

Statistical Section (Unaudited)

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This section contains statistical tables that reflect financial trends information, revenue capacity information, debt capacity information, demographic and economic information, and operating information. These tables differ from the basic financial statements because they usually cover more than two fiscal years and may present non-accounting data.

The statistical section is divided into five sections as follows:

- 1. Financial Trends
- 2. Revenue Capacity
- 3. Debt Capacity
- 4. Demographic and Economic Information
- 5. Operating Information

1. Financial Trends
These schedules contain trend information to better understand how the Authority's financial performance and well-being have changed over time.

EXHIBIT 1 CHANGE IN NET POSITION LAST TEN FISCAL YEARS (\$000)

Post-lating revenues \$443,481 \$425,492 \$401,246 \$382,552 \$335,711 \$295,209 \$275,337 \$266,866 \$241,475 \$209,000 \$37,400 \$		2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
Federal government and DC Housing Authority	Operating revenues										
District government and DC Housing Authority 45,816 42,710 40,483 38,185 32,948 28,852 21,677 24,713 25,123 21,947 Charges for wholesale wastew ater treatment 114,766 121,961 101,619 91,873 112,522 96,845 87,178 94,549 90,414 87,505 70 tal Operating Revenues 705,147 684,502 643,169 595,789 549,915 473,824 439,079 440,566 408,255 363,748 70 tal Operating Revenues 705,147 684,502 643,169 595,789 549,915 473,824 439,079 440,566 408,255 363,748 70 tal Operating Revenues 705,147 684,502 72,611 74,086 66,241 68,172 684,177 684,939 71,055 694,977 72,611 74,086 66,241 68,172 684,177 684,939 71,055 694,977 72,611 74,086	Residential, commercial and multi-family customers	\$ 443,481	\$ 425,492	\$ 401,246	\$ 382,552	\$ 335,711	\$ 295,209	\$ 275,337	\$ 256,846	\$ 241,475	\$ 209,796
Charges for w holesale w astew ater treatment 114,766 121,961 20,788 32,149 19,762 14,460 13,917 9,700 16,077 8,210 6,655 Total Operating Revenues 705,147 684,502 643,169 595,789 549,915 473,824 439,079 440,566 408,255 363,748 Operating expenses Personnel services 141,040 142,342 132,124 124,239 115,233 108,467 103,908 97,784 93,240 88,210 Contractual services 75,818 74,627 72,611 74,086 66,241 68,172 68,417 64,939 71,055 69,497 Chemicals, supplies and small equipment 36,579 31,152 33,381 29,524 32,935 31,748 28,987 28,815 28,188 29,003 Utilities and rent 25,813 26,163 24,290 23,934 30,848 29,939 26,098 26,766 29,429 29,929 Depreciation and amortization 32,430 28,357<	Federal government	73,393	73,551	67,672	63,417	54,274	39,001	45,187	48,381	43,033	37,845
Other 27,691 20,788 32,149 19,762 14,469 13,917 9,700 16,077 8,210 6,855 Total Operating Revenues 705,147 684,502 643,169 595,789 549,915 473,824 439,079 440,566 408,255 363,748 Operating expenses Personnel services 141,040 142,342 132,124 124,239 115,233 108,467 103,908 97,784 93,240 88,170 Cherricals, supplies and small equipment 36,579 31,152 33,381 29,524 32,935 61,748 68,417 64,939 71,055 69,449 Utilities and rent 25,813 26,163 24,262 23,934 30,848 29,939 26,986 26,786 29,429 29,929 Depreciation and amortization 127,551 115,453 97,900 89,512 83,857 77,333 73,342 70,209 64,245 Payment in lieu of taxes and right of way fee 21,702 21,376 21,057 20,744 20,437 <td>District government and DC Housing Authority</td> <td>45,816</td> <td>42,710</td> <td>40,483</td> <td>38,185</td> <td>32,948</td> <td>28,852</td> <td>21,677</td> <td>24,713</td> <td>25,123</td> <td>21,947</td>	District government and DC Housing Authority	45,816	42,710	40,483	38,185	32,948	28,852	21,677	24,713	25,123	21,947
Coparating Revenues 705,147 684,502 643,169 595,789 549,915 473,824 439,079 440,566 408,255 363,748	Charges for w holesale w astew ater treatment	114,766	121,961	101,619	91,873	112,522	96,845	87,178	94,549	90,414	87,505
Operating expenses Personnel services 141,040 142,342 132,124 124,239 115,233 108,467 103,908 97,784 93,240 88,210 Contractual services 75,818 74,627 72,611 74,086 66,241 68,172 68,417 64,939 71,055 69,497 Chemicals, supplies and small equipment 36,579 31,152 33,381 29,524 32,935 31,748 28,987 28,815 28,188 29,003 Utilities and rent 25,813 26,163 24,262 23,934 30,848 29,399 26,098 26,786 29,429 29,929 Depreciation and amortization 127,501 115,453 97,900 89,512 83,857 77,833 77,330 74,342 70,209 64,425 Payment in lieu of taxes and right of way fee 21,702 21,376 21,057 20,744 20,437 11,458 21,982 21,170 27,587 Total operating expenses 460,883 49,470 408,131 388,384 <td< td=""><td>Other</td><td>27,691</td><td>20,788</td><td>32,149</td><td>19,762</td><td>14,460</td><td>13,917</td><td>9,700</td><td>16,077</td><td>8,210</td><td>6,655</td></td<>	Other	27,691	20,788	32,149	19,762	14,460	13,917	9,700	16,077	8,210	6,655
Personnel services 141,040 142,342 132,124 124,239 115,233 108,467 103,908 97,84 93,240 88,210 Contractual services 75,818 74,627 72,611 74,086 66,241 68,172 68,417 64,939 71,055 69,497 Chemicals, supplies and small equipment 36,579 31,152 33,381 29,524 32,935 31,748 28,987 28,165 29,429 29,039 Utilities and rent 25,813 26,163 24,626 23,934 30,848 29,939 26,098 26,086 29,429 29,139 28,407 27,223 28,839 27,170	Total Operating Revenues	705,147	684,502	643,169	595,789	549,915	473,824	439,079	440,566	408,255	363,748
Contractual services 75,818 74,627 72,611 74,086 66,241 68,172 68,417 64,939 71,055 69,497 Chemicals, supplies and small equipment 36,579 31,152 33,381 29,524 32,935 31,748 28,987 28,815 28,188 29,003 Utilities and rent 25,813 26,163 24,262 23,934 30,848 29,939 26,098 26,786 29,429 29,929 Depreciation and amortization 127,501 115,453 97,900 89,512 83,857 77,833 77,330 74,342 70,209 64,425 Water purchases 32,430 28,357 26,796 26,345 29,109 28,407 27,223 28,389 27,170 27,587 Payment in lieu of taxes and right of way fee 21,702 21,376 21,057 20,744 20,437 11,458 21,982 21,982 21,982 20,474 Total operating expenses 460,883 439,470 408,131 388,384 378,660 356,024 3	Operating expenses										
Chemicals, supplies and small equipment 36,579 31,152 33,381 29,524 32,935 31,748 29,877 28,815 29,188 29,093 Utilities and rent 25,813 26,163 24,262 23,934 30,848 29,939 26,098 26,786 29,429 29,929 Depreciation and amortization 127,501 115,453 97,900 89,512 83,857 77,833 77,330 74,342 70,209 64,425 Water purchases 32,430 28,357 26,796 26,345 29,109 28,407 27,223 28,389 27,170 27,587 Payment in lieu of taxes and right of way fee 21,702 21,376 21,057 20,744 20,437 11,458 21,982 21,982 21,982 20,474 Total operating expenses 460,883 439,470 408,131 388,384 378,660 356,024 353,945 343,037 341,273 329,125 Operating income 244,264 245,032 235,038 207,405 171,255 117,800 85,134	Personnel services	141,040	142,342	132,124	124,239	115,233	108,467	103,908	97,784	93,240	88,210
Utilities and rent 25,813 26,163 24,262 29,934 30,848 29,939 26,098 26,786 29,429 29,929 Depreciation and amortization 127,501 115,453 97,900 89,512 83,857 77,833 77,330 74,342 70,209 64,425 Water purchases 32,430 28,357 26,796 26,345 29,109 28,407 27,223 28,389 27,170 27,587 Payment in lieu of taxes and right of way fee 21,702 21,376 21,057 20,744 20,437 11,458 21,982 21,982 21,982 20,474 Total operating expenses 460,883 439,470 408,131 388,384 378,660 356,024 353,945 343,037 341,273 329,125 Operating income 244,264 245,032 235,038 207,405 171,255 117,800 85,134 97,529 66,982 34,623 Non-operating revenue (expenses) 164,630 93,956 (68,293) (69,118) (61,409) (69,288)	Contractual services	75,818	74,627	72,611	74,086	66,241	68,172	68,417	64,939	71,055	69,497
