

# 2009 Report

This year's report reflects data gathered from the responses of 172 participants in Draper Aden Associates' 21st Annual Virginia Water and Wastewater Rate Survey. The responses of 82 towns, 38 service authorities, 27 cities and 25 counties are summarized and presented in this report. The information gathered is also available in an interactive dashboard on our website at [www.daa.com](http://www.daa.com).

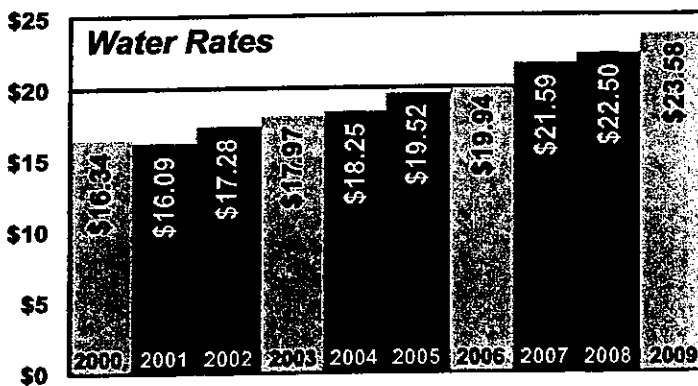
Survey participants were asked to provide information concerning the monthly residential water bill based on consumption of 5,000 gallons of water (or 670 cubic feet) per month and to "include all water and wastewater-related charges that are included on the customer's bill such as account service fees, billing fees, debt service fees, rehab fees, etc." Since some providers charge higher rates for customers outside the municipal boundaries, the survey instrument provided an opportunity to list both the "inside" and "outside" rates. In instances where participants entered the same fee for both charges, only the "inside municipal boundaries" fee is reported herein and included in our calculations.

As usual we asked for residential connection fees and capital recovery charges. This year we also included specific questions about what costs were included in utilities' connection fees and capital recovery charges.

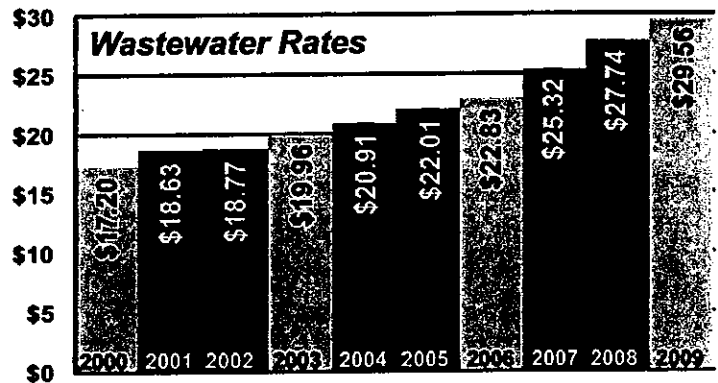
**Abbreviations & Terms**  
 RC = Residential Connection  
 B/C/I = Business/Commercial/Industrial  
 In = Inside Municipal Boundaries  
 Out = Outside Municipal Boundaries

## Control Group

Our control group is comprised of 20 water and wastewater providers who have faithfully participated in the survey for the past 13 years. They represent a cross section of utilities across the state. The two charts below represent our control group responses.



The average monthly residential water rate has increased \$1.08 or 4.8% from last year. The average rate has risen 44% over the past decade.



The average monthly residential wastewater rate has increased \$1.82 or 6.6% from last year. The average rate has risen 72% over the past decade.

## Rate Summaries

The tables below were compiled from all responses received and were not limited to the control group.

Water Rate Summary	Replies	Avg.	Median
Residential Connections	165	9,668	1,958
Non-residential Connections	163	681	161
Monthly Residential Rate (In)	168	\$25.72	\$24.75
Monthly Residential Rate (Out)	84	\$37.64	\$34.49
Monthly B/C/I Rate per 1 million gallons (In)	148	\$4,102	\$3,758
Monthly B/C/I Rate per 1 millions gallons (Out)	66	\$5,607	\$5,324

Wastewater Rate Summary	Replies	Avg.	Median
Residential Connections	160	9,190	1,391
Non-residential Connections	158	699	155
Monthly Residential Rate (In)	163	\$31.45	\$30.25
Monthly Residential Rate (Out)	72	\$47.26	\$43.07
Monthly B/C/I Rate per 1 million gallons (In)	146	\$5,264	\$4,795
Monthly B/C/I Rate per 1 millions gallons (Out)	52	\$7,940	\$6,793

The data presented herein was provided by respondents and is assumed to be correct. In some cases, the respondent was contacted by telephone and interviewed to verify or clarify responses. However, Draper Aden Associates, the Virginia Association of Counties, the Virginia Municipal League, the Virginia Section of AWWA, and the Virginia Water Environment Association cannot warrant the accuracy of the information presented in this report.

