



552 Academy Avenue
Providence, RI 02908

401-521-6300

www.provwater.com

The Hon. Angel Taveras
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Only Tap Water Delivers

June 3, 2013

Mrs. Luly Massaro
Commission Clerk
RI Public Utilities Commission
89 Jefferson Boulevard
Warwick, RI 02888

RE: Dk 4406 Kent County Water Authority; Set 1

Dear Mrs. Massaro:

Enclosed is an original and seven copies of Providence Water's responses to 1-13, 1-14, 1-15, and 1-17 requests for Kent County Water Authority.

If you have any questions you can contact me at extension 7217.

Sincerely,

Mary L. Deignan-White
Senior Manager of Regulatory

cc: service list

Providence Water Docket 4406

**Data Requests of the
Kent County Water Authority
Set 1**

KCWA 1-13. The description of Allocation Factor HM indicates it is based on FY 2004-2006 activities. Please provide the back-up for the calculations of Allocation Factor HM in excel format. In addition, please provide an update of allocation factors HM, HOC and HMC based on the most recent three years (FY 2010-FY 2012) in a similar format as that provided in Docket 3832.

Response. Allocator HM, from my pre-filed testimony, is based on 2004-2006 costs. This was used as a proxy in place of the 2012 derivation, due to the fact that the 2012 allocation percentages varied greatly from those used in Docket 3832. I have since updated the HM, HOC and HMC allocators (See "PWSB Response to KCWA 1-13b"), based on the average of these allocations from FY 2010-2012. An excel version of the updated allocators has been forward via email. Allocators HM, HOC and HMC will be revised to reflect these updated allocation percentages in my rebuttal testimony. For reference, we have also included a hard copy of the 2004-2006 allocators used in my pre-filed testimony (See "PWSB Response to KCWA 1-13a").

PW Response to KCWA 1-13a
 Summary of Factors HM, HOC, HMC FY 2004 - 2006

	Base	Maximum Day	Maximum Hour	Meters & Services	Billing & Collection	Public Fire Protection	Wholesale
Transmission & Distribution - Salaries & Wages T&D (M) - HM							
FY 2004 Allocation	31.83%	21.01%	14.93%	24.03%	0.00%	2.48%	5.71%
FY 2005 Allocation	30.94%	20.43%	14.52%	24.16%	0.00%	2.72%	7.24%
FY 2006 Allocation	29.70%	19.61%	13.94%	25.39%	0.00%	3.63%	7.73%
Average Allocation	30.83%	20.35%	14.46%	24.53%	0.00%	2.94%	6.89%
Transmission & Distribution - Contract Services Other T&D (O) - HOC							
FY 2004 Allocation	33.96%	22.42%	15.93%	5.04%	0.00%	1.84%	20.82%
FY 2005 Allocation	34.90%	23.04%	16.38%	1.70%	0.00%	1.94%	22.03%
FY 2006 Allocation	34.34%	22.67%	16.11%	4.08%	0.00%	1.85%	20.95%
Average Allocation	34.40%	22.71%	16.14%	3.61%	0.00%	1.88%	21.26%
Transmission & Distribution - Contract Services Other T&D (M) - HMC							
FY 2004 Allocation	35.12%	23.19%	16.48%	1.00%	0.00%	1.96%	22.24%
FY 2005 Allocation	34.99%	23.10%	16.42%	1.52%	0.00%	1.94%	22.02%
FY 2006 Allocation	9.05%	5.97%	4.25%	74.73%	0.00%	0.49%	5.52%
Average Allocation	26.39%	17.42%	12.38%	25.75%	0.00%	1.46%	16.59%

Derivation of Allocation Factors HO, HM, HOC, and HMC

Actual Costs for Fiscal Year ending June 30, 2004

Allocation Factor	Total	Base	Maximum Day	Maximum Hour	Meters & Services	Billing & Collection	Public Fire Protection	Wholesale
Transmission & Distribution - Salaries & Wages T&D (M)								
Check Trench	\$ 5,328	\$ 1,885	\$ 1,245	\$ 884	\$ -	\$ -	\$ 107	\$ 1,207
Repair Trench	\$ 2,682	\$ 949	\$ 626	\$ 445	\$ -	\$ -	\$ 54	\$ 608
Exercise Valve (Scheduled)	\$ 282	\$ 100	\$ 66	\$ 47	\$ -	\$ -	\$ 6	\$ 64
Exercise Valve (Unscheduled)	\$ 3,028	\$ 1,071	\$ 707	\$ 503	\$ -	\$ -	\$ 61	\$ 686
Check Condition of Valve	\$ 2,531	\$ 895	\$ 591	\$ 420	\$ -	\$ -	\$ 51	\$ 573
Check Condition of Gate Box	\$ 1,985	\$ 702	\$ 464	\$ 330	\$ -	\$ -	\$ 40	\$ 450
Check for No/Rusty Water	\$ 5,189	\$ 2,437	\$ 1,609	\$ 1,143	\$ -	\$ -	\$ -	\$ -
Close Stop No-Payment	\$ 593	\$ -	\$ -	\$ -	\$ 593	\$ -	\$ -	\$ -
Close Stop Non-Use	\$ 1,645	\$ -	\$ -	\$ -	\$ 1,645	\$ -	\$ -	\$ -
Close Stop Repair	\$ 59,861	\$ -	\$ -	\$ -	\$ 59,861	\$ -	\$ -	\$ -
Open Stop Was Closed Non-Use	\$ 1,262	\$ -	\$ -	\$ -	\$ 1,262	\$ -	\$ -	\$ -
Open Stop Closed Repair	\$ 46,419	\$ -	\$ -	\$ -	\$ 46,419	\$ -	\$ -	\$ -
Open Stop Non-Payments	\$ 5,638	\$ -	\$ -	\$ -	\$ 5,638	\$ -	\$ -	\$ -
Mark Out	\$ 158,974	\$ 56,245	\$ 37,134	\$ 26,389	\$ -	\$ -	\$ 3,179	\$ 36,027
Open Stop (Seasonal)	\$ 1,112	\$ -	\$ -	\$ -	\$ 1,112	\$ -	\$ -	\$ -
Check Position & Condition of Stop	\$ 24,692	\$ -	\$ -	\$ -	\$ 24,692	\$ -	\$ -	\$ -
Check Condition Curb Box	\$ 2,042	\$ -	\$ -	\$ -	\$ 2,042	\$ -	\$ -	\$ -
Meter Work - Set Jump Pipe	\$ 1,117	\$ -	\$ -	\$ -	\$ 1,117	\$ -	\$ -	\$ -
Check Condition of Hydrant	\$ 33,411	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 33,411	\$ -
Open/Close/Flush Hydrant	\$ 5,715	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,715	\$ -
Assist a Truck	\$ 4,311	\$ 1,280	\$ 845	\$ 601	\$ 1,094	\$ -	\$ 156	\$ 333
Replace Covers	\$ 1,537	\$ 544	\$ 359	\$ 255	\$ -	\$ -	\$ 31	\$ 348
Yard Work	\$ 189,892	\$ 89,176	\$ 58,875	\$ 41,840	\$ -	\$ -	\$ -	\$ -
Check Leak WMWS/HYDT/L/MTR	\$ 34,794	\$ 12,310	\$ 8,127	\$ 5,776	\$ -	\$ -	\$ 696	\$ 7,885
T&D Misc.	\$ 49,881	\$ 14,816	\$ 9,782	\$ 6,951	\$ 12,664	\$ -	\$ 1,809	\$ 3,858
Shut Down Notifications	\$ 56	\$ -	\$ -	\$ -	\$ 56	\$ -	\$ -	\$ -
Leak Detection	\$ 2,582	\$ 914	\$ 603	\$ 429	\$ -	\$ -	\$ 52	\$ 585
Schedule Lag	\$ 794,172	\$ 372,956	\$ 246,231	\$ 174,985	\$ -	\$ -	\$ -	\$ -
Trench Repair	\$ 6,120	\$ 2,165	\$ 1,430	\$ 1,016	\$ -	\$ -	\$ 122	\$ 1,387
Check Trench	\$ 807	\$ 286	\$ 189	\$ 134	\$ -	\$ -	\$ 16	\$ 183
Exercise Valve - Unscheduled	\$ 135	\$ 48	\$ 32	\$ 22	\$ -	\$ -	\$ 3	\$ 31