Depreciation and amortization 127,501 115,453 97,900 89,512 83,857 77,833 77,330 74,342 70,209 64,425 Water purchases 32,430 28,357 26,796 26,345 29,109 28,407 27,223 28,389 27,170 27,587 Payment in lieu of taxes and right of way fee 21,702 21,376 21,057 20,744 20,437 11,458 21,982 21,982 21,982 20,474 Total operating expenses 460,883 439,470 408,131 388,384 378,660 356,024 353,945 343,037 341,273 329,125 Operating income 244,264 245,032 235,038 207,405 171,255 117,800 85,134 97,529 66,982 34,623 Non-operating revenue (expenses) 1 1,144 749 2,036 1,343 1,434 1,445 1,445 1,444 749 2,036 1,343 1,445 1,445 1,445 1,445 1,445 1,445 1,445 1,445	Chemicals, supplies and small equipment	36,579	31,152	33,381	29,524	32,935	31,748	28,987	28,815	28,188	29,003
Water purchases 32,430 28,357 26,796 26,345 29,109 28,407 27,223 28,389 27,170 27,587 Payment in lieu of taxes and right of way fee 21,702 21,376 21,057 20,744 20,437 11,458 21,982 21,982 21,982 20,474 Total operating expenses 460,883 439,470 408,131 388,384 378,660 356,024 353,945 343,037 341,273 329,125 Operating income 244,264 245,032 235,038 207,405 171,255 117,800 85,134 97,529 66,982 34,623 Non-operating revenue (expenses) Interest income 9,307 5,866 3,740 2,629 1,316 977 1,144 749 2,036 1,343 Interest expense and other nonoperating expenses (104,630) (93,956) (68,293) (69,118) (61,409) (69,288) (63,905) (74,001) (73,335) (57,479) Total non-operating (expenses) (95,323)	Utilities and rent	25,813	26,163	24,262	23,934	30,848	29,939	26,098	26,786	29,429	29,929
Payment in lieu of taxes and right of way fee 21,702 21,376 21,057 20,744 20,437 11,458 21,982 21,982 21,982 20,474 Total operating expenses 460,883 439,470 408,131 388,384 378,660 356,024 353,945 343,037 341,273 329,125 Operating income 244,264 245,032 235,038 207,405 171,255 117,800 85,134 97,529 66,982 34,623 Non-operating revenue (expenses) 1 1,316 977 1,144 749 2,036 1,343 Interest expense and other nonoperating expenses (104,630) (93,956) (68,293) (69,118) (61,409) (69,288) (63,905) (74,001) (73,335) (57,479) Total non-operating (expenses) (95,323) (88,090) (64,553) (66,489) (60,093) (68,311) (62,761) (73,252) (71,299) (56,136) Change in net position before capital contributions 148,941 156,942 170,485 140,916 111,162 49	Depreciation and amortization	127,501	115,453	97,900	89,512	83,857	77,833	77,330	74,342	70,209	64,425
Total operating expenses 460,883 439,470 408,131 388,384 378,660 356,024 353,945 343,037 341,273 329,125 Operating income 244,264 245,032 235,038 207,405 171,255 117,800 85,134 97,529 66,982 34,623 Non-operating revenue (expenses) Interest income 9,307 5,866 3,740 2,629 1,316 977 1,144 749 2,036 1,343 Interest expense and other nonoperating expenses (104,630) (93,956) (68,293) (69,118) (61,409) (69,288) (63,905) (74,001) (73,335) (57,479) Total non-operating (expenses) (95,323) (88,090) (64,553) (66,489) (60,093) (68,311) (62,761) (73,252) (71,299) (56,136) Change in net position before capital contributions 148,941 156,942 170,485 140,916 111,162 49,489 22,373 24,277 (4,317) (21,513) Capital contributions 165,254 187,361	Water purchases	32,430	28,357	26,796	26,345	29,109	28,407	27,223	28,389	27,170	27,587
Operating income 244,264 245,032 235,038 207,405 171,255 117,800 85,134 97,529 66,982 34,623 Non-operating revenue (expenses) Interest income 9,307 5,866 3,740 2,629 1,316 977 1,144 749 2,036 1,343 Interest expense and other nonoperating expenses (104,630) (93,956) (68,293) (69,118) (61,409) (69,288) (63,905) (74,001) (73,335) (57,479) Total non-operating (expenses) (95,323) (88,090) (64,553) (66,489) (60,093) (68,311) (62,761) (73,252) (71,299) (56,136) Change in net position before capital contributions 148,941 156,942 170,485 140,916 111,162 49,489 22,373 24,277 (4,317) (21,513) Capital contributions 16,313 30,419 24,066 32,431 67,965 94,690 58,310 58,957 47,374 30,403 Change in net position 165,254 187,3	Payment in lieu of taxes and right of way fee	21,702	21,376	21,057	20,744	20,437	11,458	21,982	21,982	21,982	20,474
Non-operating revenue (expenses) Interest income 9,307 5,866 3,740 2,629 1,316 977 1,144 749 2,036 1,343 Interest expense and other nonoperating expenses (104,630) (93,956) (68,293) (69,118) (61,409) (69,288) (63,905) (74,001) (73,335) (57,479) Total non-operating (expenses) (95,323) (88,090) (64,553) (66,489) (60,093) (68,311) (62,761) (73,252) (71,299) (56,136) Change in net position before capital contributions 148,941 156,942 170,485 140,916 111,162 49,489 22,373 24,277 (4,317) (21,513) Capital contributions 165,254 187,361 194,551 173,347 179,127 144,179 80,683 83,234 43,057 8,890 Net position, beginning of year 2,085,201 1,897,840 1,703,289 1,529,942 1,350,815 1,206,636 1,125,953 1,042,719 999,662 990,772	Total operating expenses	460,883	439,470	408,131	388,384	378,660	356,024	353,945	343,037	341,273	329,125
Interest income 9,307 5,866 3,740 2,629 1,316 977 1,144 749 2,036 1,343 Interest expense and other nonoperating expenses (104,630) (93,956) (68,293) (69,118) (61,409) (69,288) (63,905) (74,001) (73,335) (57,479) (70,485	Operating income	244,264	245,032	235,038	207,405	171,255	117,800	85,134	97,529	66,982	34,623
Interest expense and other nonoperating expenses (104,630) (93,956) (68,293) (69,118) (61,409) (69,288) (63,905) (74,001) (73,335) (57,479) (701	Non-operating revenue (expenses)										
Total non-operating (expenses) (95,323) (88,090) (64,553) (66,489) (60,093) (68,311) (62,761) (73,252) (71,299) (56,136) Change in net position before capital contributions 148,941 156,942 170,485 140,916 111,162 49,489 22,373 24,277 (4,317) (21,513) Capital contributions 16,313 30,419 24,066 32,431 67,965 94,690 58,310 58,957 47,374 30,403 Change in net position 165,254 187,361 194,551 173,347 179,127 144,179 80,683 83,234 43,057 8,890 Net position, beginning of year 2,085,201 1,897,840 1,703,289 1,529,942 1,350,815 1,266,636 1,125,953 1,042,719 999,662 990,772	Interest income	9,307	5,866	3,740	2,629	1,316	977	1,144	749	2,036	1,343
Change in net position before capital contributions 148,941 156,942 170,485 140,916 111,162 49,489 22,373 24,277 (4,317) (21,513) Capital contributions 16,313 30,419 24,066 32,431 67,965 94,690 58,310 58,957 47,374 30,403 Change in net position 165,254 187,361 194,551 173,347 179,127 144,179 80,683 83,234 43,057 8,890 Net position, beginning of year 2,085,201 1,897,840 1,703,289 1,529,942 1,350,815 1,206,636 1,125,953 1,042,719 999,662 990,772	Interest expense and other nonoperating expenses	(104,630)	(93,956)	(68,293)	(69,118)	(61,409)	(69,288)	(63,905)	(74,001)	(73,335)	(57,479)
Capital contributions 16,313 30,419 24,066 32,431 67,965 94,690 58,310 58,957 47,374 30,403 Change in net position 165,254 187,361 194,551 173,347 179,127 144,179 80,683 83,234 43,057 8,890 Net position, beginning of year 2,085,201 1,897,840 1,703,289 1,529,942 1,350,815 1,206,636 1,125,953 1,042,719 999,662 990,772	Total non-operating (expenses)	(95,323)	(88,090)	(64,553)	(66,489)	(60,093)	(68,311)	(62,761)	(73,252)	(71,299)	(56,136)
Capital contributions 16,313 30,419 24,066 32,431 67,965 94,690 58,310 58,957 47,374 30,403 Change in net position 165,254 187,361 194,551 173,347 179,127 144,179 80,683 83,234 43,057 8,890 Net position, beginning of year 2,085,201 1,897,840 1,703,289 1,529,942 1,350,815 1,206,636 1,125,953 1,042,719 999,662 990,772	Change in net position before capital contributions	148.941	156.942	170.485	140.916	111.162	49.489	22.373	24.277	(4.317)	(21.513)
Change in net position 165,254 187,361 194,551 173,347 179,127 144,179 80,683 83,234 43,057 8,890 Net position, beginning of year 2,085,201 1,897,840 1,703,289 1,529,942 1,350,815 1,206,636 1,125,953 1,042,719 999,662 990,772			,			•				,	
Net position, beginning of year 2,085,201 1,897,840 1,703,289 1,529,942 1,350,815 1,206,636 1,125,953 1,042,719 999,662 990,772	•										
			,		•			,			,
Net position, end of year \$2,250,455 \$2,085,201 \$1,897,840 \$1,703,289 \$1,529,942 \$1,350,815 \$1,206,636 \$1,125,953 \$1,042,719 \$999,662	Net position, end of year	\$2,250,455	\$2,085,201	\$1,897,840	\$1,703,289	\$1,529,942	\$1,350,815	\$1,206,636	\$1,125,953	\$1,042,719	\$ 999,662

