					
4	34,097	255,728	14	230,965	1.11					
5	35,896	269,220	14	230,965	1.17					
6	31,736	238,020	14	230,965	1.03					
7	40,762	305,715	14	230,965	1.32					
8	23,025	172,688	13	83,005	2.08					
9	23,901	179,258	13	83,005	2.16					
10	32,701	245,258	13	148,780	1.65					
11	37,601	282,008	14	150,010	1.88					
12	34,164	256,230	14	150,010	1.71					
13	33,781	253,358	14	150,010	1.69					
14	25,735	193,013	13	148,592	1.30					
15	17,485	131,138	13	148,592	0.88					
16	20,649	154,868	13	148,592	1.04					
17	24,175	181,313	12	147,362	1.23					
18	31,029	232,718	13	148,592	1.57					
19	28,470	213,525	13	148,592	1.44					
20	33,041	247,808	13	148,592	1.67					
21	37,416	280,620	13	148,592	1.89					
22	34,461	258,458	13	148,592	1.74					
23	63,268	474,510	15	297,970	1.59					
24	59,627	448,703	14	354,422	1.27					
25	54,196	406,470	16	357,070	1.14					
26	50,125	375,938	15	355,840	1.06					
27	47,280	354,600	15	355,840	1.00					
28	49,663	372,623	14	354,422	1.05					
29	48,831	366,233	14	354,422	1.03					
30	49,764	373,230	16	357,070	1.05					
Total	1,091,028	8,182,710								

KAWC -- CUSTOMER DEMAND STUDY														Page 4 / 12
SCHEDULE 2														
COMMERCIAL USER CLASS - COMPOSITE MAX DAY														
		Aramark		Central										
		Uniform	Bob Evans	Baptist	Days Inn	Dismas	Emerson	First Baptist	Hoagland	Home	Holiday			
		Service	Restaurant	Hospital	Cu. Ft.	Charities Inc	Center	Church	Comm. Rtl	Owners	Cleaners			
July	Jeff Adams	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.
1999	Car Wash													
1	199	9,571	643	26,002	1,610	301	1,568	17	480	1	480	138		
2	337	9,140	622	26,916	1,538	351	1,570	14	504	579	504	79		
3	683		664	20,754	1,624	332	1,734	35	207	458	207	5		
4	0		583	21,444	1,559	329	1,511	21	180	457	180	1		
5	461		558	22,372	1,553	568	1,623	27	184	465	184	1		
6	456	9,674	493	29,009	1,873	289	1,567	10	483	453	483	1		
7	460	9,797	551	27,964	1,400	391	1,520	17	474	470	474	1		
8	549	12,452	473	29,317	2,053	542	1,671	25	467	1	467	1		
9	499	15,104	656	28,510	1,879	458	1,133	11	468	468	419	2		
10	9		762	23,446	2,047	365			164	1	164	11		
11	667		719	20,106	1,445	365			157	477	157	12		
12	490	16,133	485	26,407	1,272	396		11	470	470	475	154		
13	233	15,267	468	26,915	2,205	448	1,066	24	477	477	519	203		
14	371	16,081	496	28,782	1,768	355		21	478	478	479	196		
15	399	15,987	492	28,615	2,426	444		10	10	1	505	136		
16	671	12,983	637	30,686	1,741	456	1,105	11	462	462	441	236		
17	772	1,611	701	25,608	2,188	665		18	164	1	164	222		
18	224		754	23,269	1,438	462	1,208	28	478	478	157	1		
19	410	16,818	558	30,086	3,202	467	1,504	26	474	474	497	105		
20	290	15,827	1,357	30,532	1,411	375	1,391	13	471	471	495	105		
21	154	17,001	853	29,562	1,757	409	1,590	19	480	480	497	117		
22	234	16,261	502	10,137	1,048	439	1,345	20	472	1	472	115		
23	503	13,689	556	4,268	1,291	816	1,116	16	579	579	421	104		
24	580		809	4,090	2,142	451		15	163	1	163	1		
25	268		728	23,882	1,773	463		24	579	579	166	1		
26	298	16,028	585	29,062	1,370	355		21	492	1	492	176		
27	93	16,351	505	29,137	1,350	405	1,187	12	502	1	502	111		
28	205	15,520	491	28,952	1,402	416	2,735	21	471	579	471	113		
29	572	15,339	560	28,718	1,294	394	2,063	23	479	1	479	106		
30	733	14,398	572	29,325	1,601	374	1,633	11	706	579	706	59		
31	739	2,092	682	24,496	2,238	393	1,680	9	2,285	1	2,285	1		
Total	12,559	303,124	19,515	768,369	53,498	13,274	33,520	530	9,944	9,944	14,105	2,514		

SCHEDULE 2												Page 5 / 12
July 1999	Hyatt Regency	Lexington Country Club	Little Joe's Mobile Hms	Patchen Village Car Wash	Patchen Wilkes Farm	Parkhill's Apls LTD	Wendy's Hamburgers					
	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.					
1	7,241	553	8,737	160	775	619	116					
2	10,056	1,779	8,174	155	1,157	724	148					
3	12,549	525	8,490	165	1,263	610	119					
4	14,077	7,275	8,934	145	1,759	664	129					
5	11,549	14,848	9,272	139	1,181	684	109					
6	7,760	25,576	9,092	123	1,209	690	141					
7		17,574	9,705	137	684	702	155					
8		18,246	8,076	118	1,031	679	149					
9		18,998	7,928	163	1,353	666	140					
10		8,404	8,548	189	528	648	116					
11		7,023	8,640	178	432	770	103					
12		15,497	8,695	121	486	655	148					
13		16,198	8,252	116	1,454	601	149					
14		15,258	8,388	123	1,566	650	176					
15		13,939	8,907	122	534	634	159					
16		13,974	8,035	159	618	754	155					
17		14,232	8,418	174	960	733	136					
18		16,167	8,920	188	481	737	129					
19		18,517	8,272	139	1,488	671	121					
20		8,558	8,213	338	709	705	163					
21		757	8,767	212	487	731	152					
22		360	8,684	125	652	715	169					
23		1,472	8,320	138	643	701	132					
24		6,301	8,661	201	842	851	205					
25		14,065	9,533	181	694	765	111					
26		20,270	8,655	145	1,212	774	113					
27		10,312	9,318	126	652	971	137					
28		15,463	8,221	122	1,205	937	133					
29		15,653	8,531	139	642	1,101	146					
30		16,435	7,788	142	1,670	983	123					
31		15,637	8,277	170	876	1,062	156					
Total	63,232	369,666	266,451	4,854	29,243	23,187	4,338					

SCHEDULE 2										Page 6 / 12
July 1999	Total Cu. Ft. / Day	Total Gals. / Day	Number of Customers Monitored	Tot. Average Usage for Customers Monitored	Max Day Usage					
				Gals. / Day	Ratios					
1	58,731	440,483	18	454,376	0.97					
2	63,843	478,823	18	454,376	1.05					
3	50,217	376,628	17	357,183	1.05					
4	59,068	443,010	17	357,183	1.24					
5	65,594	491,955	17	357,183	1.38					
6	88,899	666,743	18	454,376	1.47					
7	72,002	540,015	17	395,276	1.37					
8	75,850	568,875	17	395,276	1.44					
9	78,387	587,903	17	395,276	1.49					
10	45,238	339,285	14	286,105	1.19					
11	41,095	308,213	14	286,105	1.08					
12	71,895	539,213	16	383,411	1.41					
13	74,595	559,463	17	395,276	1.42					
14	75,188	563,910	16	383,411	1.47					
15	73,310	549,825	16	383,411	1.43					
16	73,124	548,430	17	395,276	1.39					
17	56,603	424,523	16	383,411	1.11					
18	54,641	409,808	16	298,083	1.37					
19	83,355	625,163	17	395,276	1.58					
20	70,953	532,148	17	395,276	1.35					
21	63,545	476,588	17	395,276	1.21					
22	41,279	309,593	17	395,276	0.78					
23	34,765	260,738	17	395,276	0.66					
24	25,313	189,848	15	286,218	0.66					
25	53,233	399,248	15	286,218	1.39					
26	79,557	596,678	16	383,411	1.56					
27	71,170	533,775	17	395,276	1.35					
28	76,986	577,395	17	395,276	1.46					
29	75,761	568,208	17	395,276	1.44					
30	77,132	578,490	17	395,276	1.46					
31	60,794	455,955	17	395,276	1.15					
Total	1,992,123	14,940,923								

KAWC -- CUSTOMER DEMAND STUDY														Page 7 / 12
SCHEDULE 2														
COMMERCIAL USER CLASS - COMPOSITE MAX DAY														
		Aramark	Central										Hartland	
August	Jeff Adams	Uniform	Baptist	Days Inn	Dismas	Emerson	First Baptist	Home	Hoagland	Holiday				
1999	Car Wash	Service	Hospital	Charities Inc	Center	Church	Owners	Comm. Rtl	Cleaners					
	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.
1	159	689	21,486	1,468	460	1,526	22	156	156	1				
2	412	503	13,107	1,170	392	1,558	18	495	495	153				
3	494	469	25,909	1,105	425	1,569	25	485	485	129				
4	319	460	30,185	1,021	361	1,592	24	497	497	115				
5	496	468	28,541	1,263	364		19	489	489	135				
6	613	637	28,740	1,316	352		19	441	441	56				
7	677	94	24,326	1,440	443		12	173	173	3				
8	0	727	22,385	1,539	353		26	181	181	1				
9	212	500	27,417	1,172	414		17	497	497	142				
10	315	494	26,106	1,416	402		12	519	519	161				
11	394	447	29,050	1,225	372		18	467	467	186				
12	306	450	29,507	1,688	385		15	459	459	98				
13	342	583	30,065	1,248	437		11	546	546	60				
14	290	94	21,821	1,024	413		10	182	182	1				
15	0	689	19,333	1,750	357		25	177	177	1				
16	686	542	25,328	1,271	347		12	489	489	166				
17	563	474	28,000	1,432	364		11	486	486	112				
18	443	532	29,177	989	378		21	499	499	122				
19	263	537	28,913	1,620	373		13	471	471	107				
20	532	577	27,208	1,196	370		12	468	468	134				
21	837	594	21,321	1,162	483		10	182	182	1				
22	1	654	21,567	1,145	514		18	165	165	1				
23	417	445	30,001	910	368		10	474	474	237				
24	102	385	28,657	1,190	349		12	482	482	168				
25	82	373	27,188	1,224	352		15	474	474	230				
26	328	420	24,500	1,074	366		10	502	502	111				
27	544	521	26,759	1,329	382		18	455	455	92				
28	595	535	19,543	1,592	437		17	221	221	1				
29	0	567	19,792	1,518	421		24	167	167	0				
30	503	505	23,862	1,585	329		15	466	466	149				
31	597	326	25,158	1,495	384		13	460	460	129				
Total	11,512	327,651	784,952	40,577	12,147	6,245	504	12,225	12,225	3,002				

SCHEDULE 2												Page 8 / 12
August 1999	Hyatt Regency	Lexington Country Club		Little Joe's Mobile Hms		Patchen Village		Patchen Wilkes Farm		Parkhills Apts LTD		Wendy's Hamburgers
		Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	
1		9,150	8,496	171	438	1,111	192					
2		7,045	9,120	125	679	913	130					
3		18,208	7,684	117	1,387	888	200					
4		15,034	7,897	114	1,787	967	126					
5		14,847	8,136	116	1,644	811	265					
6		16,105	7,288	159	707	597	118					
7		15,112	8,009	186	789	563	197					
8		8,704	8,517	181	420	650	116					
9		6,065	8,069	124	442	563	119					
10		13,392	7,468	123	1,130	680	194					
11		15,787	7,855	111	588	577	130					
12		13,517	7,074	112	832	584	151					
13		14,576	7,141	145	1,315	540	144					
14		14,184	7,745	196	486	561	117					
15		13,103	8,169	171	510	665	106					
16		12,652	8,109	135	905	490	118					
17	6,423	17,179	7,062	118	592	527	118					
18	5,611	16,066	7,375	132	942	529	126					
19	6,461	15,011	7,404	133	3,317	498	132					
20	5,850	14,237	7,703	144	443	503	150					
21	6,119	13,652	8,088	148	1,443	594	122					
22	8,451	13,611	9,896	163	407	632	112					
23		13,942	8,232	111	521	562	113					
24		7,302	7,221	96	551	553	123					
25		167	7,976	93	400	511	126					
26		15	7,683	104	401	600	144					
27		219	7,542	130	535	553	148					
28		304	7,832	133	408	578	121					
29		6,460	7,943	141	396	538	107					
30		13,888	7,350	126	425	524	126					
31		13,903	7,300	81	520	533	111					
Total	38,915	353,437	243,384	4,139	25,360	19,415	4,302					

		SCHEDULE 2		Tot. Average Usage for		Max Day Usage	
August 1999	Total Cu. Ft. / Day	Total Gals. / Day	Number of Customers Monitored	Customers Monitored	Gals. / Day	Customers Monitored	Ratios
1	45,525	341,438	15	296,853	1.15		
2	50,834	381,255	16	394,046	0.97		
3	74,516	558,870	16	394,046	1.42		
4	77,511	581,333	16	394,046	1.48		
5	74,855	561,413	15	382,181	1.47		
6	71,087	533,153	15	382,181	1.40		
7	52,773	395,798	15	382,181	1.04		
8	43,800	328,500	14	284,988	1.15		
9	52,279	392,093	15	382,181	1.03		
10	61,453	460,898	15	382,181	1.21		
11	72,549	544,118	15	382,181	1.42		
12	70,631	529,733	15	382,181	1.39		
13	72,320	542,400	15	382,181	1.42		
14	47,911	359,333	15	382,181	0.94		
15	45,056	337,920	14	284,988	1.19		
16	67,590	506,925	15	382,181	1.33		
17	77,992	584,940	16	441,281	1.33		
18	78,236	586,770	16	441,281	1.33		
19	81,173	608,798	16	441,281	1.38		
20	72,739	545,543	16	441,281	1.24		
21	54,756	410,670	15	344,088	1.19		
22	57,337	430,028	15	344,088	1.25		
23	72,194	541,455	15	382,181	1.42		
24	63,096	473,220	15	382,181	1.24		
25	54,327	407,453	15	382,181	1.07		
26	52,217	391,628	15	382,181	1.02		
27	53,099	398,243	15	382,181	1.04		
28	34,077	255,578	15	382,181	0.67		
29	38,074	285,555	14	284,988	1.00		
30	66,048	495,360	15	382,181	1.30		
31	68,351	512,633	15	382,181	1.34		
Total	1,904,406	14,283,045					

		KAWC -- CUSTOMER DEMAND STUDY												Page 10 / 12					
		SCHEDULE 2																	
		COMMERCIAL USER CLASS - COMPOSITE MAX DAY																	
		Aramark		Bob Evans Restaurant		Central Baptist Hospital		Days Inn		Dismas Charities Inc		Emerson Center		First Baptist Church		Hoagland Comm. Rtl		Holiday Cleaners	
		Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.
September 1999	1	661	17,292	369	28,483	822	382	822	382	16	204	467	204						
	2	688	18,386	405	26,361	829	375	829	375	18	183	471	183						
	3	843	17,517	510	31,183	1,045	368	1,045	368	10	60	435	60						
	4	696	4,992	599	22,614	1,719	357	1,719	357	9	13	173	13						
	5	0	5,097	550	25,088	921	379	921	379	17	5	152	5						
	6	488	5,333	692	22,165	1,247	406	1,247	406	10	5	157	5						
	7	520	19,069	405	25,737	1,134	427	1,134	427	10	107	476	107						
	8	478	17,965	398	28,818	987	320	987	320	13	130	451	130						
	9	552	19,106	433	25,570	946	374	946	374	11	106	491	106						
	10	989	17,986	498	27,496	971	346	971	346	17	126	475	126						
	11	708	2,034	599	18,017	1,321	400	1,321	400	7	1	183	1						
	12	0	39	588	21,182	936	368	936	368	19	1	152	1						
	13	28	16,117	507	23,595	819	339	819	339	10	164	497	164						
	14	552	16,176	365	23,460	1,094	351	1,094	351	8	135	490	135						
	15	555	15,576	424	25,161	1,005	369	1,005	369	13	108	530	108						
	16	718	16,095	468	20,902	817	427	817	427	9	102	486	102						
	17	833	15,195	537	22,246	584	421	584	421	8	100	473	100						
	18	971	94	649	16,120	745	402	745	402	6	1	180	1						
	19	0	30	593	16,997	895	436	895	436	11	0	166	0						
	20	62	13,111	557	15,853	1,460	415	1,460	415	7	181	478	181						
	21	112	16,455	454		631	394	631	394	7	173	488	173						
	22	496	16,546			695	353	695	353	12	119	481	119						
	23	579	16,779			686	348	686	348	7	158	494	158						
	24	1,083	13,546			1,453	316	1,453	316	9	125	484	125						
	25	950	20			1,055	377	1,055	377	6	35	193	35						
	26	0	24			1,270	430	1,270	430	13	1	159	1						
	27	0	14,606			1,645	320	1,645	320	12	146	467	146						
	28	0	16,299			874	371	874	371	7	113	490	113						
	29	0	17,495			857	369	857	369	17	149	503	149						
	30	0	17,233			1,648	360	1,648	360	10	131	597	131						
Total		13,542	366,213	10,600	-466,948	31,111	11,302	31,111	11,302	329	11,739	11,739	2,882						

SCHEDULE 2												Page 11 / 12
September 1999	Hyatt Regency	Lexington Country Club	Little Joe's Mobile Hms	Patchen Village		Patchen Wilkes Farm	Parkhills Apts LTD	Wendy's Hamburgers			Cu. Ft.	
				Cu. Ft.	Cu. Ft.				Cu. Ft.	Cu. Ft.		
1		14,086	7,118	92	722		514				152	
2		14,423	7,337	101	1,197		494				129	
3		15,482	6,882	127	571		577				136	
4		14,034	7,820	149	555		740				149	
5		15,250	7,949	137	417		596				111	
6		13,649	8,990	172	389		580				116	
7		15,302	7,339	101	744		590				139	
8		14,325	6,897	99	882		567				132	
9		16,129	7,320	108	1,114		551				135	
10		15,705	7,310	124	1,097		534				134	
11		15,508	7,819	149	560		641				106	
12		14,551	8,762	146	659		699				119	
13		8,191	7,727	126	469		486				123	
14		1,443	7,728	91	494		579				136	
15		10,041	7,863	105	794		546				125	
16		17,276	7,495	116	539		607				137	
17		15,226	7,412	134	451		569				135	
18		17,408	7,414	161	712		628				128	
19		14,061	7,597	148	1,417		609				105	
20		13,403	7,358	138	1,126		478				118	
21		10,281	7,484	113	854		509				130	
22		4,340	7,489		538		580				135	
23		3,032	7,450		609		555				145	
24	7,239	9,186	6,940		636		498				150	
25	8,679	10,241	7,667		564		650				109	
26	8,177	379	7,983		522		553				83	
27	5,908	2,636	3,712		429		544				131	
28	8,320	0	2,092		398		641				139	
29	9,085	3,373	7,096		356		554				121	
30	7,282	1,343	7,327		385		630				144	
Total	54,690	320,304	217,187	2,637	20,200		17,299				3,852	

		SCHEDULE 2				Page 12 / 12	
September 1999	Total Cu. Ft. / Day	Total Gals. / Day	Number of Customers Monitored		Tot. Average Usage for Customers Monitored		
			Total Gals. / Day	Max Day Usage Ratios	Customers Monitored	Gals. / Day	
1	71,360	535,350	15	382,181	1.40		
2	71,397	535,478	15	382,181	1.40		
3	75,746	568,095	15	382,181	1.49		
4	54,619	409,643	15	382,181	1.07		
5	56,669	425,018	15	382,181	1.11		
6	54,381	407,858	15	382,181	1.07		
7	72,100	540,750	15	382,181	1.41		
8	72,462	543,465	15	382,181	1.42		
9	72,946	547,095	15	382,181	1.43		
10	73,808	553,560	15	382,181	1.45		
11	48,053	360,398	15	382,181	0.94		
12	48,221	361,658	15	382,181	0.95		
13	59,198	443,985	15	382,181	1.16		
14	53,102	398,265	15	382,181	1.04		
15	63,015	472,613	15	382,181	1.24		
16	66,194	496,455	15	382,181	1.30		
17	64,324	482,430	15	382,181	1.26		
18	45,619	342,143	15	382,181	0.90		
19	42,965	322,238	15	382,181	0.84		
20	54,745	410,588	15	382,181	1.07		
21	38,095	285,713	14	234,221	1.22		
22	31,784	238,380	12	228,618	1.04		
23	30,842	231,315	12	228,618	1.01		
24	41,665	312,488	13	287,718	1.09		
25	30,546	229,095	13	287,718	0.80		
26	19,594	146,955	13	287,718	0.51		
27	30,556	229,170	13	287,718	0.80		
28	29,744	223,080	13	287,718	0.78		
29	39,975	299,813	13	287,718	1.04		
30	37,090	278,175	13	287,718	0.97		
Total	1,550,835	11,631,263					

SCHEDULE 3										Page 2 / 8
June 1999	US Postal Service	Cu. Ft.	Total Cu. Ft. / Day	Total Gals. / Day	Number of Customers Monitored	Tot. Average Usage for Customers Monitored	Max Day Usage	Ratio		
1		22	73,986	554,895	5	484,531	1.15			
2		29	73,356	550,170	5	484,531	1.14			
3		30	65,817	493,628	5	484,531	1.02			
4		29	64,720	485,400	6	485,626	1.00			
5		22	65,422	490,665	6	485,626	1.01			
6		14	70,024	525,180	6	485,626	1.08			
7		79	87,908	659,310	6	485,626	1.36			
8		21	101,140	758,550	6	485,626	1.56			
9			91,156	683,670	5	485,011	1.41			
10			88,494	663,705	5	485,011	1.37			
11			86,761	650,708	5	485,011	1.34			
12			79,328	594,960	5	485,011	1.23			
13			74,476	558,570	5	485,011	1.15			
14			91,837	688,778	5	485,011	1.42			
15			63,603	477,023	5	485,011	0.98			
16			60,741	455,568	5	485,011	0.94			
17			114,965	862,238	6	739,914	1.17			
18			100,162	751,215	6	739,914	1.02			
19			97,632	732,240	6	739,914	0.99			
20			101,719	762,893	6	739,914	1.03			
21			115,148	863,610	6	739,914	1.17			
22			139,170	1,043,775	6	739,914	1.41			
23			139,870	1,049,025	6	739,914	1.42			
24			130,435	978,263	7	790,089	1.24			
25			146,136	1,096,020	7	790,089	1.39			
26			125,863	943,973	7	790,089	1.19			
27			125,317	939,878	7	790,089	1.19			
28			144,487	1,083,653	7	790,089	1.37			
29			131,137	983,528	7	790,089	1.24			
30			116,227	871,703	7	790,089	1.10			
Total		246	2,967,037	22,252,778						

		KAWC -- CUSTOMER DEMAND STUDY										Page 3 / 8	
		SCHEDULE 3											
		OPA USER CLASS - COMPOSITE MAX DAY											
		Shephards House Inc.	UK Chem/ Physic Bldg.	UK Cooling Plant	UK Dormitory Tower	UK Heating Plant	UK Horticulture	UK Hospital	VA Hospital Fed. Govt.				
		Cu. Ft.		Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.
	Federal						89000993						
July 1999	Ag. Science Dept., UK Center												
		Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.
1		487	56,902	28,157			4,983	46,187					
2		536	46,504	38,156			3,464	44,681					
3		509	45,442	40,435	4,944		4,786	38,759					
4		541	52,689	43,150	5,286		3,505	38,398					
5		675	48,334	42,923	6,131		10,986	40,987					
6		561	58,154	44,559	9,481		8,987	47,351					
7		560	49,941	32,905	9,928		5,915	47,441					
8		625	51,053	17,113	10,197		13,413	52,644					
9		547	57,004	33,521			20,776	50,376					
10		449	49,089	27,956			10,209	43,308					
11		355	50,887	7,357			7,707	37,172					
12		554	48,598	12,277			11,963	44,017					
13		602	53,596	14,333			19,214	48,744					
14		827	46,743	21,360			14,803	53,850					
15		566	55,778	29,022			7,757	52,214					
16		629	53,583	35,116			36,004	50,345					
17		593	50,348	28,343			13,181	45,048					
18		570	47,566	28,420			6,407	43,138					
19		667	58,502	38,769			36,740	49,585					
20		810	50,047	42,566			23,308	49,403					
21		618	56,525	43,580			7,112	50,515					
22		527	55,367	42,267			5,853	50,910					
23		744	64,289	45,404			10,913	54,451					
24		623	46,504	49,096			7,168	49,178					
25		848	46,847	40,840			7,992	48,168					
26		660	63,229	38,831			11,737	56,004					
27		676	57,480	39,837			9,710	55,813					
28		570	52,123	43,087			21,501	54,754					
29		567	50,674	42,793			18,906	52,992					
30		703	51,672	44,082			18,099	56,634					
31		656	58,294	48,111			20,530	49,785					
Total		18,855	1,633,764	1,085,966	45,967		403,519	1,502,852					

SCHEDULE 3										Page 4 / 8
July 1999	US Postal Service	Total		Total Gals. / Day	Number of Customers Monitored		Tot. Average Usage for Customers Monitored		Max Day Usage Ratios	
		Cu. Ft. / Day	Gals. / Day		Customers Monitored	Customers Monitored	Gals. / Day	Gals. / Day		
1		137,839	1,033,793	6	742,404	1.39				
2		133,478	1,001,085	6	742,404	1.35				
3		156,333	1,172,498	8	941,215	1.25				
4		165,142	1,238,565	8	941,215	1.32				
5		173,297	1,299,728	8	941,215	1.38				
6		195,949	1,469,618	8	941,215	1.56				
7		173,199	1,298,993	8	941,215	1.38				
8		168,830	1,266,225	8	941,215	1.35				
9		188,624	1,414,680	7	874,127	1.62				
10		152,353	1,142,648	7	874,127	1.31				
11		120,652	904,890	7	874,127	1.04				
12		139,495	1,046,213	7	874,127	1.20				
13		159,063	1,192,973	7	874,127	1.36				
14		160,765	1,205,738	7	874,127	1.38				
15		171,201	1,284,008	7	874,127	1.47				
16		200,989	1,507,418	7	874,127	1.72				
17		160,221	1,201,658	7	874,127	1.37				
18		149,042	1,117,815	7	874,127	1.28				
19		212,891	1,596,683	7	874,127	1.83				
20		194,243	1,456,823	7	874,127	1.67				
21		185,434	1,390,755	7	874,127	1.59				
22		183,125	1,373,438	7	874,127	1.57				
23		207,904	1,559,280	7	874,127	1.78				
24		181,287	1,359,653	7	874,127	1.56				
25		169,226	1,289,195	7	874,127	1.45				
26		198,822	1,491,165	7	874,127	1.71				
27		190,787	1,430,903	7	874,127	1.64				
28		200,142	1,501,065	7	874,127	1.72				
29		194,532	1,458,990	7	874,127	1.67				
30		201,673	1,512,548	7	874,127	1.73				
31		202,610	1,519,575	7	874,127	1.74				
Total		5,429,148	40,718,610							