Installed Mains/GV	F	\$ 2,798	\$ 990	\$ 653	\$ 464	\$ -	\$ -	\$ 56	\$ 634
Installed Service	C	\$ 137,446	\$ -	\$ -	\$ -	\$ 137,446	\$ -	\$ -	\$ -
Removed Service	C	\$ 6,287	\$ -	\$ -	\$ -	\$ 6,287	\$ -	\$ -	\$ -
Removed Hydrant	FP	\$ 192	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 192	\$ -
Contractor Installed Service	C	\$ 558	\$ -	\$ -	\$ -	\$ 558	\$ -	\$ -	\$ -
Replacement 105's	C	\$ 194,545	\$ -	\$ -	\$ -	\$ 194,545	\$ -	\$ -	\$ -
Maintenance Work	F	\$ 267,603	\$ 94,678	\$ 62,507	\$ 44,421	\$ -	\$ -	\$ 5,352	\$ 60,644
Operational Work	F	\$ 11,843	\$ 4,190	\$ 2,766	\$ 1,966	\$ -	\$ -	\$ 237	\$ 2,684
Removal/Installation	C	\$ 255	\$ -	\$ -	\$ -	\$ 255	\$ -	\$ -	\$ -
Total (used for Allocation factor HM)		\$2,069,317	\$ 658,637	\$ 434,841	\$ 309,021	\$ 497,285	\$ -	\$ 51,344	\$ 118,189
<i>Calculated Factor HM</i>			<i>31.83%</i>	<i>21.01%</i>	<i>14.93%</i>	<i>24.03%</i>	<i>0.00%</i>	<i>2.48%</i>	<i>5.71%</i>

Transmission & Distribution - Contract Services Other T&D (O)									
Unspecified	X2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
New Service Applications	C	\$ 3,967	\$ -	\$ -	\$ -	\$ 3,967	\$ -	\$ -	\$ -
Uniforms	X2	\$ 33,676	\$ 11,566	\$ 7,636	\$ 5,426	\$ 1,372	\$ -	\$ 622	\$ 7,053
Equipment	X2	\$ 8,927	\$ 3,066	\$ 2,024	\$ 1,438	\$ 364	\$ -	\$ 165	\$ 1,870
Repair Leak Distribution Main	F	\$ 15,657	\$ 5,539	\$ 3,657	\$ 2,599	\$ -	\$ -	\$ 313	\$ 3,548
Repair Leak on Service	C	\$ 200	\$ -	\$ -	\$ -	\$ 200	\$ -	\$ -	\$ -
Road Restoration - Contractor	F	\$ 574,097	\$ 203,115	\$ 134,099	\$ 95,298	\$ -	\$ -	\$ 11,482	\$ 130,103
Road Restoration - Force Work	F	\$ 4,230	\$ 1,497	\$ 988	\$ 702	\$ -	\$ -	\$ 85	\$ 959
Yard Work	X2	\$ 2,327	\$ 799	\$ 528	\$ 375	\$ 95	\$ -	\$ 43	\$ 487
Markouts/Dig Safe	F	\$ 33,785	\$ 11,953	\$ 7,891	\$ 5,608	\$ -	\$ -	\$ 676	\$ 7,656
Contractor Repair Leak Distribution Main	TD	\$ 23,151	\$ 10,872	\$ 7,178	\$ 5,101	\$ -	\$ -	\$ -	\$ -
Switchboard Monitoring	X2	\$ 2,982	\$ 1,024	\$ 676	\$ 480	\$ 122	\$ -	\$ 55	\$ 625
Police Details	F	\$ 64,067	\$ 22,667	\$ 14,965	\$ 10,635	\$ -	\$ -	\$ 1,281	\$ 14,519
Pages, cell phones	X2	\$ 21,145	\$ 7,262	\$ 4,794	\$ 3,407	\$ 862	\$ -	\$ 391	\$ 4,429
New Service Installation	C	\$ 34,500	\$ -	\$ -	\$ -	\$ 34,500	\$ -	\$ -	\$ -
Total (used for Allocation factor HOC)		\$ 822,710	\$ 279,359	\$ 184,437	\$ 131,071	\$ 41,481	\$ -	\$ 15,113	\$ 171,249
<i>Calculated Factor HOC</i>			<i>33.96%</i>	<i>22.42%</i>	<i>15.93%</i>	<i>5.04%</i>	<i>0.00%</i>	<i>1.84%</i>	<i>20.82%</i>

Transmission & Distribution - Contract Services Other T&D (M)									
Repair Leak Distribution Main	F	\$ 40,115	\$ 14,193	\$ 9,370	\$ 6,659	\$ -	\$ -	\$ 802	\$ 9,091
Plumbing Maintenance	X2	\$ 13,100	\$ 4,499	\$ 2,970	\$ 2,111	\$ 534	\$ -	\$ 242	\$ 2,744
Total (used for Allocation factor HMC)		\$ 53,215	\$ 18,692	\$ 12,341	\$ 8,770	\$ 534	\$ -	\$ 1,044	\$ 11,835
<i>Calculated Factor HMC</i>			<i>35.12%</i>	<i>23.19%</i>	<i>16.48%</i>	<i>1.00%</i>	<i>0.00%</i>	<i>1.96%</i>	<i>22.24%</i>

Derivation of Allocation Factors HO, HM, HOC, and HMC

Actual Costs for Fiscal Year ending June 30, 2005

Allocation Factor	Total	Base	Maximum Day	Maximum Hour	Meters & Services	Billing & Collection	Public Fire Protection	Wholesale
Transmission & Distribution - Salaries & Wages T&D (M)								
F	\$ 3,249	\$ 1,150	\$ 759	\$ 539	\$ -	\$ -	\$ 65	\$ 736
F	\$ 624	\$ 221	\$ 146	\$ 104	\$ -	\$ -	\$ 12	\$ 141
F	\$ 3,068	\$ 1,086	\$ 717	\$ 509	\$ -	\$ -	\$ 61	\$ 695
F	\$ 12,327	\$ 4,361	\$ 2,879	\$ 2,046	\$ -	\$ -	\$ 247	\$ 2,794
F	\$ 8,800	\$ 3,114	\$ 2,056	\$ 1,461	\$ -	\$ -	\$ 176	\$ 1,994
F	\$ 1,403	\$ 496	\$ 328	\$ 233	\$ -	\$ -	\$ 28	\$ 318
TD	\$ 8,759	\$ 4,113	\$ 2,716	\$ 1,930	\$ -	\$ -	\$ -	\$ -
C	\$ 134	\$ -	\$ -	\$ -	\$ 134	\$ -	\$ -	\$ -
C	\$ 5,349	\$ -	\$ -	\$ -	\$ 5,349	\$ -	\$ -	\$ -
C	\$ 58,576	\$ -	\$ -	\$ -	\$ 58,576	\$ -	\$ -	\$ -
C	\$ 524	\$ -	\$ -	\$ -	\$ 524	\$ -	\$ -	\$ -
C	\$ 719	\$ -	\$ -	\$ -	\$ 719	\$ -	\$ -	\$ -
C	\$ 50,492	\$ -	\$ -	\$ -	\$ 50,492	\$ -	\$ -	\$ -
C	\$ 2,479	\$ -	\$ -	\$ -	\$ 2,479	\$ -	\$ -	\$ -
F	\$ 308,053	\$ 108,989	\$ 71,956	\$ 51,136	\$ -	\$ -	\$ 6,161	\$ 69,811
C	\$ 1,819	\$ -	\$ -	\$ -	\$ 1,819	\$ -	\$ -	\$ -
C	\$ 150	\$ -	\$ -	\$ -	\$ 150	\$ -	\$ -	\$ -
C	\$ 16,276	\$ -	\$ -	\$ -	\$ 16,276	\$ -	\$ -	\$ -
C	\$ 2,947	\$ -	\$ -	\$ -	\$ 2,947	\$ -	\$ -	\$ -
C	\$ 571	\$ -	\$ -	\$ -	\$ 571	\$ -	\$ -	\$ -
C	\$ 1,513	\$ -	\$ -	\$ -	\$ 1,513	\$ -	\$ -	\$ -
FP	\$ 27,913	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,913	\$ -
FP	\$ 13,546	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,546	\$ -
X1	\$ 18,497	\$ 5,494	\$ 3,627	\$ 2,578	\$ 4,696	\$ -	\$ 671	\$ 1,431
F	\$ 2,327	\$ 823	\$ 544	\$ 386	\$ -	\$ -	\$ 47	\$ 527
TD	\$ 213,293	\$ 100,166	\$ 66,131	\$ 46,996	\$ -	\$ -	\$ -	\$ -
F	\$ 40,974	\$ 14,497	\$ 9,571	\$ 6,802	\$ -	\$ -	\$ 819	\$ 9,286
X1	\$ 40,550	\$ 12,045	\$ 7,952	\$ 5,651	\$ 10,295	\$ -	\$ 1,471	\$ 3,137
C	\$ 1,095	\$ -	\$ -	\$ -	\$ 1,095	\$ -	\$ -	\$ -
F	\$ 1,977	\$ 699	\$ 462	\$ 328	\$ -	\$ -	\$ 40	\$ 448
X1	\$ 75	\$ 22	\$ 15	\$ 10	\$ 19	\$ -	\$ 3	\$ 6