<b>Water Data</b>									
Locality	# Residential Water Units	# Non-Residential Water Units	Residential Water Rate Inside (5,000 gallons /month)	Residential Water Rate Outside (5,000 gallons /month)	Last Water Rate Change	Water Rate-Business Inside (1 million gal./month)	Residential Connection Fee	Residential Capital Recovery Charge	
West Point, Town of	1,182	135	\$15.00		2007	\$4,393.00	\$500	\$3,500	
Western Virginia Water Authority (Roanoke City)	31,404	3,125	\$19.80		2009	\$3,382.75	\$2,000	\$2,500	
Western Virginia Water Authority (Roanoke Co.)	20,003	1,147	\$20.50		2009	\$3,403.75	\$2,000	\$2,500	
Williamsburg, City of	3,700	780	\$20.00	\$24.00	2009	\$4,000.00	\$800	\$5,000	
Winchester, City of	9,785	1,395	\$25.75	\$38.74	2009	\$4,080.86	\$5,000		
Windsor, Town of	1,009	55	\$26.75	\$29.75	2009	\$5,350.00	\$1,030	\$5,000	
Woodway Water Authority	1,289	41	\$41.00		2007		\$500	\$100	
WPOA Water Authority	73		\$53.47		2009		\$1,700		
Wythe County	1,958	147	\$38.00		2009	\$8,993.00	\$1,000		
Wytheville, Town of	3,889	677	\$26.20	\$52.40	2009	\$2,289.20	\$1,500 + meter		

<b>Wastewater Data</b>									
Locality	# Residential Wastewater Units	# Non-residential Wastewater Units	Residential Wastewater Rate Inside (5,000 gal./month)	Residential Wastewater Rate Outside (5,000 gal./month)	Last Wastewater Rate Change	Wastewater Rate-Business Inside (1 million gal./month)	Residential Connection Fee	Residential Capital Recovery Charge	
Abingdon, Town of	4,174	711	\$32.04	\$41.66	2009	\$4,817.66	\$1,000		
Albemarle County Service Authority	20,350	2,627	\$36.05		2009	\$7,210.00	Cost	\$3,957	
Alberta, Town of	117	10	\$29.74	\$59.48	2008		\$3,310		
Alexandria Sanitation Authority	7,686	2,407	\$30.55		2008	\$6,110.00			
Alleghany County	1,898		\$35.00		2009	\$6,751.25	\$1,000		
Altavista, Town of	1,243	47	\$10.20	\$20.40	2007	\$2,040.00	\$1,100		
Amherst County Service Authority	1,096	238	\$26.74		2009	\$5,347.59	\$870	\$2,555	
Amherst, Town of	673	136	\$30.00	\$60.00	2009	\$8,000.00	\$500	\$2,500	
Appalachia, Town of			\$32.64	\$41.69	2008		\$300		
Appomattox, Town of	295	292	\$49.50	\$75.55	2008	\$10,318.16	\$1,900		
Arlington County	34,426	1,770	\$38.90		2009	\$7,780.00		\$95/DFU	
Augusta County Service Authority	9,529	715	\$38.91		2009	\$6,453.81	\$5,805		
Bedford County Public Service Authority	1,292	143	\$40.00		2009	\$6,064.00	\$1,000	\$3,000	
Bedford, City of	2,381	475	\$33.35	\$45.85	2009	\$4,433.60	\$1,040	\$1,500	
Big Stone Gap, Town of	2,015	673	\$33.00	\$53.00	2009	\$6,185.00			
Blacksburg, Town of	7,809	316	\$26.43	\$46.27	2009	\$4,772.58	\$3,262	\$2,500	
Bland County Service Authority			\$34.50		2005	\$9,719.50	\$400		
Boones Mill, Town of	39	26	\$33.00	\$47.00	2009	\$4,015.00	\$1,500		
Botetourt County	2,484	296	\$27.00		2007	\$4,750.12	\$1,250	\$2,500	
Bridgewater, Town of	1,899	120	\$30.19		2009	\$6,046.94	\$5,500		
Bristol Virginia Utilities Board	6,693	1,046	\$19.81	\$29.72	2006	\$2,487.00	\$1,005		
Broadway, Town of	1,403	95	\$17.65		2009	\$3,305.91	\$3,100		
Buckingham County	174	42	\$41.72		2009	\$10,419.57	\$2,500		
Buena Vista, City of	2,420	167	\$26.95		2006	\$5,390.00	\$330		
Campbell County Utilities & Service Authority	2,244	248	\$29.82		2008	\$5,949.21	\$750	\$1,900	
Cape Charles, Town of	1,150	95	\$46.63		2009	\$7,777.75	\$875	\$13,150	
Carroll County Public Service Authority	800	90	\$46.50		2008	\$7,515.75	\$1,225		
Charlottesville, City of	12,524	1,551	\$31.00		2009	\$5,404.20		\$3,210	
Chase City, Town of	1,121	158	\$18.94	\$28.41	2008		\$400		
Chatham, Town of	494	130	\$22.55	\$44.30	2009		\$500		