		KAWC -- CUSTOMER DEMAND STUDY											Page 5 / 8		
		SCHEDULE 3													
		OPA USER CLASS - COMPOSITE MAX DAY													
August 1999	Ag. Science Dept., UK	Shephards House Inc.	UK Chem/ Physic Bldg.	UK Cooling Plant	UK Dormitory Tower	UK Heating Plant	UK Horticulture	UK Hospital	VA Hospital	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.
	Federal Medical Center						89000993								
1	482	102	5,240	40,213	7,593		8,972	45,243	23,262						
2	595	124	6,974	26,608	5,851		12,580	49,788	26,205						
3	629	114	7,464	22,078	5,294		11,801	46,358	22,241						
4	516	168	8,270	30,574	6,144		12,098	47,313	23,098						
5	476	92	7,612	28,588	3,871		11,900	44,518	22,082						
6	593	123	6,425	27,396	2,551		18,524	46,941	21,882						
7	581	115	3,308	27,189	956		7,115	43,927	19,341						
8	500		2,806	29,562	1,276		8,366	43,548	20,109						
9	634		6,073	29,651	1,842		11,832	46,059	22,885						
10	677		5,563	32,182	2,258		16,522	47,982	21,925						
11	766		6,986	31,902	1,866		30,071	52,893	25,432						
12	746		5,546	26,345	2,487		29,509	57,075	25,138						
13	894		6,978	38,136	2,328		11,421	63,838	26,220						
14	484		6,191	8,895	4,939		10,308	55,573	18,208						
15	502		5,521	7,937	5,930		8,019	47,538	15,678						
16	710		5,913	17,082	6,212		10,613	59,135	21,945						
17	577		5,729	28,244	6,060		17,262	63,551	22,724						
18	529		5,763	26,752	5,938		17,289	58,564	23,309						
19	519		6,252	25,838	5,510		14,237	52,482	21,669						
20	451		5,912	19,500	7,435		6,143	46,918	22,072						
21	382		3,469	9,310	9,855		25,284	41,986	17,135						
22	405		1,279	10,153	11,114		5,298	42,341	17,233						
23	549		1,030	26,070	14,474		5,673	47,641	22,585						
24	425		4,520	31,677	16,115		17,317	46,057	22,380						
25	548		5,239	21,575	16,705		4,987	47,939	22,658						
26	540		2,053	20,885	17,574		12,585	48,496	22,273						
27	614		5,096	24,139	21,940		9,266	48,589	23,088						
28	548		4,726	22,068	14,197		16,400	42,459	20,643						
29	566		3,177	22,602	12,992		4,902	43,139	20,631						
30			484	8,303	16,205		7,405	46,890	20,907						
31	514		499	12,303	16,553		15,710	46,882	20,311						
Total	16,942		152,098	733,757	254,065		399,409	1,521,673	675,269						

SCHEDULE 3										Page 6 / 8
August 1999	US Postal Service	Cu. Ft.	Total Cu. Ft. / Day	Total Gals. / Day	Number of Customers Monitored	Customers Monitored	Tot. Average Usage for	Max Day Usage	Ratio	
1		183,067	1,373,003	988,900	9	988,900		1.39		
2		175,943	1,319,573	988,900	9	988,900		1.33		
3		173,004	1,297,530	988,900	9	988,900		1.31		
4		181,807	1,363,553	988,900	9	988,900		1.38		
5		174,401	1,308,008	988,900	9	988,900		1.32		
6		174,695	1,310,213	988,900	9	988,900		1.32		
7		150,437	1,128,278	988,900	9	988,900		1.14		
8		164,619	1,234,643	987,805	8	987,805		1.25		
9		177,280	1,329,600	987,805	8	987,805		1.35		
10		172,433	1,293,248	987,805	8	987,805		1.31		
11		203,460	1,525,950	987,805	8	987,805		1.54		
12		196,294	1,472,205	987,805	8	987,805		1.49		
13		209,791	1,573,433	987,805	8	987,805		1.59		
14		154,262	1,156,965	987,805	8	987,805		1.17		
15		148,020	1,110,150	987,805	8	987,805		1.12		
16		167,971	1,259,783	987,805	8	987,805		1.28		
17		194,878	1,461,585	987,805	8	987,805		1.48		
18		190,511	1,428,833	988,900	9	988,900		1.44		
19	88	188,405	1,413,038	989,515	10	989,515		1.43		
20	207	155,078	1,163,065	989,515	10	989,515		1.18		
21	113	160,238	1,201,765	989,515	10	989,515		1.21		
22	65	138,738	1,040,535	989,515	10	989,515		1.05		
23	418	178,843	1,341,323	989,515	10	989,515		1.36		
24	222	185,326	1,389,945	989,515	10	989,515		1.40		
25	18	172,875	1,296,563	989,515	10	989,515		1.31		
26	26	183,130	1,373,475	989,515	10	989,515		1.39		
27	27	181,944	1,364,580	989,515	10	989,515		1.38		
28	17	178,954	1,342,155	989,515	10	989,515		1.36		
29	8	156,193	1,171,448	989,515	10	989,515		1.18		
30	18	146,174	1,096,305	985,637	9	985,637		1.11		
31	18	167,185	1,253,910	989,515	10	989,515		1.27		
Total		1,245	5,385,959	40,394,693						

		KAWC -- CUSTOMER DEMAND STUDY										Page 7 / 8	
		SCHEDULE 3											
		OPA USER CLASS - COMPOSITE MAX DAY											
September 1999	Ag. Science Dept., UK	Federal		Shephards House Inc.	UK Chem/ Physic Bldg.	UK Cooling Plant	UK Dormitory Tower	UK Heating Plant	UK Horticulture	UK Hospital	VA Hospital Fed. Govt.		
		Cu. Ft.	Cu. Ft.									Cu. Ft.	Cu. Ft.
1	574	49,075		338		16,542	16,380		8,309	46,501	22,305		
2	594	53,073		104		19,463	16,545		24,356	49,685	21,089		
3	630	52,861		137		36,665	16,017		8,340	48,096	23,050		
4	590	46,743		197		30,351	16,611		13,102	41,486	20,634		
5	549	51,389		330		34,040	14,084		9,248	40,067	18,858		
6	750	54,746		132		43,520	16,303		11,341	41,898	21,196		
7	504	48,739		103		23,674	19,617		20,262	46,546	24,026		
8	582	52,053		162		25,389	15,201		8,414	48,264	21,370		
9	457	51,579		98		30,312	15,834		16,377	46,475	21,692		
10	466	52,619		103		16,336	15,415		9,483	42,834	20,028		
11	458	50,756		161		15,803	11,733		13,941	37,847	16,482		
12	490	44,982		235		21,135	12,054		8,893	38,339	17,666		
13	557	56,673		115		30,130	15,508		8,676	44,401	21,320		
14	770	48,957		127		14,856	19,086		15,123	42,680	18,921		
15	773	45,682		221		12,951	16,429		10,296	44,145	19,934		
16	500	57,793		297		8,883	15,909		13,145	13,046	19,459		
17	567	46,135		262		7,067	14,221		10,282		19,730		
18	568	48,059		121		8,905	9,653		17,350		14,966		
19	366	43,634		206		11,486	12,179		7,114		16,248		
20	585	48,182		149		19,518	15,215		6,932		20,543		
21	409	54,383		112		4,177	15,023		9,977		17,504		
22	518	47,470		135		3,210	14,885		8,827		16,911		
23	476	46,191		114		7,834	14,974		9,900		17,298		
24	512	52,581		120		11,977	13,699		6,677		18,698		
25	338	47,705		149		14,165	9,866		12,536		15,750		
26	350	45,097		156		13,859	11,455		6,003		15,744		
27	513	55,758		116		25,596	15,455		8,087		21,547		
28	830	46,071		119		30,458	15,370		8,419		22,784		
29	547	54,161		123		18,506	15,671		6,667		20,311		
30	436	44,784		101		2,711	14,033		5,142		16,187		
Total	16,259	1,497,831		4,843		559,519	444,425		323,221	672,310	582,251		

SCHEDULE 3										Page 8 / 8
September 1999	US Postal Service	Cu. Ft.	Total		Total Gals. / Day	Number of Customers Monitored		Tot. Average Usage for Customers Monitored		Max Day Usage Ratios
			Cu. Ft. / Day	Gals. / Day		Customers Monitored	Gals. / Day	Customers Monitored	Gals. / Day	
1		20	160,044	1,200,330		9	941,830		1.27	
2		28	184,937	1,367,028		9	941,830		1.47	
3		19	185,815	1,393,613		9	941,830		1.48	
4		14	169,728	1,272,960		9	941,830		1.35	
5		8	168,573	1,264,298		9	941,830		1.34	
6		6	189,892	1,424,190		9	941,830		1.51	
7		34	183,505	1,376,288		9	941,830		1.46	
8		16	171,451	1,285,883		9	941,830		1.37	
9		160	182,984	1,372,380		9	941,830		1.46	
10		172	157,456	1,180,920		9	941,830		1.25	
11		13	147,194	1,103,955		9	941,830		1.17	
12		5	143,799	1,078,493		9	941,830		1.15	
13		166	177,546	1,331,595		9	941,830		1.41	
14		136	160,556	1,204,170		9	941,830		1.28	
15		55	150,488	1,128,660		9	941,830		1.20	
16		23	129,055	967,913		9	941,830		1.03	
17		37	98,301	737,258		8	686,927		1.07	
18		12	98,634	747,255		8	686,927		1.09	
19		11	91,244	684,330		8	686,927		1.00	
20		41	111,165	833,738		8	686,927		1.21	
21		35	101,620	762,150		8	686,927		1.11	
22		25	91,981	689,858		8	686,927		1.00	
23		218	97,005	727,538		8	686,927		1.06	
24		140	104,404	783,030		8	686,927		1.14	
25		13	100,522	753,915		8	686,927		1.10	
26		7	92,671	695,033		8	686,927		1.01	
27		207	127,279	954,593		8	686,927		1.39	
28		181	124,232	931,740		8	686,927		1.36	
29		96	116,082	870,615		8	686,927		1.27	
30		22	83,416	625,620		8	686,927		0.91	
Total		1,920	4,102,579	30,769,343						

		KAWC - CUSTOMER DEMAND STUDY												Page 1 / 4	
		SCHEDULE 4													
		INDUSTRIAL USER CLASS - COMPOSITE MAX DAY													
June 1999	Crest Products Inc	General Electric	Pepsi Cola	Proctor & Gamble	The Trane Co.	Toyota	Total		Number of Customers Monitored	Tot. Average Usage for Customers Monitored	Max Day Usage	Ratios			
							Cu. Ft.	Cu. Ft.					Cu. Ft. / Day	Gals. / Day	
1	1,148	45,430	15,043			261,847	323,468	4	1,976,986	1.23					
2	1,355	44,410	13,632			324,144	383,541	4	1,976,986	1.46					
3	2,242	38,520	11,041			311,763	363,566	4	1,976,986	1.38					
4	2,008	37,895	11,179			313,558	364,640	4	1,976,986	1.38					
5	203	44,071	1,228		27,201	169,738	242,441	5	2,130,346	0.85					
6	162	40,385	5		25,644	169,577	235,773	5	2,130,346	0.83					
7	2,816	48,383	14,400		29,505	277,374	372,478	5	2,130,346	1.31					
8	3,188	48,465	13,681	5,236	32,782	326,282	429,634	6	2,162,679	1.49					
9	2,165	51,310	14,130	6,131	31,817	363,806	469,359	6	2,162,679	1.63					
10	1,225	44,657	14,068	5,907	31,286	336,540	433,683	6	2,162,679	1.50					
11	2,769	50,468	13,555	5,997	30,708	365,846	469,343	6	2,162,679	1.63					
12	60	40,578	597	4,454	26,556	163,300	235,545	6	2,162,679	0.82					
13	24	32,928	91	4,732	21,249	99,128	158,152	6	2,162,679	0.55					
14	1,468	43,691	15,514	5,369	27,456	270,661	364,159	6	2,162,679	1.26					
15	1,591	27,292	13,993	4,971	29,704	303,050	380,601	6	2,162,679	1.32					
16	4,049	31,642	12,468	4,966	28,612	283,730	345,467	6	2,162,679	1.20					
17	3,054	32,114	13,557	5,343	27,636	300,625	382,329	6	2,162,679	1.33					
18	2,233	30,845	14,857	5,068	26,878	278,645	358,526	6	2,162,679	1.24					
19	145	32,627	37	4,878	24,854	109,417	171,958	6	2,162,679	0.60					
20	147	32,119	20	5,384	26,448	123,770	187,888	6	2,162,679	0.65					
21	1,570	30,256	13,534	5,121	27,934	293,238	371,653	6	2,162,679	1.29					
22	2,271	36,773	13,787	6,743	29,759	369,199	458,532	6	2,162,679	1.59					
23	1,965	38,836	15,143	6,892	29,770	356,039	448,645	6	2,162,679	1.56					
24	1,571	36,023	10,864	5,783	30,182	313,176	397,599	6	2,162,679	1.38					
25	1,229	21,823	10,430	6,224	29,888	340,316	409,910	6	2,162,679	1.42					
26	73	12,366	44	6,526	29,470	165,355	213,834	6	2,162,679	0.74					
27	21	18,195	39	5,818	25,980	129,029	179,082	6	2,162,679	0.62					
28	1,356	23,698	12,453	4,291	29,358	288,556	359,712	6	2,162,679	1.25					
29	1,375	23,724	10,998	6,093	29,793	309,043	381,026	6	2,162,679	1.32					
30	1,292	18,854	17,064	6,303	30,442	314,561	388,546	6	2,162,679	1.35					
Total	44,775	1,058,408	297,452	128,230	740,912	8,011,313	10,281,090	77,108,175							

		KAWC - CUSTOMER DEMAND STUDY																		Page 2 / 4	
		SCHEDULE 4																			
		INDUSTRIAL USER CLASS - COMPOSITE MAX DAY																			
July 1999	Crest Products Inc Cu. Ft.	General Electric Cu. Ft.	Pepsi Cola Cu. Ft.	Proctor & Gamble Cu. Ft.	The Trane Co. Cu. Ft.	Toyota Cu. Ft.	Total		Number of Customers Monitored	Total Gals. / Day	Tot. Average Usage for Customers Monitored Gals. / Day	Max Day Usage Ratios									
							Cu. Ft.	Cu. Ft.													
1	1,283	22,312	18,507	6,397	30,574	323,963	403,036	6	3,022,770	2,162,679	1.40										
2	845	27,074	13,435	6,241	20,524	329,523	397,642	6	2,982,315	2,162,679	1.38										
3	72	35,148	3,521	3,440	13,646	182,734	238,561	6	1,789,208	2,162,679	0.83										
4	48	37,438	8	2,899	15,972	126,037	182,402	6	1,368,015	2,162,679	0.63										
5	155	31,649	7	4,486	15,590	122,836	174,713	6	1,310,348	2,162,679	0.61										
6	164	32,945	16,795	7,399	29,964	315,092	402,359	6	3,017,693	2,162,679	1.40										
7	466	42,246	16,580	7,455	31,445	363,859	482,051	6	3,615,383	2,162,679	1.67										
8	204	44,332	13,898	7,614	30,010	335,066	431,144	6	3,233,560	2,162,679	1.50										
9	220	50,793	13,340	7,483	28,688	350,184	450,708	6	3,380,310	2,162,679	1.56										
10	43	47,978	1,483	7,203	22,147	170,947	249,801	6	1,873,508	2,162,679	0.87										
11	44	39,349	10	7,010	16,035	76,114	138,562	6	1,039,215	2,162,679	0.46										
12	1,894	44,414	16,986	5,561	27,175	276,557	372,587	6	2,794,403	2,162,679	1.29										
13	2,995	40,336	13,724	5,719	29,696	291,051	383,481	6	2,876,108	2,162,679	1.33										
14	3,310	37,589	11,618	7,022	31,692	339,990	431,221	6	3,234,158	2,162,679	1.50										
15	2,337	39,076	13,424	7,858	31,228	360,287	454,210	6	3,406,575	2,162,679	1.58										
16	1,293	45,576	17,728	6,850	30,670	357,373	459,490	6	3,446,175	2,162,679	1.59										
17	183	39,742	671	6,976	29,673	127,021	204,266	6	1,531,995	2,162,679	0.71										
18	157	40,697	5	6,999	26,284	105,985	180,127	6	1,350,953	2,162,679	0.62										
19	1,510	44,459	11,883	6,086	31,263	123,254	218,455	6	1,638,413	2,162,679	0.76										
20	2,580	49,132	12,448	6,420	33,915	162,474	266,969	6	2,002,268	2,162,679	0.93										
21	3,686	38,407	12,457	6,747	32,397	166,869	260,563	6	1,954,223	2,162,679	0.90										
22	3,722	47,444	13,787	6,703	35,215	186,082	292,933	6	2,196,998	2,162,679	1.02										
23	3,334	47,369	13,454	6,728	33,680	141,795	246,560	6	1,849,200	2,162,679	0.86										
24	2,159	46,323	1,138	6,907	32,056	165,452	254,035	6	1,905,263	2,162,679	0.88										
25	2,097	35,090	35	7,063	29,472	165,871	239,628	6	1,797,210	2,162,679	0.83										
26	3,401	49,450	14,768	6,339	33,881	340,976	448,815	6	3,366,113	2,162,679	1.56										
27	3,477	44,916	12,906	6,947	37,318	359,357	464,921	6	3,486,908	2,162,679	1.61										
28	3,682	46,190	13,473	6,965	36,136	371,250	477,696	6	3,582,720	2,162,679	1.66										
29	3,518	49,060	17,332	7,330	34,383	350,130	461,753	6	3,463,148	2,162,679	1.60										
30	2,376	50,672	13,895	7,643	37,317	393,923	505,826	6	3,793,695	2,162,679	1.75										
31	161	53,047	252	7,699	30,457	235,275	326,891	6	2,451,683	2,162,679	1.13										
Total	51,416	1,300,253	309,568	204,189	898,653	7,737,327	10,501,406		78,760,545												

		KAWC -- CUSTOMER DEMAND STUDY												Page 3 / 4		
		SCHEDULE 4														
		INDUSTRIAL USER CLASS - COMPOSITE MAX DAY														
August 1999	Crest Products Inc Cu. Ft.	General Electric Cu. Ft.	Pepsi Cola Cu. Ft.	Proctor & Gamble Cu. Ft.	The Trane Co. Cu. Ft.	Toyota Cu. Ft.	Total		Total Gals. / Day	Number of Customers Monitored	Total Average Usage for Customers Monitored Gals. / Day	Max Day Usage Ratios				
							Cu. Ft.	Cu. Ft.								
1	126	42,959	11	3,581	28,756	158,157	233,590	1,751,925	6	2,162,679	0.81					
2	1,466	40,321	12,635	3,592	34,646	303,206	395,866	2,968,995	6	2,162,679	1.37					
3	1,917	46,225	17,033	7,109	32,111	313,000	417,395	3,130,463	6	2,162,679	1.45					
4	2,374	46,855	13,794	7,238	34,588	332,900	437,749	3,283,116	6	2,162,679	1.52					
5	3,466	49,214	15,520	7,491	32,340	291,013	399,044	2,992,830	6	2,162,679	1.38					
6	1,924	45,645	13,518	7,524	30,737	350,362	449,710	3,372,825	6	2,162,679	1.56					
7	187	50,422	46	7,556	31,452	126,186	215,849	1,618,868	6	2,162,679	0.75					
8	50	45,105	44	6,605	27,676	93,474	172,954	1,297,155	6	2,162,679	0.60					
9	1,235	42,079	13,211	5,029	31,127	258,613	351,294	2,634,705	6	2,162,679	1.22					
10	2,244	43,721	16,584	6,788	37,087	325,690	432,124	3,240,930	6	2,162,679	1.50					
11	2,782	46,527	17,402	7,453	35,721	375,246	485,131	3,638,483	6	2,162,679	1.68					
12	1,564	47,494	11,871	7,395	34,573	323,026	425,923	3,194,423	6	2,162,679	1.48					
13	1,409	52,766	16,713	7,316	36,250	371,488	485,942	3,644,565	6	2,162,679	1.69					
14	52	33,461	33	5,621	24,830	141,111	205,108	1,538,310	6	2,162,679	0.71					
15	18	19,519	27	5,596	18,158	97,248	140,566	1,054,245	6	2,162,679	0.49					
16	1,719	31,984	11,511	4,584	26,815	295,036	371,649	2,787,368	6	2,162,679	1.29					
17	1,244	41,348	14,295	6,747	29,065	344,702	437,401	3,280,508	6	2,162,679	1.52					
18	823	40,990	16,151	6,556	25,130	310,047	399,697	2,997,728	6	2,162,679	1.39					
19	940	38,753	12,611	5,810	24,858	322,806	405,776	3,043,335	6	2,162,679	1.41					
20	1,276	37,850	13,569	5,978	20,551	249,018	328,242	2,461,815	6	2,162,679	1.14					
21	231	31,398	1,706	6,708	13,410	120,655	174,108	1,305,810	6	2,162,679	0.60					
22	195	28,448	11	4,886	7,617	58,882	100,039	750,293	6	2,162,679	0.35					
23	1,162	34,510	13,789	4,307	20,478	265,605	339,851	2,548,883	6	2,162,679	1.18					
24	970	31,684	15,002	6,243	20,232	305,981	380,112	2,850,840	6	2,162,679	1.32					
25	1,021	28,605	20,602	6,205	19,167	237,061	312,661	2,344,958	6	2,162,679	1.08					
26	1,039	30,967	15,978	6,973	19,857	241,079	315,893	2,369,198	6	2,162,679	1.10					
27	1,286	35,009	10,525	6,799	18,259	257,349	329,227	2,468,203	6	2,162,679	1.14					
28	332	27,953	93	6,591	11,914	148,035	194,918	1,461,985	6	2,162,679	0.68					
29	300	20,523	7	6,387	12,505	109,420	149,142	1,118,565	6	2,162,679	0.52					
30	1,168	25,849	12,014	4,800	16,063	236,395	296,289	2,222,168	6	2,162,679	1.03					
31	1,202	29,274	12,050	6,825	16,019	254,765	320,135	2,401,013	6	2,162,679	1.11					
Total	35,722	1,167,458	318,356	192,293	772,002	7,617,556	10,103,387	75,775,403								

		KAWC -- CUSTOMER DEMAND STUDY																Page 4 / 4	
		SCHEDULE 4																	
		INDUSTRIAL USER CLASS - COMPOSITE MAX DAY																	
September 1999	Crest Products Inc Cu. Ft.	General Electric Cu. Ft.	Pepsi Cola Cu. Ft.	Proctor & Gamble Cu. Ft.	The Trane Co. Cu. Ft.	Toyota Cu. Ft.	Total		Number of Customers Monitored	Total Gals. / Day	Tot. Average Usage for Customers Monitored Gals. / Day	Max Day Usage Ratios							
							Cu. Ft.	Cu. Ft.											
1	1,123	28,731	8,919	7,039	20,931	285,590	352,333	6	2,942,498	2,162,679	1.22								
2	993	24,764	11,319	7,419	19,185	285,259	348,939	6	2,617,043	2,162,679	1.21								
3	1,259	28,670	11,745	7,591	20,295	308,141	377,701	6	2,832,758	2,162,679	1.31								
4	238	34,776	7	7,514	11,636	123,042	177,213	6	1,329,098	2,162,679	0.61								
5	184	24,857	5	6,736	9,746	85,936	127,464	6	955,980	2,162,679	0.44								
6	228	31,172	18	1,496	13,165	43,235	89,312	6	669,840	2,162,679	0.31								
7	1,166	26,744	11,088		20,617	234,867	294,482	5	2,208,615	2,130,146	1.04								
8	1,962	25,621	13,161	1,860	21,224	304,697	368,525	6	2,763,938	2,162,679	1.28								
9	2,822	21,185	11,084	4,057	18,743	299,800	357,671	6	2,682,533	2,162,679	1.24								
10	2,099	25,358	11,553	5,989	20,900	285,457	351,356	6	2,635,170	2,162,679	1.22								
11	92	21,016	14	6,326	15,057	134,358	176,863	6	1,326,473	2,162,679	0.61								
12	68	23,389	4	6,461	17,343	68,468	115,733	6	867,998	2,162,679	0.40								
13	942	21,454	11,513	5,348	18,516	220,917	278,690	6	2,090,175	2,162,679	0.97								
14	1,123	26,881	14,172	6,802	20,174	260,217	329,369	6	2,470,268	2,162,679	1.14								
15	1,021	25,768	12,004	7,234	15,733	270,877	332,637	6	2,494,778	2,162,679	1.15								
16	1,130	27,230	11,019	6,124	15,997	261,152	322,652	6	2,419,890	2,162,679	1.12								
17	1,072	26,821	10,901	6,657	17,501	251,136	314,088	6	2,355,660	2,162,679	1.09								
18	82	25,139	172	6,163	12,665	109,872	154,093	6	1,155,698	2,162,679	0.53								
19	65	17,384	6	6,234	8,690	90,579	122,958	6	922,185	2,162,679	0.43								
20	978	18,202	10,192	4,799	19,895	221,762	275,828	6	2,068,710	2,162,679	0.96								
21	1,157	25,772	10,781	6,008	11,717	254,207	309,642	6	2,322,315	2,162,679	1.07								
22	1,397	28,655	11,955	5,687	12,684	236,958	297,336	6	2,230,020	2,162,679	1.03								
23	804	26,871	10,235	5,729	14,459	255,222	313,320	6	2,349,900	2,162,679	1.09								
24	789	27,624	1,683	6,563	18,527	291,470	346,656	6	2,599,920	2,162,679	1.20								
25	60	22,449	390	6,311	17,012	127,606	173,828	6	1,303,710	2,162,679	0.60								
26	19	15,592	4	5,463	18,393	98,555	138,026	6	1,035,195	2,162,679	0.48								
27	1,258	25,853	6,989	4,942	16,521	230,547	286,110	6	2,145,825	2,162,679	0.99								
28	1,472	26,663	15,158	5,977	22,053	325,146	396,469	6	2,973,518	2,162,679	1.37								
29	1,721	27,378	12,849	5,880	16,609	274,724	339,161	6	2,543,708	2,162,679	1.18								
30	1,871	28,504	13,171	5,861	18,530	225,818	293,755	6	2,203,163	2,162,679	1.02								
Total	29,193	760,523	232,091	170,270	504,518	6,465,615	8,162,210		61,216,575										