Lag Time	TD	\$ 662,592	\$ 311,164	\$ 205,435	\$ 145,993	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Trench Repair	F	1,506	533	352	250	-	30	-	341	-	30	-	341
Check Trench	F	6,649	2,352	1,553	1,104	-	133	-	1,507	-	133	-	1,507
Exercise Valve - Unscheduled	F	249	88	58	41	-	5	-	56	-	5	-	56
Installed Mains/GV	F	1,452	514	339	241	-	29	-	329	-	29	-	329
Installed Service	C	153,024	-	-	-	153,024	-	-	-	-	-	-	-
Installed Hydrant	FP	1,570	-	-	-	-	1,570	-	-	-	1,570	-	-
Removed Main	F	695	246	162	115	-	14	-	158	-	14	-	158
Removed Service	C	12,804	-	-	-	12,804	-	-	-	-	-	-	-
Removed Hydrant	FP	247	-	-	-	-	247	-	-	-	247	-	-
Contractor Installed Service	C	334	-	-	-	334	-	-	-	-	-	-	-
Replacement 105's	C	198,464	-	-	-	198,464	-	-	-	-	-	-	-
Contractor Replacement 105's	C	572	-	-	-	572	-	-	-	-	-	-	-
Maintenance Work	F	274,544	97,133	64,129	45,573	-	-	-	62,218	-	-	-	62,218
Operational Work	F	3,875	1,371	905	643	-	77	-	878	-	77	-	878
Removal/Installation	C	696	-	-	-	696	-	-	-	-	-	-	-
Total (used for Allocation factor HM)		\$2,167,358	\$670,677	\$442,790	\$314,670	\$523,553	24.16%	14.52%	\$156,811	7.24%	58,856	2.72%	\$156,811
Calculated Factor HM			30.94%	20.43%	14.52%	24.16%		0.00%					

Transmission & Distribution - Contract Services Other T&D (O)

Uniforms	X2	\$ 39,378	\$ 13,524	\$ 8,929	\$ 6,345	\$ 1,605	\$ -	\$ -	\$ 8,248	\$ -	\$ -	\$ -	\$ 8,248
Equipment	X2	17,526	6,019	3,974	2,824	714	-	-	3,671	-	-	-	3,671
Repair Transmission Mains 16-66"	F	22,149	7,836	5,174	3,677	-	443	-	5,019	-	443	-	5,019
Repair Leak Distribution Main	F	26,112	9,238	6,099	4,334	-	522	-	5,917	-	522	-	5,917
Leak Detection Distribution Main	F	2,400	849	561	398	-	48	-	544	-	48	-	544
Road Restoration - Contractor	F	673,124	238,151	157,230	111,736	-	13,462	-	152,544	-	13,462	-	152,544
Markouts/Dig Safe	F	35,998	12,736	8,409	5,976	-	720	-	8,158	-	720	-	8,158
Contractor Repair Leak Distribution Main	TD	7,143	3,354	2,215	1,574	-	-	-	-	-	-	-	-
Switchboard Monitoring	X2	2,575	884	584	415	105	48	-	539	-	48	-	539
Police Details	F	52,841	18,695	12,343	8,771	-	1,057	-	11,975	-	1,057	-	11,975
Pages, cell phones	X2	14,856	5,102	3,368	2,394	605	275	-	3,112	-	275	-	3,112
New Service Installation	C	12,375	-	-	-	12,375	-	-	-	-	-	-	-
Total (used for Allocation factor HOC)		\$ 906,476	\$316,389	\$208,884	\$148,444	\$15,405	1.70%	16.38%	\$199,727	22.03%	17,627	1.94%	\$199,727
Calculated Factor HOC			34.90%	23.04%	16.38%	1.70%		0.00%					

Transmission & Distribution - Contract Services Other T&D (M)

Repair Leak Distribution Main	F	\$ 16,873	\$ 5,970	\$ 3,941	\$ 2,801	\$ -	\$ -	\$ -	\$ 3,824	\$ -	\$ -	\$ -	\$ 3,824
Plumbing Maintenance	X2	10,060	3,455	2,281	1,621	410	186	-	2,107	-	186	-	2,107
Total (used for Allocation factor HMC)		\$ 26,934	\$ 9,425	\$ 6,222	\$ 4,422	\$ 410	1.52%	16.42%	\$ 5,931	22.02%	523	1.94%	\$ 5,931
Calculated Factor HMC			34.99%	23.10%	16.42%	1.52%		0.00%					

Derivation of Allocation Factors HO, HM, HOC, and HMC

Actual Costs for Fiscal Year ending June 30, 2006

Allocation Factor	Total	Base	Maximum Day	Maximum Hour	Meters & Services	Billing & Collection	Public Fire Protection	Wholesale
Transmission & Distribution - Salaries & Wages T&D (M)								
Check Trench	\$ 5,336	\$ 1,888	\$ 1,246	\$ 886	\$ -	\$ -	\$ 107	\$ 1,209
Repair Trench	\$ 624	\$ 221	\$ 146	\$ 104	\$ -	\$ -	\$ 12	\$ 141
Exercise Valve (Scheduled)	\$ 5,754	\$ 2,036	\$ 1,344	\$ 955	\$ -	\$ -	\$ 115	\$ 1,304
Exercise Valve (Unscheduled)	\$ 8,553	\$ 3,026	\$ 1,998	\$ 1,420	\$ -	\$ -	\$ 171	\$ 1,938
Check Condition of Valve	\$ 7,674	\$ 2,715	\$ 1,792	\$ 1,274	\$ -	\$ -	\$ 153	\$ 1,739
Check Condition of Gate Box	\$ 937	\$ 332	\$ 219	\$ 156	\$ -	\$ -	\$ 19	\$ 212
Check for No/Rusty Water	\$ 12,172	\$ 5,716	\$ 3,774	\$ 2,682	\$ -	\$ -	\$ -	\$ -
Close Stop No-Payment	\$ 189	\$ -	\$ -	\$ -	\$ 189	\$ -	\$ -	\$ -
Close Stop Non-Use	\$ 1,002	\$ -	\$ -	\$ -	\$ 1,002	\$ -	\$ -	\$ -
Close Stop Repair	\$ 65,121	\$ -	\$ -	\$ -	\$ 65,121	\$ -	\$ -	\$ -
Close Stop Was Closed Non-Use	\$ 751	\$ -	\$ -	\$ -	\$ 751	\$ -	\$ -	\$ -
Open Stop Closed Repair	\$ 50,648	\$ -	\$ -	\$ -	\$ 50,648	\$ -	\$ -	\$ -
Open Stop Non-Payments	\$ 5,145	\$ -	\$ -	\$ -	\$ 5,145	\$ -	\$ -	\$ -
Mark Out	\$ 308,596	\$ 109,181	\$ 72,083	\$ 51,226	\$ -	\$ -	\$ 6,172	\$ 69,934
Open Stop (Seasonal)	\$ 5,604	\$ -	\$ -	\$ -	\$ 5,604	\$ -	\$ -	\$ -
Close Stop (Demolition)	\$ 143	\$ -	\$ -	\$ -	\$ 143	\$ -	\$ -	\$ -
Check Position & Condition of Stop	\$ 10,152	\$ -	\$ -	\$ -	\$ 10,152	\$ -	\$ -	\$ -
Check Condition Curb Box	\$ 3,490	\$ -	\$ -	\$ -	\$ 3,490	\$ -	\$ -	\$ -
Meter Maintenance	\$ 662	\$ -	\$ -	\$ -	\$ 662	\$ -	\$ -	\$ -
Meter Work - Set Jump Pipe	\$ 766	\$ -	\$ -	\$ -	\$ 766	\$ -	\$ -	\$ -
Check Condition of Hydrant	\$ 34,683	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 34,683	\$ -
Open/Close/Flush Hydrant	\$ 20,892	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,892	\$ -
Assist a Truck	\$ 41,213	\$ 12,241	\$ 8,082	\$ 5,743	\$ 10,464	\$ -	\$ 1,495	\$ 3,188
Replace Covers	\$ 7,910	\$ 2,799	\$ 1,848	\$ 1,313	\$ -	\$ -	\$ 158	\$ 1,793
Yard Work	\$ 172,905	\$ 81,199	\$ 53,609	\$ 38,097	\$ -	\$ -	\$ -	\$ -
Check Leak WM/WS/HYD/T/L/MTR	\$ 51,070	\$ 18,069	\$ 11,929	\$ 8,477	\$ -	\$ -	\$ 1,021	\$ 11,574
T&D Misc.	\$ 18,838	\$ 5,595	\$ 3,694	\$ 2,625	\$ 4,783	\$ -	\$ 683	\$ 1,457
Shut Down Notifications	\$ 1,265	\$ -	\$ -	\$ -	\$ 1,265	\$ -	\$ -	\$ -
Leak Detection	\$ 11,029	\$ 3,902	\$ 2,576	\$ 1,831	\$ -	\$ -	\$ 221	\$ 2,499
Transportation & Delivery	\$ 236	\$ 70	\$ 46	\$ 33	\$ 60	\$ -	\$ 9	\$ 18
Lag Time	\$ 611,815	\$ 287,319	\$ 189,692	\$ 134,805	\$ -	\$ -	\$ -	\$ -