<b>Wastewater Data</b>								
<b>Locality</b>	<b># Residential Wastewater Units</b>	<b># Non-residential Wastewater Units</b>	<b>Residential Wastewater Rate Inside (\$/100 gal./month)</b>	<b>Residential Wastewater Rate Outside (\$/100 gal./month)</b>	<b>Last Wastewater Rate Change</b>	<b>Wastewater Rate-Business Inside (1 million gal./ month)</b>	<b>Residential Connection Fee</b>	<b>Residential Capital Recovery Charge</b>
Chesterfield County	98,000	3,536	\$22.32		2009	\$2,205.50		\$3,140
Christiansburg, Town of	9,281	416	\$28.60	\$42.90		\$5,700.10	\$2,000	
Claremont, Town of	36		\$48.50		2009		\$44	
Clarke County Sanitary Authority	275	37	\$40.84		2009	\$8,955.93		\$16,200
Clarksville, Town of	678	132	\$57.50	\$131.25	2009	\$7,939.00	\$800	
Coeburn, Town of	975	137	\$35.08	\$49.21	2005	\$4,948.97	\$375	
Colonial Beach, Town of	2,242	105	\$45.90	\$68.85	2009	\$3,659.85	\$7,500	
Colonial Heights, City of	757	511	\$23.77	\$30.76	2008	\$3,259.96	\$3,000	
Covington, City of	2,590	325	\$28.00		2009	\$1,011.99	\$700	
Craigsville, Town of	352	1	\$34.00			\$6,999.00	\$3,000	
Crewe, Town of	957	75	\$35.00	\$36.30	2006	\$7,000.00	\$800	
Culpeper County	37	16			2008		\$16,500	
Culpeper, Town of	5,550	526	\$29.95	\$43.35	2009	\$5,107.00	\$10,000	T&M
Cumberland County	219	63	\$25.00		2006	\$2,976.19	\$800	
Danville, City of	14,450	2,215	\$30.25		2008	\$3,745.93	\$675	
Dayton, Town of	587	84	\$20.60		2009	\$3,991.60	\$3,800	
Dickenson County Public Service Authority	479	60	\$52.52		2009		\$550	
Dinwiddie County Water Authority	3,317	127	\$28.58		2008	\$2,997.52	\$4,100	
Dublin, Town of	1,160	128	\$17.91	\$20.00	2007	\$3,062.18	\$400	
Edinburg, Town of	580	64	\$28.20	\$42.30	2009		\$10,000	
Emporia, City of	4,277	736	\$35.33		2008	\$5,025.90	\$2,000	
Exmore, Town of	201	32	\$30.00		2005		\$3,500	
Fairfax County Wastewater Mgt. Program	332,000	22,200	\$24.16		2009	\$4,501.67	\$600	\$7,310
Fairfax, City of	7,328	1,104	\$5.75		2009	\$1,673.88	\$5,247	
Falls Church, City of	4,150	450	\$29.55		2005	\$5,910.00	\$75	\$6,700
Farmville, Town of	2,934	616	\$19.76	\$29.64	2007	\$2,190.00	\$2,500	
Fauquier County Water & Sanitation Authority	3,604	230	\$46.70		2009	\$6,566.84		\$11,000
Ferrum Water & Sewerage Authority	175	28	\$28.50		2006	\$4,744.50	\$1,000	\$2,000
Floyd County Public Service Authority	288	123	\$34.50		2008		Cost + 20%	\$1,000
Franklin, City of	3,186	250	\$36.56	\$45.43	2008	\$3,946.90	\$4,500	
Frederick County Sanitation Authority	11,964	621	\$26.47		2009	\$3,949.89	\$1,575	\$11,394
Fredericksburg, City of	5,768	1,744	\$27.04		2009	\$3,680.00	\$2,100	\$4,750
Front Royal, Town of	6,016	889	\$19.25	\$38.50	2002	\$5,889.75	\$5,000	
Galax, City of	2,450	450	\$16.67	\$33.33	2006	\$1,498.52	\$500	
Gate City, Town of	873	132	\$36.00		2007			
Glen Lyn, Town of	94	11	\$25.00	\$31.25	2007	\$5,000.00	\$225	
Gloucester County	1,120	601	\$23.33		2009	\$3,036.00	\$3,300	\$1,200
Goochland County	46	42	\$29.12			\$6,990.00	\$4,000	
Goochland County (Tuckahoe Creek)	537	271	\$25.68			\$6,180.00	\$4,000	
Gordonsville, Town of	663	71	\$45.60	\$48.37	2008			
Greensville County Water and Sewer Authority	1,561	87	\$33.75		2009	\$6,426.12	\$1,320	\$835
Gretna, Town of			\$20.00	\$40.00	2008	\$2,991.00	\$400	
Halifax County Service Authority	4,070	320	\$30.40	\$42.40	2009	\$2,550.10		\$1,500
Hamilton, Town of	606	5	\$44.50	\$55.00	2008	\$15,964.50	\$25,000	
Hanover County	16,564	1,614	\$77.37		2008	\$9,593.37		\$7,838
Harrisonburg, City of	11,004	1,622	\$19.56	\$33.41	2009	\$3,840.46	\$4,500	
Henrico County	119,225	4,956	\$25.76		2008	\$3,274.00	\$4,730	\$3,465