		KAWC -- CUSTOMER DEMAND STUDY												Page 1 / 4	
		SCHEDULE 5													
		OWU USER CLASS - COMPOSITE MAX DAY													
June 1999	380-0903 Lex South Elkhorn	380-0892 Lex South Elkhorn	Spears		Total		Total		Number of		Tot. Average		Usage for		Max Day Usage Ratios
			Cu. Ft.	Water Dist.	Cu. Ft. / Day	Gals. / Day	Customers Monitored	Customers Monitored	Customers Monitored	Gals. / Day	Customers Monitored	Gals. / Day			
1	58,863	105			58,968	442,260			2		504,721			0.88	
2	49,447	105			49,552	371,640			2		504,721			0.74	
3	65,707	94			65,801	493,508			2		504,721			0.98	
4	78,864	96			78,960	592,200			2		504,721			1.17	
5	92,886	109			92,995	697,463			2		504,721			1.38	
6	86,194	152			86,346	647,595			2		504,721			1.28	
7	104,576	115			104,691	785,183			2		504,721			1.56	
8	86,715	102			86,817	651,128			2		504,721			1.29	
9	106,649	133		16,078	122,860	921,450			3		625,546			1.47	
10	101,137	163		18,156	119,456	895,920			3		625,546			1.43	
11	92,772	147		19,407	112,326	842,445			3		625,546			1.35	
12	112,592	462		19,090	132,144	991,080			3		625,546			1.58	
13	113,037	90		20,791	133,918	1,004,385			3		625,546			1.61	
14	84,802	5		15,252	100,059	750,443			3		625,546			1.20	
15	57,833	46		15,176	73,055	547,913			3		625,546			0.88	
16	86,374	95		18,017	104,486	783,645			3		625,546			1.25	
17	81,504	70		15,764	97,438	730,785			3		625,546			1.17	
18	97,227	135		15,865	113,227	849,203			3		625,546			1.36	
19	89,278	200		19,403	108,881	816,608			3		625,546			1.31	
20	113,387	224		21,020	134,631	1,009,733			3		625,546			1.61	
21	100,859	421		20,545	121,825	913,688			3		625,546			1.46	
22	104,669	163		20,176	125,008	937,560			3		625,546			1.50	
23	116,681	66		18,032	134,779	1,010,843			3		625,546			1.62	
24	75,322	62		15,524	90,908	681,810			3		625,546			1.09	
25	65,231	69		12,895	78,196	586,463			3		625,546			0.94	
26	85,443	73		16,999	102,515	768,863			3		625,546			1.23	
27	85,530	70		14,685	100,285	752,138			3		625,546			1.20	
28	54,186	64		12,463	66,713	500,348			3		625,546			0.80	
29	80,266	70		12,765	93,101	698,258			3		625,546			1.12	
30	63,520	70		14,329	77,919	584,393			3		625,546			0.93	
Total	2,591,651	3,776		372,432	2,967,859	22,258,943									

		KAWC -- CUSTOMER DEMAND STUDY										Page 2 / 4	
		SCHEDULE 5											
		OWU USER CLASS - COMPOSITE MAX DAY											
July 1999	380-0903 Lex South Elkhorn Cu. Ft.	380-0892 Lex South Elkhorn Cu. Ft.	Spears		Total		Number of Customers Monitored		Tot. Average Usage for Customers Monitored		Max Day Usage Ratios		
			Water Dist.	Cu. Ft.	Cu. Ft. / Day	Gals. / Day	Customers Monitored	Customers Monitored	Gals. / Day	Ratios			
1	84,090	73	13,589	97,752	733,140	3	625,546	1.17					
2	80,276	70	14,512	94,858	711,435	3	625,546	1.14					
3	86,381	82	15,514	101,977	764,828	3	625,546	1.22					
4	92,018	75	16,438	108,531	813,983	3	625,546	1.30					
5	111,499	74	18,785	130,358	977,685	3	625,546	1.56					
6	75,480	165	18,569	94,214	706,605	3	625,546	1.13					
7	108,343	76	18,456	126,875	951,563	3	625,546	1.52					
8	79,007	191	17,554	96,752	725,640	3	625,546	1.16					
9	109,649	269	22,615	132,533	993,998	3	625,546	1.59					
10	97,701	76	21,411	119,188	893,910	3	625,546	1.43					
11	100,500	249	22,773	123,522	926,415	3	625,546	1.48					
12	96,857	154	26,449	123,460	925,950	3	625,546	1.48					
13	80,351	122	25,538	106,011	795,083	3	625,546	1.27					
14	83,639	170	23,512	107,321	804,908	3	625,546	1.29					
15	95,053	157	24,204	119,414	895,605	3	625,546	1.43					
16	111,403	198	21,574	133,175	998,813	3	625,546	1.60					
17	116,134	142	21,793	138,069	1,035,518	3	625,546	1.66					
18	121,449	751	22,674	144,874	1,086,555	3	625,546	1.74					
19	112,010	143	21,438	133,591	1,001,933	3	625,546	1.60					
20	97,331	1,375	18,488	117,194	878,955	3	625,546	1.41					
21	102,199	1,196	14,708	118,103	865,773	3	625,546	1.42					
22	81,004	70	16,032	97,106	728,295	3	625,546	1.16					
23	109,456	99	17,307	126,862	951,465	3	625,546	1.52					
24	84,170	131	20,037	104,338	782,535	3	625,546	1.25					
25	110,127	175	20,258	130,560	979,200	3	625,546	1.57					
26	107,421	178	18,711	126,310	947,325	3	625,546	1.51					
27	107,489	112	18,005	125,606	942,045	3	625,546	1.51					
28	106,626	126	17,224	123,976	929,820	3	625,546	1.49					
29	86,527	95	18,763	105,365	790,388	3	625,546	1.26					
30	101,953	158	20,989	123,080	923,100	3	625,546	1.48					
31	107,727	184	22,637	130,548	979,110	3	625,546	1.57					
Total	3,043,870	7,136	610,537	3,661,543	27,461,573								

		KAWC -- CUSTOMER DEMAND STUDY										Page 3 / 4	
		SCHEDULE 5											
		OWU USER CLASS - COMPOSITE MAX DAY											
August 1999	380-0903 Lex South Elkhorn	380-0892 Lex South Elkhorn	Spears		Total		Total		Number of		Tot. Average		
			Water Dist.	Cu. Ft.	Cu. Ft. / Day	Gals. / Day	Gals. / Day	Customers Monitored	Customers Monitored	Usage for Customers Monitored	Max Day Usage Ratios		
1	119,745	218	22,658	142,621	1,069,658	3	625,546	1.71					
2	100,934	209	20,783	121,926	914,445	3	625,546	1.46					
3	110,356	222	21,277	131,855	988,913	3	625,546	1.58					
4	118,086	177	21,539	139,802	1,048,515	3	625,546	1.68					
5	112,327	109	21,484	133,920	1,004,400	3	625,546	1.61					
6	105,771	141	22,078	127,990	959,925	3	625,546	1.53					
7	117,854	191	22,056	140,101	1,050,758	3	625,546	1.68					
8	97,037	135	18,749	115,921	869,408	3	625,546	1.39					
9	97,933	127	18,601	116,661	874,958	3	625,546	1.40					
10	86,335	270	20,333	106,938	802,035	3	625,546	1.28					
11	108,214	126	21,331	129,671	972,533	3	625,546	1.55					
12	116,335	218	21,164	137,717	1,032,878	3	625,546	1.65					
13	93,103	142	20,734	113,979	854,843	3	625,546	1.37					
14	115,969	278	19,369	135,606	1,017,045	3	625,546	1.63					
15	108,755	153	17,572	126,480	948,600	3	625,546	1.52					
16	107,219	95	13,537	120,851	906,383	3	625,546	1.45					
17	92,073	230	16,345	108,648	814,860	3	625,546	1.30					
18	109,200	184	20,593	129,977	974,828	3	625,546	1.56					
19	87,636	141	20,194	107,971	809,783	3	625,546	1.29					
20	91,967	169	19,171	111,307	834,803	3	625,546	1.33					
21	88,053	98	21,397	109,548	821,610	3	625,546	1.31					
22	104,900	254	22,257	127,411	955,583	3	625,546	1.53					
23	83,465	93	20,545	104,103	780,773	3	625,546	1.25					
24	56,296	111	19,069	75,476	566,070	3	625,546	0.90					
25	62,397	262	18,288	80,947	607,103	3	625,546	0.97					
26	77,058	279	18,943	96,280	722,100	3	625,546	1.15					
27	87,142	285	18,335	105,762	793,215	3	625,546	1.27					
28	72,518	294	16,858	91,670	687,525	3	625,546	1.10					
29	95,564	152	19,598	115,304	864,780	3	625,546	1.38					
30	39,636	0	16,547	58,183	436,373	3	625,546	0.70					
31	73,605	20	20,359	93,984	704,880	3	625,546	1.13					
Total	2,937,473	5,383	615,754	3,558,610	26,689,575								

KAWC -- CUSTOMER DEMAND STUDY														Page 4 / 4	
OWU USER CLASS - COMPOSITE MAX DAY															
SCHEDULE 5															
September 1999	380-0903		380-0892		City of		Spears		Total		Number of		Tot. Average		
	Lex South Elkhorn	Cu. Ft.	Lex South Elkhorn	Cu. Ft.	Midway	Cu. Ft.	Water Dist.	Cu. Ft.	Cu. Ft. / Day	Gals. / Day	Customers Monitored	Customers Monitored	Gals. / Day	Usage Ratios	
1	116,390	20	13,701	21,463	151,574	1,136,805	4	760,569	1.49						
2	107,154	0	16,024	20,857	144,035	1,080,263	4	760,569	1.42						
3	110,234	50	16,177	20,908	147,369	1,105,268	4	760,569	1.45						
4	118,094	0	17,976	22,177	158,247	1,186,853	4	760,569	1.56						
5	100,519	32	17,679	22,034	140,264	1,051,980	4	760,569	1.38						
6	124,333	0	19,624	20,433	164,390	1,232,925	4	760,569	1.62						
7	78,884	57	20,322	19,419	118,682	890,115	4	760,569	1.17						
8	73,833	90	17,551	19,603	111,077	833,078	4	760,569	1.10						
9	95,078	68	16,149	18,799	130,094	975,705	4	760,569	1.28						
10	94,854	78	15,537	18,007	128,476	963,570	4	760,569	1.27						
11	85,772	0	20,219	19,520	125,511	941,333	4	760,569	1.24						
12	108,985	0	19,402	20,381	148,768	1,115,760	4	760,569	1.47						
13	56,367	0	19,212	16,275	91,854	688,905	4	760,569	0.91						
14	60,572	0	16,721	16,402	93,695	702,713	4	760,569	0.92						
15	88,127	233	18,822	16,375	123,557	926,678	4	760,569	1.22						
16	76,848	209	18,227	17,560	112,844	846,330	4	760,569	1.11						
17	80,201	0	18,676	18,261	117,138	878,535	4	760,569	1.16						
18	76,810	0	17,561	19,028	113,399	850,493	4	760,569	1.12						
19	103,519	0	17,952	19,932	141,403	1,060,523	4	760,569	1.39						
20	62,368	0	19,271	18,669	100,308	752,310	4	760,569	0.99						
21	58,353	0	21,507	17,223	97,083	728,123	4	760,569	0.96						
22	78,809	10	21,838	16,417	117,074	878,055	4	760,569	1.15						
23	66,199	0	21,208	15,562	102,969	772,268	4	760,569	1.02						
24	89,573	0	18,966	15,099	123,638	927,295	4	760,569	1.22						
25	84,822	0	16,873	16,837	118,332	887,490	4	760,569	1.17						
26	91,664	0	19,663	17,970	129,297	969,728	4	760,569	1.28						
27	70,054	0	18,384	15,195	103,633	777,248	4	760,569	1.02						
28	61,074	17	17,605	16,500	95,196	713,970	4	760,569	0.94						
29	53,743	0	14,780	15,860	84,383	632,873	4	760,569	0.83						
30	53,414	0	14,737	14,837	82,988	622,410	4	760,569	0.82						
Total	2,526,647	864	542,164	547,603	3,617,276	27,129,585									

		KAWC -- CUSTOMER DEMAND STUDY																					
		SCHEDULE 2A																					
		COMMERCIAL USER CLASS - COMPOSITE MAX HOUR - June 21, 1999																					
Time	Cu. Ft.	Bob Evans Restaurant		Days Inn		Dismas Charities Inc		Emerson Center		Hartland Home Owners		Hoagland Comm. Rtl		Holiday Cleaners		Lexington Country Club		Little Joe's Mobile Hms		Patchen Wilkes Farm		Parkhill's Apts LTD	
		Cu. Ft.		Cu. Ft.		Cu. Ft.		Cu. Ft.		Cu. Ft.		Cu. Ft.		Cu. Ft.		Cu. Ft.		Cu. Ft.		Cu. Ft.		Cu. Ft.	
0.00	0.00	24.85	88.91	17.35	43.01	0.01	7.44	26.61	1283.90	403.25	14.00	41.05											
1.00	0.00	3.54	97.42	3.42	30.92	0.01	6.18	26.17	992.87	292.21	13.08	25.35											
2.00	0.00	3.04	66.70	2.52	26.70	0.00	6.23	26.90	1248.52	273.01	13.60	16.17											
3.00	0.00	2.32	66.12	1.49	18.46	0.01	6.21	26.98	1112.29	257.88	13.31	10.20											
4.00	0.00	2.52	69.62	1.49	22.88	0.01	6.19	26.76	360.56	255.86	16.34	9.51											
5.00	0.00	23.34	66.98	2.00	35.73	0.01	6.19	26.54	1357.50	261.26	24.86	8.30											
6.00	0.00	29.11	74.65	4.86	50.72	0.03	6.81	26.79	1368.82	303.90	15.17	13.22											
7.00	0.00	48.61	78.22	21.76	106.28	0.03	10.08	32.88	470.78	319.66	22.10	59.65											
8.00	8.77	27.51	83.32	21.86	117.84	0.02	17.94	37.72	630.54	332.39	20.52	42.20											
9.00	38.94	41.71	112.49	11.28	104.16	22.91	25.27	11.93	88.46	314.54	28.44	38.54											
10.00	65.88	80.08	84.86	4.51	128.25	144.75	30.68	17.27	175.50	309.59	93.22	36.25											
11.00	68.22	63.19	73.78	7.90	110.53	134.66	42.31	5.91	32.73	349.66	100.74	20.09											
12.00	65.89	32.64	92.75	6.59	98.11	144.75	48.32	18.19	58.38	397.09	68.50	23.71											
13.00	73.51	52.17	111.62	4.16	75.47	97.37	31.78	9.13	120.84	395.19	64.91	18.54											
14.00	97.29	40.72	101.72	8.53	99.47	0.02	45.03	17.65	872.57	374.39	91.70	39.89											
15.00	72.99	41.39	101.88	2.20	80.59	0.02	37.39	9.17	641.69	373.01	94.84	29.30											
16.00	67.29	21.17	102.72	29.37	78.07	0.02	38.62	1.24	1037.10	359.80	113.22	32.27											
17.00	52.86	28.05	99.09	29.63	77.94	0.04	37.25	0.69	802.15	393.57	101.29	29.98											
18.00	38.21	16.64	104.27	19.29	78.64	0.02	25.48	0.51	549.16	414.98	80.54	20.96											
19.00	1.50	9.11	129.56	17.99	74.58	0.01	11.83	0.73	766.24	477.40	76.13	40.77											
20.00	0.00	19.06	133.86	44.50	78.17	0.01	15.89	0.81	1498.86	533.29	16.92	20.68											
21.00	0.00	20.67	141.99	45.24	95.98	30.02	9.19	0.91	1537.25	464.04	14.63	39.51											
22.00	0.00	14.65	120.74	41.75	58.51	144.75	7.41	1.00	913.43	453.70	15.11	30.27											
23.00	0.00	20.26	97.67	27.49	53.62	92.57	6.95	1.07	1420.84	416.45	26.28	22.32											
Total	651.35	666.35	2300.94	377.18	1747.63	812.05	486.67	353.56	19340.98	8726.32	1139.45	688.73											

SCHEDULE 2A										1/3/00
Time	Wendy's Hamburgers Cu. Ft.	Total Cu. Ft. / Hour	Total Gals. / Hour	Times 24 = Gals. / Day	Tot. Average Usage for Customers Monitored	Max Hour Usage				
				Rate	Gals. / Day	Ratios				
0.00	5.93	1956.31	14672.33	352,136	148,592	2.37				
1.00	21.28	1512.45	11343.38	272,241	148,592	1.83				
2.00	0.93	1686.32	12647.40	303,538	148,592	2.04				
3.00	0.09	1515.36	11365.20	272,765	148,592	1.84				
4.00	0.10	771.84	5788.80	138,931	148,592	0.93				
5.00	0.09	1812.80	13596.00	326,304	148,592	2.20				
6.00	0.42	1894.50	14208.75	341,010	148,592	2.29				
7.00	2.07	1172.12	8790.90	210,982	148,592	1.42				
8.00	10.79	1351.42	10135.65	243,256	148,592	1.64				
9.00	8.12	846.79	6350.93	152,422	148,592	1.03				
10.00	5.53	1176.37	8822.78	211,747	148,592	1.43				
11.00	9.43	1019.35	7645.13	183,483	148,592	1.23				
12.00	11.10	1066.02	7995.15	191,884	148,592	1.29				
13.00	10.30	1065.99	7994.93	191,878	148,592	1.29				
14.00	9.22	1798.20	13486.50	323,676	148,592	2.18				
15.00	8.27	1492.74	11195.55	268,693	148,592	1.81				
16.00	4.26	1885.15	14138.63	339,327	148,592	2.28				
17.00	4.64	1657.18	12428.85	298,292	148,592	2.01				
18.00	8.99	1357.69	10182.68	244,384	148,592	1.64				
19.00	6.26	1612.11	12090.83	290,180	148,592	1.95				
20.00	5.11	2367.16	17753.70	426,089	148,592	2.87				
21.00	1.81	2401.04	18007.80	432,187	148,592	2.91				
22.00	6.70	1808.02	13560.15	325,444	148,592	2.19				
23.00	3.29	2188.81	16416.08	393,986	148,592	2.65				
Total	144.53	37415.74								

Time	KAWC -- CUSTOMER DEMAND STUDY															12/30/99
	SCHEDULE 3A															
	OPA USER CLASS - COMPOSITE MAX HOUR - July 23, 1999															
Ag. Science Dept., UK	Federal Medical Center	Shephards House Inc.	UK Cooling Plant	UK Horticulture	UK Hospital	VA Hospital	Total Cu. Ft. / Hour	Total Gals. / Hour	Times 24 = Gals. / Day	Total Gals. / Day	Customers Monitored	Max Hour Usage	Tot. Average Usage for			
Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Cu. Ft.	Rate	Rate	Gals. / Day	Usage	Usage	Usage		
0.00	2144.61	6.74	1940.27	102.57	1953.38	1082.42	7236.69	54,275	1,302,604	874,127	1.49					
1.00	2834.59	0.39	1467.90	93.32	1921.45	898.10	7221.19	54,159	1,299,814	874,127	1.49					
2.00	2868.39	0.44	1455.34	93.32	1903.66	924.10	7253.37	54,400	1,305,607	874,127	1.49					
3.00	3098.74	0.81	1808.82	94.17	1822.70	923.18	7759.16	58,194	1,396,649	874,127	1.60					
4.00	3141.91	0.55	1318.58	89.96	1874.27	859.47	7296.33	54,722	1,313,339	874,127	1.50					
5.00	3133.24	0.00	1786.18	89.96	1928.74	916.51	7864.89	58,987	1,415,680	874,127	1.62					
6.00	3147.56	3.67	1104.15	222.80	1822.58	876.22	7193.32	53,950	1,294,798	874,127	1.48					
7.00	2976.67	7.47	2098.08	293.43	1976.04	966.08	8342.63	62,570	1,501,673	874,127	1.72					
8.00	3099.09	9.02	1296.11	214.39	2095.36	1155.99	7911.61	59,337	1,424,090	874,127	1.63					
9.00	3147.39	10.60	1882.07	589.37	2281.48	1292.61	9248.03	69,360	1,664,645	874,127	1.90					
10.00	3179.06	1.68	1341.75	990.42	2887.43	1271.51	9508.70	71,315	1,711,566	874,127	1.96					
11.00	3094.67	3.30	2291.63	1454.51	2662.16	1483.55	11040.44	82,803	1,987,279	874,127	2.27					
12.00	2704.38	5.02	1777.68	1261.14	2620.16	1367.23	9753.29	73,150	1,755,592	874,127	2.01					
13.00	2748.79	0.48	2302.25	712.12	2671.00	1400.56	9875.39	74,065	1,777,570	874,127	2.03					
14.00	2502.17	5.29	2260.14	534.72	2945.67	1682.56	10034.30	75,257	1,806,174	874,127	2.07					
15.00	2470.68	1.89	1945.23	569.19	2650.97	1771.40	9486.39	71,148	1,707,550	874,127	1.95					
16.00	2482.00	4.05	2024.31	719.69	2584.00	1834.95	9721.36	72,910	1,749,845	874,127	2.00					
17.00	2436.53	9.15	2416.01	406.93	2429.07	1564.64	9285.06	69,638	1,671,311	874,127	1.91					
18.00	2394.78	7.64	1670.29	360.69	2397.88	1442.98	8303.25	62,274	1,494,585	874,127	1.71					
19.00	2110.29	12.78	2409.11	379.18	2282.08	1498.38	8721.88	65,414	1,569,938	874,127	1.80					
20.00	2092.07	5.56	2243.51	177.40	2167.54	1410.87	8136.74	61,026	1,464,613	874,127	1.88					
21.00	2078.62	2.27	2270.93	363.21	2202.15	1451.13	8392.95	62,947	1,510,731	874,127	1.73					
22.00	2185.66	6.04	2179.29	874.39	2312.47	2041.45	9610.90	72,082	1,729,962	874,127	1.98					
23.00	2216.79	6.80	2114.89	226.16	2258.24	1874.72	8704.65	65,285	1,566,837	874,127	1.79					
	743.61		45404.52	10973.04	54450.42	31990.61										

KAWC -- CUSTOMER DEMAND STUDY													
INDUSTRIAL USER CLASS - COMPOSITE MAX HOUR - July 30, 1999													
SCHEDULE 4A													
Time	Crest Products Inc Cu. Fl.	General Electric Cu. Fl.	Pepsi Cola Cu. Fl.	Proctor & Gamble Cu. Fl.	The Trans Co. Cu. Fl.	Toyota Cu. Fl.	Total Cu. Fl. / Hour	Total Gals. / Hour	Times 24 = Gals. / Day	Customers Monitored Gals. / Day	Max Hour Usage Ratios	Tot. Average Usage for	
0.00	134.50	2223.69	202.66	311.37	1311.60	18975.85	23159.67	173,698	4,168,741	2,162,679	1.93		
1.00	140.84	1769.40	513.39	295.28	1394.73	19851.37	23965.01	179,738	4,313,702	2,162,679	1.99		
2.00	120.11	2243.27	474.29	293.96	1648.57	14854.86	19635.06	147,263	3,534,311	2,162,679	1.63		
3.00	119.78	1701.04	166.60	292.80	1541.44	7072.44	10914.10	81,856	1,964,538	2,162,679	0.91		
4.00	119.22	2108.69	22.18	307.71	1431.63	20598.97	24588.40	184,413	4,425,912	2,162,679	2.05		
5.00	135.42	1703.90	30.51	294.68	1452.00	7440.31	11046.82	82,851	1,988,428	2,162,679	0.92		
6.00	139.32	2033.37	466.29	296.35	1641.23	16337.40	22913.96	171,855	4,124,513	2,162,679	1.91		
7.00	119.27	1985.30	553.29	307.65	1483.33	7024.33	11473.17	86,049	2,065,171	2,162,679	0.95		
8.00	178.68	2259.71	651.91	311.77	1628.32	19093.06	24123.45	180,926	4,342,221	2,162,679	2.01		
9.00	172.11	2103.04	672.63	330.86	1594.45	21102.42	25975.51	194,816	4,675,592	2,162,679	2.16		
10.00	184.24	2017.13	807.73	300.83	1716.26	4965.71	9991.90	74,939	1,798,542	2,162,679	0.83		
11.00	136.15	2428.67	813.92	302.73	1591.62	23082.69	28355.98	212,670	5,104,076	2,162,679	2.36		
12.00	140.19	1837.89	1215.66	324.51	1416.21	10373.73	15308.21	114,812	2,755,478	2,162,679	1.27		
13.00	81.14	2360.34	961.63	302.33	1469.35	15994.14	21168.93	158,767	3,810,407	2,162,679	1.76		
14.00	51.38	1950.39	1139.87	300.91	1298.94	19281.55	24023.04	180,173	4,324,147	2,162,679	2.00		
15.00	60.84	2306.78	639.33	314.75	1373.73	18889.41	23584.84	176,886	4,245,271	2,162,679	1.96		
16.00	60.98	2019.38	582.01	333.05	1262.46	19535.27	23793.15	178,449	4,262,767	2,162,679	1.98		
17.00	60.59	1839.12	470.94	328.69	1352.05	18714.88	22766.27	170,747	4,097,929	2,162,679	1.89		
18.00	71.80	2318.82	434.77	343.86	1691.52	17873.86	22734.63	170,510	4,092,233	2,162,679	1.89		
19.00	61.77	2075.28	369.91	354.90	1924.33	18785.52	23571.71	176,788	4,242,908	2,162,679	1.96		
20.00	27.42	2509.16	394.90	355.09	1785.30	18305.18	23377.05	175,328	4,207,869	2,162,679	1.95		
21.00	12.82	2182.33	966.14	402.33	1781.96	16939.28	22284.86	167,136	4,011,275	2,162,679	1.85		
22.00	15.22	2298.74	793.27	330.96	1597.93	16632.67	21868.79	164,016	3,936,362	2,162,679	1.82		
23.00	32.22	2395.87	530.80	315.20	1748.46	19997.80	25020.35	187,553	4,503,663	2,162,679	2.08		
Total	2376.01	50671.51	13894.65	7642.57	37137.42	393922.70							

KAWC -- CUSTOMER DEMAND STUDY													12/30/99
SCHEDULE 5A													
OWU USER CLASS - COMPOSITE MAX HOUR - July 18, 1999													
Time	Lex South		Spears		Total		Times 24 =		Tot. Average		Max Hour	Usage Ratios	
	Eikhorn Cu. Ft.	Eikhorn Cu. Ft.	Water Dist. Cu. Ft.	Spears Cu. Ft.	Cu. Ft. / Hour	Gals. / Hour	Gals. / Day	Rate	Customers Monitored	Gals. / Day			
0.00	4878.07	4.56	826.04		5708.67	42,815	1,027,561	625,546	1.64				
1.00	5005.81	4.05	628.24		5638.10	42,286	1,014,858	625,546	1.62				
2.00	5113.55	3.92	548.80		5666.27	42,497	1,019,929	625,546	1.63				
3.00	5004.04	2.90	500.15		5507.09	41,303	991,276	625,546	1.58				
4.00	4811.73	2.93	577.99		5392.65	40,445	970,677	625,546	1.55				
5.00	4844.46	3.01	696.88		5544.35	41,583	997,983	625,546	1.60				
6.00	5070.74	11.74	627.89		5710.37	42,828	1,027,867	625,546	1.64				
7.00	4961.40	50.03	736.34		5747.77	43,108	1,034,598	625,546	1.65				
8.00	4928.32	52.69	909.19		5890.20	44,177	1,060,236	625,546	1.69				
9.00	4998.03	54.00	948.11		6000.14	45,001	1,080,025	625,546	1.73				
10.00	4864.63	55.70	1019.58		5939.91	44,549	1,069,184	625,546	1.71				
11.00	5309.23	56.14	1112.64		6478.01	48,585	1,166,042	625,546	1.86				
12.00	5291.18	55.03	1132.81		6479.02	48,593	1,166,224	625,546	1.86				
13.00	4941.23	53.88	1103.44		6098.55	45,739	1,097,738	625,546	1.75				
14.00	4994.84	54.50	1042.23		6091.57	45,687	1,096,463	625,546	1.75				
15.00	5043.14	55.15	1050.19		6148.48	46,114	1,106,726	625,546	1.77				
16.00	4846.76	54.07	1062.22		5963.05	44,723	1,073,349	625,546	1.72				
17.00	4981.93	54.50	1105.21		6141.64	46,062	1,105,495	625,546	1.77				
18.00	4572.71	55.48	1138.47		5766.66	43,250	1,037,999	625,546	1.66				
19.00	5472.88	45.37	1169.79		6688.04	50,160	1,203,847	625,546	1.92				
20.00	5375.19	9.65	1167.49		6552.33	49,142	1,179,419	625,546	1.89				
21.00	5324.09	3.59	1255.95		6583.63	49,377	1,185,053	625,546	1.89				
22.00	5526.13	5.11	1309.20		6840.44	51,303	1,231,279	625,546	1.97				
23.00	5289.23	2.91	1005.25		6297.39	47,230	1,133,530	625,546	1.81				
Total	121449.32	750.91	22674.10										

RESIDENTIAL CLASS MAXIMUM DAY DEMAND

As previously stated, meters were read on a daily basis for 204 residential customers during the months of June, July, August and September in order to estimate the maximum day demand factor for the residential customer class. The number of customers whose meters were read on a daily basis varied from 188 to 204 but 204 customers were monitored on approximately 85 percent of the days and 188 customers were monitored approximately 5 percent of the days. The remaining number of customers monitored on 10 percent of the days were 202 or 203.