Trench Repair	F	2,702	\$	956	\$	631	\$	448	\$	-	\$	54	\$	612
Check Trench	F	3,830	\$	1,355	\$	895	\$	636	\$	-	\$	77	\$	868
ML Meter Leak	C	63	\$	-	\$	-	\$	-	\$	63	\$	-	\$	-
Installed Mains/GV	F	2,460	\$	871	\$	575	\$	408	\$	-	\$	49	\$	558
Installed Service	C	189,165	\$	-	\$	-	\$	-	\$	189,165	\$	-	\$	-
Installed Hydrant	FP	6,941	\$	-	\$	-	\$	-	\$	-	\$	6,941	\$	-
Removed Service	C	11,192	\$	-	\$	-	\$	-	\$	11,192	\$	-	\$	-
Contractor Installed Service	C	298	\$	-	\$	-	\$	-	\$	298	\$	-	\$	-
Replacement 105's	C	192,465	\$	-	\$	-	\$	-	\$	192,465	\$	-	\$	-
Contractor Replacement 105's	C	92	\$	-	\$	-	\$	-	\$	92	\$	-	\$	-
Maintenance Work	F	298,142	\$	105,482	\$	69,641	\$	49,490	\$	-	\$	5,963	\$	67,565
Operational Work	F	10,016	\$	3,544	\$	2,340	\$	1,663	\$	-	\$	200	\$	2,270
Removal/Installation	C	819	\$	-	\$	-	\$	-	\$	819	\$	-	\$	-
Total (used for Allocation factor HM)		\$2,183,356		\$648,515		\$428,158		\$304,272		\$554,335		\$79,195		\$168,880
<i>Calculated Factor HM</i>				<i>29.70%</i>		<i>19.61%</i>		<i>13.94%</i>		<i>25.39%</i>		<i>3.63%</i>		<i>7.73%</i>

Transmission & Distribution - Contract Services Other T&D (O)														
Unspecified	X2	119,021	\$	40,876	\$	26,987	\$	19,178	\$	4,851	\$	2,200	\$	24,929
New Service Applications	C	33,091	\$	-	\$	-	\$	-	\$	33,091	\$	-	\$	-
Uniforms	X2	34,535	\$	11,860	\$	7,830	\$	5,565	\$	1,408	\$	638	\$	7,233
Equipment	X2	15,900	\$	5,461	\$	3,605	\$	2,562	\$	648	\$	294	\$	3,330
Repair Leak on Service	C	1,000	\$	-	\$	-	\$	-	\$	1,000	\$	-	\$	-
Road Restoration - Contractor	F	663,854	\$	234,871	\$	155,065	\$	110,197	\$	-	\$	13,277	\$	150,443
Road Restoration - Force Work	F	4,726	\$	1,672	\$	1,104	\$	784	\$	-	\$	95	\$	1,071
Markouts/Dig Safe	F	33,913	\$	11,998	\$	7,921	\$	5,629	\$	-	\$	678	\$	7,685
Contractor Repair Leak Distribution Main	TD	29,287	\$	13,753	\$	9,080	\$	6,453	\$	-	\$	-	\$	-
Switchboard Monitoring	X2	3,294	\$	1,131	\$	747	\$	531	\$	134	\$	61	\$	690
Police Details	F	70,600	\$	24,978	\$	16,491	\$	11,719	\$	-	\$	1,412	\$	15,999
Pages, cell phones	X2	19,133	\$	6,571	\$	4,338	\$	3,083	\$	780	\$	354	\$	4,007
Total (used for Allocation factor HOC)		\$1,028,353		\$353,172		\$233,169		\$165,702		\$41,911		\$19,009		\$215,389
<i>Calculated Factor HOC</i>				<i>34.34%</i>		<i>22.67%</i>		<i>16.11%</i>		<i>4.08%</i>		<i>1.85%</i>		<i>20.95%</i>

Transmission & Distribution - Contract Services Other T&D (M)														
Repair Leak on Service	C	27,790	\$	-	\$	-	\$	-	\$	27,790	\$	-	\$	-
Plumbing Maintenance	X2	9,941	\$	3,414	\$	2,254	\$	1,602	\$	405	\$	184	\$	2,082
Total (used for Allocation factor HMC)		\$37,731		\$3,414		\$2,254		\$1,602		\$28,195		\$184		\$2,082
<i>Calculated Factor HMC</i>				<i>9.05%</i>		<i>5.97%</i>		<i>4.25%</i>		<i>74.73%</i>		<i>0.49%</i>		<i>5.52%</i>

PWSB Response to KCWA 1-13b
Update of Factors HM, HOC and HMC

	Base	Maximum Day	Maximum Hour	Meters & Services	Billing & Collection	Public Fire Protection	Wholesale
Transmission & Distribution - Salaries & Wages T&D (M) - HM							
FY 2010 Allocation	25.22%	16.74%	11.77%	29.65%	0.00%	8.42%	8.20%
FY 2011 Allocation	25.22%	16.74%	11.77%	24.22%	0.00%	12.12%	9.94%
FY 2012 Allocation	23.96%	15.90%	11.18%	25.88%	0.00%	12.51%	10.57%
Average Allocation	24.80%	16.46%	11.57%	26.58%	0.00%	11.01%	9.57%
Transmission & Distribution - Contract Services Other T&D (O) - HOC							
FY 2010 Allocation	35.28%	23.41%	16.47%	0.27%	0.00%	1.91%	22.66%
FY 2011 Allocation	35.59%	23.60%	16.62%	0.70%	0.00%	1.83%	21.65%
FY 2012 Allocation	34.77%	23.06%	16.24%	0.45%	0.00%	1.98%	23.50%
Average Allocation	35.21%	23.36%	16.44%	0.48%	0.00%	1.91%	22.60%
Transmission & Distribution - Contract Services Other T&D (M) - HMC							
FY 2010 Allocation	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%
FY 2011 Allocation	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%
FY 2012 Allocation	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%
Average Allocation	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%

PWSB Response to KCWA 1-13b
Update of Factors HM, HOC and HMC
FY 2010

Allocation	Factor	Total						
		3	4	5	6	7	8	9
		Base	Maximum Day	Maximum Hour	Meters & Services	Billing & Collection	Public Fire Protection	Wholesale
	F	\$905	\$209	\$147	\$0	\$0	\$18	\$216
	C	\$229	\$0	\$0	\$229	\$0	\$0	\$0
	FP	\$7,178	\$0	\$0	\$0	\$0	\$7,178	\$0
	FP	\$22,244	\$0	\$0	\$0	\$0	\$22,244	\$0
	FP	\$3,122	\$0	\$0	\$0	\$0	\$3,122	\$0
	FP	\$1,776	\$0	\$0	\$0	\$0	\$1,776	\$0
	FP	\$22,675	\$0	\$0	\$0	\$0	\$22,675	\$0
	FP	\$412	\$0	\$0	\$0	\$0	\$412	\$0
	FP	\$12,249	\$0	\$0	\$0	\$0	\$12,249	\$0
	F	\$40	\$9	\$7	\$0	\$0	\$1	\$10
	F	\$40	\$9	\$7	\$0	\$0	\$1	\$10
	F	\$3,642	\$842	\$592	\$0	\$0	\$73	\$867
	F	\$926	\$214	\$151	\$0	\$0	\$19	\$221
	F	\$53,416	\$12,346	\$8,680	\$0	\$0	\$1,068	\$12,721
	C	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	C	\$5,846	\$0	\$0	\$5,846	\$0	\$0	\$0
	C	\$283	\$0	\$0	\$283	\$0	\$0	\$0
	C	\$76,805	\$0	\$0	\$76,805	\$0	\$0	\$0
	C	\$26,569	\$0	\$0	\$26,569	\$0	\$0	\$0
	C	\$21,115	\$0	\$0	\$21,115	\$0	\$0	\$0
	C	\$25,254	\$0	\$0	\$25,254	\$0	\$0	\$0
	C	\$7,442	\$0	\$0	\$7,442	\$0	\$0	\$0
	C	\$1,547	\$0	\$0	\$1,547	\$0	\$0	\$0
	C	\$442	\$0	\$0	\$442	\$0	\$0	\$0
	C	\$13,076	\$0	\$0	\$13,076	\$0	\$0	\$0
	C	\$426	\$0	\$0	\$426	\$0	\$0	\$0
	C	\$16,825	\$0	\$0	\$16,825	\$0	\$0	\$0
	C	\$10,735	\$0	\$0	\$10,735	\$0	\$0	\$0
	C	\$2,077	\$0	\$0	\$2,077	\$0	\$0	\$0
	C	\$1,795	\$0	\$0	\$1,795	\$0	\$0	\$0
	C	\$83	\$0	\$0	\$83	\$0	\$0	\$0
	C	\$19,249	\$0	\$0	\$19,249	\$0	\$0	\$0
	C	\$9,466	\$0	\$0	\$9,466	\$0	\$0	\$0
	C	\$51,231	\$0	\$0	\$51,231	\$0	\$0	\$0
	C	\$3,234	\$0	\$0	\$3,234	\$0	\$0	\$0
	F	\$1,330	\$463	\$216	\$0	\$0	\$27	\$317
	F	\$76	\$26	\$12	\$0	\$0	\$2	\$18
	F	\$11,186	\$3,895	\$1,818	\$0	\$0	\$224	\$2,664
	F	\$642	\$224	\$148	\$0	\$0	\$13	\$153
	F	\$1,335	\$465	\$232	\$0	\$0	\$27	\$318
	F	\$14,323	\$4,988	\$2,328	\$0	\$0	\$286	\$3,411
	F	\$1,802	\$627	\$293	\$0	\$0	\$36	\$429
	F	\$2,406	\$838	\$391	\$0	\$0	\$48	\$573
	F	\$14,991	\$5,220	\$2,436	\$0	\$0	\$300	\$3,570
	F	\$1,012	\$352	\$164	\$0	\$0	\$20	\$241
	F	\$1,549	\$540	\$358	\$0	\$0	\$31	\$369
	F	\$2,296	\$799	\$373	\$0	\$0	\$46	\$547
	F	\$10,390	\$3,618	\$1,688	\$0	\$0	\$208	\$2,474
	F	\$16,656	\$5,800	\$2,707	\$0	\$0	\$333	\$3,967