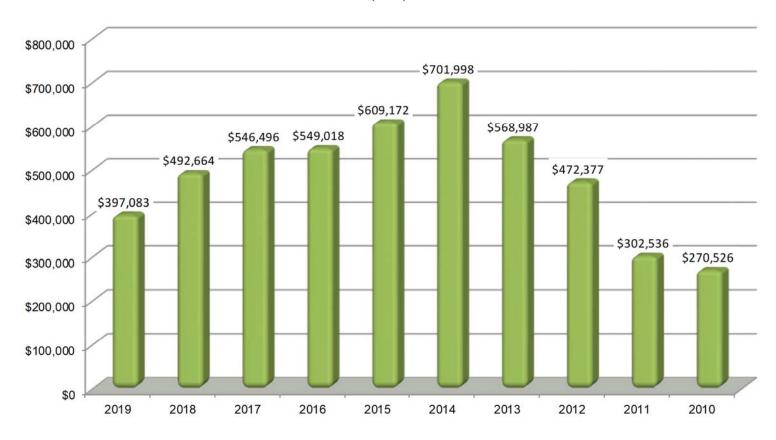
Source: FY 2010 - 2019 Statements of Revenues, Expenses and Changes in Net Position.

EXHIBIT 2 SUMMARY OF NET POSITION LAST TEN FISCAL YEARS (\$000)

	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
Net investments in capital assets	\$1,935,786	\$1,808,622	\$1,655,867	\$1,491,925	\$1,348,056	\$1,130,952	\$1,042,620	\$ 956,397	\$ 874,356	\$ 818,001
Restricted	43,762	38,907	33,276	33,135	27,054	28,863	29,010	27,297	26,825	17,257
Unrestricted	270,907	237,672	208,697	178,229	154,832	191,000	135,006	142,259	141,538	164,404
Total net postion	\$2,250,455	\$2,085,201	\$1,897,840	\$1,703,289	\$1,529,942	\$1,350,815	\$1,206,636	\$1,125,953	\$1,042,719	\$ 999,662

Source: FY 2010 - 2019 Statements of Net Position

EXHIBIT 3
CAPITAL DISBURSEMENTS
LAST TEN FISCAL YEARS
(\$000)



Note: These disbursements include DC Water's share of Washington Aqueduct's capital disbursements.

Source: FY 2010 – 2019 Statements of Cash Flows.