Wastewater Data								
Locality	# Residential Wastewater Units	# Non-residential Wastewater Units	Residential Wastewater Rate Inside (\$,000 gal./month)	Residential Wastewater Rate Outside (\$,000 gal./month)	Last Wastewater Rate Change	Wastewater Rate-Business Inside (1 million gal./ month)	Residential Connection Fee	Residential Capital Recovery Charge
Henry County Public Service Authority	7,194	714	\$30.00		2006	\$6,015.00	\$1,300	
Herndon, Town of	7,798	472	\$18.77		2009	\$3,720.00		\$6,250
Hillsville, Town of	1,050	184	\$30.76	\$44.17	2005	\$5,757.01	\$750	
Hopewell, City of	8,150	260	\$18.40		2009	\$2,824.48	\$150	\$2,026
Independence, Town of	470	138	\$34.75	\$43.44	2006	\$4,761.00	\$250	
James City Service Authority	18,047	606	\$14.00		2008	\$2,800.00	\$3,360	\$1,050
Jonesville, Town of	448	30	\$30.16	\$37.06	2008		\$400	
Kenbridge, Town of	438	84	\$42.00	\$63.00	2008	\$4,022.00	\$500	
Keysville, Town of	390	98	\$32.00	\$64.00	2004	\$4,012.00	\$1,000	
Kilmarnock, Town of	740	270	\$39.38	\$59.07	2006	\$12,516.50	\$250	\$7,790
King George County	1,953	152	\$28.26	\$0.00	2009	\$11,310.00	\$831	\$2,840
King William County	149	51	\$35.00	\$35.00	2009	\$7,000.00	\$7,750	
LaCrosse, Town of	250	34	\$27.28	\$34.30	2007	\$4,410.28	\$1,100	
Lawrenceville, Town of	728	131	\$15.00	\$26.25	2008	\$3,000.00	\$400	
Leesburg, Town of	16,203	987	\$23.75	\$45.40	2009	\$4,440.25	\$50	\$7,292
Lexington, City of	2,248	400	\$41.21		2009	\$17,706.00	\$1,000	
Loudoun Water	65,948	1,684	\$19.84	\$27.75		\$3,505.85	\$80	\$6,945
Louisa County Water Authority (Northeast Creek)	35	42	\$20.00		2007	\$4,000.00	Cost	\$5,250
Louisa County Water Authority (Zion Crossroads)	280	19	\$20.00		2003	\$4,000.00	Cost	\$5,250
Louisa, Town of	591	161	\$31.45	\$45.80	2008	\$5,454.10	\$15,000	\$14,000
Luray, Town of	2,046	300	\$42.00	\$63.00	2009	\$4,771.25	\$1,000	\$5,940
Lynchburg, City of	18,000	2,000	\$38.97		2009	\$7,425.45	\$1,100	\$1,950
Manassas, City of	9,421	1,233	\$43.30		2009	\$8,655.00		\$12,360
Martinsville, City of	6,300	450	\$19.88		2007	\$2,606.88	\$650	\$200
Middleburg, Town of	370	111	\$63.36	\$88.89	2009		\$500	\$8,674
Mineral, Town of	121	34	\$36.00		2008	\$606.00	\$8,000	
Montgomery County Public Service Authority	1,356	24	\$37.65		2007	\$6,634.50	\$725	\$3,000
Montross/Westmoreland Sewer Authority (Coles Point 1)	492	41	\$34.75	\$34.75	2009	\$40.75		
Montross/Westmoreland Sewer Authority (Coles Point 2)	137		\$34.75	\$34.75	2009	\$40.75		
Montross/Westmoreland Sewer Authority (Montross)	315	95	\$33.00	\$33.00	2009	\$61.00		
Montross/Westmoreland Sewer Authority (Washington)	733	12	\$36.00	\$36.00	2009	\$38.00		
Mount Jackson, Town of	749	114	\$34.15	\$51.25	2009	\$6,830.00	\$10,000	
Nelson County	165	16		\$37.09	2006	\$6,852.84	\$2,000	
Nelson County Service Authority (Lovingson)	352	70	\$40.80		2008	\$8,597.80	Cost	\$4,000
Nelson County Service Authority (Wintergreen)	2,165	21	\$49.50		2008	\$8,606.50	Cost	\$4,000
New Kent County	640	67	\$35.94		2009	\$8,190.49	\$7,950	
New Market, Town of	924	108	\$57.02	\$99.75	2009	\$10,653.77	\$6,000	
Norfolk, City of	61,022	4,285	\$20.05		2009	\$4,010.00	\$250	
Norton, City of	1,638	335	\$36.83	\$84.90	2009	\$5,633.70	\$175	
Orange, Town of	1,378	301	\$38.88	\$75.88	2006	\$4,116.38		\$16,440
Pearisburg, Town of	1,459	127	\$33.13		2007	\$3,907.88	\$400	
Pembroke, Town of	663		\$32.95		2000		\$550	
Pennington Gap, Town of	767	128	\$33.10	\$39.72	1999	\$4,709.60	\$300	
Pound, Town of	492	64	\$33.50	\$41.50	2009	\$4,948.80	\$400	
Powhatan County	36	66	\$28.85				\$5,500	
Prince George County	5,167	133	\$29.63		2008	\$4,671.00	Cost + 10%	\$4,000
Pulaski County Public Service Authority	587	80	\$29.00		2007	\$4,056.00	\$500	