The information required to calculate the maximum day demands for the residential customers is shown on Schedule 6 which begins on report page 53. The maximum day demands for the months of June, July, August and September are calculated on pages 1, 2, 3, and 4 of Schedule 6. The total average annual daily usage for the customers that were monitored on each day from June through September is calculated on pages 5 and 6 of Schedule 6. The total annual usage for the year ending November 1999 for each of the 204 customers that were monitored is shown on pages 7 and 8 of Schedule 6. The account sequence number and the 12 months total usage are shown on pages 7 and 8 for each customer. The total annual usage for all 204 customers, 16,035 CCF, is shown on page 8. The total annual usage for the customers that were not monitored on various days during the months of June, July and August are shown on page 9 of Schedule 6. During the month of September, all 204 customers were monitored. The numbers on page 9 are used on pages 5 and 6 to calculate the average daily usage for the customers that were monitored.

The five highest maximum day demands for the residential customers occurred on June 8, July 19, August 5, June 22, and September 2. The maximum day usage ratios were 1.77, 1.66, 1.64, 1.59 and 1.57. The average of the five highest days is 1.65. The highest maximum day demand, 1.77 on June 8, was calculated as follows.

The number of customer monitored on June 8 was 188 as shown on Schedule 6 page 1/9. The total usage on June 8 for the 188 monitored customers, 7,297 cu. ft./day, was provided by KAWC and was calculated based on daily meter readings. The total average annual daily usage for the 188 monitored customers, 4,120 cu. ft./day, was calculated on page 5/9 as follows. The total 12 month usage for the 204 customers that were monitored is 16,035 CCF as shown on page 8/9. The annual usage, 998 CCF for the 16 (204-188) customers that were not monitored on June 8 is shown on page

9/9. The balance for the customers that were monitored on June 8 is 15,037 CCF (16,035 - 998). The average daily usage for the monitored customers is 4,120 cu. ft./day ($15,037/365 \times 100$). The maximum day usage ratio on June 8, 1.77 as shown on page 1/9 was calculated by dividing the total usage on June 8 for the 188 monitored customers by the average annual daily usage for the 188 monitored customers ($7,297/4,120 = 1.77$).

As previously stated on page 1 of the report, water use restrictions during the summer of 1999 actually lowered the maximum day demands for the residential customers. Therefore, you can justify increasing the 1999 residential customer class maximum day demand factor in a range of 10 to 20 percent. As previously stated, the average of the five highest maximum day demand factors was 1.65 which is equal to 165 percent and if the average was increased by 15 percent the maximum day demand would be 190 percent (165×1.15). As we previously stated, normally the residential customer class maximum day demand is about 200 percent.

KAWC -- CUSTOMER DEMAND STUDY													Page 1/9
RESIDENTIAL USER CLASS - MAX DAY DEMAND													
SCHEDULE 6													
RESIDENTIAL USER CLASS - MAX DAY DEMAND													
June 1999	Number of Customers Monitored	Total Usage Monit. Custs Cu. Ft. / Day	ToL Average Annual Usage for Monit. Custs Cu. Ft. / Day	Max Day Usage Ratios	Average Usage for Monit. Custs Gals. / Day	Avg. Annual Usage for Monit. Custs Gals. / Day							
1													
2	188	4,276	4,120	1.04	171	164							
3	188	4,038	4,120	0.98	161	164							
4	188	4,072	4,120	0.99	162	164							
5													
6													
7													
8	188	7,297	4,120	1.77	291	164							
9	204	5,263	4,393	1.20	193	162							
10	204	5,778	4,393	1.32	212	162							
11	204	5,093	4,393	1.16	187	162							
12	204	5,978	4,393	1.36	220	162							
13	204	4,781	4,393	1.09	176	162							
14	204	5,461	4,393	1.24	201	162							
15	204	4,946	4,393	1.13	182	162							
16	204	4,585	4,393	1.04	169	162							
17	204	5,161	4,393	1.17	190	162							
18	204	4,967	4,393	1.13	183	162							
19													
20													
21													
22	204	6,986	4,393	1.59	257	162							
23	204	6,207	4,393	1.41	228	162							
24	204	5,376	4,393	1.22	198	162							
25	204	4,432	4,393	1.01	163	162							
26	204	4,266	4,393	0.97	157	162							
27	204	4,567	4,393	1.04	168	162							
28	204	5,093	4,393	1.16	187	162							
29	203	3,973	4,341	0.92	147	160							
30	203	4,398	4,341	1.01	162	160							

KAWC - CUSTOMER DEMAND STUDY										Page 2 / 9
SCHEDULE 6										12/28/99
RESIDENTIAL USER CLASS - MAX DAY DEMAND										
ToL Average										
Annual										
Usage for										Average
Monit. Custs										Usage for
Cu. Ft. / Day										Monit. Custs
Ratios										Gals. / Day
Pg. 5/9										
Pg. 5/9										
1	204	5,107	4,393	1.16	188					162
2	204	4,099	4,393	0.93	151					162
3										
4										
5										
6										
7	203	5,207	4,379	1.19	192					162
8	203	5,157	4,379	1.18	191					162
9	203	5,931	4,379	1.35	219					162
10	202	5,866	4,370	1.34	218					162
11	203	4,417	4,385	1.01	163					162
12	204	5,068	4,393	1.15	186					162
13	204	4,978	4,393	1.13	183					162
14	204	5,996	4,393	1.36	220					162
15	204	5,654	4,393	1.29	208					162
16	204	6,148	4,393	1.40	226					162
17	203	5,570	4,375	1.27	206					162
18	203	6,787	4,375	1.55	251					162
19	204	7,290	4,393	1.66	268					162
20	204	6,114	4,393	1.39	225					162
21	204	4,258	4,393	0.97	157					162
22	204	4,335	4,393	0.99	159					162
23	204	4,725	4,393	1.08	174					162
24	204	4,558	4,393	1.04	168					162
25	204	5,489	4,393	1.25	202					162
26	204	6,146	4,393	1.40	226					162
27	204	5,692	4,393	1.30	209					162
28	204	4,882	4,393	1.11	179					162
29	204	5,697	4,393	1.30	209					162
30	204	6,311	4,393	1.44	232					162
31	204	5,155	4,393	1.17	190					162

KAWC -- CUSTOMER DEMAND STUDY										Page 4 / 9
SCHEDULE 6										12/28/99
RESIDENTIAL USER CLASS - MAX DAY DEMAND										
September 1999	Number of Customers Monitored	Total Usage Monit. Custs Cu. Ft. / Day	Usage for Monit. Custs Cu. Ft. / Day	Max Day Usage Ratios	Average Usage for Monit. Custs Gals. / Day	Avg. Annual Usage for Monit. Custs Gals. / Day				
							Pg. 6/9			
1	204	6,662	4,393	1.52	245	162				
2	204	6,908	4,393	1.57	254	162				
3	204	6,032	4,393	1.37	222	162				
4	204	5,455	4,393	1.24	201	162				
5	204	6,481	4,393	1.48	238	162				
6	204	5,680	4,393	1.29	209	162				
7	204	4,794	4,393	1.09	176	162				
8	204	4,375	4,393	1.00	161	162				
9	204	4,831	4,393	1.10	178	162				
10	204	4,919	4,393	1.12	181	162				
11										
12										
13										
14	204	4,115	4,393	0.94	151	162				
15	204	3,590	4,393	0.82	132	162				
16	204	4,094	4,393	0.93	151	162				
17	204	3,723	4,393	0.85	137	162				
18										
19										
20										
21	204	3,602	4,393	0.82	132	162				
22	204	3,639	4,393	0.83	134	162				
23	204	3,684	4,393	0.84	135	162				
24	204	4,340	4,393	0.99	160	162				
25										
26										
27										
28	204	3,894	4,393	0.89	143	162				
29	204	3,696	4,393	0.84	136	162				
30	204	3,823	4,393	0.87	141	162				

RESIDENTIAL USER CLASS - MAX DAY DEMAND												Page 6 / 9	
SCHEDULE 6												12/28/99	
August 1999	Number of Customers Monitored	Tot. 12 Mo. Usage, 204 Customers		Deduct Custs. Not Monitored	September 1999	Average Usage		Balance CCF	Number of Customers Monitored	Tot. 12 Mo. Usage, 204 Customers		Deduct Custs. Not Monitored	Average Usage
		CCF	Pg. 8/9			Cu. Fl. / Day	Cu. Fl. / Day			CCF	Pg. 8/9		
1	204	16035	0	0	1	16035	4393	16035	204	16035	0	0	4393
2	204	16035	0	0	2	16035	4393	16035	204	16035	0	0	4393
3	204	16035	0	0	3	16035	4393	16035	204	16035	0	0	4393
4	204	16035	0	0	4	16035	4393	16035	204	16035	0	0	4393
5	204	16035	0	0	5	16035	4393	16035	204	16035	0	0	4393
6	204	16035	0	0	6	16035	4393	16035	204	16035	0	0	4393
7	204	16035	0	0	7	16035	4393	16035	204	16035	0	0	4393
8	204	16035	0	0	8	16035	4393	16035	204	16035	0	0	4393
9	204	16035	0	0	9	16035	4393	16035	204	16035	0	0	4393
10	204	16035	0	0	10	16035	4393	16035	204	16035	0	0	4393
11	203	16035	23	16012	11	16012	4387						
12	204	16035	0	0	12	16035	4393						
13	204	16035	0	0	13	16035	4393						
14	204	16035	0	0	14	16035	4393						
15	204	16035	0	0	15	16035	4393						
16	204	16035	0	0	16	16035	4393						
17	204	16035	0	0	17	16035	4393						
18	204	16035	0	0	18	16035	4393						
19	204	16035	0	0	19	16035	4393						
20	204	16035	0	0	20	16035	4393						
21	204	16035	0	0	21	16035	4393						
22	204	16035	0	0	22	16035	4393						
23	204	16035	0	0	23	16035	4393						
24	204	16035	0	0	24	16035	4393						
25	204	16035	0	0	25	16035	4393						
26	204	16035	0	0	26	16035	4393						
27	204	16035	0	0	27	16035	4393						
28					28	16035			204	16035	0	0	4393
29					29	16035			204	16035	0	0	4393
30					30	16035			204	16035	0	0	4393
31	204	16035	0	0		16035	4393						

RESIDENTIAL USER CLASS - MAX DAY DEMAND											
SCHEDULE 6											
Sequence Number	12 Months Tot. Usage CCF	Sequence Number	12 Months Tot. Usage CCF	Sequence Number	12 Months Tot. Usage CCF	Sequence Number	12 Months Tot. Usage CCF	Sequence Number	12 Months Tot. Usage CCF	Sequence Number	12 Months Tot. Usage CCF
100	60	560	29	1190	30	1730	90				
110	52	570	48	1200	44	1740	190				
120	23	580	178	1210	39	1750	41				
130	9	590	2	1220	23	1760	76				
150	49	600	58	1230	44	1770	22				
160	127	800	98	1240	130	1780	266				
170	106	810	115	1250	91	1790	47				
180	113	820	262	1260	67	1800	63				
190	36	830	196	1270	53	1810	96				
200	60	840	103	1280	106	1820	75				
210	119	850	142	1290	28	1830	102				
220	29	860	304	1400	113	1840	75				
230	3	870	116	1410	26	1850	133				
240	3	880	242	1420	59	1860	68				
250	121	890	211	1430	82	1870	22				
260	63	900	143	1440	61	1880	106				
270	35	910	182	1450	69	1890	58				
280	31	920	56	1460	103	1900	69				
290	67	930	135	1470	56	1910	95				
400	160	940	248	1480	90	1920	21				
410	94	950	227	1490	85	1930	30				
420	97	960	214	1500	60	1940	58				
430	30	970	123	1510	71	1950	14				
440	41	980	125	1520	60	1960	128				
450	159	990	218	1530	94	1970	79				
470	70	1100	17	1540	112	1980	137				
480	18	1110	236	1550	53	1990	12				
490	23	1120	53	1560	44	2000	28				
500	86	1130	82	1570	114	2010	23				
510	23	1140	98	1580	92	2020	25				
520	42	1150	30	1590	74	2030	25				
530	32	1160	53	1700	134	2040	31				
540	31	1170	50	1710	67	2050	26				
550	19	1180	35	1720	121	2060	22				
Sub. Total	2031	Sub. Total	4429	Sub. Total	2495	Sub. Total	2353				

RESIDENTIAL USER CLASS - MAX DAY DEMAND			
SCHEDULE 6			
Sequence Number	12 Months Tot. Usage CCF	Sequence Number	12 Months Tot. Usage CCF
2070	31	2410	50
2080	20	2420	25
2090	23	2430	24
2100	26	2440	63
2110	95	2450	26
2120	43	2460	55
2130	48	2470	76
2140	153	2480	71
2150	67	2490	23
2160	32	2500	102
2170	34	2510	147
2180	37	2520	90
2190	282	2530	88
2200	52	2540	84
2210	182	2700	16
2220	51	2710	48
2230	130	2720	88
2240	79	2730	98
2250	46	2740	77
2260	34	2750	51
2270	80	2760	83
2280	124	2770	68
2290	131	2780	57
2300	28	2790	30
2310	25	2800	92
2320	34	2810	62
2330	71	2820	75
2340	50	2830	113
2350	160	2840	20
2360	173	2850	61
2370	109	2860	11
2380	60	2870	68
2390	27	2880	38
2400	47	2890	63
Sub. Total	2584	Sub. Total	2143
		CCF Grand Total, 204 Custs. ■	16,035

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12/28/99

RESIDENTIAL USER CLASS - MAX DAY DEMAND												Page 9 / 9	
SCHEDULE 6												12/14/99	
JUNE				JULY				AUGUST				SEPT.	
Seq. Num.	12 Mo. Total Usage, CCF		Seq. Num.	12 Mo. Total Usage, CCF		Seq. Num.	12 Mo. Total Usage, CCF		Seq. Num.	12 Mo. Total Usage, CCF			
2390	27		1270	53		2010	23						
2400	47												
2410	50												
2420	25		1190	30									
2430	24		1270	53									
2440	63			83									
2450	26												
2460	55		1190	30									
2470	76												
2480	71												
2490	23		2770	68									
2500	102												
2510	147												
2520	90												
2530	88												
2540	84												
Total	998												
1740	190												

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 34 of 312

Witness: Paul Herbert

34. RE: Testimony of Paul Herbert, p. 9, lines 20-21. Did the witness perform any analysis to evaluate the “value of service”? If so, please provide copies of each such analysis. If not, please explain why not.

Response:

The witness prepared a cost of service analysis. Value of service was considered in the proposed rate design.

For electronic version, refer to KAW_R_AGDR1#34_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 35 of 312

Witness: Paul Herbert

35. RE: Testimony of Paul Herbert, p. 9, line 25, through p. 10, line 7.
- (a) Please identify the person or persons in “management” who provided the witness with the rate design guidelines.
 - (b) Please provide all correspondence between the witness (including notes of conversations) and the person or persons identified in response to (a).
 - (c) Did the instruction to the witness to “consolidate all rate divisions into the Central Division rate structure” indicate that such consolidation should occur immediately, or was the witness permitted to evaluate such consolidation over a longer period of time? If the latter, please provide all analyses performed by the witness that evaluated consolidation over a longer period of time.
 - (d) How did the witness evaluate and/or define whether a rate change would result in “excessive increases to any one class”?

Response:

Rate design guidelines were provided by Mike Miller. The guidelines were provided verbally so no written correspondence exists. The guideline to consolidate all rate zones was to propose such consolidation in this rate case. The witness determined that the rate changes would not result in excessive increases by reviewing comparative bill analysis.

For electronic version, refer to KAW_R_AGDR1#35_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 36 of 312

Witness: Paul Herbert

36. RE: Testimony of Paul Herbert, p. 10, lines 18-19. The witness states that “the unrecovered cost of public fire service is included as a customer cost.” Concerning this:
- (a) Please explain what the witness means by this statement and why such costs do not appear on Schedule H of Exhibit 36.
 - (b) Why are there unrecovered costs of public fire service when one of his rate design instructions was to “increase private and public fire service classes as indicated by the cost of service” (p. 10, lines 4-5)?

Response:

Schedule H inadvertently omitted the unrecovered portion of public fire service or approximately \$92,146 (\$2,582,548 cost of services less \$2,490,402 of revenue.) Including this amount in the calculation of the 5/8-inch service charge would increase the charge by approximately six cents per month.

The guideline to increase private and public fire service to the indicated cost of service was limited by the fourth guideline which considered avoiding “excessive increases to any one class”.

For electronic version, refer to KAW_R_AGDR1#36_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 37 of 312

Witness: Paul Herbert

37. RE: Testimony of Paul Herbert, p. 10, lines 4-5, and Exhibit 36, Schedule A. According to Schedule A, KAWC is not proposing to increase Private Fire Service and Public Fire Service rates to recover the full cost of serving those classes. Please explain why this is the case and reconcile this proposal with the statement in Mr. Herbert's testimony that rates for these classes should "increase ... as indicated by the cost of service."

Response:

See response to Question No. 36.

For electronic version, refer to KAW_R_AGDR1#37_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 38 of 312

Witness: Paul Herbert

38. RE: Exhibit 36, Schedules D and E. Why did Mr. Herbert allocate Laboratory Equipment (account 395) using Allocation Factor 2, but Outside Services related to Water Quality (account 923) using Allocation Factor 1?

Response:

Laboratory Equipment must have the capacity to provide water tests to meet peak day demands. (Factor 2) Water Quality services should be allocated proportionately to the total water produced. (Factor 1)

For electronic version, refer to KAW_R_AGDR1#38_061807.pdf

**KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION**

Item 39 of 312

Witness: Michael A. Miller

39. RE: Exhibit 36, Schedule D (p. 25 of 45), Exhibit 37M (p. 21 of 91), Testimony of Michael Miller, p. 42, lines 13-20, and Exhibit MAM-9. It appears that "Customer Related" other revenues on Exhibit 36 are comprised of NSF Checks, Reconnection Fee, and Activation Fee (shown on Exhibit 37M). Concerning this:
- (a) Please verify that this is correct.
 - (b) Please reconcile the difference between the amount shown on Exhibit 37M and the amount shown in Mr. Miller's testimony and Exhibit 36.
 - (c) Does KAWC have the ability to determine the amount of these fees collected from each customer class? If so, please provide the information. If not, please explain why not and describe the process that would be necessary to develop the information.
 - (d) Please provide all workpapers and/or source documents used to prepare Exhibit MAM-9.

Response:

- (a) Yes
- (b) See attached schedule. Exhibit 36 includes NSF checks which were not addressed in Mr. Miller's testimony. The activation fees for Tri Village were picked up as reconnection fees on the total company Exhibit 37M.
- (c) KAWC has the ability to determine the amount billed for these fees but not collected. Once collected, these fees are commingled with charges of the same utility type and the fee charge can no longer be identified on the billing system. Any unpaid balance on the accounts for these utility types would require a manual review of charges and payment application to identify what charges constitute the unpaid balance. See the attached schedule which details the billed amounts for these miscellaneous fees for the six months actual August 2006 through January 2007 in our base period.
- (d) See attached workpapers.

For electronic version, refer to KAW_R_AGDR1#39_061807.pdf

Kentucky American Water
Reconnection/Activation fees
AG DR 1 Item 39(b)

		<u>Tri Village</u>	<u>Total</u>
Exhibit 37:			
Activation Fees	241,540	(8,088)	233,452
Reconnection Fees	723,422	8,088	731,510
Mr. Miller's Testimony:			
Activation Fees	731,510		731,510
Reconnection Fees	233,454		233,454
Exhibit 36:			
Activation Fees	731,510		731,510
Reconnection Fees	233,452		233,452
NSF checks	<u>21,588</u>		<u>21,588</u>
Total customer related	986,550		986,550

Tri Village activation fees were misapplied as reconnection fees on the total company Schedule M
The titles on Central Division's Exhibit 37M Schedule M 3-C, page 2 of 2 for activation and
reconnection fees are labeled backwards

2006 Kentucky American Service Order Counts (Closed orders only)
Sorted by District, Order Type, Closed or Cancelled Indicator

District	Description	Completed Year	Order Type	Order Description	Completed/Cancelled=C	Order Count	Advantex Order	Description	Order worked by FSR - verified with supervisor	# orders worked by FSRs	Difference	For call total purposes - multiplier for multiple call orders	Adjusted total
1210	Lexington	2006	BDIAL	Bad Dial, local ops only	Y	97	Y	Local Operations determines that meter has bad dial. issued by Billing to check meter readings (high, low, zero usage, etc.)	100%	97		1	97
1210	Lexington	2006	BILRD	Read (Billing)	Y	4,592	Y	issued when a curb box needs to be located.	100%	4,592		1	4,592
1210	Lexington	2006	CBLOX	Curb Box Locate	Y	30	N	Final bill an account after the account has been shut off for non-pay.	0%		30	1	
1210	Lexington	2006	CFBNP	F/Bill Acct For Non-Pay (Coll)	Y	2,807	Y	issued when a customer requests company investigate a non-emergency meter problem and is willing to wait for appointment. Examples include: meter and/or couplings dripping, not causing damage. Noise coming from meter. Meter appears to be damaged or frozen meter, non-emergency.	100%	2,807		1	2,807
1210	Lexington	2006	CKMTR	Check Meter Non-Emergency	Y	803	Y	Used when a building is being demolished and the account is currently active.	100%	803		2	1,606
1210	Lexington	2006	DEMOA	Demolition Active Account	Y	2	Y	Used when a building is being demolished and the account is closed.	100%	2		1	2
1210	Lexington	2006	DEMOC	Demolition Closed Account	Y	1	Y	Distribution inspections that involve water mains, services, main valves, or storage tanks.	100%	1		1	1
1210	Lexington	2006	DIST	Inspect Main/Tank - Local Ops	Y	6,690	N	Time critical orders that need to be worked immediately (leaks, liability, etc.).	5%	335	6,355	2	670
1210	Lexington	2006	EMERG	Emergency (No Wfr, Leak, etc.)	Y	2,722	Y	Generated by Billing to get an actual read and stop estimated readings.	100%	2,722		2	5,444
1210	Lexington	2006	EST	Read - Consec Est/Remote Rds	Y	1,665	Y	Auto-generated order that is issued on a premise with an active account. Will force off the current active account when the new account becomes active.	100%	1,665		1	1,665
1210	Lexington	2006	FORCE	Force Off	Y	13,180	N	Customer requests service be discontinued, meter removed and final bill issued.	0%		13,180	1	
1210	Lexington	2006	FRRAV	Final Read and Remove Meter	Y	73	Y	Disputed high bill situation. Customer requests in-home inspection. Non-emergency meter leak.	100%	73		1	73
1210	Lexington	2006	HILOW	ReRead and/or Inspect for Leak	Y	2,932	Y	This order is normally generated from the billing edits when a closed account shows the usage on the meter. Issued when additional work is required by the operations area. Non-Emergency leaking curb box.	100%	2,932		2	5,864
1210	Lexington	2006	IACWC	Inactive With Consumption	Y	2,107	Y	Generated by the field to change meters as they meet state criteria for years of service or consumption.	0%	2,107		1	2,107
1210	Lexington	2006	LCBOX	DIST Locate/Repair Curb Box	Y	52	N	Generated by operations only to create a batch of replacement orders. Non-Advantex (Paper Order).	100%		52	1	
1210	Lexington	2006	MCPER	Meter - Periodic Change Out	Y	179	Y	This order is to be used by both the Local Offices, and the CSC. If a customer received a letter to call and schedule a Periodic Meter Change, this order type is to be used. This will allow the offices to distinguish between MCPER (Length of Service) changes. Would like the issuer to include information that the order was issued to verify reading. This would assist with reducing the issuance of HILOW orders. Customer disputes bill and requests that the meter be tested.	100%	179		1	179
1210	Lexington	2006	MCPTE	Mtr Periodic Chg - Contractor	Y	9,753	N	Any reason a meter would be changed other than age or usage on meter (damaged, leaking, etc.). Meter change for sizes 2" and larger.	0%		9,753	1	
1210	Lexington	2006	MCSPT	Mtr Chg Scheduled Periodic Tst	Y	5	N	Restore water service after a customer has been shut off for nonpay - when payment received after 3:00 PM. Shut off water service for non-payment.	0%			5	
1210	Lexington	2006	MREDT	Read MR Edit - Local Ops Only	Y	5,277	Y		100%	5,277		1	5,277
1210	Lexington	2006	MTEST	Meter Test - (Billing Only)	Y	71	Y		100%	71		2	142
1210	Lexington	2006	MTRCH	Meter Change-out	Y	1,599	Y		100%	1,599		1	1,599
1210	Lexington	2006	MTRXL	Large Meter Change Out 2" & UP	Y	1	Y		0%			1	
1210	Lexington	2006	NDNIP	Next Day Non-Pay Turn-On	Y	671	Y		100%	671		2	1,342
1210	Lexington	2006	NPOFF	Shut Off For NonPay	Y	13,021	Y		100%	13,021		1	13,021