2. Revenue Capacity
These schedules contain information regarding the Authority's most significant revenue sources.

EXHIBIT 4 OPERATING REVENUES AND RATE INCREASES LAST TEN FISCAL YEARS (\$000)

	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
Operating Revenues										_
Retail Customers										
Residential, Commercial and Multifamily	\$ 443,481	\$425,492	\$401,246	\$382,552	\$335,711	\$295,209	\$275,337	\$256,846	\$241,475	\$209,796
Federal Government	73,393	73,551	67,672	63,417	54,274	39,001	45,187	48,381	43,033	37,845
DC Government	33,985	31,980	30,429	28,890	24,453	21,205	14,714	18,213	17,827	15,628
DC Housing Authority	11,831	10,730	10,054	9,295	8,495	7,647	6,963	6,500	7,296	6,319
Other Revenues	27,691	20,788	32,149	19,762	14,460	13,917	9,700	16,077	8,210	6,655
Total Retail Customers	590,381	562,541	541,550	503,916	437,393	376,979	351,901	346,017	317,841	276,243
Wholesale Customers	114,766	121,961	101,619	91,873	112,522	96,845	87,178	94,549	90,414	87,505
Total Operating Revenues	\$ 705,147	\$684,502	\$643,169	\$595,789	\$549,915	\$473,824	\$439,079	\$440,566	\$408,255	\$363,748
Retail Rate Increases	5.00%	5.00%	5.00%	6.50%	7.50%	5.50%	5.50%	4.50%	12.50%	9.00%

Source: FY 2010 - 2019 Statements of Revenues, Expenses and Changes in Net Position

EXHIBIT 5 NUMBER AND TYPE OF CUSTOMER ACCOUNTS LAST TEN FISCAL YEARS

	2019	2018 ^(A)	2017	2016	2015	2014	2013	2012	2011	2010
Retail Accounts										
Residential	106,097	105,430	105,762	106,120	105,735	104,965	104,477	103,887	103,857	103,315
Commercial (B)	17,369	17,363	18,807	18,828	18,947	19,433	19,343	19,242	19,165	19,049
Governmental										
Federal	459	459	560	558	550	542	542	538	549	546
District of Columbia	523	517	650	641	638	641	630	605	607	603
DC Housing Authority	1,124	1,130	1,457	1,462	1,446	1,452	1,460	1,435	1,431	1,431
Total Retail Accounts	125,572	124,899	127,236	127,609	127,316	127,033	126,452	125,707	125,609	124,944
DC Water	29	30	39	39	39	37	36	36	35	35
Washington Aqueduct	2	2	2	2	2	2	2	2	2	1
Wholesale	7	7	7	7	7	7	7	7	7	7
Total Number of Accounts	125,610	124,938	127,284	127,657	127,364	127,079	126,497	125,752	125,653	124,987

⁽A) DC Water began excluding inactive accounts in 2018 after converstion to new CIS.

Source: D.C. Water Department of Customer Service

⁽B) Included in commercial are multi-family and exempt accounts

EXHIBIT 6 TEN LARGEST COMMERCIAL CUSTOMERS LAST TEN FISCAL YEARS

	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
Howard University	\$ 3,898,131	\$ 3,879,664	\$ 3,957,007	\$ 3,823,023	\$ 3,237,999	\$ 2,662,949	\$ 2,699,376	\$ 2,596,564	\$ 1,862,880	\$ 1,735,598
George Washington University	2,998,442	2,522,689	2,477,970	2,338,974	2,763,055	2,609,611	2,161,183	2,530,632	2,122,176	1,618,618
William C Smith & Co	2,441,968	2,078,614	2,226,722	2,455,990	2,076,534	2,277,833	1,782,719	1,787,150	1,709,334	1,505,145
Washington Hospital Center	2,078,916	2,003,551	1,624,588	1,991,344	1,830,586	1,671,855	1,693,655	933,027	1,270,788	1,113,672
Amtrak	1,924,967	1,046,179	983,224	1,019,570	1,028,989	984,336	1,004,177	937,430	903,475	761,235
Georgetown University	1,875,409	2,118,763	1,438,247	1,324,563	1,413,714	2,605,884	1,865,068	1,842,860	2,238,766	2,100,705
Horning Brothers	1,697,812	-	-	1,335,613	-	1,347,287	1,258,995	1,163,586	1,122,879	993,115
Catholic University	1,174,396	-	-	-	-	-	-	-	-	-
Georgetown University Hospital	1,010,696	-	808,884	920,681	720,247	955,353	1,053,659	1,643,380	1,371,035	-
American University	1,005,881	1,004,977	750,235	1,001,742	1,078,412	1,125,050	1,253,038	869,211	-	694,565
Children's Hospital	-	831,854	-	-	-	-	-	-	-	-
Metropolitan Washington Airports Authority	-	1,280,248	1,068,877	1,008,250	923,394	807,803	716,929	661,509	-	-
Medstar-Georgetown Medical Center	-	850,673	807,540	-	-	-	-	-	-	-
Shoreham Hotel	-	-	-	-	1,035,982	-	-	-	-	-
Soldiers Home	-	-	-	-	-	-	-	-	897,121	804,533
The Barac Company	-	-	-	-	-	-	-	-	927,022	776,134
Total	\$20,106,617	\$17,617,212	\$16,143,294	\$17,219,750	\$16,108,912	\$17,047,961	\$15,488,799	\$14,965,349	\$14,425,476	\$12,103,320
% of Total Operating Revenues	2.85%	2.57%	2.51%	2.89%	2.93%	3.60%	3.53%	3.40%	3.53%	3.33%

Source: DC Water Department of Customer Service

EXHIBIT 7 TEN LARGEST GOVERNMENT CUSTOMERS LAST TEN FISCAL YEARS

	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
D.C. Housing Authority	\$ 9,203,222	\$ 5,176,951	\$ 7,492,820	\$ 6,999,037	\$ 6,922,176	\$ 6,308,902	\$ 5,879,383	\$ 5,669,475	\$ 6,277,722	\$ 5,750,927
U.S. General Services Administration	7,870,446	8,096,034	7,092,342	11,670,623	6,425,889	7,598,077	7,184,034	7,443,691	6,877,787	6,575,977
U.S. Congress	5,447,393	5,061,870	4,597,331	3,223,507	6,524,863	4,019,627	4,926,790	5,225,952	4,214,640	3,559,903
Smithsonian Institution	4,967,305	4,683,524	3,635,763	2,768,661	3,219,324	2,810,786	3,038,455	2,681,705	3,997,326	2,564,033
Bolling Air Force Base	4,279,384	4,187,710	3,115,393	2,602,439	2,509,536	1,928,617	2,265,348	2,925,847	-	-
Department Defense VA	2,834,531	2,082,125	-	-	4,020,624	3,275,936	3,275,936	3,527,613	2,873,310	2,759,264
Federal Naval Research Lab	2,779,271	2,209,408	1,853,214	1,975,742	1,802,150	1,542,370	1,833,491	1,788,497	-	-
National Park Service	2,342,203	3,298,927	4,621,035	3,656,234	2,233,857	1,363,657	2,577,096	2,481,144	2,217,698	2,384,771
Department of the Navy	1,951,907	1,732,073	1,662,225	1,708,908	-	-	1,521,264	1,886,750	3,832,568	2,851,611
D.C. Board of Education	1,866,303	1,569,405	2,497,561	2,228,498	2,166,846	2,391,393	2,092,748	2,213,636	2,142,907	2,534,044
D.C. Recreation and Parks	-	-	1,604,350	1,695,630	1,702,488	1,216,398	-	-	-	-
D.C. Department of Human Services	-	-	-	-	-	-	-	-	3,272,747	2,047,213
Department of Defense DC	-	-	-	-	-	-	-	-	2,151,529	1,608,642
Total	\$43,541,966	\$38,098,027	\$38,172,034	\$38,529,279	\$37,527,753	\$32,455,763	\$34,594,545	\$35,844,310	\$37,858,234	\$32,636,385
% of Total Operating Revenues	6.17%	5.57%	5.93%	6.47%	6.82%	6.85%	7.88%	8.14%	9.27%	8.97%