Wastewater Data	# Residential Wastewater Units	# Non-residential Wastewater Units	Residential Wastewater Rate Inside (5,000 gal./month)	Residential Wastewater Rate Outside (5,000 gal./month)	Last Wastewater Rate Change	Wastewater Rate-Business Inside (1 million gal./ month)	Residential Connection Fee	Residential Capital Recovery Charge
Locality								
Pulaski County Sewerage Authority	840	136	\$13.00		1987		\$300	
Pulaski, Town of	3,883	370	\$43.69	\$82.18	2007	\$5,888.04	\$600	
Purcellville, Town of	2,239	298	\$48.60	\$97.20	2009			\$21,600
Radford, City of	4,904	441	\$25.00		2006	\$2,725.00	\$1,500	\$250
Rapidan Service Authority	5,625	272	\$40.96		2007	\$6,588.06	Cost +	\$10,000
Richlands, Town of	2,214	288	\$24.75	\$33.00	2006	\$3,519.00	\$300	
Richmond, City of	50,300	8,300	\$44.18		2009	\$5,345.66	\$1,400	\$1,200
Rockbridge County Public Service Authority	775	90	\$37.40		2008	\$6,260.61	\$840	\$4,500
Rockingham County			\$23.15		2008	\$4,630.00	\$5,925	
Rocky Mount, Town of	1,607	286	\$17.85	\$35.70	2007	\$3,057.85	\$1,000	
Round Hill, Town of	1,098	25	\$52.10	\$78.15	2008	\$10,420.00	\$800	\$15,600
Rural Retreat, Town of	855	79	\$24.30		2009	\$4,596.80	\$400	
Saint Paul, Town of	298	59	\$24.85	\$45.48	2006	\$4,067.04	\$350	
Salem, City of	7,245	1,411	\$24.25		2005	\$4,994.25	\$1,900	
Smithfield, Town of	3,735	485	\$14.50	\$18.15	2005	\$2,900.00	\$1,580	
Smyth County	1,200	50	\$41.00		2008	\$8,026.00	\$700	
South Hill, Town of	1,854	369	\$30.50		2009	\$3,760.00	\$1,500	
Southampton County	1,349	157	\$37.00		2009	\$6,007.00	\$1,000	\$6,000
Spotsylvania County	25,384	1,613	\$20.14		2008	\$4,647.72	\$2,220	\$4,920
Stafford County	28,326	1,324	\$26.89		2008	\$3,917.34	\$2,100	\$3,500
Stanley, Town of	927	60	\$27.87	\$31.30	2009	\$1,767.00	\$3,000	\$1,125
Stoney Creek Sanitary District	1,544	10	\$39.12		2008	\$5,511.62	\$8,500	
Stuart, Town of	348	77	\$28.50	\$32.50	2001	\$5,116.98	\$600	
Sussex Service Authority	1,220	130	\$27.50		1987	\$6,000.00	\$2,000	
Tappahannock, Town of	965	277	\$28.82	\$43.24	2009	\$5,043.62	\$700	\$6,200
Tazewell, Town of	1,837	31	\$34.87	\$70.16	2009	\$3,994.97	\$500	
Timberville, Town of	1,040	47	\$20.84		2009	\$3,733.34	\$3,000	