2006 Kentucky American Service Order Counts (Closed orders only)
Sorted by District, Order Type, Closed or Cancelled Indicator

District	Description	Completed Year	Order Type	Order Description	Completed=Y Cancelled=C	Order Count	Advantex Order	Description	Order worked by FSR - verified with supervisor	# orders worked by FSRs	Difference	For call total purposes - multiplier for multiple call orders	Adjusted total
1210	Lexington	2006	NPOFS	Shut Off For Non-Pay Sewer	Y	119	Y	Shut off water service for non-payment of the sewer service.	100%	119		1	119
1210	Lexington	2006	NSI	New Service Inquiry	Y	95	N	New service request or inquiry for a new premise. Customer requests service be discontinued (closed) and a final bill issued when moving out of property. Current account is final billed on the effective date of the bankruptcy. Normally followed by an ON with a new account on the same day. Collections only.	0%		95		
1210	Lexington	2006	OFF	Final Read - Close Account	Y	11,259	Y	Customer requests shut off of sprinkler service. New customer calls to have water turned on at an existing premise.	100%	11,259			11,259
1210	Lexington	2006	OFFBK	Turn Off for Bankruptcy	Y	2	N	Some states bill flat rate fire service in "advance" (billed before service is delivered).	0%				
1210	Lexington	2006	OFFSN	Turn Off Seasonal	Y	245	Y	Water is on at premise. Start read is obtained from previous account's Off order.	100%	245			245
1210	Lexington	2006	ON	Turn On Water	Y	26,113	Y	Restore water service after a customer has been shut off for non-pay.	100%	26,113			26,113
1210	Lexington	2006	ONAFS	Turn On Advance Fire Service	Y	117	N	Restore water service after a customer has been shut off for non-pay.	0%		117		
1210	Lexington	2006	ONCL	Water On - Close Order Only	Y	1,409	N	Restore water service after a customer has been shut off for non-pay.	0%		1,409		
1210	Lexington	2006	ONNP	Turn On After Non-Pay Shut Off	Y	8,841	Y	Restore water service after a customer has been shut off for non-pay.	100%	8,841		2	17,682
1210	Lexington	2006	ONNPS	Turn On After Non-Pay Sewer	Y	94	Y	Restore water service after a customer has been shut off for non-pay.	100%	94		2	188
1210	Lexington	2006	ONSET	Set Meter/Turn On & Read	Y	190	Y	Start new service at a premise where there is not currently a meter.	100%	190			190
1210	Lexington	2006	ONSN	Turn On Seasonal	Y	191	Y	Turn on seasonal sprinkler account.	100%	191			191
1210	Lexington	2006	OPER	Operations - Local Ops Only	Y	538	Y	This order is used for system generated meter reading code.	100%	538			538
1210	Lexington	2006	OPZCR	2 man crew/local ops only	Y	3	Y	2 man crew for service work on meters 2" & up - Local Operations only.	0%			3	
1210	Lexington	2006	POST	Post Property for Nonpay	Y	57	Y	Service person leaves a door hanger to notify customer of potential disconnection for non-payment.	100%	57			57
1210	Lexington	2006	REM	Repair/Install Reading Device	Y	40	Y	Repair or install remote and/or Verify outside reading device is accurate with inside meter reading.	0%		40		
1210	Lexington	2006	REMOV	Remove Meter ONLY	Y	376	Y	Account is closed and meter needs to be removed.	100%	376			376
1210	Lexington	2006	RPOFF	Turn Off for Customer Repairs	Y	151	Y	Temporary shut off of water service at the curb for customer repairs.	100%	151		2	302
1210	Lexington	2006	RPON	Turn On & Restore WTR - Not NP	Y	757	Y	Turn on service after customer has made repairs.	100%	757		2	1,514
1210	Lexington	2006	RSFLW SEWER	Regionl Supprt Flwap-Local Ops Sewer Emergency	Y	208	Y	This order type is to be used only by the Local Operations Regional Support/Back Office Group. The RSS will issue this order when more information is needed as a result of a service order that has received and error. FSR has checked the Additional Work Required, Office Review, or Meter Update flags.	100%	208			208
1210	Lexington	2006	SVCON	Service Only Connect	Y	6	N	Inspect Sewer Clean Out/Backup.	0%			6	
1210	Lexington	2006	TAPNM	Tap - Without Meter	Y	1	N	Start billing additional services to an account (sewer, trash, etc...). Normally used by billing or back office. Tap main but do not set meter. Meter is usually set at a later time with an ONSET order when the premise is ready for service.	0%				
1210	Lexington	2006	TAPSM	Tap-Set Meter	Y	2,701	N	Tap main and set meter. Used to activate service & start billing when service order closes.	50%	1,351	1,350		1,351
1210	Lexington	2006	WTRQ	Wtr Quality Complaint/Frick Up	Y	321	N	Complaints regarding water quality that require emergency field investigation. Auto generated based upon WQ path.	100%	321		2	642
1210	Lexington	2006	ZERO	3 Consecutive Mths of 0 Usage	Y	3,962	Y	Investigation of any account that has 3 consecutive bills with zero consumption.	100%	3,962			3,962
						126,128				93,127	32,401		111,428

Kentucky American Water
2006 Customers By District, By Class, By Month

Month	Residential	Commercial	Industrial	GFA	DVU	Private Fee	Public Fee	Misc	Total
Dec-05	99,401	8,227	21	479	10	1,622	30	1	103,750
Lemmon	1,976	42		5					2,024
Tri Vase	293								283
Eik Lake									
Owenton									
Total	101,670	8,269	21	484	10	1,622	36	1	112,113
January	99,465	8,221	21	479	10	1,626	36	1	109,862
Lemmon	2,009	29		5					2,043
Tri Vase	290								290
Eik Lake									
Owenton									
Total	101,797	8,259	21	484	10	1,626	36	1	112,225
February	99,524	8,269	21	479	10	1,625	36	1	109,904
Lemmon	1,976	29		5					2,004
Tri Vase	299								299
Eik Lake									
Owenton									
Total	102,817	8,345	25	484	10	1,625	36	1	113,343
March	99,012	8,210	21	479	10	1,627	36	1	110,195
Lemmon	2,067	30		5					2,097
Tri Vase	289								289
Eik Lake									
Owenton									
Total	103,095	8,348	25	484	10	1,627	36	1	113,988
April	99,535	8,227	21	479	10	1,645	36	1	110,254
Lemmon	2,012	31		5					2,049
Tri Vase	293								293
Eik Lake									
Owenton									
Total	103,130	8,357	23	484	10	1,645	36	1	113,669
May	100,114	8,273	21	480	10	1,650	36	1	110,584
Lemmon	2,016	31		5					2,055
Tri Vase	299								299
Eik Lake									
Owenton									
Total	103,421	8,412	25	485	10	1,650	36	1	114,040
June	100,227	8,310	21	480	10	1,660	36	1	110,750
Lemmon	2,022	31		5					2,069
Tri Vase	295								295
Eik Lake									
Owenton									
Total	103,570	8,454	21	485	10	1,660	36	1	114,227
July	100,450	8,349	21	479	10	1,669	36	1	111,014
Lemmon	2,059	31		5					2,093
Tri Vase	305								309
Eik Lake									
Owenton									
Total	103,784	8,487	23	484	10	1,669	36	1	114,384
August	100,026	8,397	21	478	10	1,669	36	1	111,207
Lemmon	2,071	31		5					2,105
Tri Vase	311								312
Eik Lake									
Owenton									
Total	103,996	8,594	21	483	10	1,669	36	1	114,720
September	101,060	8,404	21	483	11	1,673	37	1	111,710
Lemmon	1,920	31		5					1,957
Tri Vase	312								313
Eik Lake									
Owenton									
Total	104,305	8,542	21	485	11	1,673	37	1	115,075
October	101,363	8,428	21	492	11	1,679	37	1	112,021
Lemmon	2,091	31		5					2,128
Tri Vase	311								312
Eik Lake									
Owenton									
Total	104,742	8,566	21	487	11	1,679	37	1	115,546
November	101,402	8,411	21	482	11	1,677	37	1	112,041
Lemmon	306	31		5					337
Tri Vase	976								976
Eik Lake									
Owenton									
Total	104,919	8,551	21	487	11	1,677	37	1	115,395
December	101,402	8,418	21	481	11	1,693	37	1	112,063
Lemmon	2,092	31		5					2,128
Tri Vase	298								298
Eik Lake									
Owenton									
Total	104,760	8,560	21	488	11	1,693	37	1	115,568
13-month average									
Lemmon	114,161	8,484	21	488	11	1,693	37	1	114,161
Tri Vase	297								297
Eik Lake									
Owenton									
Total	114,458	8,484	21	488	11	1,693	37	1	114,458
13-month average									
Lemmon	109,111	8,484	21	488	11	1,693	37	1	109,111
Tri Vase	297								297
Eik Lake									
Owenton									
Total	109,408	8,484	21	488	11	1,693	37	1	109,408

13-month average total
13-month average Tri Vase
13-month average Eik Lake
13-month average Owenton
Central Division average

Lexington														
Number of Customers	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08
Residential	103,904	103,954	103,988	104,104	104,486	104,588	104,844	105,125	105,373	105,602	105,828	106,041	106,173	106,223
Commercial	8,581	8,583	8,584	8,586	8,589	8,632	8,687	8,706	8,726	8,740	8,749	8,758	8,762	8,764
Industrial	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Municipal	479	479	479	479	479	479	479	479	479	479	479	479	479	479
Sale for Resale	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Total Fire Service	2,020	2,031	2,034	2,039	2,043	2,047	2,051	2,055	2,059	2,063	2,067	2,071	2,075	2,080
Flat Rate														
Miscellaneous														
Total No. of Customers	115,015	115,078	115,116	115,239	115,628	115,777	116,092	116,396	116,668	116,915	117,154	117,380	117,520	117,577

116,152

Tri-Village														
Number of Customers	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08
Residential	2,069	2,079	2,089	2,099	2,109	2,119	2,129	2,139	2,149	2,159	2,169	2,179	2,189	2,199
Commercial	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Industrial														
Municipal	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Sale for Resale														
Private Fire														
Public Fire														
Flat Rate														
Miscellaneous														
Total No. of Customers	2,104	2,114	2,124	2,134	2,144	2,154	2,164	2,174	2,184	2,194	2,204	2,214	2,224	2,234

2,164

Elk Lake														
Number of Customers	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08
Residential	300	300	300	300	300	300	300	300	300	300	300	300	300	300
Commercial														
Industrial														
Municipal														
Sale for Resale														
Private Fire														
Public Fire														
Flat Rate														
Miscellaneous														
Total No. of Customers	300	300	300	300	300	300	300	300	300	300	300	300	300	300

300

Owenton City														
Number of Customers	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08
Residential	511	511	511	511	511	511	511	511	511	511	511	511	511	511
Commercial	87	87	87	87	87	87	87	87	87	87	87	87	87	87
Industrial														
Municipal														
Sale for Resale														
Private Fire														
Public Fire														
Flat Rate														
Miscellaneous														
Total No. of Customers	598	598	598	598	598	598	598	598	598	598	598	598	598	598

598

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Witness: Paul Herbert

40. RE: Exhibit 36, Schedule E. Please provide the workpapers supporting the calculation of the horsepower of pumps associated with each category. If the workpaper consists of an electronic spreadsheet, please provide the original electronic file with all links and formulas intact, including copies of all linked files necessary to the proper functioning of the file.

Response:

The workpapers in support of the calculation of the horsepower of pumping equipment is provided in the attached Excel File.

For electronic version, refer to KAW_R_AGDR1#40_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY

DEVELOPMENT OF PUMP STATION EQUIPMENT TOTAL HORSEPOWER BY DESIGNATION

<u>Pump Station Name</u>	<u>Type of Pump</u>	<u>Horsepower</u>	<u>Designation</u>
<u>Kentucky River Station</u>			
Kentucky River Intake			
Pump No. 1	Intake - Low Service	1,250	Maximum Day
Pump No. 2	Intake - Low Service	1,250	Maximum Day
Pump No. 3	Intake - Low Service	1,250	Maximum Day
Pump No. 4	Intake - Low Service	1,250	Maximum Day
Pump No. 5	Intake - Low Service	1,250	Maximum Day
Pump No. 6	Intake - Low Service	1,250	Maximum Day
Raw Water Transfer Station			
Pump No. 8	Raw Water Transfer Sta	900	Maximum Day
Pump No. 9	Raw Water Transfer Sta	900	Maximum Day
Chemical Rapid Mix Basir	High Energy Mix Tank	50	Maximum Day
Chemical Rapid Mix Basir	Low Energy Mix Tank	15	Maximum Day
Filters		25	Maximum Day
Clearwell Transfer Pump		40	Maximum Day
<u>Richmond Road Station</u>			
Jacobson Reservoir - Intake			
L.S. Pump Unit No. 1	Low Service	100	Maximum Day
L.S. Pump Unit No. 2	Low Service	100	Maximum Day
L.S. Pump Unit No. 3	Low Service	400	Maximum Day
Lake Ellerslie Reservoir - Intake			
L.S. Pump Unit No. 5	Low Service	60	Maximum Day
L.S. Pump Unit No. 4	Low Service	40	Maximum Day
Total Maximum Day		10,130	
<u>Kentucky River Station</u>			
High Service Pumps			
H.S. Pump No. 10	High Service	700	Maximum Day and Fire
H.S. Pump No. 11	High Service	700	Maximum Day and Fire
H.S. Pump No. 12	High Service	700	Maximum Day and Fire
H.S. Pump No. 13	High Service	800	Maximum Day and Fire
H.S. Pump No. 14	High Service	400	Maximum Day and Fire
H.S. Pump No. 15	High Service	900	Maximum Day and Fire
Standby Equipment			
Standby Pump No. 15	High Service	765	Maximum Day and Fire
High Service Pumps			
H.S. Pump No. 8,	High Service	200	Maximum Day and Fire
H.S. Pump No. 7,	High Service	500	Maximum Day and Fire
H.S. Pump No. 6,	High Service	250	Maximum Day and Fire

KENTUCKY-AMERICAN WATER COMPANY

DEVELOPMENT OF PUMP STATION EQUIPMENT TOTAL HORSEPOWER BY DESIGNATION

<u>Pump Station Name</u>	<u>Type of Pump</u>	<u>Horsepower</u>	<u>Designation</u>
H. S. with Standby Diesel Equipment			
	H.S. Diesel Driven No High Service with Standt	372	Maximum Day and Fire
	H.S. Diesel Driven No High Service with Standt	220	Maximum Day and Fire
	H.S. Diesel Driven No High Service with Standt	<u>580</u>	Maximum Day and Fire
Total Maximum Day and Fire		7,087	
Parkers Mill Booster Station Pl	Booster	200	Maximum Hour
Cox St. Elevated Booster Stat	Booster	40	Maximum Hour
Cox Street Ground Booster Sta	Booster	100	Maximum Hour
Mercer Booster Station Pump I	Booster	75	Maximum Hour
Leestown Booster Station Pum	Booster	20	Maximum Hour
Leestown Booster Station Pum	Booster	20	Maximum Hour
York Booster Station Pump No	Booster	100	Maximum Hour
Hume Booster Station Pump N	Booster	150	Maximum Hour
Hume Booster Station Pump N	Booster	300	Maximum Hour
Mount Horeb Booster Station F	Booster	25	Maximum Hour
Mount Horeb Booster Station F	Booster	25	Maximum Hour
Newtown Booster Station Pumj	Booster	15	Maximum Hour
Newtown Booster Station Pumj	Booster	50	Maximum Hour
Newtown Booster Station Pumj	Booster	50	Maximum Hour
Hall Booster Station Pump No.	Booster	3	Maximum Hour
Hall Booster Station Pump No.	Booster	3	Maximum Hour
Delaplain Booster Station Pum	Booster	40	Maximum Hour
Clays Mill Booster Station Pum	Booster	500	Maximum Hour
Clays Mill Booster Station Pum	Booster	500	Maximum Hour
US 60 Booster Station Pump N	Booster	10	Maximum Hour
US 60 Booster Station Pump N	Booster	10	Maximum Hour
Briar Hill Booster Station Pump	Booster	125	Maximum Hour
Briar Hill Booster Station Pump	Booster	<u>125</u>	Maximum Hour
Total Maximum Hour		2,486	
Total Horsepower		19,703	

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Witness: Paul Herbert

41. RE: Exhibit 36, Schedule E. Please explain why Allocation Factor 15 is used to allocate each of the following rate base elements:
- (a) Construction Work in Progress
 - (b) Working Capital Allowance
 - (c) Other Working Capital Allowance

Response:

- (a) Construction Work in Progress was allocated using the wrong factor. The correct factor is Factor 17, Plant in Service.
- (b) Cash Working Capital is the cash required on hand to pay operating expenses in advance of receiving payment for service. Therefore, using the Administrative and General Expense allocation factor (Factor 15) is appropriate.
- (c) Other Working Capital is for materials and supplies. Factor 15 is also appropriate because materials and supplies inventory is charged to the various expense accounts when such items are used.

For electronic version, refer to KAW_R_AGDR1#41_061807.pdf

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Witness: Paul Herbert

42. RE: Exhibit 36, Schedule E. Please describe in detail the difference between “Working Capital Allowance” and “Other Working Capital Allowance.”

Response:

See response to PSCDR1 Question 41.

For electronic version, refer to KAW_R_AGDR1#42_061807.pdf

**KENTUCKY-AMERICAN WATER COMPANY
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Witness: Michael A. Miller

43. RE: Exhibit 37M, Schedule M-3.1C (pp. 12-19). The calculations of Current Annualized Total Revenue on the schedule appear to be incorrect. For example, for the first entry on the schedule (Residential 5/8-inch) customer charge revenue is shown as \$10,407,768, but multiplying the Most Current Rate of \$7.95 by the number of Customer Bills (1,250,293) yields revenue of \$ 9,939,829. Concerning this:
- (a) Please provide a corrected version of this Schedule (including the spreadsheet file requested above), as well as any other schedules that are affected by the correction.
 - (b) Please verify that the other schedules in Exhibit 37M are accurate and, if not, please provide corrected versions of them (including the spreadsheet file requested above).
 - (c) If KAWC believes the schedule is correct, please explain how Current Annual Total Revenue is calculated.

Response:

- (a) The total bill count and the revenue amount is correct on this schedule. The “most current rate” column that is shown on the Total Company Schedule M is Central Division. Each district has a different rate and Owenton has rate blocks which would make this schedule confusing to list each residential line separately. The individual district Schedule M3.1C shows the calculations by district. Refer to the district schedule M3.1C for the “most current rate” by district.
- (b) See response to a.
- (c) See response to a.

For electronic version, refer to KAW_R_AGDR1#43_061807.pdf

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Item 44 of 312

Witness: Michael A. Miller/Sheila Miller

44. Please provide all formal and informal responses to data requests of all other parties to this proceeding.

Response:

All parties are provided formal responses to data requests.

For electronic version, refer to KAW_R_AGDR1#44_061807.pdf

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Item 45 of 312

Witness: Michael A. Miller/Sheila Miller

45. The schedules and workpapers filed as Exhibit No. 37 and the workpapers provided in response to Staff DR 1-1 are not readable due to the extremely small type size. Please provide readable copies of these documents.

Response:

The Company has reviewed the documents and they appear legible. The AG and KAWC have discussed the issue and reached an agreement.

For electronic version, refer to KAW_R_AGDR1#45_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 46 of 312

Witness: Sheila Miller

46. Please provide in Microsoft Excel or Excel compatible format, copies of all schedules and workpapers created in the process of filing the current rate increase request. This specifically includes all accounting schedules and related workpapers filed as Exhibit No. 37 and the workpapers provided in response to Staff DR 1-1. Please provide files with all formulae intact, and provide any linked files. Please provide all schedules as amended to include net negative salvage in accumulated depreciation as discussed in the Company's response to Staff DR 1-5.

Response:

All electronic documents, including schedules and workpapers related to Exhibit 37 are included with this filing. Please see the electronic versions KAW_R_AGDR1#46_(file name)_061807.xls.

For electronic version of this document, refer to KAW_R_AGDR1#46_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 47 of 312

Witness: Michael Miller

47. Re. Company response to Staff DR 1-5. Please list any exhibits and schedules that are amended to reflect the inclusion of net negative salvage in accumulated depreciation (a ratebase reduction). For forecasting purposes, indicated whether Mr. Spano's cost of removal proposals were used to estimate these amounts, and how they were used.

Response:

The Company has not filed the revised schedules as indicated in the response to KAW_R_PSCDR1#5_052107.pdf as of the date of this response. The Company will be providing the revised filing documents within one week of the date of this data response. Exhibit 37, Schedule B will encompass the change to rate base to reflect the correction to accumulated depreciation related to net negative salvage. The net negative salvage reclassification of \$8,672,194 was the balance at January 2007, the end of the actual numbers for the base period. The depreciation expense added to accumulated depreciation for the forecasted period of February 2007 to November 2007 reflected the full depreciation expense (including the net negative salvage portion) at the present depreciation rates. From December 2007 to November 2008 (the forecasted test-year) the Company used the full depreciation rates (including the net negative salvage included in Mr. Spanos' recommended depreciation rates) as requested in the depreciation study filed in this case.

For electronic version of this document, refer to KAW_R_AGDR1#47_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 48 of 312

Witness: Patrick Baryenbruch

48. Re. Baryenbruch Direct Testimony. Please provide all workpapers and analyses supporting Exhibit PLB-1.

Response:

Please refer to the attachments included with data request PSCDR 2 question 21.

For electronic version, refer to KAW_R_AGDR1#48_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 49 of 312

Witness: Linda C. Bridwell

49. Re. Bridwell Direct Testimony, p. 21. Please provide all workpapers supporting the calculation of the proposed tap fees.

Response:

Please refer to workpaper 9-1 filed in response to Item 1a of the Commission's first interrogatories filed May 21, 2007.

For electronic version, refer to KAW_R_AGDR1#49_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 50 of 312

Witness: Linda C. Bridwell

50. Re. Bridwell Direct Testimony, p. 22. Ms. Bridwell states, "KAW now exclusively installs AMR, and has included the full cost of an AMR meter in the tap fee.
- a. How are these meters handled for ratebase purposes? In other words, are they included in ratebase?
 - b. Please provide the number of meters paid for in tap fees, as well as the total dollar amount collected.
 - c. By the term "full cost," does Ms. Bridwell mean the actual meter cost, or the meter cost plus an estimate for net salvage?
 - d. Provide the amounts included in tap fees for each type of meter. In other words, the "full cost" for each meter.

Response:

- a. The purchase of all meters is included in rate base through a capital asset account. Rate base is reduced by the contribution amount of tap fees.

b.

	# OF TAP FEES	TOTAL COLLECTED
2004	2,760	\$1,400,605
2005	3,084	\$1,878,844
2006	2,508	\$1,631,525
2007 (YTD)	211	\$130,225

- c. Full cost means the installed cost of the meter and MIU device.
- d. Please refer to WP 9-1 filed in response to Item 1a of the Commission's First Set of Interrogatories filed May 21, 2007.

For electronic version, refer to KAW_R_AGDR1#50_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 51 of 312

Witness: Linda C. Bridwell

51. Re. Bridwell Direct Testimony, pp. 22-23.
- a. Please explain how KAWC tracks revenues and expenses related to the provision of leak detection services for other utilities.
 - b. Are any of these revenues or expenses included in the base or test year periods? If yes, explain where they are located in the filing and the rationale for including them.

Response:

- a. A work order is created in PowerPlant (asset management and accounting software system) with a description of work and to whom the bill will be sent. The work order number is used on time sheets by employees who work on the project. Time sheets are entered biweekly into J. D. Edwards (financial accounting system) and labor is automatically charged to work orders. All time and materials are charged to work orders, including mileage, gas, meals and any overnight stays. These charges are accumulated and the customer is billed.
- b. No.

For electronic version, refer to KAW_R_AGDR1#51_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 52 of 312

Witness: Linda C. Bridwell

52. Re. Bridwell Direct Testimony, p. 23. How has the discovery of the high service meter at the KRS, which was reading incorrectly, been reflected in the filing? For instance, has there been a reduction in unaccounted-for water?

Response:

No. Unaccounted-for-water for the forecasted test-year reflects the target rate that KAW believes it should achieve. The plant meter issue was corrected in the forecasted filing using this method and no adjustment was required.

For electronic version, refer to KAW_R_AGDR1#52_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 53 of 312

Witness: Linda C. Bridwell

53. Re. Bridwell Direct Testimony, p. 28. Please provide all support and workpapers relating to any forecasted increase in fuel and power costs. Include any correspondence and/or other material received from KU relating to these estimates.

Response:

Please refer to the response to Item 13 of the Commission's Second Set of Interrogatories filed June 18, 2007 and workpaper W/P3, pages 45 through 52, filed on May 21, 2007 in response to Item 1a of the Commission's First Set of Interrogatories.

For electronic version, refer to KAW_R_AGDR1#53_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 54 of 312

Witness: Linda C. Bridwell

54. Re. Bridwell Direct Testimony, p. 29. Please provide all support and workpapers related to the forecasted increase in chemical prices. Include any correspondence with suppliers.

Response:

Please refer to the response to Items 17 and 18 of the Commission's Second Set of Interrogatories filed June 18, 2007 and workpapers W/P3, pages 56 through 65, filed in response to Item 1a of the Commission's First Set of Interrogatories filed May 21, 2007.

For electronic version, refer to KAW_R_AGDR1#54_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 55 of 312

Witness: Linda C. Bridwell

55. Re. Bridwell Direct Testimony, p. 30. How are residuals “beneficially used on-site”?

Response:

KAW beneficially reuses solids at each of its existing treatment facilities to develop material and equipment storage areas that are also used for parking and storage/staging during improvements, construction and maintenance at the facilities.

For electronic version, refer to KAW_R_AGDR1#55_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 56 of 312

Witness: Linda C. Bridwell

56. Re. Bridwell Direct Testimony, p. 30. Please provide a copy of “The American Systems Operations Manual.”

Response:

The manual is proprietary to American Water and will be made available for review upon execution of a confidentiality agreement.

For electronic version, refer to KAW_R_AGDR1#56_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 57 of 312

Witness: Michael Miller

57. Re. M. Miller Direct Testimony. Please provide all workpapers and calculations supporting Exhibits MAM-2, 6, 7, 8 and 9. Provide any calculations in Microsoft Excel or Excel compatible format, with all formulae intact.

Response:

Please see the electronic versions of KAW_R_AGDR1#57_Exhibits (2,6,7,8,9).xls. See the attachment for the workpaper related to Exhibit 2.