Source: DC Water Department of Customer Service

EXHIBIT 8 RETAIL WATER AND SEWER RATES LAST TEN FISCAL YEARS

			(c)				(g)	
		(b)	DISTRICT	(d)	(e)	(f)	IMPERVIOUS	
	(a)	WATER SYSTEM	PUBLIC SPACE	WATER	SEWER	COMBINED	SURFACE	AVERAGE
FISCAL	METERING	REPLACEMENT	OCCUPANCY	CONSUMPTION	CONSUMPTION	CONSUMPTION	AREA	MONTHLY
YEAR	FEE	FEE	FEE AND PILOT	RATE	RATE	RATE	CHARGE ²	BILL 1
2010	2.010	-	0.57	2.51	3.61	6.12	2.200	45.69
2011	3.860	-	0.63	3.10	3.79	6.89	3.450	53.93
2012	3.860	-	0.64	3.24	3.96	7.20	6.64	59.11
2013	3.860	-	0.66	3.42	4.18	7.60	9.57	64.64
2014	3.860	-	0.70	3.61	4.41	8.02	11.85	69.77
2015	3.860	-	0.63	3.88	4.74	8.62	16.75	77.96
2016	3.860	6.30	0.64	3.36	5.44	8.80	20.30	88.99
2017	3.860	6.30	0.65	3.52	5.71	9.23	22.24	93.66
2018	3.860	6.30	0.67	3.70	6.00	9.70	25.18	99.63
2019	3.860	6.30	0.68	3.17 ⁵	7.75	10.92	23.00	96.03

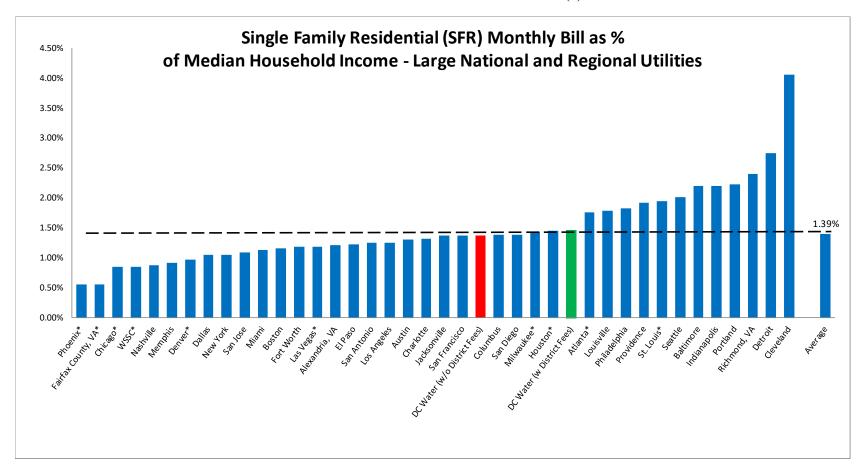
¹ Average residential customer consumption is 6.2 Ccf per month for up to FY 2018 and 5.42 Ccf for FY 2019. The average monthly bill is calculated as follows (a)+(b)+(g)+(((c)+(f)) x 5.42 Ccf)

Source: D.C. Water Department of Finance & Budget

² Per Equivalent Residential Unit (ERU).

³ Weighted average water rate for residential customers.

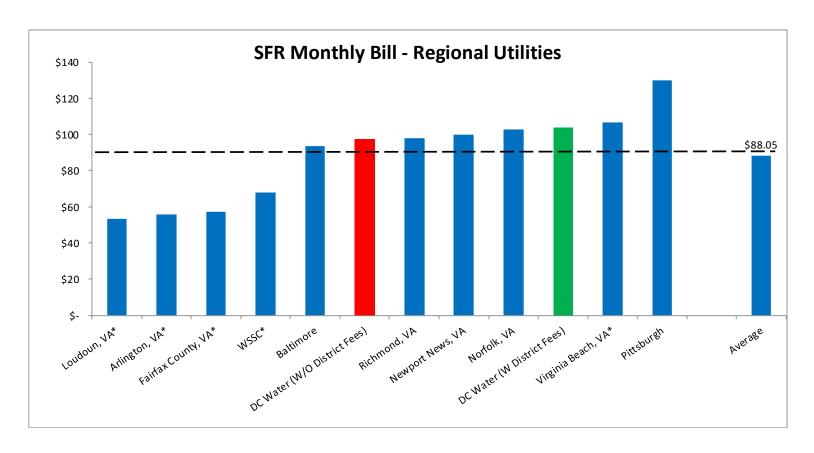
EXHIBIT 9
RESIDENTIAL WATER AND WASTEWATER BILL COMPARISONS
AS A PERCENTAGE OF MEDIAN HOUSEHOLD INCOME (1)



⁽¹⁾ This analysis is based on a single family residential monthly bill as a percentage of median household income for large national utilities based on rates in effect fall 2019.

Source: DC Water Department of Finance & Budget

EXHIBIT 10
RESIDENTIAL WATER AND WASTEWATER BILL COMPARISONS
TO LOCAL AND REGIONAL UTILITIES (1)



(1) This analysis represents single family residential average monthly bill based on rates in effect fall 2019.

Source: DC Water Department of Finance & Budget

3. Debt Capacity
These schedules present information showing the Authority's current levels of outstanding debt and the Authority's ability to issue additional debt in the future.

EXHIBIT 11 OUTSTANDING DEBT AND DEBT RATIOS LAST TEN FISCAL YEARS (\$000, EXCEPT PER CAPITA)