F	CHECK CONDITION OF VALVE	\$30,490	\$10,617	\$7,047	\$4,955	\$0	\$610	\$7,261
F	CHECK CONDITION OF GATE BOX	\$2,923	\$1,018	\$676	\$475	\$0	\$58	\$696
TD	CHECK FOR NO RUSTY WATER	\$7,193	\$3,376	\$2,241	\$1,576	\$0	\$0	\$0
C	CLOSE STOP-NO PAYMENT	\$231	\$0	\$0	\$231	\$0	\$0	\$0
C	CLOSE STOP-NONUSE	\$1,968	\$0	\$0	\$0	\$0	\$0	\$0
C	CLOSE STOP REPAIR	\$40,751	\$0	\$0	\$0	\$1,968	\$0	\$0
C	OPEN STOP WAS CLOSED NON-USE	\$290	\$0	\$0	\$0	\$40,751	\$0	\$0
C	OPEN STOP CLOSED REPAIR	\$28,651	\$0	\$0	\$0	\$290	\$0	\$0
C	OPEN STOP NON-PAYMENTS	\$11,089	\$0	\$0	\$0	\$28,651	\$0	\$0
F	MARK OUT	\$173,831	\$60,530	\$40,178	\$28,248	\$0	\$0	\$0
C	OPEN STOP SEASONAL	\$105	\$0	\$0	\$0	\$11,089	\$3,477	\$41,398
C	CLOSE STOP DEMOLITION	\$821	\$0	\$0	\$0	\$105	\$0	\$0
C	CHECK POSITION AND CONDITION OF STOP	\$3,422	\$0	\$0	\$0	\$821	\$0	\$0
C	CHECK CONDITION OF CURB BOX	\$3,246	\$0	\$0	\$0	\$3,422	\$0	\$0
TD	CHECK WATER QUALITY ISSUES	\$19,335	\$9,076	\$6,024	\$4,235	\$0	\$0	\$0
C	METER WORK SET JUMP PIPE	\$278	\$0	\$0	\$0	\$0	\$0	\$0
FP	CHECK CONDITION OF HYDRANT	\$22,257	\$0	\$0	\$0	\$278	\$22,257	\$0
FP	OPEN/CLOSE/FLUSH HYDRANT	\$10,197	\$0	\$0	\$0	\$0	\$10,197	\$0
XI	ASSIST A TRUCK	\$2,866	\$651	\$562	\$399	\$728	\$104	\$222
F	REPLACE COVERS	\$2,847	\$991	\$658	\$463	\$0	\$57	\$678
TD	YARD WORK	\$85,070	\$39,931	\$26,505	\$18,635	\$0	\$0	\$0
F	CHECK LEAK	\$35,821	\$12,473	\$8,279	\$5,821	\$0	\$716	\$8,531
XI	T&D MISCELLANEOUS	\$28,244	\$8,389	\$5,539	\$3,936	\$7,171	\$1,024	\$2,185
C	SHUT DOWN NOTIFICATIONS	\$2,859	\$0	\$0	\$0	\$2,859	\$0	\$0
F	LEAK DETECTION	\$9,765	\$3,400	\$2,257	\$1,587	\$0	\$195	\$2,325
XI	TRANSPORTATION AND DELIVERY	\$594	\$176	\$116	\$83	\$151	\$22	\$46
TD	LAG TIME	\$251,623	\$118,108	\$78,396	\$55,118	\$0	\$0	\$0
F	TRENCH REPAIR	\$30,648	\$10,672	\$7,084	\$4,980	\$0	\$613	\$7,299
F	CHECK TRENCH	\$23,892	\$8,319	\$5,522	\$3,882	\$0	\$478	\$5,690
HM		\$1,333,656	\$336,318.13	\$223,203.37	\$156,975.61	\$395,489.47	\$112,243.88	\$109,425.32
			25.22%	16.74%	11.77%	29.65%	8.42%	8.20%

Transmission & Distribution - Contract Services Other T&D (O)								
X2	Unspecified	\$5,261	\$1,807	\$1,193	\$848	\$214	\$97	\$1,102
C	New Service Applications		\$0	\$0	\$0	\$0	\$0	\$0
X2	Uniforms	\$39,126	\$13,437	\$8,871	\$6,304	\$1,595	\$723	\$8,195
X2	Equipment		\$0	\$0	\$0	\$0	\$0	\$0
C	Repair Leak on Service		\$0	\$0	\$0	\$0	\$0	\$0
F	Road Restoration - Contractor	\$611,183	\$212,822	\$141,264	\$99,319	\$0	\$12,224	\$145,554
F	Road Restoration - Force Work		\$0	\$0	\$0	\$0	\$0	\$0
F	Markouts/Dig Safe	\$41,858	\$14,575	\$9,675	\$6,802	\$0	\$837	\$9,968
TD	Contractor Repair Leak Distribution Main	\$33,246	\$15,605	\$10,358	\$7,283	\$0	\$0	\$0
X2	Switchboard Monitoring	\$85,247	\$29,684	\$19,703	\$13,853	\$0	\$0	\$0
F	Police Details	\$11,252	\$3,864	\$2,551	\$1,813	\$459	\$1,705	\$20,302
X2	Pages, cell phones	\$827,171	\$291,794	\$193,616	\$136,222	\$2,268	\$208	\$2,357
HOC	Total (used for Allocation factor HOC)		35.28%	23.41%	16.47%	0.27%	\$15,794	\$187,478
							1.91%	22.66%

Transmission & Distribution - Contract Services Other T&D (M)								
C	Repair Leak on Service	\$36,120	\$0	\$0	\$0	\$36,120	\$0	\$0
X2	Plumbing Maintenance	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HM	Total (used for Allocation factor HMC)	\$36,120	\$0	\$0	\$0	\$36,120	\$0	\$0
			0.00%	0.00%	0.00%	100.00%	0.00%	0.00%