For electronic version of this document, refer to KAW_R_AGDR1#57_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
RATE CASE PROGRESS REPORT

RRD - 1
PAGE 1

DATE FILED: APRIL 30, 2007
STATUTORY DATE: DECEMBER 1, 2007
EFFECTIVE DATE: MAY 31, 2007 (If rates not suspended)
FORECASTED TEST PERIOD: NOVEMBER 30, 2008
CASE NO. 2007 - 00143

AVERAGE RESIDENTIAL BILL:
USAGE: GAL 59,580
PRESENT RATES: \$240.24
PROPOSED RATE \$309.96
AUTH RATES:

	<u>PER PREVIOUS CASE ORDER</u>	<u>PROPOSED GENERAL INCREASE</u>		
1. REVENUES AT PRESENT RATES	\$43,118,861	\$50,687,015		
2. AMOUNT OF INCREASE	4,283,302	13,188,906		
3. % INCREASE	9.93%	26.02%		
4a. REVENUE (OPERATING)	47,402,163	63,875,921		
4b. AFUDC	337,570	1,863,142		
4c. TOTAL REVENUES	<u>47,739,733</u>	<u>65,739,063</u>		
5. O & M EXPENSE	20,907,707	27,798,724		
6. DEPRECIATION	7,743,193	8,489,624		
7. GENERAL TAXES	2,699,777	3,649,318		
8. INCOME TAXES	<u>4,196,808</u>	<u>7,521,557</u>		
SUB-TOTAL	<u>35,547,285</u>	<u>47,459,223</u>		
9. UTILITY OPERATING INCOME	<u>12,192,448</u>	<u>18,279,840</u>		
10. INTEREST ON LONG - TERM DEBT	5,218,598	6,960,726		
11. OTHER INTEREST	226,349	423,144		
12. PREFERRED DIVIDENDS	540,722	465,459		
13. OTHER DEDUCTIONS	<u>0</u>	<u>0</u>		
SUB-TOTAL	<u>5,985,669</u>	<u>7,849,329</u>		
14a. INCOME TO COMMON STOCK (FALLOUT)	<u>6,206,779</u>	<u>10,430,511</u>		
14b. CALCULATED INCOME TO COMMON STOCK	<u>\$6,422,389</u>	<u>\$10,430,510</u>		
15. ORIGINAL COST OF RATE BASE	\$156,262,506	\$211,572,212		
16. RATE OF RETURN ON RATE BASE	7.80%	8.64%		
17. RATE BASE AS % OF CAPITALIZATION	97.99%	101.85%		
18. COST OF CAPITAL PER:				
<u>PREVIOUS CASE ORDER</u>	<u>AMOUNT</u>	<u>RATIO</u>	<u>COST RATE</u>	<u>WEIGHTED</u>
a. LONG-TERM DEBT	\$81,944,180	51.388%	6.330%	3.25%
b. SHORT-TERM DEBT	5,894,582	3.697%	2.770%	0.10%
c. PREFERRED STOCK	6,028,514	3.781%	7.720%	0.29%
d. COMMON EQUITY	65,593,875	41.135%	10.000%	4.11%
e. DEFERRED TAXES	0	0.000%	0.000%	0.00%
f. JDITC	0	0.000%	0.000%	0.00%
g. OTHER CAPITAL ELEMENTS	<u>0</u>	<u>0.00%</u>	<u>0.00%</u>	<u>0.00%</u>
TOTALS	<u>\$159,461,151</u>	<u>100.00%</u>		<u>7.75%</u>
19. COST OF CAPITAL PER:				
<u>PROPOSED CASE</u>	<u>AMOUNT</u>	<u>RATIO</u>	<u>COST RATE</u>	<u>WEIGHTED</u>
a. LONG-TERM DEBT	\$103,929,445	50.031%	6.58%	3.29%
b. SHORT-TERM DEBT	8,079,119	3.889%	5.25%	0.20%
c. PREFERRED STOCK	5,975,910	2.877%	7.75%	0.22%
d. COMMON EQUITY	89,745,202	43.203%	11.40%	4.93%
e. DEFERRED TAXES	0	0.00%	0.00%	0.00%
f. JDITC	0	0.00%	0.00%	0.00%
g. OTHER CAPITAL ELEMENTS	<u>0</u>	<u>0.00%</u>	<u>0.00%</u>	<u>0.00%</u>
TOTALS	<u>\$207,729,676</u>	<u>100.00%</u>		<u>8.64%</u>

SIGNATURE/DATE

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 58 of 312

Witness: Michael Miller

58. Re. M. Miller Direct Testimony, Exhibit MAM-7.
- a. Please explain why employee costs for Owenton were added to develop a 2001 base cost.
 - b. Please recalculate the exhibit adding the Owenton costs in 2005.

Response:

- a. The acquisition employees were added into the 2001 Base year at the 2001 average wage and benefit rates per employee because inflating those costs through the analysis period would produce the correct result for the forecasted test-year.
- b. Please see the attached schedule. Placing the Owenton employees in the analysis in 2005 actually increases the net savings from \$365,012 to \$495,318.

For electronic version, refer to KAW_R_AGDR1#58_061807.pdf

Kentucky American Water
Labor & Management Fee Analysis That Demonstrates the Shift From
Fully Loaded Company Labor to Management Fees

Exhibit MAM-7
Page 1 of 2

			(1)	(2)	(3)	(4)		(5)	(6)	(7)	(8)	(9)	(10)
	Labor Cost As Approved In KAWC Case No. 2000-00120 Attrition Yr. 11/30/2001 plus actual 2001 overhead costs & Man. Fees	Add emp. cost for 6 employees from EL, TV	2001 Base Cost	2002 Labor Cost Inflated	2003 Labor Cost Inflated	2004 Labor Cost Inflated	Add emp. cost for 8 employees from Owenton	2005 Labor Cost Inflated	2006 Labor Cost Inflated	2007 Labor Cost Inflated	2008 Labor Cost Inflated	Current Case Attrition Year Request by Company	Net Savings Variance Column 8 to Column 9
				Note 2				Note 3&4					
Labor (Adj. 3.5% Avg. Pay Incr. 02-03 & 4% for 04-08)	6,004,634	250,193	6,254,827	6,514,837	6,742,855	7,012,571	473,103	7,765,176	8,284,074	8,743,248	9,092,978	6,318,580	(2,424,668)
Group Insurance	1,303,786	54,324	1,358,110	1,559,146	1,857,663	2,000,138	134,939	2,215,063	2,206,524	2,057,109	2,150,322	1,887,912	(169,197)
Pensions	356,713	14,863	371,576	451,264	940,976	915,419	61,759	1,013,794	946,558	650,433	585,941	503,733	(146,700)
Payroll Taxes	443,276	18,470	461,746	468,378	504,644	495,797	33,449	549,078	568,161	685,271	712,665	487,916	(197,353)
401(K)	85,232	3,551	88,783	98,733	96,842	92,530	6,243	102,473	114,001	116,069	118,549	98,704	(17,365)
Fully Loaded Labor Cost	8,193,641	341,402	8,535,043	8,993,626	10,046,140	10,423,925	709,493	11,544,132	12,005,316	12,136,062	12,541,926	9,296,847	(2,839,215)
Management Fees (Adjusted for 4.5% inflation)	1,321,183	0	1,321,183	1,380,636	1,442,765	1,507,689	0	1,575,535	1,646,434	1,720,524	1,797,948	4,064,421	2,343,897
Total Labor & Management Fees	9,514,824	341,402	9,856,226	10,374,262	11,488,905	11,931,614	709,493	13,119,667	13,651,750	13,856,586	14,339,874	13,361,268	(495,318)

Footnotes:

Note 1: The calculation of inflation factors used to determining the pro-forma 2008 costs shown in column 8 above are included on page 2 of this Exhibit.

Note 2: Added one meter reader in 2002 to handle increases in customers due to growth

Note 3: Added 4 utility field employees to handle additional hydrant and valve maintenance work related to customer growth and one Administrative employee to handle sewer billing in 2005

Note 4: Added 1 utility person and one Admin to handle additional requirements for cross connections and 1 production tech for additional water treatment processes

Exhibit MAM-7
Page 2 of 2

	2001	2002	2003	2004	2005	2006	Budget 2007	Budget 2008
KAWC Actual Loaded Labor Costs								
AVG. # Employees	145	143.25	129.42	118.58	117.92	124.75	137.00	137.00
Group Insurance	1,303,786	1,468,185	1,580,403	1,559,089	1,608,346	1,644,303	1,653,852	1,728,792
Pensions	356,713	424,938	800,534	713,561	782,335	748,274	554,137	499,193
Payroll Taxes	443,276	441,053	429,325	386,469	379,691	403,803	525,874	546,911
401(K)	85,232	92,973	92,388	72,126	78,071	109,606	94,980	99,928
Fully Loaded Cost	2,103,920	1,893,123	2,380,937	2,272,650	2,390,681	2,392,577	2,207,989	2,227,985
Cost per Employee								
Group Insurance	8,987	10,249	12,211	13,148	13,639	13,181	12,072	12,619
Pensions	2,459	2,966	6,186	6,018	6,634	5,998	4,045	3,644
Payroll Taxes	3,055	3,079	3,317	3,259	3,220	3,237	3,638	3,992
401(K)	587	649	637	608	662	879	693	729
Fully Loaded Cost per employee	14,501	16,294	21,714	22,425	23,494	22,416	19,955	20,255

	% Increase	% Increase	% Increase	% Increase	% Increase	% Increase	% Increase
Group Insurance	1.140	1.191	1.077	1.037	0.968	0.916	1.045
Pensions	1.206	2.085	0.973	1.103	0.904	0.674	0.901
Payroll Taxes	1.005	1.077	0.982	0.988	1.005	1.188	1.040
401(K)	1.105	0.981	0.955	1.088	1.327	0.789	1.052
Fully Loaded Cost per customer	1.124	1.333	1.033	1.048	0.954	0.890	1.015

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 59 of 312

Witness: Michael Miller

59. Re. M. Miller Direct Testimony, p. 4. Please provide a list of the \$96.0 million in capital improvements made since the last case. Also, please provide a list of the items included in the \$55.31 million increase to rate base since the last case. In both cases, show the applicable accounts and amounts.

Response:

Please see the attached documents which include a comparison of the rate base elements of the current filing to those in the Company's previous rate case. The \$96.0 million was the net change in utility plant and CWIP (gross capital investment), and the 55.31 million was the net change in total rate base. Also attached are schedules that detail the capital investment by project for the periods 2006-2007, the period between the forecasted test-years in the current and previous rate cases.

For electronic version, refer to KAW_R_AGDR1#59_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
PROPOSED RATE CASE FILING
DETAIL OF RATE BASE CALCULATION

RRD - 1
PAGE 6

<u>DESCRIPTION</u>	<u>PER PREVIOUS CASE ORDER</u>	<u>PROPOSED FILING</u>
UTILITY PLANT IN SERVICE	\$287,853,455	\$366,185,081
CONSTRUCTION WORK IN PROGRESS	5,529,656	23,186,818
ACCUMULATED DEPRECIATION	(69,156,464)	(85,950,991)
ACCUMULATED AMORTIZATION	(7,674)	(7,674)
OTHER (SPECIFY)	0	0
OTHER (SPECIFY)	0	0
OTHER (SPECIFY)	0	0
OTHER (SPECIFY)	0	0
NET UTILITY PLANT	<u>224,218,973</u>	<u>303,413,234</u>
DEDUCTS:		
CUSTOMER ADVANCES	15,359,373	21,380,918
CONTRIBUTIONS IN AID OF CONSTRUCTION	33,064,060	46,562,799
OTHER (SPECIFY)	0	0
OTHER (SPECIFY)	0	0
OTHER (SPECIFY)	0	0
OTHER (SPECIFY)	0	0
OTHER (SPECIFY)	0	0
TOTAL DEDUCTS	<u>48,423,433</u>	<u>67,943,717</u>
ADDITIONS:		
MATERIALS & SUPPLIES	462,149	523,761
PREPAYMENTS	0	0
CASH WORKING CAPITAL	1,711,459	4,403,000
DEFERRED DEBITS	2,051,828	1,897,923
DEFERRED MAINTENANCE	2,453,717	1,741,451
KRS II COSTS	0	0
KRS RESIDUALS PROJECT COSTS	0	0
BWP PIPELINE RELATED COSTS	0	0
COMMUNITY EDUCATION COSTS	0	0
TOTAL ADDITIONS	<u>6,679,153</u>	<u>8,566,135</u>
OTHER DEDUCTS:		
DEFERRED TAXES	24,626,942	30,854,190
DEFERRED ITC	117,518	94,805
UTILITY PLANT ACQ ADJ	(77,217)	(38,065)
OTHER NET RATE BASE ELEMENTS	1,544,944	1,552,510
OTHER (SPECIFY)	0	0
OTHER (SPECIFY)	0	0
OTHER (SPECIFY)	0	0
OTHER (SPECIFY)	0	0
TOTAL OTHER DEDUCTS	<u>26,212,187</u>	<u>32,463,440</u>
TOTAL RATE BASE	<u><u>\$156,262,506</u></u>	<u><u>\$211,572,212</u></u>

STRATEGIC CAPITAL EXPENDITURE PLAN
PROGRAM

Business Unit Kentucky
#REF! June 5, 2007
Description C 2, RF

Business Unit	Business Unit No.	Project Title	U.S. \$					U.S. \$		13-month average in forecast	Capex since last case
			Dec-05	2006	Total 2007	Period 12 2008	Total 2008	Total CAPEX Dec 05 - Nov 08			
		RECURRING PROJECTS									
Kentucky	80	Developer/Governmental Contributions	1,080,147	6,486,690						7,566,837	
Kentucky	81	Network - Replacement/Renewal	14,795	2,126,151						2,140,946	
Kentucky	82	Network - Extension	11,543	651,509						663,052	
Kentucky	83	Hydrants - Replacements	3,171	176,730						179,901	
Kentucky	84	Hydrants - New	16,006	492,568						508,574	
Kentucky	85	Services - Replacement	251,842	868,071						1,119,913	
Kentucky	86	Services - New	269,855	1,326,578						1,596,443	
Kentucky	87	Meters - Replacement	144,588	1,297,577						1,442,165	
Kentucky	88	Meters - New	227,438	1,551,511						1,778,949	
Kentucky	89	ITS Equipment and Systems	2,012	146,310						148,322	
Kentucky	90	Offices and Operations Centers	37,938	79,428						117,365	
Kentucky	91	Vehicles	45,757	694,765						649,008	
Kentucky	92	Tools and Equipment	133,225	590,832						724,057	
Kentucky	93	Process Plant Facilities and Equipment	213,897	845,297						1,059,194	
Kentucky	94	Treatment Media Replacement								196,118	
Kentucky	95	Tank Rehab/Painting (if capitalized)								9,229	
Kentucky	96	Comprehensive Planning Studies	2,209	7,020						65,926	
Kentucky	97	Projects Funded by Others (Contrib./Adv./Refunds)									
		DV Projects									
Kentucky	A	Mains - New		6,000,000			6,097,176			11,487,458	
Kentucky	B	Mains - Replaced / Restored		750,000			802,225			1,472,034	
Kentucky	C	Mains - Unscheduled		2,880,348			186,394			4,557,893	
Kentucky	D	Mains - Relocated		250,000			22,194			449,743	
Kentucky	E	Hydrants, Valves, and Manholes - New		519,999			64,181			1,037,626	
Kentucky	F	Hydrants, Valves, and Manholes - Replaced		40,000			128,362			48,000	
Kentucky	G	Services and Laterals - New		1,300,964			64,181			2,456,219	
Kentucky	H	Services and Laterals - Replaced		600,000			112,316			1,177,627	
Kentucky	I	Meters - New		1,150,000			112,316			2,160,850	
Kentucky	J	Meters - Replaced		135,000			16,045			160,453	
Kentucky	K	ITS Equipment and Systems		42,000			8,023			114,203	
Kentucky	L	SCADA Equipment and Systems		80,000			16,045			224,407	
Kentucky	M	Security Equipment and Systems		505,868			48,136			939,088	
Kentucky	N	Offices and Operations Centers		155,100			16,045			299,506	
Kentucky	O	Vehicles		757,000			80,226			1,479,034	
Kentucky	P	Tools and Equipment		50,000			8,023			122,203	
Kentucky	Q	Process Plant Facilities and Equipment		16,366,279			1,574,429			50,484,151	
Kentucky	R	Capitalized Tank Rehabilitation / Painting									
Kentucky	S	Engineering Studies									
		Total Recurring Projects	2,352,919	17,603,081			15,724,429			19,886,000	
		Total Acquisitions									
		Total Centrally Sponsored Projects									
		INVESTMENT PROJECTS									
Kentucky	12020301	Owenton Acquisition Water 2006	1,391,167	270,297						394,979	
Kentucky	12020303	Owenton Acquisition Water 2007	54,064	20,805						50,000	
Kentucky	12020504	Owenton County Main Extensions (343)	199,365	-8,513			41,241			783,595	
Kentucky	12320507	New WTP on Pool 3 of KY River	52,957	543,523						1,422,362	
Kentucky	12300403	Source of Supply Development Project (343)		1,676,933			38,273,666			39,583,281	
Kentucky	12020507	Major Highway Relocations (343) 2006	83,211	473,693						887,104	
Kentucky	12020204	Major Highway Relocations - Clays Mill Rd Phase I	212,662	393,052						274,421	
Kentucky	12020402	Major Highway Relocations 2007		11,135						1,528,288	
Kentucky		Major Highway Relocations (343) 2007		7,892						79,378	
Kentucky		Newtown Pike (I64/75 to Ironworks)		939						57,891	
Kentucky		US 29/Georgetown Road		4,094						2,585,462	
Kentucky		Liberty/Todds								692,308	
Kentucky		Major Highway Relocations (343) 2008								615,384	
Kentucky	12020505	Major Highway Relocations (343) 2008								74,615	
Kentucky	12020506	Sludge Trac-Vac System at RRS (332)	180	339,612			30,000			944,181	
Kentucky	12020502	Russell Cave Road Main - RRS (332)	12,041	1,436,593						1,627,727	
Kentucky	12330604	SCADA - Owen County	223,333	799,572						1,042,905	
Kentucky	12020605	Replace Parkers Mill Pump and Diesel		447,524						570,001	
				970,029,347,460						775,000	

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 60 of 312

Witness: Michael Miller

60. Please reconcile the ratebase in this case with the ratebase in the most recent prior case, by element.

Response:

See response to AGDR1#59.

For electronic version, refer to KAW_R_AGDR1#60_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 61 of 312

Witness: Michael Miller

61. Re. M. Miller Direct Testimony, p. 4. Are any costs related to the Divestiture and/or Sarbanes-Oxley Act (SOX) included in the filing as costs allocated to the Company by the Service Company? If so, please list all amounts and provide supporting documents. Also, indicate where in the filing the costs are included

Response:

No.

For electronic version, refer to KAW_R_AGDR1#61_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 62 of 312

Witness: Michael Miller

62. Re. M. Miller Direct Testimony, p. 19. Please provide the “Business Plan” as discussed on this page.

Response:

Please see the response to AGDR1#76.

For electronic version, refer to KAW_R_AGDR1#62_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 63 of 312

Witness: Michael A. Miller

63. Re. M. Miller Direct Testimony, pp. 20-21.
- a. What is the amount of labor and overhead costs related to David Whitehouse and Susan Lancho that was removed from the management fee budget?
 - b. What percentage of the time of these individuals was charged to KAWC for the past three years?
 - c. What is the amount of labor and overhead costs related to these individuals that was added to the Company's payroll and labor expense?
 - d. If there is any difference between the amount in part a and the amount in part b, please explain the difference.

Response:

- a. \$265,726
- b.

	<u>Susan Lancho</u>	<u>David Whitehouse</u>
2004	95%	100%
2005	95%	95%
2006	95%	98%
- c. See response to a. above.
- d. N/A

For electronic version, refer to KAW_R_AGDR1#63_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 64 of 312

Witness:

64. Re. M. Miller Direct Testimony, p. 22.
- a. Please provide all costs and expenses associated with the ORCOM E-CIS software since inception. Include both capital costs associated with this software and as well as any O&M expenses. Include a description of each cost or expense.
 - b. For the costs and expenses shown in part a., please indicate how much of each cost and expense was charged to KAWC.
 - c. Were any prudence reviews conducted prior to purchasing the ORCOM E-CIS software? If yes, please provide those reviews. If not, explain why not.
 - d. Please provide any cost-benefit studies conducted prior to purchasing the ORCOM software.
 - e. Has any other jurisdiction in which American Water operates disallowed a cost allocation for the Customer Call Center and/or the ORCOM software? If yes, please provide the orders relating to that disallowance.

Response:

The Company does not have the information available at this time to respond to this question, but will provide a response as soon as possible.

For electronic version, refer to KAW_R_AGDR1#64_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 65 of 312

Witness: Dr. Edward L. Spitznagel, Jr.

65. Re. Spitznagel Direct Testimony. Please provide all workpapers and calculation underlying his testimony and exhibits. Provide any calculations in Microsoft Excel or Excel compatible format, with all formulae intact.

Response:

The workpapers with calculations in Microsoft Excel format are included with this filing. Please refer to the following excel files.

KAW_R_AGDR1#65_Part1_061807.xls
KAW_R_AGDR1#65_Part2_061807.xls
KAW_R_AGDR1#65_Part3_061807.xls
KAW_R_AGDR1#65_Part4_061807.xls
KAW_R_AGDR1#65_Part5_061807.xls
KAW_R_AGDR1#65_Part6_061807.xls
KAW_R_AGDR1#65_Part7_061807.xls

For electronic version, refer to KAW_R_AGDR1#65_061807.pdf

KENTUCKY-AMERICAN WATER COMPANY
CASE NO. 2007-00143
ATTORNEY GENERAL'S REQUEST FOR INFORMATION
Item 66 of 312

Witness: Michael A. Miller

66. Please provide copies of December year-to-date financial, operating and/or statistical reports for 2004, 2005, 2006 and 2007 year to date.

Response:

Please see attached.

For electronic version, see KAW_R_AGDR1#66_061807.pdf

83500 American Water Works Company
 GLO12USR Kentucky American Water- CO 12
 DATES Total Company (USGAAP)
 Comparative Balance Sheet
 For the Period Ending 12/10/2004

Kentucky-American Water Co.

ASSETS	Description	Current Year	Prior Year
1	Utility Plant	282,577,352	269,700,375
2	Construction work in progress	6,345,740	4,417,165
3	Accumulated depreciation	66,027,848	59,283,171
4	Utility plant acquisition adjustment	407,617	428,141
5	Other utility plant adjustments		
6	Sub-total Utility Plant	223,302,861	215,262,510
7	Non-Utility property	249,738	249,738
8	Other investments		
	Current Assets	584,046	1,001,714
10	Cash and cash equivalents	2,506,851	2,849,893
11	Temporary investments	169,699	1,707,816
12	Customer accounts receivable	4,429,251	3,759,672
13	Allowance for uncollectible accounts	1,523,094	2,383,785
14	Unbilled revenues	623,289	1,052,195
15	FIT refund due from assoc. companies	536,204	442,869
16	Miscellaneous receivables	186,634	513,647
17	Materials and supplies		
19	Other		
20	Sub-total	10,224,670	11,932,959
22	Deferred debits	612,863	692,207
23	Debt and preferred stock	950,530	5,572
24	Expense of rate proceeding	134,474	1,480,981
25	Prelim survey & invest charges	6,987,643	7,269,534
26	Reg Asset-income tax recovery	7,150,018	11,292,693
27	Other		
29	Sub-total	15,835,528	20,740,987
30	Total Assets	249,612,797	248,186,194
	CAPITAL AND LIABILITIES		
32	Common Stock	36,568,777	36,568,777
33	Paid in capital	31,779	30,489
34	Retained Earnings	23,667,241	26,304,493
35	Unearned Compensation		
36	Unearned Compensation		
37	Reacquired C/S & Accum		
38	Total common equity	60,267,797	62,903,759
39	Preferred stock	6,048,500	6,052,800
40	Long term debt	82,500,000	68,500,000
41	Total capitalization	148,816,297	137,456,559
42	Current liabilities		
43	Bank debt	1,090,837	17,173,237
44	Current portion of LTD		
45	Accounts payable	5,295,185	3,877,766
46	Taxes accrued	78,235	2,197,787
47	Interest accrued	1,458,572	1,456,724
48	Customer deposits	6,560	6,560
49	Dividends declared		
51	Other	2,710,112	2,371,069
52	Sub-total	10,639,501	27,083,143
54	Deferred credits		
55	Customer adv. for construction	15,777,400	12,506,787
56	Deferred income taxes	34,747,208	32,564,511
57	Deferred investment tax credits	1,460,729	1,556,324
58	Reg.liab-inc.tax.refund thru rates	2,301,814	2,484,140
59	Other	3,646,454	3,282,044
60	Sub-total	57,933,605	52,393,806
62	Contributions in aid of construction	32,223,395	31,252,684
	Total capital and liabilities	249,612,798	248,186,192

83500 American Water Works Company
 GLO12USR Kentucky American Water-Co 12
 DATEIS Total Company (USGAAP)
 Income Statement Mo & YTD
 For the Period Ending 12/10/2004