		2019		2018		2017		2016		2015		2014	20	013		2012		2011		2010
Senior Debt:																				
2018 Series A Public Utility Revenue Bonds	\$	100,000	\$	100,000	\$	-	\$	-	\$	-	\$	- \$;	-	\$	-	\$	- 9	\$	-
2018 Series B Public Utility Revenue Bonds		200,000		200,000		-		-		-		-		-		-		-		-
2017 Series A Public Utility Revenue Bonds		100,000		100,000		100,000		-		-		-		-		-		-		-
2017 Series B Public Utility Revenue Bonds		196,955		200,000		200,000		-		-		-		-		-		-		-
2014 Public Utility Revenue Bonds		350,000		350,000		350,000		350,000		350,000		350,000		-		-		-		-
2009 Series A Public Utility Revenue Bonds		-		4,225		8,040		11,535		159,520		291,145	2	93,720		296,205		298,225		300,000
1998 Public Utility Revenue Bonds		126,290		141,855		156,605		170,525		183,660		196,050	2	207,735		218,815		229,315		239,270
Total Senior Debt		1,073,245		1,096,080		814,645		532,060		693,180		837,195	Ę	01,455		515,020		527,540		539,270
Subordinate Debt:																				
2016 Series A Public Utility Revenue Bonds	-	389,110		389,110		389,110		389.110		_		_		_		-		_		_
2016 Series B Public Utility Revenue Bonds		25,000		25,000		25,000		25,000		_		-		_		-		_		_
2015 Series A Public Utility Revenue Bonds		99,420		100,000		100,000		100,000		_		-		_		-		_		_
2015 Series B Public Utility Revenue Bonds		250,000		250,000		250,000		250,000		_		_		_		-		_		_
2014 Series B-1 Public Utility Revenue Bonds		50,000		50,000		50,000		50,000		50,000		50,000		_		-		_		_
2014 Series B-2 Public Utility Revenue Bonds		50,000		50,000		50,000		50,000		50,000		50,000		_		_		-		_
2014 Series C Public Utility Revenue Bonds		377,110		377,110		377,110		377,110		377,700		· -		_		-		_		_
2013 Series A Public Utility Revenue Bonds		300,000		300,000		300,000		300,000		300,000		300,000	3	00,000		_		_		_
2012 Series A Public Utility Revenue Bonds		148,255		153,600		158,740		163,655		168,405		172,990		77,430		177,430		-		_
2012 Series B-1 Public Utility Revenue Bonds						· -				_		52,690		52,690		52,690		-		_
2012 Series B-2 Public Utility Revenue Bonds		-		_		_		_		47,310		47,310		47,310		47,310		-		_
2012 Series C Public Utility Revenue Bonds		163,215		163,215		163,215		163,215		163,215		163,215		63,215		163,215		-		_
2010 Series A Public Utility Revenue Bonds		300,000		300,000		300,000		300,000		300,000		300,000	3	00,000		300,000		300,000		-
2008 Series A Public Utility Revenue Bonds		-		6,865		13,600		20,200		168,190		268,095	2	74,210		279,955		285,540		290,000
2007 Series A Public Utility Revenue Bonds		-		_		_		_		115,580		218,715	2	18,715		218,715		218,715		218,715
2003 Public Utility Revenue Bonds		-		-		-		-		_		-		_		_		176,220		176,220
Notes Payable to the Federal																				
Government for Bloomington Dam		11,734		12,054		12,454		12,841		13,217		13,580		13,932		14,273		14,603		14,922
DC General Obligation Bonds		_		_		_		_		_		_		_		-		245		1,490
Notes Payable to WSSC for Little Seneca		-		-		-		-		-		-		-		63		104		142
Total Subordinate Debt		2,163,844		2,176,954		2,189,229		2,201,131		1,753,617		1,636,595	1,5	47,502		1,253,651		995,427		701,489
Total Senior and Subordinate debt		3,237,089		3,273,034		3,003,874		2,733,191		2,446,797		2,473,790	2,0	48,957		1,768,671		1,522,967	_	1,240,759
Unamortized bond premiums		246,460		259,578		222,786		198,677		104,060		76,098		79,313		79,674		28,255		29,929
Unamortized bond discounts		(1,835)		(1,964)		(2,093)		(2,222)		(2,351)		(2,480)		(2,608)	(2,784)		(2,879)		(2,968)
Total Debt	\$	3,481,714	\$	3,530,648	\$	3,224,567	\$	2,929,646	\$	2,548,506	\$	2,547,408 \$	2,	25,662	,	1,845,561	\$		\$ '	1,267,720
Dalet management		NI/A	•	F 000	•	4047	•	4001	¢	0.704	•	2.000 ^		2.000	_	0.040	^	0.505 1		0.000
Debt - per capita		N/A	\$	5,026		4,647	\$	4,301	\$	3,791	\$	3,866 \$	•	3,288		2,919		2,505	Þ	2,096
Debt - percentage of personal income		N/A		6.13%		5.81%		5.65%		5.17%		5.54%		4.37%)	3.90%		3.40%		2.94%

N/A: population and personal income not available

See exhibits 13 and 14 for per capita personal income and population data.

Total debt doesn't include outstanding debt associated with DC Water's short-term debt (commercial paper) program.

Source: D.C. Water Department of Finance & Budget

EXHIBIT 12 CALCULATION OF DEBT SERVICE COVERAGE FY 2019 (\$000)

Prepared in accordance with the Authority's Master Trust Indenture, which corresponds closely to the cash basis of accounting.

Calculation of Debt Service Coverage:	
Cash Receipts (Revenues)	
Retail	\$ 543,130
Wholesale	82,116
Other Non-Operating	69,191
Transfer from (Contributions to) Rate Stabilization Fund	-
Total Cash Receipts (A)	694,437
Cash Disbursements (Operating Expenses) (B)	314,529
Cash Receipts Less Cash Disbursements (C=A-B)	\$ 379,908
Debt Service:	
Senior Debt Service (D)	\$ 75,282
Subordinate Debt Service (E)	117,753
Total Outstanding and Projected Debt Service (F=D+E)	\$ 193,035
Calculation of Net Cash Receipts Available for Senior Debt Service:	
Cash Receipts Less Cash Disbursements (C)	\$ 379,908
Prior Year Federal Billing Reconciliation	(5,753)
(Refund to)/Payment from Wholesale Customers	 (10,940)
Net Cash Receipts Available for Senior Debt Service (G)	\$ 363,215
Senior Debt Service Coverage (G/D)	4.82
Calculation of Subordinate Debt Service Coverage:	
Net Cash Receipts Available for Senior Debt Service (G)	\$ 363,215
Less Senior Debt Service (D)	(75,282)
Net Cash Receipts Available for Subordinate Debt Service (G-D)	\$ 287,933
Subordinate Debt Service Coverage ((G-D)/E)	2.45
Combined Debt Service Coverage (G/F)	1.88

Source: D.C. Water Department of Finance & Budget

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4. Daniel and English and Engl
4. Demographic and Economic Information These schedules offer demographic and economic data to help explain the environment within which the Authority's financial activities take place.

EXHIBIT 13 POPULATION OF SERVICE AREA JURISDICTIONS LAST TEN CALENDAR YEARS

_	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
District of Columbia	N/A	702,455	693,972	681,170	672,228	658,893	646,449	632,323	617,996	604,912
Montgomery County, MD	N/A	1,052,567	1,058,810	1,043,863	1,040,116	1,030,447	1,016,677	1,004,709	989,794	975,439
Prince George's County, MD	N/A	909,308	912,756	908,049	909,535	904,430	890,081	881,138	871,233	865,219
Fairfax County, VA	N/A	1,190,141	1,187,113	1,176,830	1,180,139	1,175,622	1,168,405	1,155,292	1,135,992	1,121,054
Loudoun County, VA	N/A	406,850	398,080	385,945	375,629	363,050	349,679	336,898	325,405	315,305

N/A: Not Available

Source: U.S. Department of Commerce, Bureau of Economic Analysis

EXHIBIT 14 PERSONAL INCOME OF SERVICE AREA JURISDICTIONS LAST TEN CALENDAR YEARS (\$000)

_	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
District of Columbia	N/A	\$57,604,817	\$55,510,450	\$51,842,801	\$ 49,275,917	\$ 46,015,860	\$ 48,696,519	\$ 47,280,666	\$ 45,597,835	\$ 43,082,099
Montgomery County, MD	N/A	94,404,295	91,202,046	84,518,332	79,946,266	75,720,017	73,958,785	73,551,167	69,050,166	65,904,393
Prince George's County, MD	N/A	44,938,165	43,232,981	41,922,938	40,806,805	40,215,913	38,595,921	38,481,250	35,036,640	33,888,631
Fairfax County, VA	N/A	98,116,827	93,041,631	89,412,959	88,419,380	88,180,013	83,835,355	82,727,342	78,392,046	75,161,493
Loudoun County, VA	N/A	31,762,679	29,789,834	27,486,217	26,254,562	24,463,869	20,886,046	20,107,077	18,626,729	16,971,112