Toms Brook-Maurertown Sanitary District	550	41	\$40.75		2008	\$11,704.50	\$8,500	
Victoria, Town of	960	55	\$16.58	\$24.78	2006	\$7,443.00	\$500	
Vinton, Town of	4,652	504	\$18.73		2008	\$2,715.18	\$2,065	\$2,675
Virginia Beach, City of	73,907	5,695	\$19.54		2009	\$243.64	\$450	\$59/DFU
Warrenton, Town of	3,721	506	\$29.40	\$44.10	2003	\$6,198.40	T&M	
Washington County Service Authority	1,500	120	\$49.08		2009	\$6,322.28	\$900	\$2,033
Waynesboro, City of	6,958	802	\$34.55	\$61.15	2009	\$5,328.00	\$800	\$4,250
Western Virginia Water Authority (Roanoke City)	30,064	3,058	\$24.00		2009	\$3,525.00	\$2,000	\$2,500
Western Virginia Water Authority (Roanoke County)	17,078	1,061	\$25.00		2009	\$3,470.00	\$2,000	\$2,500
Williamsburg, City of	3,100	660	\$16.85		2009	\$3,370.00	\$800	\$3,000
Winchester, City of	9,810	1,400	\$33.20		2009	\$6,640.00	\$7,400	
Wythe County	499	83	\$35.80		2003	\$8,878.45	\$500	
Wytheville, Town of	3,744	677	\$20.69	\$41.38	2009	\$4,272.29	\$1,500	

The following utilities responded to the wastewater questions and are provided wastewater treatment services by the Hampton Roads Sanitation District (HRSD): City of Norfolk, City of Virginia Beach, City of Williamsburg, Town of Smithfield, Gloucester County, and James City Service Authority. We have reviewed the responses to the questions regarding the monthly sewer bill and have determined that none of the utilities listed above included, in their response, the charge paid to HRSD for wastewater treatment. Based on water usage of 5,000 gallons of water per month, the HRSD fee for wastewater treatment would be an additional \$16.88 per month. Similarly, HRSD charges a facility fee for new connections. For a single family home using a 5/8-inch meter, the facility charge collected by HRSD is \$1,715. This fee is in addition to any fees charged by the local utility. Again, this fee is NOT included in the responses listed above. As a result, when comparing the fees and charges in the communities served by HRSD to other localities, it is important to be aware that the fees reflected in the table above do NOT reflect the total cost of wastewater service in these localities.