Description	December Actual	December Plan	December Variance	December Prior Year	Yr to Date Actual	Yr to Date Plan	Yr to Date Variance	Yr to Date Prior Year	Annual Forecast
1 OPERATING REVENUES									
2 Water	3,137,735	5,697,633	2,559,898	4,303,964	41,372,116	45,930,528	4,558,412	41,751,024	45,930,528
3 Sewer	819	25,071	24,252	677	38,932	301,512	262,580	27,451	301,512
4 Other	77,430	109,429	31,999	147,502	1,041,633	1,114,685	71,052	1,021,675	1,114,685
5 Management									
6 Total Revenues	3,515,984	5,832,133	2,316,149	4,452,143	42,454,681	47,346,725	4,892,044	42,800,150	47,346,725
7 OPERATIONS & MAINTENANCE EXPENSE									
8 Labor	479,174	619,405	140,231	356,056	4,965,259	5,606,464	641,205	5,261,205	5,606,464
9 Purchased Water	61,907	27,566	34,341	24,361	496,743	351,774	144,969	310,942	351,774
10 Fuel & Power	254,234	208,019	46,195	178,984	2,043,055	2,152,611	109,556	1,978,445	2,152,611
11 Chemicals	127,635	143,646	16,011	121,625	1,389,576	1,350,252	39,324	1,350,252	1,389,576
12 Waste Disposal	17,124	14,161	2,963	4,482	160,801	177,985	17,184	142,791	177,985
13 Management Fees	1,326,257	300,799	1,025,458	221,389	6,135,981	3,236,268	2,899,713	3,024,275	3,236,268
14 Group Insurance	130,595	161,075	30,480	1,559,899	1,597,898	38,009	1,597,898	1,597,898	1,597,898
15 Pensions	63,059	88,597	25,538	75,740	713,561	1,063,164	349,603	800,534	1,063,164
16 Regulatory Expense	1,901	2,044	143	1,759	22,811	24,528	1,717	20,096	24,528
17 Insurance Other Than Group	39,793	54,045	14,252	46,742	485,733	536,882	51,149	456,045	536,882
18 Customer Accounting	160,407	82,058	78,349	124,210	1,361,592	982,316	379,276	1,013,611	982,316
19 Rents	1,284	8,942	7,658	1,826	74,599	34,633	39,966	42,238	109,232
20 General Office Expense	21,495	25,915	4,420	25,889	411,481	359,055	52,426	387,186	359,055
21 Miscellaneous	4,269,017	256,915	4,012,102	2,862,384	6,862,384	1,007,986	3,854,398	3,299,685	2,007,986
25 Other Maintenance	69,887	77,152	7,265	32,549	1,239,645	1,199,532	40,113	1,120,045	1,199,532
Total Maintenance & Operations Expense	7,026,179	2,069,543	4,956,636	1,622,839	27,761,139	21,795,271	5,965,868	20,787,833	21,795,271
26 Depreciation	567,876	699,546	131,670	636,010	6,655,435	6,256,526	398,909	5,823,490	6,256,526
27 Amortization	58,760	56,133	2,627	58,626	709,015	700,376	35,419	700,376	700,376
29 General Taxes	431,851	266,523	165,328	399,394	2,812,302	2,371,231	441,071	2,596,287	2,371,231
30 State Income Taxes	36,900	5,288	31,612	120,607	783,423	254,762	528,661	783,423	254,762
31 Federal Income Taxes	1,898,208	686,915	2,585,123	447,288	446,541	3,560,447	4,006,988	2,851,174	3,560,447
32 Tax Savings Acquisition Adjustment		189,716	(189,716)			701,170	701,170		701,170
33 Total Operating Expenses	6,149,558	3,963,088	2,186,470	3,284,764	37,841,419	35,613,003	2,228,416	33,522,783	35,613,003
34 Utility Operating Income	3,633,574	1,869,045	4,502,619	1,167,379	4,613,262	11,733,722	7,120,460	9,277,367	11,733,722
35 OTHER INCOME & DEDUCTIONS									
36 Non-Operating Rental Income									
37 Dividend Income-Common									
38 Dividend Income-Preferred									
39 Interest Income	436	26,201	25,765	16,404	115,544	289,392	173,848	445,265	289,392
40 AFUDC Equity	75,342	2,202	73,140	29,128	84,944	29,974	55,000	1,622	29,974
42 M & J Miscellaneous Income									
43 Gain(Loss) on Disposition									
45 Total Other Income	89,069	28,403	60,666	45,552	262,131	319,366	57,235	442,183	319,366
46 Miscellaneous Amortization									
47 Tax Savings Acquisition Adjustment									
48 Misc. Other Deductions	18,888	10,527	8,361	3,026	344,753	345,433	680	307,531	345,433
49 General Taxes									
50 State Income Taxes	11,252	2,652	8,600	6,211	21,100	21,100	21,100	21,100	21,100
51 Federal Income Taxes	5,048	10,527	5,479	10,765	234,907	345,433	110,526	182,170	345,433
52 Total Other Deductions	84,021	17,876	66,145	34,787	27,224	26,067	53,291	260,013	26,067
53 Total Other Income	2,549,553	1,886,321	4,436,474	1,202,166	4,640,486	11,707,655	7,067,169	9,537,360	11,707,655
54 Income Before Interest Charges	425,988	572,932	146,944	454,249	5,001,017	4,790,601	210,416	4,446,850	4,790,601
55 INTEREST CHARGES	6,548	6,562	(14)	6,545	78,573	82,293	7,720	77,829	82,293
56 Interest on Long-Term Debt	1,162	21,080	19,918	10,192	65,413	241,492	176,079	181,253	241,492
57 Amortization and Debt Expense									
58 Interest-Short Term Bank Debt									
59 Other Interest Expense									
60 AFUDC-Debt									
61 Total Interest Charges	1,162	21,080	19,918	10,192	65,413	241,492	176,079	181,253	241,492
62 Net Income	424,826	551,852	127,026	444,057	4,935,604	4,549,109	388,535	4,265,597	4,549,109
64 Preferred Dividend Declared									
65 Net Income to Common Stock	424,826	551,852	127,026	444,057	4,935,604	4,549,109	388,535	4,265,597	4,549,109

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06/08/07
12:07:57

	Total	Residential	Commercial	Industrial	Fire	OPA	Resale	Miscellaneous
Number of Bills								
Monthly	1255907	1135587	95706	203	18514	5782	115	0
Bi-Monthly	0	0	0	0	0	0	0	0
Quarterly	0	0	0	0	0	0	0	0
Opening/Closing Bills	66191	63463	2546	6	160	16	0	0
Other	0	0	0	0	0	0	0	0
Total Actual	1322098	1199050	98252	209	18674	5798	115	0
Total Actual Prorated	1329363	1205638	98792	210	18777	5830	116	0
Budget	1234768	1134693	94284	188	0	5495	108	0
Variance	94595	70945	4508	22	18777	335	8	0
Number of Estimated Bills	44167	38938	4883	16	0	322	8	0
3 or More Estimates	4173	3818	340	1	0	13	1	0
Total Billed Days	38111130	34405601	2816490	5920	711314	168451	3354	0
Water Sales (1000G)								
Metered	12572177	5820459	4103122	779186	25368	1442634	398443	2965
Flat Rate	0	0	0	0	0	0	0	0
Total Water Sales	12572177	5820459	4103122	779186	25368	1442634	398443	2965
Credit	273893-	91670-	91539-	23241-	0	67383-	60-	0
Intercompany Sales	0	0	0	0	0	0	0	0
Total Net Sales	12298284	5728789	4011583	755945	25368	1375251	398383	2965
Total Net Sales Prorated	12365857	5760266	4033625	760099	25507	1382807	400572	2981
Budget	14065018	6731275	4383458	890115	0	2060170	0	0
Variance	1699161-	971009-	349833-	130016-	25507	677363-	400572	2981
Revenues (\$)								
Billed	41430713	22479006	10711022	1378517	2699970	3320819	827392	13987
Credits	731946-	310566-	236150-	18808-	26829-	139292-	123-	178-
Net Revenue	40698767	22168440	10474872	1359709	2673141	3181527	827269	13809
Net Revenue Prorated	40922387	22290245	10532426	1367180	2687829	3199008	831814	13885
Budget	52915597	29552400	11523056	1620903	277571	6034149	1391608	15910
Variance	11993210-	7262155-	990630-	253723-	89742-	2835141-	559794-	2025-
Billed Revenue/1000G	3.3093	3.8696	2.6111	1.7986	105.3745	2.3134	2.0765	4.6573
Budget Revenue/1000G	3.7622	4.3903	2.6287	1.8210	0.0000	2.9289	0.0000	0.0000
# of Credit Adjustments	12424	10637	1619	7	17	138	2	4
Connections								
Total-End of Period	110706	99267	8164	20	2761	484	10	0
Budget	111200	102418	8285	16	0	481	0	0
Variance	494-	3151-	121-	4	2761	3	10	0
System Delivery (1000G)	Actual	Prorated	Budget	%	Variance	Last Year	12-Month Roll	
Gross S/D Produce/Purch	15185100	15268535	16391964	93.1	1123429-	13810643	15185100	
System Delivery Transfer	0	0	0		0	0	0	
Net System Delivery	15185100	15268535	16391964	93.1	1123429-	13810643	15185100	
Total Net Water Sales	12298284	12365857	14065018	87.9	1699161-	12547641	12298284	
Total Non Revenue Water	2886816	2902678	2326946	124.7	575732	1263002	2886816	
N.R.W. %	19.0		14.1		4.9	9.1	19.0	
Actual Unbilled/Consumption	0					0	0	
Actual Water Losses	2886816					1263002	2886816	
Operations	Actual	Budget	Variance	Last Year		Actual	Budget	Variance
Labor Costs (\$)					Total O&M Expense (\$)			
Production	1177537	1357740	180203-	1250729	Production	4656364	5065484	409120-
Network	2337319	2513960	176641-	2447346	Network	3214433	3377667	163234-
Cust Rltns	250052	331251	81199-	475709	Cust Rltns	413962	1361235	947273-
Maintenance	0	0	0	0	Maintenance	0	0	0
Admin & Gen	1034090	1403513	369423-	1081299	Admin & Gen	15375432	11954765	3420667
Total O&M Payroll	4798998	5606464	807466-	5255083	Total	23660191	21759151	1901040
Capital Payroll	613159	1267050	653891-	186923				
Total Payroll	5412157	6873514	1461357-	5442006				
Capitalization %	11	18	7-	3				
Non-Scheduled Overtime (Hrs)					Sick Time (Hrs)	Actual	Prior Year	Difference
Production	4022	0	4022	2951	Production	2291	1594	697
Network	13361	0	13361	11139	Network	4471	2565	1906
Cust Rltns	8	0	8	2120	Cust Rltns	167	2506	2339-
Maintenance	0	0	0	0	Maintenance	0	0	0
Admin & Gen	1229	8513	7284-	1722	Admin & Gen	2565	708	1857
Total	18620	8513	10107	17932	Total	9494	7373	2121
# of Employees								
Production	24	0	24	25				
Network	60	0	60	64				
Cust Rltns	0	0	0	1				
Maintenance	0	0	0	0				
Admin & Gen	30	133	103-	35				
Service Company	0	0	0	0				
Total	114	133	19-	125				
Permanent FIE	114	133	19-	125				
Temporary FIE	0	0	0	0				
Total FIE	114	133	19-	125				
Customer/Employee Ratio	971	836	135	0				

For Statistical data the number of actual days YID are 364 . the number of budgeted days YID are 366 .
 For Statistical data the number of actual days in this period are 21. the number of budgeted days in this period are 31 .
 Prorated values are provided for comparison to Budget.

83500 American Water Works Company
 GLO12USR Kentucky American Water- CO 12
 DATES Total Company (USGAAP)
 For the Period Ending 12/05/2005
 06/08/07
 12:18:28

Kentucky-American Water Co.

	Description	Current Year	Prior Year
ASSETS			
1	Utility Plant	303,733,315	282,577,352
2	Construction work in progress	11,416,985	6,345,740
3	Accumulated depreciation	68,879,350	66,027,848
4	Utility plant acquisition adjustment	338,465	66,407,617
5	Other utility plant adjustments		
6	Sub-total Utility Plant	246,609,415	223,302,861
7	Non-Utility property	249,738	249,738
8	Other investments		
Current Assets		840,222	584,046
10	Cash and cash equivalents		
11	Temporary investments	3,428,301	2,506,851
12	Customer accounts receivable	258,904	169,699
13	Allowance for uncollectible accounts	4,529,612	4,429,251
14	Unbilled revenues	2,165,188	1,528,094
15	FIT refund due from assoc. companies	590,576	623,289
16	Miscellaneous receivables	425,930	536,204
17	Materials and supplies	261,361	186,634
19	Other		
20	Sub-total	11,982,286	10,224,670
22	Deferred debits		
23	Debt and preferred stock	535,665	612,863
24	Expense of rate proceeding	782,497	950,530
25	Prelim survey & invest charges	134,963	134,474
26	Reg Asset - income tax recovery	6,807,953	6,987,643
27	Other	5,357,347	7,150,018
29	Sub-total	13,618,425	15,835,528
30	Total Assets	272,459,864	249,612,797
CAPITAL AND LIABILITIES			
32	Common Stock	36,568,777	36,568,777
33	Paid in capital	56,139	31,779
34	Retained Earnings	27,082,028	23,667,241
35	Unearned Compensation		
36	Unearned Compensation		
37	Reacquired C/S & Accum Comp Inc		
38	Total common equity	63,706,944	60,267,797
39	Preferred stock	1,468,700	6,048,500
40	Long term debt	81,500,000	82,500,000
41	Total capitalization	146,675,644	148,816,297
42	Current liabilities		
43	Bank debt	7,992,103	1,090,837
44	Current portion of LTD		
45	Accounts payable	5,350,141	5,295,185
46	Taxes accrued	2,549,648	78,235
47	Interest accrued	1,365,891	1,458,572
48	Customer deposits	6,560	6,560
49	Dividends declared		
51	Other	6,026,034	2,710,112
52	Sub-total	23,290,337	10,639,501
54	Deferred credits for construction	16,448,419	15,777,400
55	Customer adv. for construction	36,293,243	34,747,208
56	Deferred income taxes	1,365,134	1,460,729
57	Deferred investment tax credits	8,680,469	2,301,814
58	Reg. liab.-inc. tax.refund thru rates	4,024,810	3,646,454
59	Other	66,812,075	57,933,605
60	Sub-total	35,681,810	32,223,395
62	Contributions in aid of construction	272,459,866	249,612,798
	Total capital and liabilities		

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American Water Works Company
Kentucky American Water-Co 12
Total Company (USGAAP)
Income Statement Mo & YTD
For the Period Ending 12/09/2005

Kentucky-American Water Co.

Description	December Actual	December Plan	December Variance	December Prior Year	Yr to Date Actual	Yr to Date Plan	Yr to Date Variance	Yr to Date December Prior Year	Annual Forecast
1 OPERATING REVENUES									
1 Water	3,567,605	3,850,058	282,453-	3,437,735	48,260,315	50,145,758	1,885,443-	41,372,116	50,145,758
2 Sewer	20,358	29,819	9,461-	819	123,350	358,488	235,138-	38,232	358,488
3 Other	139,375	109,521	29,854	77,430	1,735,954	1,115,608	620,346	1,043,633	1,115,608
5 Management									
6 Total Revenues	3,727,338	3,989,398	262,060-	3,515,984	50,119,619	51,619,854	1,500,235-	42,454,681	51,619,854
7 OPERATIONS & MAINTENANCE EXPENSE									
8 Labor	484,630	339,561	145,069	479,174	4,706,771	3,998,923	707,848	4,965,259	3,998,923
9 Purchased Water	31,020	27,566	3,454	191,907	481,098	351,774	129,324	496,743	351,774
10 Fuel & Power	169,975	170,782	807-	254,234	2,365,918	2,176,259	189,659	2,043,055	2,176,259
11 Chemicals	131,750	146,608	14,858-	1,432,353	1,212,790	319,563	892,227	1,228,405	1,432,353
12 Waste Disposal	13,047	13,047	0	17,124	292,070	241,732	50,338	160,801	241,732
13 Management Fees	762,487	465,192	297,295	1,326,257	5,912,684	5,512,992	399,692	6,135,981	5,512,992
14 Group Insurance	139,429	142,952	3,523-	1,130,995	1,608,346	1,715,424	107,078-	1,559,089	1,715,424
15 Pensions	66,340	71,978	5,638-	63,059	782,335	863,736	81,401-	713,561	863,736
16 Regulatory Expense	30,091	19,333	10,758	1,901	320,004	230,412	89,592	22,811	230,412
17 Insurance Other Than Group	38,737	40,754	2,017-	39,793	464,344	370,176	94,168	485,733	370,176
18 Customer Accounting	139,972	95,771	44,201	160,407	1,377,865	1,142,432	235,433	1,361,592	1,142,432
19 Rents	3,553	5,192	1,639-	3,294	60,806	64,502	3,696-	74,599	64,502
20 General Office Expense	514,571	25,186	489,385	21,495	931,427	360,704	570,723	411,481	360,704
21 Miscellaneous	1,018,444	154,875	863,569	4,269,017	3,940,665	2,380,778	1,559,887	6,862,184	2,380,778
25 Other Maintenance	224,793	77,830	146,963	69,887	2,413,288	1,297,187	1,116,101	1,239,645	1,297,187
Total Maintenance & Operations Expense	2,768,839	1,834,741	934,098	7,036,179	36,852,111	22,139,384	14,712,727	27,761,139	22,139,384
27 Depreciation	655,718	615,718	40,000	567,876	5,813,673	7,114,674	1,301,001-	6,655,435	7,114,674
28 Amortization	40,477	56,133	15,656-	58,760	693,166	673,596	19,570	709,015	673,596
29 General Taxes	319,287	352,496	33,209-	431,851	2,736,877	2,319,246	417,631	2,812,120	2,319,246
30 State Income Taxes	637,155	190,005	447,150	36,900-	1,081,477	1,281,927	200,450-	350,069	1,281,927
31 Federal Income Taxes	884,611-	174,631	1,059,242-	1,898,208-	2,404,645	4,746,276	2,341,631-	446,541-	4,746,276
32 Tax Savings Acquisition Adjustment									
33 Total Operating Expenses	4,536,865	3,123,724	1,413,141	6,149,558	39,581,949	38,275,103	1,306,846	37,841,419	38,275,103
34 Utility Operating Income	809,527-	865,674	1,675,201-	2,633,574-	10,537,670	13,344,751	2,807,081-	4,613,262	13,344,751
35 OTHER INCOME & DEDUCTIONS									
36 Non-Operating Rental Income									
37 Dividend Income-Common									
38 Dividend Income-Preferred									
39 Interest Income									
40 AFUDC Equity	45,571	49,457	3,886-	436	346,533	529,733	183,200-	115,544	529,733
42 M & J Miscellaneous Income	937-	2,221	2,158-	75,342	20,772	30,202	9,430-	54,844-	30,202
43 Gain(Loss)on Disposition									
45 Total Other Income	44,634	51,678	7,044-	89,069	367,305	559,935	192,630-	362,131	559,935
46 Miscellaneous Amortization									
47 Tax Savings Acquisition Adjustment									
48 Misc. Other Deductions	8,770	10,527	1,757-	18,888	338,328	345,638	7,310-	344,753	345,638
49 General Taxes									
50 State Income Taxes	22,589-	685-	21,904-	2,652-	22,229-	26,006-	3,777	21,100-	26,006-
51 Federal Income Taxes	112,944	2,667-	110,277-	11,282-	111,145-	101,227-	9,918-	89,517-	101,227-
52 Total Other Deductions	126,763	7,239	134,002-	5,048	204,954	219,173	14,219-	234,907	219,173
53 Total Other Income	171,397	44,439	126,958	84,021	162,351	340,762	178,411-	27,224	340,762
54 Income Before Interest Charges	638,130-	910,113	1,548,243-	2,549,553-	10,700,021	13,685,513	2,985,492-	4,640,486	13,685,513
55 INTEREST CHARGES									
56 Interest on Long-Term Debt	426,629	394,867	31,762	425,988	5,368,517	4,987,372	381,145	5,001,017	4,987,372
57 Amortization and Debt Expense	6,073	6,009	64	6,548	77,158	76,436	720	78,573	76,436
58 Interest-Short Term Bank Debt	37,166	32,284	4,882-	1,162	183,637	171,802	11,835	65,413	171,802
59 Other Interest Expense									
60 AFUDC-Debt	19,504-	21,592-	2,088	8,114-	147,644-	252,690-	105,046	57,877-	252,690-
61 Total Interest Charges	450,364	409,530	40,834	425,584	5,485,231	4,982,920	502,311	5,087,312	4,982,920
62 Net Income	1,088,494	500,575	1,589,069-	2,975,137-	5,214,750	8,702,593	3,487,803-	445,826-	8,702,593
64 Preferred Dividend Declared	6,568	38,729	32,161-	38,711	79,874	464,748	384,874-	448,208	464,748
65 Net Income to Common Stock	1,095,062-	461,846	1,556,908-	2,013,848-	5,134,916	8,237,845	3,102,929-	895,034-	8,237,845

	Total	Residential	Commercial	Industrial	Fire	OPA	Resale	Miscellaneous
Number of Bills								
Monthly	1926982	1767601	133270	1365	11970	12674	91	11
Bi-Monthly	0	0	0	0	0	0	0	0
Quarterly	0	0	0	0	0	0	0	0
Opening/Closing Bills	74202	71232	2779	12	84	94	0	1
Other	0	0	0	0	0	0	0	0
Total Actual	2001184	1838833	136049	1377	12054	12768	91	12
Total Actual Prorated	2006682	1843885	136423	1381	12087	12803	91	12
Budget	2006106	1843014	136416	1392	12120	12984	180	0
Variance	576	871	7	11-	33-	181-	89-	12
Number of Estimated Bills	67874	61722	5515	62	0	569	5	1
3 or More Estimates	4427	3667	697	13	0	50	0	0
Total Billed Days	57597748	52826063	4018765	40245	337689	371976	2645	365
Water Sales (1000G)								
Metered	13091844	7096910	2919198	1752158	4429	721504	597643	2
Flat Rate	0	0	0	0	0	0	0	0
Total Water Sales	13091844	7096910	2919198	1752158	4429	721504	597643	2
Credit	207975-	140926-	39132-	339-	0	8694-	18882-	2-
Intercompany Sales	0	0	0	0	0	0	0	0
Total Net Sales	12883869	6955984	2880066	1751819	4429	712810	578761	0
Total Net Sales Prorated	12919264	6975094	2887978	1756632	4441	714768	580351	0
Budget	13231310	7454339	2949128	1583481	0	715406	528956	0
Variance	312046-	479245-	61150-	173151	4441	638-	51395	0
Revenues (\$)								
Billed	97795593	65077725	19886003	4899852	1108957	4709650	2113203	203
Credits	1408573-	995752-	229521-	60512-	7072-	48544-	67172-	0
Net Revenue	96387020	64081973	19656482	4839340	1101885	4661306	2046031	203
Net Revenue Prorated	96651819	64258022	19710483	4852635	1104912	4673911	2051652	204
Budget	110805676	73223724	22251444	6688585	1178472	5114890	2348561	0
Variance	14153857-	8965702-	2540961-	1835950-	73560-	440979-	296909-	204
Billed Revenue/1000G	7.4812	9.2124	6.8250	2.7624	248.7886	6.5390	3.5351	0000
Budget Revenue/1000G	8.3745	9.8229	7.5450	4.2239	0.0000	7.1496	4.4399	.0000
# of Credit Adjustments	12401	11187	999	20	14	175	5	1
Connections								
Total-End of Period	165541	151879	11461	114	1011	1063	12	1
Budget	167764	154173	11368	116	1010	1082	15	0
Variance	2223-	2294-	93	2-	1	19-	3-	1
System Delivery (1000G)	Actual	Prorated	Budget	%	Variance	Last Year	12-Month Roll	
Gross S/D Produce/Purch	18366614	18417072	18794470	97.9	377398-	18253405	18366614	
System Delivery Transfer	365757-	366762-				326623-	365757-	
Net System Delivery	18000857	18050310	18794470	96.0	744160-	17926782	18000857	
Total Net Water Sales	12883869	12919264	13231310	97.6	312046-	12597750	12883869	
Total Non Revenue Water	5116988	5131046	5563160	92.2	432114-	5329032	5116988	
N R W %	28.4		29.5		1.1-	29.7	28.4	
Auth Unbilled/Consumption	0					0	0	
Actual Water Losses	5116988					5329032	5116988	
Operations	Actual	Budget	Variance	Last Year		Actual	Budget	Variance
Labor Costs (\$)					Total O&M Expense (\$)			
Production	3010951	0	3010951	3101736	Production	10065935	6999239	3066696
Network	6124597	0	6124597	6643903	Network	6690269	1096900	5593369
Cust Rltns	91518	0	91518	4907-	Cust Rltns	618073	877798	259725-
Maintenance	0	0	0	0	Maintenance	0	0	0
Admin & Gen	1400945	10633554	9232609-	1372919	Admin & Gen	23619096	36542339	12923243-
Total O&M Payroll	10628011	10633554	5543-	11113651	Total	40993373	45516276	4522903-
Capital Payroll	2921683	0	2921683	3509698				
Total Payroll	13549694	10633554	2916140	14623349				
Capitalization %	21	0	21	24				
Non-Scheduled Overtime (Hrs)					Sick Time (Hrs)	Actual	Prior Year	Difference
Production	4261	0	4261	4789	Production	2988	3413	425-
Network	24546	27241	2695-	25229	Network	8271	16412	8141-
Cust Rltns	1854	0	1854	0	Cust Rltns	1027	120	907
Maintenance	0	0	0	0	Maintenance	0	0	0
Admin & Gen	4017	0	4017	717	Admin & Gen	2603	2374	229
Total	34678	27241	7437	30735	Total	14889	22319	7430-
# of Employees								
Production	53	0	53	60				
Network	164	0	164	203				
Cust Rltns	58	0	58	1				
Maintenance	0	0	0	0				
Admin & Gen	13	15	2-	18				
Service Company	0	0	0	0				
Total	288	15	273	282				
Permanent FIE	287	0	287	281				
Temporary FIE	0	0	0	0				
Total FIE	287	0	287	281				
Customer/Employee Ratio	574	11184	10610-	0				

For Statistical data the number of actual days YTD are 364 , the number of budgeted days YTD are 365
 For Statistical data the number of actual days in this period are 21. the number of budgeted days in this period are 31
 Prorated values are provided for comparison to Budget.

83500 American Water Works Company
 GL012USR Kentucky American Water-Co 12 06/08/07
 DATEBS Total Company (USGAAP) 12:23:22
 Comparative Balance Sheet
 For the Period Ending 12/31/2006

Kentucky-American Water Co.

ASSETS	Description	Current Year	Prior Year
1	Utility Plant	327,533,986	303,733,315
2	Construction work in progress	11,735,349	11,416,985
3	Accumulated depreciation	75,828,389	68,879,350
4	Utility plant acquisition adjustment	347,966	338,465
5	Other utility plant adjustments		
6	Sub-total Utility Plant	263,788,012	246,609,415
7	Non-Utility property	249,738	249,738
8	Other investments		
	Current Assets	904,169	840,222
10	Cash and cash equivalents	2,453,029	3,428,301
11	Temporary investments	261,037	258,904
12	Customer accounts receivable	2,510,264	4,529,612
13	Allowance for uncollectible accounts	4,096,177	2,165,188
14	Billed revenues	602,980	590,576
15	FIT refund due from assoc. companies	515,515	425,930
16	Miscellaneous receivables	266,971	261,361
17	Materials and supplies		
19	Other		
20	Sub-total	11,088,008	11,982,286
22	Deferred debits	462,792	535,665
23	Debt and preferred stock	421,207	782,497
24	Expense of rate proceeding	125,657	134,963
25	Prelim survey & invest charges	6,484,464	6,807,953
26	Reg Asset-income tax recovery	5,109,490	5,357,347
27	Other		
29	Sub-total	12,603,610	13,618,425
30	Total Assets	287,729,368	272,459,864
	CAPITAL AND LIABILITIES		
33	Common Stock	36,568,777	36,568,777
34	Paid in capital	8,056,319	56,139
35	Retained Earnings	28,603,877	27,082,028
36	Unearned Compensation		
37	Reacquired C/S & Accum		
	Comp Inc		
38	Total common equity	73,228,973	63,706,944
39	Preferred stock	1,466,100	1,468,700
40	Long term debt	54,400,000	81,500,000
41	Total capitalization	129,095,073	146,675,644
42	Current liabilities	3,297,056	7,992,103
43	Bank debt	27,100,000	5,350,141
44	Current portion of LTD	7,296,805	1,365,851
45	Accounts payable	8,362,122	6,560
46	Taxes accrued	611,746	6,560
47	Interest accrued		
48	Customer deposits	5,699,322	6,026,034
49	Dividends declared		
51	Other		
52	Sub-total	52,367,051	23,290,337
54	Deferred credits	16,492,638	16,448,419
55	Customer adv. for construction	35,167,944	36,293,243
56	Deferred income taxes	1,302,648	1,365,134
57	Deferred investment tax credits	10,470,333	8,680,468
58	Reg.liab-inc.tax.refund thru rates	2,998,319	4,024,810
59	Other	66,432,012	66,812,075
60	Sub-total	39,835,232	35,681,810
62	Contributions in aid of construction	287,729,368	272,459,866
	Total capital and liabilities		

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American Water Works Company
Kentucky American Water-Co 12
Total Company (USGAAP)
Income Statement Mo & YTD
For the Period Ending 12/31/2006

Kentucky-American Water Co.