N/A: Not Available

Source: U.S. Department of Commerce, Bureau of Economic Analysis

EXHIBIT 15 PER CAPITA PERSONAL INCOME OF SERVICE AREA JURISDICTIONS LAST TEN CALENDAR YEARS

_	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
District of Columbia	N/A	\$ 82,005	\$ 79,989	\$ 76,108	\$ 73,302	\$ 69,838	\$ 75,329	\$ 74,773	\$ 73,783	\$ 71,220
Montgomery County, MD	N/A	89,690	86,136	80,967	76,863	73,483	72,746	73,206	69,762	67,564
Prince George's County, MD	N/A	49,420	47,365	46,168	44,866	44,465	43,362	43,672	40,215	39,168
Fairfax County, VA	N/A	82,441	78,376	75,978	74,923	75,007	71,752	71,607	69,008	67,045
Loudoun County, VA	N/A	78,070	74,834	71,218	69,895	67,384	59,729	59,683	57,242	53,824

N/A: Not Available

Source: U.S. Department of Commerce, Bureau of Economic Analysis

EXHIBIT 16 UNEMPLOYMENT RATES LAST TEN CALENDAR YEARS

_	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
District of Columbia	5.3%	6.0%	6.2%	6.5%	6.9%	7.0%	7.3%	8.2%	10.2%	10.1%
Montgomery County, MD	2.8%	3.2%	3.4%	3.2%	4.0%	4.1%	4.5%	4.7%	5.2%	5.8%
Prince George's County, MD	3.6%	4.1%	4.3%	4.1%	5.1%	5.5%	6.2%	6.5%	7.0%	7.7%
Fairfax County, VA	2.0%	2.3%	3.4%	3.3%	3.3%	3.6%	3.7%	3.6%	4.3%	4.9%
Loudoun County, VA	2.0%	2.3%	3.4%	3.3%	3.3%	3.6%	3.9%	3.7%	4.2%	4.8%

Source: U.S. Department of Labor, Bureau of Labor Statistics

EXHIBIT 17 EMPLOYMENT BY SECTOR

	DISTRICT OF	MONTGOMERY	PRINCE GEORGE'S	FAIRFAX	LOUDOUN
	COLUMBIA	COUNTY	COUNTY	COUNTY	COUNTY
					_
Agriculture, Forestry, Mining, etc.	0.05%	0.28%	0.09%	0.16%	0.69%
Construction	2.04%	5.55%	8.83%	4.50%	8.48%
Manager	0.040/	0.040/	4.000/	0.000/	0.400/
Manufacturing	0.24%	2.04%	1.88%	0.86%	3.43%
Transportation & Public Utilities	2.14%	3.82%	7.61%	N/A	6.96%
	2	0.0270			0.0070
Wholesale & Retail Trade	3.50%	8.62%	12.37%	9.91%	10.94%
Finance, Insurance & Real Estate	6.26%	11.70%	6.54%	10.00%	8.68%
Caminas	E0 620/	E 4 400/	40.400/	61.040/	40.640/
Services	58.63%	54.40%	42.12%	61.24%	49.64%
Government (Federal, State & Local)	25.60%	12.51%	19.01%	12.13%	10.67%
001011111 (1 0 1 0 1 1 1 1 1 1 1 1 1 1 1	20.0075	. = . 0 . 7 .			10.07 75
Military	1.52%	1.08%	1.56%	1.18%	0.53%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%

Source: U.S. Department of Commerce, Bureau of Economic Analysis Latest available data is for 2018

N/A: Not Available

5. Operating Information
These schedules contain information about the Authority's operations and resources to help he reader understand how the Authority's financial information relates to the activities it perform.

EXHIBIT 18 WATER DELIVERED (PUMPED) AND BILLED (SOLD) LAST TEN FISCAL YEARS

		TREATED		
	FISCAL	WATER	WATER	SOLD/PUMPED
	YEAR	DELIVERED (MG)	BILLED (MG)	RATIO
_				
	2010	38,589	29,004	75.16%
	2011	37,556	29,040	77.32%
	2012	36,930	27,988	75.79%
	2013	34,714	26,316	75.81%
	2014	34,708	25,374	73.11%
	2015	38,146	26,748	70.12%
	2016	36,363	26,325	72.40%
	2017	35,827	25,845	72.14%
	2018	34,343	25,526	74.33%
	2019	35,189	25,067	71.24%

Source: DC Water Department of Customer Service

EXHIBIT 19 WATER DEMAND LAST TEN FISCAL YEARS

FISCAL YEAR	ANNUAL DELIVERIES TO SYSTEM (MG)	AVERAGE DAY (MG)	MAXIMUM MONTH AVERAGE (MGD)	MAXIMUM DAY (MGD)	TOTAL ANNUAL WATER SOLD (MG)	AVERAGE DAY (MGD)
2010	38,589	105.7	130.5	146.9	29,004	79.5
2011	37,556	102.9	121.6	143.7	29,040	79.6
2012	36,930	100.9	125.3	142.9	27,988	76.7
2013	34,714	95.1	111.3	129.7	26,316	71.9
2014	34,708	95.1	106.6	123.7	25,374	72.1
2015	38,146	104.5	117.7	148.4	26,748	73.3
2016	36,363	99.4	113.8	127.7	26,325	72.1
2017	35,827	98.2	107.4	122.7	25,845	70.8
2018	34,343	94.1	110.9	132.5	25,526	69.9
2019	35,189	96.4	115.9	133.3	25,067	68.7

Source: DC Water Department of Water Services and Washington Aqueduct

EXHIBIT 20 MISCELLANEOUS STATISTICS ABOUT AUTHORITY OPERATIONS LAST TEN FISCAL YEARS

	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
Utilities and supplies per day at Blue Plains										
Electric power (kwh) - Total Used	702,000	678,000	632,220	615,000	700,000	700,000	700,000	700,000	700,000	700,000
Electric power (kwh) - Generated On Site	153,000	158,000	138,347	-	-	-	-	-	-	-
Sodium hypochlorite (gallons)	16,688	14,580	12,880	10,051	10,051	6,850	6,850	6,850	6,850	6,850
Sodium bisulfite (pounds)	14,915	12,130	9,085	7,880	7,880	5,600	5,600	5,600	5,600	5,600
Water (gallons)	525,000	525,000	525,000	525,000	525,000	525,000	525,000	525,000	525,000	525,000
Lime (tons, pounds), dry	-	-	-	-	39,000	72,050	72,050	72,050	72,050	72,050
Lime (gallons), slurry	3,221	1,150	3,095	-	-	-	-	-	-	-
Sodium hydroxide (pounds)	6,975	9,350	2,854	14,766	14,766	26,100	26,100	26,100	26,100	26,100
Methanol (gallons)	18,447	19,100	20,705	19,428	19,428	10,000	10,000	10,000	10,000	10,000
Ferric chloride (10% Iron) (gallons)	14,265	15,770	16,054	19,060	19,060	12,900	12,900	12,900	12,900	12,900
Wastewater treatment capacity										
Average day (mgd)	336	384	384	370	370	370	370	370	370	370
Peak 4 hour flow, through complete process (mgd)	667	550	511	511	511	740	740	740	740	740
Excess storm flow, primary treatment only (mgd)	-	-	336	336	336	336	336	336	336	336
Peak flow (mgd)	906	-	847	847	847	1,076	1,076	1,076	1,076	1,076
Captured Combined Flow,										
through Wet Weather Treatment	239	225	-	-	-	-	-	-	-	-
DC Water employees	1,111	1,165	1,134	1,121	1,164	1,079	1,080	1,051	1,032	1,004