Calculated Factor HMC

PWSB Response to KCWA 1-13b
Update of Factors HM, HOC and HMC
FY 2011

Allocation	Factor	Total						
		3	4	5	6	7	8	9
		Base	Maximum Day	Maximum Hour	Meters & Services	Billing & Collection	Public Fire Protection	Wholesale
	Transmission & Distribution - Salaries & Wages T&D (M)							
	TD COVER-REPLACE SERVICE/VALVE	255	\$0	\$0	\$255	\$0	\$0	\$0
	TD HYDRANT-INSTALL CUSTODIAN	1,325	\$0	\$0	\$0	\$0	\$1,325	\$0
	TD HYDRANT-INSTALL IFR	38,351	\$0	\$0	\$0	\$0	\$38,351	\$0
	TD HYDRANT-MAINTENANCE	1,904	\$0	\$0	\$0	\$0	\$1,904	\$0
	TD HYDRANT-REMOVAL IFR	38,626	\$0	\$0	\$0	\$0	\$38,626	\$0
	TD HYDRANT-REPAIR	16,838	\$0	\$0	\$0	\$0	\$16,838	\$0
	TD MAIN-BLOW OFF	2,905	\$1,011	\$472	\$0	\$0	\$588	\$692
	TD MAIN-REMOVAL T&D OPER		\$0	\$0	\$0	\$0	\$0	\$0
	TD MAIN-REPAIR LEAK ON A MAIN	66,712	\$15,419	\$10,841	\$0	\$0	\$1,334	\$15,888
	TD SERVICE-ADJUST BOX TO GRADE	5,824	\$0	\$0	\$5,824	\$0	\$0	\$0
	TD SERVICE-DIG UP CURBBOX	30,590	\$0	\$0	\$30,590	\$0	\$0	\$0
	TD SERVICE-DIG UP FOR METER	2,207	\$0	\$0	\$2,207	\$0	\$0	\$0
	TD SERVICE-INSTALL 1" DOM/FIRE	25,691	\$0	\$0	\$25,691	\$0	\$0	\$0
	TD SERVICE-INSTALL 1" IFR	23,100	\$0	\$0	\$23,100	\$0	\$0	\$0
	TD SERVICE-INSTALL 1.5"	3,830	\$0	\$0	\$3,830	\$0	\$0	\$0
	TD SERVICE-INSTALL 1.5" IFR	1,013	\$0	\$0	\$1,013	\$0	\$0	\$0
	TD SERVICE-INSTALL 12"	1,899	\$0	\$0	\$1,899	\$0	\$0	\$0
	TD SERVICE-INSTALL 2" DOM/FIRE	12,084	\$0	\$0	\$12,084	\$0	\$0	\$0
	TD SERVICE-INSTALL 2" IFR	1,684	\$0	\$0	\$1,684	\$0	\$0	\$0
	TD SERVICE-INSTALL 4" DOM/FIRE	13,991	\$0	\$0	\$13,991	\$0	\$0	\$0
	TD SERVICE-INSTALL 6" DOM/FIRE	11,955	\$0	\$0	\$11,955	\$0	\$0	\$0
	TD SERVICE-INSTALL 8" DOM/FIRE	8,398	\$0	\$0	\$8,398	\$0	\$0	\$0
	TD SERVICE-LOCATE STOP	84	\$0	\$0	\$84	\$0	\$0	\$0
	TD SERVICE-REMOVAL FIRE OPER	1,459	\$0	\$0	\$1,459	\$0	\$0	\$0
	TD SERVICE-REMOVAL IFR	20,853	\$4,820	\$3,389	\$0	\$0	\$417	\$4,966
	TD SERVICE-REMOVAL T&D OPER	9,564	\$2,211	\$1,554	\$0	\$0	\$191	\$2,278
	TD SERVICE-REPAIR LEAK	57,476	\$0	\$0	\$57,476	\$0	\$0	\$0
	TD T&D-MISCELLANEOUS MAINT.	7,832	\$0	\$0	\$7,832	\$0	\$0	\$0
	TD VALVE-ADJUST GATE BOX	3,679	\$850	\$598	\$0	\$0	\$74	\$876
	TD VALVE-INSTALL 6" IFR	14,751	\$3,409	\$2,397	\$0	\$0	\$295	\$3,513
	TD VALVE-INSTALL 8" IFR	4,901	\$1,133	\$796	\$0	\$0	\$98	\$1,167
	TD VALVE-LOCATE	642	\$224	\$104	\$0	\$0	\$13	\$153
	TD VALVE-REMOVAL IFR	288	\$67	\$47	\$0	\$0	\$6	\$69
	TD VALVE-REPAIR/REPACK	6,442	\$1,489	\$1,047	\$0	\$0	\$129	\$1,534
	Dig Safe Program	11,749	\$2,716	\$1,909	\$0	\$0	\$235	\$2,798
	105CT CHECK TRENCH	228,959	\$52,920	\$37,207	\$0	\$0	\$4,579	\$54,527
	REPAIR TRENCH	2,427	\$845	\$394	\$0	\$0	\$49	\$578
	LOCATE VALVE	4,102	\$948	\$667	\$0	\$0	\$62	\$977
	EXERCISE VALVE	7,523	\$1,739	\$1,223	\$0	\$0	\$150	\$1,792
	CHECK CONDITION OF VALVE	14,222	\$3,287	\$2,311	\$0	\$0	\$284	\$3,387
	CHECK CONDITION OF GATE BOX	17,151	\$3,964	\$2,787	\$0	\$0	\$343	\$4,084
	CHECK FOR NO RUSTY WATER	1,143	\$264	\$186	\$0	\$0	\$23	\$272
	CLOSE STOP-NO PAYMENT	11,063	\$3,447	\$2,423	\$0	\$0	\$0	\$0
	CLOSE STOP-NONUSE	324	\$0	\$0	\$324	\$0	\$0	\$0
	CLOSE STOP REPAIR	1,964	\$0	\$0	\$1,964	\$0	\$0	\$0
	CLOSE STOP SEASONAL	42,841	\$0	\$0	\$42,841	\$0	\$0	\$0
		0	\$0	\$0	\$0	\$0	\$0	\$0

OPEN STOP WAS CLOSED NON-USE	C	125	\$0	\$0	\$0	\$0	\$125	\$0	\$0	\$0	\$0
OPEN STOP CLOSED REPAIR	C	27,088	\$0	\$0	\$0	\$27,088	\$0	\$0	\$0	\$0	\$0
OPEN STOP NON-PAYMENTS	C	6,315	\$0	\$0	\$0	\$6,315	\$0	\$0	\$0	\$0	\$0
MARK OUT	F	26,358	\$9,178	\$6,092	\$4,283	\$0	\$0	\$0	\$0	\$6,277	\$0
OPEN STOP SEASONAL	C	314	\$0	\$0	\$0	\$314	\$0	\$0	\$0	\$0	\$0
CLOSE STOP DEMOLITION	C	307	\$0	\$0	\$0	\$307	\$0	\$0	\$0	\$0	\$0
CHECK POSITION AND CONDITION OF STOP	C	9,740	\$0	\$0	\$0	\$9,740	\$0	\$0	\$0	\$0	\$0
CHECK CONDITION OF CURB BOX	C	1,624	\$0	\$0	\$0	\$1,624	\$0	\$0	\$0	\$0	\$0
CHECK WATER QUALITY ISSUES	TD	19,001	\$8,919	\$5,920	\$4,162	\$0	\$0	\$0	\$0	\$0	\$0
METER MAINTENANCE	C	102	\$0	\$0	\$0	\$102	\$0	\$0	\$0	\$0	\$0
METER WORK SET JUMP PIPE	C	163	\$0	\$0	\$0	\$163	\$0	\$0	\$0	\$0	\$0
CHECK CONDITION OF HYDRANT	FP	35,040	\$0	\$0	\$0	\$35,040	\$0	\$0	\$0	\$0	\$0
OPEN/CLOSE/FLUSH HYDRANT	FP	11,959	\$0	\$0	\$0	\$11,959	\$0	\$0	\$0	\$0	\$0
ASSIST A TRUCK	XI	3,440	\$1,022	\$675	\$479	\$873	\$0	\$0	\$125	\$266	\$0
REPLACE COVERS	F	2,793	\$973	\$646	\$454	\$0	\$0	\$0	\$56	\$665	\$0
YARD WORK	TD	39,704	\$18,637	\$12,370	\$8,697	\$0	\$0	\$0	\$0	\$0	\$0
CHECK LEAK	F	39,160	\$13,636	\$9,051	\$6,364	\$0	\$0	\$0	\$783	\$9,326	\$0
T&D MISCELLANEOUS	XI	33,416	\$9,926	\$6,553	\$4,657	\$8,484	\$0	\$0	\$1,212	\$2,585	\$0
SHUT DOWN NOTIFICATIONS	C	1,729	\$0	\$0	\$0	\$1,729	\$0	\$0	\$0	\$0	\$0
LEAK DETECTION	F	6,873	\$2,393	\$1,589	\$1,117	\$0	\$0	\$0	\$137	\$1,637	\$0
TRANSPORTATION AND DELIVERY	XI	485	\$144	\$95	\$68	\$123	\$0	\$0	\$18	\$37	\$0
LAG TIME	TD	208,282	\$97,765	\$64,893	\$45,625	\$0	\$0	\$0	\$0	\$0	\$0
TRENCH REPAIR	F	18,617	\$6,483	\$4,303	\$3,025	\$3,025	\$0	\$0	\$372	\$4,434	\$0
CHECK TRENCH	F	12,972	\$4,517	\$2,998	\$2,108	\$0	\$0	\$0	\$259	\$3,089	\$0
SNOW REMOVAL	XI	601	\$178	\$118	\$84	\$153	\$0	\$0	\$22	\$46	\$0
		1,286,831	324,520.92	215,366.18	151,474.76	311,640.32	0.00	155,914.73	12.12%	127,913.89	9.94%
35	Calculated Factor HM		25.22%	16.74%	11.77%	24.22%	0.00%				

Transmission & Distribution - Contract Services Other T&D (O)