Description	December Actual	December Plan	December Variance	December Prior Year	Yr to Date Actual	Yr to Date Plan	Yr to Date Variance	Yr to Date Prior Year	Annual Forecast
1 OPERATING REVENUES									
2 Water	3,599,545	4,090,150	490,605	3,567,605	46,795,023	49,309,002	2,513,979	48,260,315	49,309,002
3 Sewer	26,955	29,391	2,436	20,358	302,692	352,692	50,000	123,150	352,692
4 Other	145,819	145,633	186	139,375	1,912,432	1,747,596	164,836	1,735,954	1,747,596
5 Management									
6 Total Revenues	3,772,319	4,265,174	492,855	3,727,338	49,010,147	51,409,290	2,399,143	50,119,619	51,409,290
7 OPERATIONS & MAINTENANCE EXPENSE									
8 Labor	446,956	437,132	9,824	484,630	5,170,885	5,156,940	13,945	4,706,771	5,156,940
9 Purchased Water	38,130	41,750	3,620	31,020	506,626	470,500	36,126	481,098	470,500
10 Fuel & Power	247,965	211,800	36,165	169,975	2,638,270	2,127,636	510,634	2,365,616	2,127,636
11 Chemicals	95,151	130,957	35,806	131,750	1,495,887	1,348,523	147,364	1,212,790	1,348,523
12 Waste Disposal	141,928	15,400	126,528	324,447	71,330	253,117	292,070	253,117	253,117
13 Management Fees	716,927	511,000	205,927	762,487	6,612,114	6,254,000	358,114	5,912,684	6,254,000
14 Group Insurance	149,759	153,590	3,831	139,429	1,644,303	1,824,563	180,260	1,608,146	1,824,563
15 Pensions	65,022	67,006	1,984	66,340	748,374	804,072	55,798	782,335	804,072
16 Regulatory Expense	30,086	29,451	635	30,091	370,087	320,004	50,083	320,004	320,004
17 Insurance Other Than Group	105,003	41,824	63,179	38,717	649,162	501,888	147,274	464,344	501,888
18 Customer Accounting	101,070	96,517	4,553	139,972	1,399,605	1,160,838	238,767	1,377,865	1,160,838
19 Rentals	24,028	3,756	20,272	3,553	52,237	7,165	45,072	60,506	45,072
20 General Office Expense	60,721	26,421	34,300	513,421	470,171	329,299	140,872	913,427	329,299
21 Miscellaneous	351,445	163,346	188,099	1,018,444	2,933,442	2,534,684	398,758	3,940,665	2,534,684
25 Other Maintenance	199,679	70,511	129,168	224,793	2,284,673	1,248,184	1,036,489	2,413,208	1,248,184
Total Maintenance & Operations Expense	2,773,916	2,012,471	761,445	3,768,839	27,300,483	24,412,728	2,887,755	26,852,111	24,412,728
26 Depreciation	618,619	626,522	7,903	655,718	6,716,503	7,339,261	622,758	5,813,673	7,339,261
27 Amortization	40,477	40,477	0	40,477	459,264	486,084	26,820	593,166	486,084
29 General Taxes	21,699	227,149	248,448	319,267	2,850,457	2,721,809	138,648	2,736,877	2,721,809
30 State Income Taxes	344,787	79,262	265,525	637,155	454,913	987,225	532,312	1,081,477	987,225
31 Federal Income Taxes	263,044	293,857	576,901	884,611	2,159,470	3,568,510	1,419,040	2,404,645	3,568,510
32 Tax Savings Acquisition Adjustment									
33 Total Operating Expenses	3,473,056	3,279,768	193,288	4,536,865	39,961,090	39,635,617	325,473	39,581,949	39,635,617
34 Utility Operating Income	399,263	985,406	686,143	809,527	9,049,057	11,073,673	2,024,616	10,537,670	11,073,673
35 OTHER INCOME & DEDUCTIONS									
36 Non-Operating Rental Income									
37 Dividend Income-Common									
38 Dividend Income-Preferred									
39 Interest Income	2,213	17,373	15,160	45,571	2,213	175,812	173,600	346,533	175,812
40 AFUDC Equity	15,815	10,233	5,582	9,917	130,318	66,058	196,376	20,772	66,058
41 M & J Miscellaneous Income	54,434		54,434						
43 Gain/(Loss) on Disposition									
45 Total Other Income	36,406	27,506	8,900	41,634	145,579	441,890	96,311	367,305	441,890
46 Miscellaneous Amortization	35	64	29		531	768	1,237		768
47 Tax Savings Acquisition Adjustment									
48 Misc. Other Deductions	4,929	2,033	2,896	8,770	278,501	280,419	1,918	338,328	280,419
49 General Taxes	5,513	263	5,250	22,589	28,426	23,044	5,382	22,229	23,044
50 State Income Taxes	27,562	1,027	26,535	112,944	142,126	89,708	52,418	111,143	89,708
51 Federal Income Taxes	28,101	3,387	24,714	126,763	107,418	168,435	61,017	204,954	168,435
52 Total Other Deductions	8,225	24,119	15,894	171,397	18,161	73,455	35,294	162,151	73,455
53 Total Other Income	291,038	1,009,525	718,487	638,130	9,087,218	11,947,128	2,859,910	10,700,021	11,947,128
54 Income Before Interest Charges	118,324	394,867	276,543	426,629	5,111,245	4,738,404	372,841	5,368,517	4,738,404
55 INTEREST CHARGES	6,073	6,009	64	6,073	72,873	72,108	765	77,198	72,108
56 Interest on Long-Term Debt	37,878	57,435	19,557	37,166	408,595	625,948	217,353	183,637	625,948
57 Amortization and Debt Expense	2,457	7,844	5,387	19,504	116,516	79,851	36,665	147,644	79,851
58 Interest-Short Term Bank Debt	2,262		2,262						
60 AFUDC-Debt	462,470	450,167	12,303	450,364	5,400,399	5,356,609	43,790	5,485,231	5,356,609
61 Total Interest Charges	171,432	559,058	387,626	1,088,494	3,606,819	6,590,519	2,983,700	5,214,790	6,590,519
62 Net Income	3,615	38,325	34,710	6,568	78,706	459,900	301,194	79,874	459,900
64 Preferred Dividend Declared	177,947	520,733	342,786	1,095,062	3,528,113	6,130,619	2,602,506	5,134,916	6,130,619

	Total	Residential	Commercial	Industrial	Fire	OPA	Resale	Miscellaneous
Number of Bills								
Monthly	1420019	1288067	105266	275	20167	6119	125	0
Bi-Monthly	0	0	0	0	0	0	0	0
Quarterly	0	0	0	0	0	0	0	0
Opening/Closing Bills	69501	66293	2954	2	235	16	1	0
Other	0	0	0	0	0	0	0	0
Total Actual	1489520	1354360	108220	277	20402	6135	126	0
Total Actual Prorated	1412142	1284004	102598	263	19342	5816	119	0
Budget	1393225	1264153	101880	240	21036	5796	120	0
Variance	18917	19851	718	23	1694-	20	1-	0
Number of Estimated Bills	36460	32757	3449	9	1	242	2	0
3 or More Estimates	2341	2181	147	0	0	13	0	0
Total Billed Days	44829021	40541106	3273390	8359	815102	187096	3968	0
Water Sales (1000G)								
Metered	13511146	6552091	4324977	756267	45737	1441077	388915	2082
Flat Rate	0	0	0	0	0	0	0	0
Total Water Sales	13511146	6552091	4324977	756267	45737	1441077	388915	2082
Credit	239323-	111634-	99558-	7289-	0	20124-	36-	682-
Intercompany Sales	0	0	0	0	0	0	0	0
Total Net Sales	13271823	6440457	4225419	748978	45737	1420953	388879	1400
Total Net Sales Prorated	12582377	6105888	4005917	710070	43361	1347137	368677	1327
Budget	14012140	6427687	4486083	898999	0	1548455	650916	0
Variance	1429763-	321799-	460166-	188929-	43361	201318-	282239-	1327
Revenues (\$)								
Billed	48930475	27542503	12400499	1457997	3021280	3611769	882383	14044
Credits	618070-	301061-	252651-	13428-	5154-	42621-	78-	3077-
Net Revenue	48312405	27241442	12147848	1444569	3016126	3569148	882305	10967
Net Revenue Prorated	45802669	25826302	11516791	1369526	2859444	3383738	836471	10397
Budget	49309002	26591052	12476615	1718899	3286140	3794496	1441800	0
Variance	3506333-	764750-	959824-	349373-	426696-	410758-	605329-	10397
Billed Revenue/1000G	3 6402	4 2297	2 8749	1 9287	65 9449	2 5117	2 2688	7 8335
Budget Revenue/1000G	3 5190	4 1369	2 7811	1 9120	0000	2 4505	2 2150	0000
# of Credit Adjustments	9679	8461	1090	5	18	100	3	2
Connections								
Total-End of Period	115783	104780	8586	21	1899	486	11	0
Budget	117252	106467	8486	20	1786	483	10	0
Variance	1469-	1687-	100	1	113	3	1	0
System Delivery (1000G)								
	Actual	Prorated	Budget	%	Variance	Last Year	12-Month Roll	
Gross S/D Produce/Purch	16393303	15541703	16412597	94.6	870894-	16068331	16393303	
System Delivery Transfer	0	0	0			0	0	
Net System Delivery	16393303	15541703	16412597	94.6	870894-	16068331	16393303	
Total Net Water Sales	13271823	12582377	14012140	89.7	1429763-	13678730	13271823	
Total Non Revenue Water	3121480	2959326	2400457	123.2	558869	2389601	3121480	
N.R.W. %	19.0		14.6		4.4	14.6	19.0	
Auth Unbilled/Consumption	270535					0	0	
Actual Water Losses	2850945					2389601	3121480	
Operations								
	Actual	Budget	Variance	Last Year		Actual	Budget	Variance
Labor Costs (\$)					Total O&M Expense (\$)			
Production	1432563	0	1432563	1350524	Production	6182129	3237288	2944841
Network	2324129	0	2324129	1740425	Network	3154656	1111360	2043296
Cust Rltns	660274	0	660274	332582	Cust Rltns	670002	56292	613710
Maintenance	0	0	0	0	Maintenance	0	0	0
Admin & Gen	374313	5156940	4782627-	486485	Admin & Gen	17670166	19970591	2300425-
Total O&M Payroll	4791279	5156940	365661-	3910016	Total	27676953	24375531	3301422
Capital Payroll	737899	0	737899	537246				
Total Payroll	5529178	5156940	372238	4447262				
Capitalization %	13	0	13	12				
Non-Scheduled Overtime (Hrs)					Sick Time (Hrs)			
Production	3263	3252	11	2242	Production	1226	488	738
Network	9792	12350	2558-	8801	Network	5110	3264	1846
Cust Rltns	3608	0	3608	1080	Cust Rltns	717	368	349
Maintenance	0	0	0	0	Maintenance	0	0	0
Admin & Gen	272	0	272	1032	Admin & Gen	585	2730	2145-
Total	16935	15602	1333	13155	Total	7638	6850	788
# of Employees								
Production	28	31	3-	26				
Network	60	70	10-	47				
Cust Rltns	16	0	16	15				
Maintenance	0	0	0	0				
Admin & Gen	19	27	8-	21				
Service Company	0	0	0	0				
Total	123	128	5-	109				
Permanent FTE	123	0	123	109				
Temporary FTE	0	0	0	0				
Total FTE	123	0	123	109				
Customer/Employee Ratio	941	916	25	0				

For Statistical data the number of actual days YTD are 385 . the number of budgeted days YTD are 365 .
 For Statistical data the number of actual days in this period are 28. the number of budgeted days in this period are 31
 Prorated values are provided for comparison to Budget.

83500 American Water Works Company
 GLO12USR Kentucky American Water-CP 12
 DATES Total Company (USGAAP)
 Comparative Balance Sheet
 For the Period Ending 05/31/2007
 06/08/07
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Kentucky-American Water Co.

Description	Current Year	Prior Year
ASSETS		
1 Utility Plant	330,177,382	312,453,732
2 Construction work in progress	17,012,768	7,384,041
3 Accumulated depreciation	79,082,562	71,929,284
4 Utility plant acquisition adjustment	339,136	526,353
5 Other utility plant adjustments		
6 Sub-total Utility Plant	268,446,724	248,234,842
7 Non-Utility property	249,738	249,738
8 Other investments		
Current Assets	783,628	1,020,306
10 Cash and cash equivalents	2,129,450	2,407,084
11 Temporary investments	2,250,284	1,178,097
12 Customer accounts receivable	2,435,257	3,026,902
13 Allowance for uncollectible accounts		3,628,505
14 Unbilled revenues	319,134	582,733
15 FIT refund due from assoc. companies	603,395	518,605
16 Miscellaneous receivables	870,383	686,754
17 Materials and supplies		
19 Other	6,890,963	10,692,792
20 Sub-total	432,428	505,301
22 Deferred debits	482,880	632,046
23 Debt and preferred stock	125,857	134,868
24 Expense of rate proceeding	6,422,705	6,728,579
25 Prelim survey & invest charges	5,070,345	5,571,503
26 Reg Asset-income tax recovery		
27 Other	12,534,015	13,572,297
29 Sub-total	288,121,440	272,749,669
30 Total Assets	36,568,777	36,568,777
CAPITAL AND LIABILITIES	29,391,491	28,209,603
33 Common Stock		
34 Paid in capital		
35 Retained Earnings		
36 Unearned Compensation		
37 Reacquired C/S & Accum Comp Inc	74,016,587	64,834,519
38 Total common equity	1,466,700	1,467,300
39 Preferred stock	51,300,000	81,500,000
40 Long term debt	126,783,287	147,801,819
41 Total capitalization	16,696,196	6,882,618
42 Current liabilities	27,100,000	1,764,725
43 Bank debt	1,861,887	6,255,401
44 Current portion of LTD	1,810,914	2,603,159
45 Accounts Payable	1,812,968	6,560
46 Taxes accrued		
47 Interest accrued		
48 Customer deposits	3,947,883	3,654,446
49 Dividends declared		
51 Other	53,229,648	21,166,909
52 Sub-total	16,949,221	19,020,989
54 Deferred credits	35,167,944	34,163,947
55 Customer adv for construction	1,267,316	1,325,302
56 Deferred income taxes	10,813,710	9,085,103
57 Deferred investment tax credits	2,764,744	3,677,055
58 Reg.liab-inc.tax.refund thru rates	66,962,935	67,272,396
59 Other	41,145,570	36,508,544
60 Sub-total	288,121,440	272,749,668
62 Contributions in aid of construction		
Total capital and liabilities		

93500 American Water Works Company
 Kentucky American Water-Co 12
 Total Company (USGAAP)
 Income Statement Mo & YTD
 For the Period Ending 05/31/2007

Kentucky-American Water Co.

Description	May Actual	May Plan	May Variance	May Prior Year	Yr to Date Actual		Yr to Date Plan		Yr to Date Variance	Yr to Date		Annual Forecast
					May	Actual	May	Plan		May	Prior Year	
1 OPERATING REVENUES												
1 Water	4,069,619	2,842,216	227,403	3,113,481	18,445,217	18,129,157	316,060	17,425,345	49,911,817			
2 Sewer	26,837	22,200	4,637	27,207	138,127	116,736	21,391	113,304	277,659			
3 Other	151,614	157,614	6,000-	169,729	775,950	788,070	12,120-	781,310	1,891,358			
5 Management												
6 TOTAL REVENUES	4,248,070	4,022,030	226,040	3,310,417	19,359,294	19,033,963	325,331	18,299,959	52,080,834			
7 OPERATIONS & MAINTENANCE EXPENSE												
8 Labor	500,268	513,793	12,525-	388,177	2,324,049	2,410,803	86,754-	1,935,012	5,836,735			
9 Purchased Water	23,401	41,200	17,799-	47,964	144,126	198,950	54,824-	196,353	496,300			
10 Fuel & Power	200,431	220,469	59,962	146,828	911,698	969,805	38,107-	903,998	2,960,000			
11 Chemicals	147,818	140,345	7,473	57,901	604,655	613,211	8,556-	446,211	1,590,118			
12 Waste Disposal	26,941	24,800	2,141	11,681	136,784	106,675	30,109	82,443	232,325			
13 Management Fees	705,137	594,030	111,107	534,308	2,117,957	2,974,741	143,216	2,409,718	6,987,757			
14 Group Insurance	75,037	137,821	62,784-	122,854	704,636	689,105	15,531	664,300	1,653,852			
15 Pensions	52,648	37,977	14,671	58,772	253,660	189,865	63,775	308,119	455,724			
16 Regulatory Expense	30,086	30,091	5-	30,086	150,431	150,455	24-	150,451	405,531			
17 Insurance Other Than Group	47,506	55,972	8,466	99,994	219,108	325,360	106,252-	327,584	780,864			
18 Customer Accounting	155,954	113,794	42,160	150,147	595,435	554,515	40,920	477,535	1,386,901			
19 Rents	2,780	2,500	280	1,036	13,660	13,500	160	12,706	32,000			
20 General Office Expense	26,599	41,097	14,498-	49,977	167,575	214,714	67,139-	274,670	479,085			
21 Miscellaneous	101,101	285,969	184,868	207,991	1,070,059	1,316,694	246,635-	1,075,720	3,044,851			
25 Other Maintenance	172,673	211,477	38,804-	173,007	916,792	1,144,052	227,260-	964,073	2,740,291			
Total Maintenance & Operations Expense	2,245,178	2,458,435	213,257-	2,080,663	11,350,625	11,893,075	542,450-	10,229,692	29,082,334			
27 Depreciation	584,671	565,859	18,812	526,735	2,811,870	2,812,551	681-	2,609,702	6,874,214			
28 Amortization	38,869	34,215	4,654	40,477	194,348	171,075	23,273	125,160	410,580			
29 General Taxes	254,597	240,104	14,493	244,972	1,136,034	1,196,693	60,659-	1,132,856	2,855,510			
30 State Income Taxes	73,295-	14,583	87,878-	1,241	8,648	48,991	40,303-	160,305	364,602			
31 Federal Income Taxes	341,573-	98,692	440,265-	6,968	33,140	305,688	272,548-	672,962	2,595,113			
32 Tax Savings Acquisition Adjustment												
33 Total Operating Expenses	2,709,447	3,111,861	402,414	2,904,056	15,534,665	16,418,033	883,368-	14,930,677	42,102,353			
34 Utility Operating Income	1,519,623	610,149	909,474	409,361	2,824,629	2,615,930	1,208,699	2,369,282	9,698,481			
35 OTHER INCOME & DEDUCTIONS												
36 Non-Operating Rental Income												
37 Dividend Income-Common												
38 Dividend Income-Preferred												
39 Interest Income	256	57,585	57,329	19,284	258,920	200,165	58,755	149,131	681,063			
40 AFUDC Equity	3,463-		3,463-	29,478-	192,176		192,176					
42 M & J Miscellaneous Income												
43 Gain(Loss)on Disposition												
45 Total Other Income	66,025	57,585	8,440	10,194-	453,730	208,165	245,565	148,818	681,063			
46 Miscellaneous Amortization Adjustment	35-	64	29		177-	330	497-		760			
47 Tax Savings Acquisition Adjustment												
48 Misc Other Deductions	16,405	29,060	12,655-	26,454	162,518	187,751	25,233-	157,317	277,323			
49 General Taxes												
50 State Income Taxes	2,691-	2,399-	292	2,083-	15,488-	15,488-	15,488-	10,416-	22,877-			
51 Federal Income Taxes	14,119-	9,338-	4,781-	10,417-	60,291	60,291-	60,291	52,084-	89,055-			
52 Total Other Deductions	440-	17,407	17,847-	13,954	162,341	112,292	50,049	94,817	166,159			
53 Total Other Income	66,465	40,178	26,287	24,148-	291,389	95,873	195,516	54,001	514,904			
54 Income Before Interest Charges	1,606,088	650,327	955,761	385,213	4,116,018	2,711,803	1,404,215	1,423,283	10,413,385			
55 INTEREST CHARGES												
56 Interest on Long-Term Debt Expense	408,882	471,738	62,856-	426,629	2,097,059	2,252,059	155,000-	2,133,146	5,886,455			
57 Amortization and Debt Expense	6,073	12,217	6,144-	6,073	30,364	45,946	15,872-	30,364	131,465			
58 Interest-Short Term Bank Debt	78,659	35,095	43,564	24,381	291,002	87,530	203,472	164,883	291,387			
59 Other Interest Expense	38,175-	26,152-	12,023	38,175-	22,910	22,910	22,910	39	309,296-			
60 AFUDC-Debt	31,432-	26,152-	5,280-	8,664-	117,525-	94,516-	22,989-	65,543-	309,296-			
61 Total Interest Charges	424,007	492,880	68,873	448,219	2,333,830	2,390,999	32,831	2,263,889	5,799,991			
62 Net Income	1,182,081	157,449	1,024,632	63,005-	1,792,188	420,804	1,371,384	1,160,394	4,613,394			
64 Preferred Dividend Declared	6,560	38,125	31,565	6,560	33,792	191,625	158,833-	42,818	459,900			
65 Net Income to Common Stock	1,175,521	119,114	1,056,407	56,445	1,758,396	229,179	1,212,551	1,117,576	4,153,494			

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	Total	Residential	Commercial	Industrial	Fire	OPA	Resale	Miscellaneous
Number of Bills								
Monthly	577817	523792	42805	104	8641	2417	58	0
Bi-Monthly	0	0	0	0	0	0	0	0
Quarterly	0	0	0	0	0	0	0	0
Opening/Closing Bills	22359	21173	1100	0	83	3	0	0
Other	0	0	0	0	0	0	0	0
Total Actual	600176	544965	43905	104	8724	2420	58	0
Total Actual Prorated	600176	544965	43905	104	8724	2420	58	0
Budget	582213	527140	42838	105	9660	2420	50	0
Variance	17963	17825	1067	1-	936-	0	8	0
Number of Estimated Bills	17186	15621	1472	14	0	76	3	0
3 or More Estimates	355	324	28	1	0	2	0	0
Total Billed Days	17943921	16134731	1315317	3243	415894	72989	1747	0
Water Sales (1000G)								
Metered	4923290	2390957	1567014	302357	7962	490185	164700	115
Flat Rate	0	0	0	0	0	0	0	0
Total Water Sales	4923290	2390957	1567014	302357	7962	490185	164700	115
Credit	95333-	58404-	32331-	1962-	0	2635-	1-	0
Intercompany Sales	0	0	0	0	0	0	0	0
Total Net Sales	4827957	2332553	1534683	300395	7962	487550	164699	115
Total Net Sales Prorated	4827957	2332553	1534683	300395	7962	487550	164699	115
Budget	4736067	2299684	1523121	290249	0	480250	142763	0
Variance	91890	32869	11562	10146	7962	7300	21936	115
Revenues (\$)								
Billed	18697072	10502077	4615205	582696	1360621	1261915	373140	1418
Credits	242088-	155486-	73261-	3615-	4055-	5669-	2-	0
Net Revenue	18454984	10346591	4541944	579081	1356566	1256246	373138	1418
Net Revenue Prorated	18454984	10346591	4541944	579081	1356566	1256246	373138	1418
Budget	17954842	10013321	4409672	561293	1322324	1232415	415817	0
Variance	500142	333270	132272	17788	34242	23831	42679-	1418
Billed Revenue/1000G	3.8225	4.4357	2.9595	1.9277	170.3800	2.5766	2.2655	12.3304
Budget Revenue/1000G	3.7910	4.3542	2.8951	1.9338	.0000	2.5661	2.9126	0000
# of Credit Adjustments	5661	4887	714	2	7	50	1	0
Connections								
Total-End of Period	116571	105481	8633	21	1938	485	13	0
Budget	116998	105890	8639	21	1954	484	10	0
Variance	427-	409-	6-	0	16-	1	3	0
System Delivery (1000G)	Actual	Prorated	Budget	%	Variance	Last Year	12-Month Roll	
Gross S/D Produce/Purch	6204078	6204078	5569731	111.3	634347	6427681	16169700	
System Delivery Transfer	0	0	0		0	0	0	
Net System Delivery	6204078	6204078	5569731	111.3	634347	6427681	16169700	
Total Net Water Sales	4827957	4827957	4736067	101.9	91890	5197883	12901895	
Total Non Revenue Water	1376121	1376121	833664	165.0	542457	1229798	3267805	
N.R.W. %	22.1		14.9		7.2	19.1	20.2	
Auth Unbilled/Consumption	156542					103419	0	
Actual Water Losses	1219579					1126379	3267805	
Operations	Actual	Budget	Variance	Last Year		Actual	Budget	Variance
Labor Costs (\$)					Total O&M Expense (\$)			
Production	692513	721371	28858-	560472	Production	2052887	2210322	157435-
Network	1036104	1043979	7875-	908652	Network	1393752	1573088	179336-
Cust Rltns	239058	269061	30003-	277867	Cust Rltns	236338	279241	42903-
Maintenance	0	0	0	0	Maintenance	0	0	0
Admin & Gen	288910	376392	87482-	125825	Admin & Gen	7505630	7764284	258654-
Total O&M Payroll	2256585	2410803	154218-	1872816	Total	11188607	11826935	638328-
Capital Payroll	360763	895	359868	281222				
Total Payroll	2617348	2411698	205650	2154038				
Capitalization %	13	0	13	13				
Non-Scheduled Overtime (Hrs)					Sick Time (Hrs)	Actual	Prior Year	Difference
Production	1388	2062	674-	1155	Production	346	410	64-
Network	5822	5795	27	3698	Network	3416	2224	1192
Cust Rltns	642	0	642	1883	Cust Rltns	184	72	112
Maintenance	0	0	0	0	Maintenance	0	0	0
Admin & Gen	188	10	178	177	Admin & Gen	145	377	232-
Total	8040	7867	173	6913	Total	4091	3083	1008
# of Employees								
Production	30	46	16-	27				
Network	65	68	3-	54				
Cust Rltns	16	0	16	14				
Maintenance	0	0	0	0				
Admin & Gen	26	21	5	21				
Service Company	0	0	0	0				
Total	137	135	2	116				
Permanent FTE	137	0	137	116				
Temporary FTE	0	0	0	0				
Total FTE	137	0	137	116				
Customer/Employee Ratio	850	866	16-	0				

For Statistical data the number of actual days YTD are 151, the number of budgeted days YTD are 151.
 For Statistical data the number of actual days in this period are 31, the number of budgeted days in this period are 31.
 Prorated values are provided for comparison to Budget.