Unspecified	X2	1,053	\$362	\$239	\$170	\$43	\$0	\$19	\$220	\$0	\$0
New Service Applications	C		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Uniforms	X2	44,798	\$15,385	\$10,157	\$7,218	\$1,826	\$0	\$828	\$9,383	\$0	\$0
Equipment	X2	9,916	\$3,406	\$2,248	\$1,598	\$404	\$0	\$183	\$2,077	\$0	\$0
Repair Leak on Service	C		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Road Restoration - Contractor	F	179,156	\$62,384	\$41,409	\$29,113	\$0	\$0	\$3,683	\$42,666	\$0	\$0
Road Restoration - Force Work	F		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Markouts/Dig Safe	F	37,311	\$12,992	\$8,624	\$6,063	\$0	\$0	\$746	\$8,886	\$0	\$0
Contractor Repair Leak Distribution Main	TD	26,444	\$12,412	\$8,239	\$5,793	\$0	\$0	\$0	\$0	\$0	\$0
Switchboard Monitoring	X2		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Police Details	F	68,521	\$23,860	\$15,837	\$11,135	\$0	\$0	\$1,370	\$16,318	\$0	\$0
Pages, cell phones	X2	9,197	\$3,159	\$2,085	\$1,482	\$375	\$0	\$170	\$1,926	\$0	\$0
Total (used for Allocation factor HOC)		376,395	\$133,960	\$88,839	\$62,572	\$2,648	\$0	\$6,901	\$81,477	\$0	\$0
	Calculated Factor HOC		35.59%	23.60%	16.62%	0.70%	0.00%		1.83%		21.65%

Transmission & Distribution - Contract Services Other T&D (M)

Repair Leak on Service	C	20,043	\$0	\$0	\$0	\$20,043	\$0	\$0	\$0	\$0	\$0
Plumbing Maintenance	X2	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total (used for Allocation factor HMC)		20,043	\$0	\$0	\$0	\$20,043	\$0	\$0	\$0	\$0	\$0
	Calculated Factor HMC		0.00%	0.00%	0.00%	100.00%	0.00%		0.00%		0.00%

PWSB Response to KCWA 1-13b
Update of Factors HM, HOC and HMC
FY 2012

Allocation Factor	Total	Base	Maximum Day	Maximum Hour	Meters & Services	Billing & Collection	Public Fire Protection	Wholesale
(Labor Costs)								
FP	0	-	-	-	-	-	-	-
TD HYDRANT-REMOVAL T&D OPER	1,227	427	284	199	-	-	25	292
TD MAIN-REMOVAL T&D OPER	15,752	-	-	-	15,752	-	-	-
TD SERVICE-REMOVAL T&D OPER	389	135	90	63	-	-	8	93
TD VALVE-REMOVAL T&D OPER	2,303	802	532	374	-	-	46	548
TD BLOWOFF-INSTALL IFR	41,398	-	-	-	-	-	41,398	-
TD HYDRANT-INSTALL IFR	0	-	-	-	-	-	-	-
TD MAIN-INSTALL SECTION IFR	519	181	120	84	-	-	10	124
TD BLOWOFF-REMOVAL IFR	37,882	-	-	-	-	-	37,882	-
TD HYDRANT-REMOVAL IFR	1,122	391	259	182	-	-	22	267
TD MAIN-REMOVAL SECTION IFR	38,540	-	-	-	-	-	-	-
TD SERVICE-REMOVAL IFR	19,722	6,867	4,568	3,205	38,340	-	394	4,697
TD VALVE-REMOVAL IFR	34,074	-	-	-	34,074	-	-	-
TD SERVICE-INSTALL 1" IFR	1,130	-	-	-	1,130	-	-	-
TD SERVICE-INSTALL 1.5" IFR	450	-	-	-	450	-	-	-
TD SERVICE-INSTALL 2" IFR	2,011	700	465	327	-	-	40	479
TD VALVE-INSTALL 12" IFR	9,574	3,334	2,213	1,556	-	-	191	2,280
TD VALVE-INSTALL 6" IFR	4,618	1,608	1,067	750	-	-	92	1,100
TD VALVE-INSTALL 8" IFR	1,739	605	402	283	-	-	35	414
TD BLOWOFF/BYPASS-INSTALL NEW	1,167	406	270	190	-	-	23	278
TD VALVE-INSTALL 6" NEW	22,931	-	-	-	22,931	-	-	-
TD SERVICE-INSTALL 1" DOM/IFR	7,263	-	-	-	7,263	-	-	-
TD SERVICE-INSTALL 1.5"	11,747	-	-	-	11,747	-	-	-
TD SERVICE-INSTALL 2" DOM/IFR	9,148	-	-	-	9,148	-	-	-
TD SERVICE-INSTALL 4" DOM/IFR	8,867	-	-	-	8,867	-	-	-
TD SERVICE-INSTALL 6" DOM/IFR	10,424	-	-	-	-	-	10,424	-
TD HYDRANT-INSTALL CUSTODIAN	0	-	-	-	-	-	-	-
TD HYDRANT-INSTALL NEW	937	-	-	-	-	-	937	-
TD HYDRANT-RELOCATE EXISTING	45	16	10	7	-	-	1	11
TD VALVE-EXERCISE (SCHEDULED)	298	104	69	48	-	-	6	71
TD VALVE-LOCATE	26,284	9,152	6,075	4,271	-	-	526	6,259
TD VALVE-ADJUST GATE BOX	30,577	10,647	7,067	4,969	-	-	612	7,282
TD VALVE-REPAIR/REPACK	47,270	16,460	10,926	7,681	-	-	945	11,257
TD MAIN-REPAIR LEAK ON A MAIN	1,450	505	335	236	-	-	29	345
TD BLOWOFF-REPAIR/LOCATE	721	-	-	-	721	-	-	-
TD SERVICE-CLOSE FOR REPAIR	8,182	-	-	-	8,182	-	-	-
TD SERVICE-ADJUST BOX TO GRADE	36,027	-	-	-	36,027	-	-	-
TD SERVICE-DIG UP CURBBOX	1,797	-	-	-	1,797	-	-	-
TD SERVICE-DIG UP FOR METER	726	-	-	-	726	-	-	-
TD SERVICE-LOCATE STOP	3,403	1,185	786	553	-	-	68	810
TD MAIN-BLOW OFF	57,001	-	-	-	57,001	-	-	-
TD SERVICE-REPAIR LEAK	8,303	-	-	-	8,303	-	-	-
TD SERVICE-REPLACE/REPAIR STOP	2,730	-	-	-	-	-	2,730	-
TD HYDRANT-MAINTENANCE	13,779	-	-	-	-	-	13,779	-
TD HYDRANT-REPAIR	2,574	-	-	-	2,574	-	-	-
TD COVER-REPLACE SERVICE/VALVE	649	226	150	105	-	-	13	154
TD LEAK-CHECK ON VL.WS.WMLHY	3,332	1,160	770	541	-	-	67	793
TD T&D-MISCELLANEOUS MAINT.	303,330	105,623	70,109	49,292	-	-	6,067	72,238
TD DIG SAFE PROGRAM	5,090	1,772	1,177	827	-	-	102	1,212
105 CT CHECK TRENCH	9,142	3,183	2,113	1,486	-	-	183	2,177
105RT REPAIR TRENCH								

TD	WATER QUALITY ISSUES	11,777	\$	5,528	\$	3,669	\$	2,680	\$	-	\$	-	-	\$	-	-	-	-	-	-
F	LOCATE VALVE	15,149	\$	5,275	\$	3,501	\$	2,462	\$	-	\$	303	\$	-	\$	3,608	\$	-	\$	-
F	EXERCISE VALVE	12,503	\$	4,354	\$	2,890	\$	2,032	\$	-	\$	250	\$	-	\$	2,978	\$	-	\$	-
F	CHECK CONDITION OF VALVE	28,037	\$	9,763	\$	6,480	\$	4,556	\$	-	\$	561	\$	-	\$	6,677	\$	-	\$	-
F	CHECK CONDITION OF GATE BOX	3,392	\$	1,181	\$	784	\$	551	\$	-	\$	68	\$	-	\$	808	\$	-	\$	-
TD	CHECK FOR NO RUSTY WATER	8,872	\$	4,164	\$	2,764	\$	1,943	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
C	CLOSE STOP-NO PMT	115	\$	-	\$	-	\$	-	\$	115	\$	-	\$	-	\$	-	\$	-	\$	-
C	CLOSE STOP-NON USE	1,478	\$	-	\$	-	\$	-	\$	1,478	\$	-	\$	-	\$	-	\$	-	\$	-
C	CLOSE STOP-REPAIR	39,060	\$	-	\$	-	\$	-	\$	39,060	\$	-	\$	-	\$	-	\$	-	\$	-
C	OPEN STOP CLOSED-NON USE	681	\$	-	\$	-	\$	-	\$	681	\$	-	\$	-	\$	-	\$	-	\$	-
C	OPEN STOP CLOSED-REPAIR	29,774	\$	-	\$	-	\$	-	\$	29,774	\$	-	\$	-	\$	-	\$	-	\$	-
C	OPEN STOP-NON PAYMENTS	10,175	\$	-	\$	-	\$	-	\$	10,175	\$	-	\$	-	\$	-	\$	-	\$	-
F	MARK OUT	22,655	\$	7,889	\$	5,236	\$	3,682	\$	-	\$	463	\$	-	\$	5,395	\$	-	\$	-
C	CLOSE STOP-DEMOLITION	1,063	\$	-	\$	-	\$	-	\$	1,063	\$	-	\$	-	\$	-	\$	-	\$	-
C	CHECK POSITION AND CONDITION OF STOP	13,417	\$	-	\$	-	\$	-	\$	13,417	\$	-	\$	-	\$	-	\$	-	\$	-
C	CHECK CONDITION-CURB BOX	1,812	\$	-	\$	-	\$	-	\$	1,812	\$	-	\$	-	\$	-	\$	-	\$	-
TD	CHECK WATER QUALITY ISSUES	27,117	\$	12,728	\$	8,449	\$	5,940	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
C	METER MAINTENANCE	65	\$	-	\$	-	\$	-	\$	65	\$	-	\$	-	\$	-	\$	-	\$	-
C	METER WORK-SET JUMP PIPE	229	\$	-	\$	-	\$	-	\$	229	\$	-	\$	-	\$	-	\$	-	\$	-
FP	CHECK CONDITION OF HYDRANT	36,198	\$	-	\$	-	\$	-	\$	-	\$	36,198	\$	-	\$	-	\$	-	\$	-
FP	OPEN/CLOSE/FLUSH HYDRANT	23,025	\$	-	\$	-	\$	-	\$	-	\$	23,025	\$	-	\$	-	\$	-	\$	-
X1	ASSIST A TRUCK	5,393	\$	1,602	\$	1,057	\$	752	\$	1,368	\$	-	\$	196	\$	417	\$	-	\$	-
F	REPLACE COVERS	2,963	\$	1,032	\$	685	\$	481	\$	-	\$	59	\$	-	\$	706	\$	-	\$	-
TD	YARD WORK	869	\$	408	\$	271	\$	190	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
F	CHECK LEAK	36,186	\$	12,600	\$	8,364	\$	5,880	\$	-	\$	724	\$	-	\$	8,618	\$	-	\$	-
X1	T&D MSC.	23,092	\$	6,859	\$	4,528	\$	3,218	\$	-	\$	838	\$	-	\$	1,786	\$	-	\$	-
C	SHUT DOWN NOTIFICATIONS	2,283	\$	-	\$	-	\$	-	\$	2,283	\$	-	\$	-	\$	-	\$	-	\$	-
F	LEAK DETECTION	3,825	\$	1,332	\$	884	\$	622	\$	-	\$	76	\$	-	\$	911	\$	-	\$	-
X1	TRANSPORTATION AND DELIVERY	290	\$	86	\$	57	\$	40	\$	74	\$	-	\$	11	\$	22	\$	-	\$	-
TD	LAG TIME	200,553	\$	94,137	\$	62,485	\$	43,931	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
X1	EQUIPMENT MAINTENANCE	399	\$	119	\$	78	\$	56	\$	101	\$	-	\$	14	\$	31	\$	-	\$	-
F	TRENCH REPAIR	17,672	\$	6,154	\$	4,085	\$	2,872	\$	-	\$	353	\$	-	\$	4,209	\$	-	\$	-
F	CHECK TRENCH	11,742	\$	4,089	\$	2,714	\$	1,908	\$	-	\$	235	\$	-	\$	2,796	\$	-	\$	-
F	EXERCISE VALVE	289	\$	101	\$	67	\$	47	\$	-	\$	6	\$	-	\$	69	\$	-	\$	-
HM		\$ 1,439,592	\$	344,890	\$	228,896	\$	160,974	\$	372,593	\$	-	\$	180,025	\$	152,214	\$	-	\$	-
				23.96%		15.90%		11.18%		25.88%		0.00%		12.51%		10.57%				

	ansmission & Distribution - Contract Services Other T&D (O)																			
X2	Unspecified	\$ 6,929	\$	2,380	\$	1,571	\$	1,116	\$	282	\$	-	\$	128	\$	1,451	\$	-	\$	-
C	New Service Applications																			
X2	Uniforms	\$ 43,372	\$	14,866	\$	9,854	\$	6,989	\$	1,768	\$	-	\$	802	\$	9,084	\$	-	\$	-
X2	Equipment	\$ 5,858	\$	2,012	\$	1,328	\$	944	\$	239	\$	-	\$	108	\$	1,227	\$	-	\$	-
C	Repair Leak on Service																			
F	Road Restoration - Contractor	\$ 365,283	\$	127,196	\$	84,429	\$	59,360	\$	-	\$	7,306	\$	-	\$	86,993	\$	-	\$	-
F	Road Restoration - Force Work																			
F	Markouts/Dig Safe	\$ 33,813	\$	11,774	\$	7,815	\$	5,495	\$	-	\$	676	\$	-	\$	8,053	\$	-	\$	-
TD	Contractor Repair Leak Distribution Main																			
X2	Switchboard Monitoring																			
F	Police Details	\$ 98,779	\$	34,396	\$	22,831	\$	16,052	\$	-	\$	1,976	\$	-	\$	23,524	\$	-	\$	-
F	Pages, cell phones	\$ 5,454	\$	1,873	\$	1,237	\$	879	\$	222	\$	-	\$	101	\$	1,142	\$	-	\$	-
X2	Total (used for Allocation factor HOC)	\$ 559,487	\$	194,526	\$	129,045	\$	90,834	\$	2,511	\$	-	\$	11,096	\$	131,474	\$	-	\$	-
	Calculated Factor HOC			34.77%		23.06%		16.24%		0.46%		0.00%		1.98%		23.50%				
	ansmission & Distribution - Contract Services Other T&D (M)																			
C	Repair Leak on Service	\$ 36,120	\$	-	\$	-	\$	-	\$	36,120	\$	-	\$	-	\$	-	\$	-	\$	-
X2	Plumbing Maintenance																			
	Total (used for Allocation factor HMC)	\$ 36,120	\$	-	\$	-	\$	-	\$	36,120	\$	-	\$	-	\$	-	\$	-	\$	-
	Calculated Factor HMC			0.00%		0.00%		0.00%		100.00%		0.00%		0.00%		0.00%				

Providence Water Docket 4406

**Data Requests of the
Kent County Water Authority
Set 1**

KCWA 1-14 Regarding the worksheet entitled FY 2012 "HO HOC HMC Alloc."

- a) For what period are the costs shown?
- b) Explain why IFR related cost line items should be included in the analysis? Are these costs recovered through the IFR fund ?
- c) Did Providence Water only spend \$45 on scheduled TD Valve Exercise?

Response.

- a) The costs shown are for the Fiscal Year Ended June 30, 2012
- b) This was the method employed and approved by the commission in Docket 3832. It was maintained for this filing.
- c) No, the \$45 from my pre-filed testimony only reflected work order costs associated with this item. Allocators HM, HOC and HMC have since been updated to include service order costs. The total labor cost to exercise valves in FY 2012 was \$12,502.67. Please see "PWSB Response to KCWA 1-13b."

Providence Water Docket 4406

**Data Requests of the
Kent County Water Authority
Set 1**

KCWA 1-15 Please explain why there is in excess of \$3 million of T&D labor shown on schedule HJS-A1 for FY 2012, yet the total T&D labor costs on spreadsheet tab "FY 2012 HM HOC HMC Alloc" is only \$529,897 for FY 2012 (Note that in Docket 3832 the total labor used to derive allocation factor HM exceeded \$2 million in each of the years 2004, 2005 and 2006).

Response. In Docket 3832, the labor costs used to develop allocator HM include costs derived from Work Orders, Service Orders and Dig Safe costs. The allocators from pre-filed testimony were based on work order costs only. These have since been updated to reflect Service Orders and Dig Safe costs. Please see "PWSB Response to KCWA 1-13b."

Providence Water Docket 4406

**Data Requests of the
Kent County Water Authority
Set 1**

KCWA 1-17 According to the derivation of allocation factor HM, over 50% of the labor costs are associated with Meters & Services. Under what O&M expense category are materials and supplies related to the repairs of meters and services pipes included?

Response. In my pre-filed testimony allocator HM only reflected work order costs. As a result, the allocation percentages differed considerably from those used in Docket 3832. Please see the updated allocators HM, HOC and HMC for "PWSB Response to KCWA 1-13b." Materials for T&D is under expense category 60250 Materials and Supplies on HJS-A1 in my direct testimony.