Source: D.C. Water Department of Wastewater Treatment Operations

(CONTINUED ON NEXT PAGE)

EXHIBIT 20 MISCELLANEOUS STATISTICS ABOUT AUTHORITY OPERATIONS (CONTINUED)

Wastewater Plant Permit Limitations August 26, 2018 through August 25, 2023

Parameter	Monthly	Weekly			
Biochemical Oxygen Demand (carbonaceous)	5.0 mg/L (16,013 lbs./day)	7.5 mg/l (24,019 lbs./day)			
Total Suspended Solids (TSS)	6.1 mg/l (19,603 lbs./day)	NL (29,404 lbs./day)			
Ammonia Nitrogen Summer (5/1 – 10/31) Winter 1 (1/1 – 2/14) Winter 2 (2/15 – 4/30)	4.1 mg/l (13,130 lbs./day) 12.8 mg/l (40,993 lbs./day) 10.3 mg/l (32,986 lbs./day)	6.1 mg/l (19,536 lbs./day) 19.3 mg/l (61,809 lbs./day) 15.4 mg/l (49,319 lbs./day)			
Total Phosphorus (annual average)	0.17 mg/l (530 lbs./day)	0.34 mg/l (1,080 lbs./day)			
Dissolved Oxygen Minimum daily average Not less than	5.0 mg/l 4.0 mg/l				
pH Minimum Maximum	6.0 units 8.5 units				
Total Chlorine	Non detectable				
E.coli	126 cu/100ml Geometric (30 day)				
Chesapeake Bay Voluntary Agreement Total Nitrogen (Annual Average)	N/A				
U.S. Environmental Protection Agency Total Nitrogen (Annual Average)	4,370,078 lbs./yr				
Wastewater Plant Processes Primary Treatment					
Influent Pumping Capacity	1,300 MGD				
Number of bar screens	13				
Number of aerated grit chambers	16				
Total volume of aerated grit chambers	2.3 MG				
Number of primary clarifiers	36				
Average detention time (clarifiers)	2.5 hours				
Average hydraulic loading (clarifiers)	1,008 gallons/square foot/day				
Maximum hydraulic loading (clarifiers)	2,929 gallons/square foot/day				

EXHIBIT 20 MISCELLANEOUS STATISTICS ABOUT AUTHORITY OPERATIONS (CONTINUED)

Secondary Treatment		Effluent dissolved oxygen	3.8-7.2 mg/L
Number of reactors	6	(Post – Aeration)	
Total reactor volume	27.7 MG	Dual Purpose sedimentation tanks	
Number of clarifiers	24		4 Secondary Treatments
Average reactor detention time	1.6 hours		4 Nitrification Treatments
Average clarifier hydraulic loading	763 gal/sq ft./day	Total Dual Purpose Surface Area	197,160 sq. ft.
Number of centrifugal blowers	6		
Total blower capacity	280,000 cu ft. /min	Filtration & Disinfection	
Average MLSS	2,200 mg/L	Number of filters	40
Average SRT	1.6 days	Total filter area	83,200 sq. ft.
Average SVI	80-100 ml/g	Average filtration rate	3.4 gal/ minute/ sq. ft.
Effluent dissolved oxygen	2-3 mg/L	Average filter run time	55 hours
Effluent alkalinity	140 mg/L as CaCO3	Depth of anthracite media	24 inches
Nitrification / Denitrification		Depth of sand media	12 inches
Number of Nitrification reactors	12	Depth of Gravel Support Layer	12 inches
Total reactor volume	55.2 MG	Number of chlorine contact tanks	4
Number of Denitrification reactors	8	Average contact time	42 minutes
Total reactor volume	36.7 MG		
Number of clarifiers	28		
Average reactor detention time	3.3 hours		
Average clarifier hydraulic loading	755 gallons/square ft./day		
Average MLSS	2000 mg/L		
Average pH	7.0 units		
Average SRT	21 days		
Average SVI	80-110 ml/g		
Effluent alkalinity	110 mg/L as CaCO3		

EXHIBIT 21 SCHEDULE OF INSURANCE AS OF SEPTEMBER 30, 2019

TYPE OF COVERAGE	COMPANY	POLICY PERIOD	COVERAGE LIMITS				
Blanket Property and Boiler & Machinery	Alliant Public Entity Property Insurance Program (PEPIP)	July 1, 2019– July 1, 2020	\$1,000,000,000 Blanket Buildings and Contents (Specified Locations) and Mobile Equipment				
			\$100,000,000 Boiler and Machinery				
			\$25,000,000 Miscellaneous Locations				
			\$100,000,000 Earth Movement				
			\$100,000,000 Excess Flood (over NFIP), except \$25,000,000 Locations within 100 Year Flood Zone (e.g. Blue Plains)				
			Terrorism: \$700,000,000 per occurrence, \$1,600,000,000 annual aggregate (Alpha,Hiscox- \$250,000,000 of occurrence and aggregate limit dedicated solely to DC Water)				
			\$25,000,000 Transit Per Shipment				
			Deductibles: \$1,000,000 Any Loss, except \$10,000 Equipment				
Fidelity & Crime Insurance	AIG	July 1, 2019– July 1, 2020	\$10,000,000 - Employee Dishonesty, Forgery, Funds Transfer, Fraud, Money & Securities Deductible:				
			\$200,000 Per Occurrence				
Commercial General Liability	Self-Funded		\$1,000,000 each occurrence				
Commercial Automobile	Self-Funded		\$1,000,000 any one accident				
			100% Physical Damage - self-funded				
Worker's Compensation	Self-Funded		\$1,000,000 each accident				
			Statutory WC Benefits				
			Employer's Liability - \$1,000,000 Each Accident; \$1,000,000 Disease/ Employee				
Excess Worker's Compensation Insurance	Safety National	July 1, 2019– July 1, 2020	Unlimited - WC Benefits; \$3,000,000 - Employer's Liability (Included - Terrorism)				
			Retentions: \$1,000,000/accident; \$1,000,000 Disease/ Employee.				
Excess General Liability, Automobile Liability, and Employers Liability Insurance	AEGIS	July 1, 2019– July 1, 2020	\$35,000,000 in excess of \$1,000,000				
Excess Liability	EIM	July 1, 2019– July 1, 2020	\$65,000,000 in excess of \$35,000,000				
Public Official Liability	RSUI Indemnity / Chubb Insurance Company	July 1, 2019– July 1, 2020	\$20,000,000 Each Loss / Aggregate				
	insurance company		Retentions: \$250,000 per wrongful act				
Fiduciary Liability	Travelers Insurance	July 1, 2019– July 1, 2020	\$5,000,000 Each Loss / Aggregate				
			Deductible: \$0 per claim				
Cyber	XL	July 1, 2019– July 1, 2020	5,000,000 Each Loss/Aggregate Deductible: \$50,000				
Professional Liability	Lloyds of London	July 1, 2019– July 1, 2020	\$2,000,000 Each Loss Deductible: \$10,000				
National Flood	NFIP	July 1, 2019– July 1, 2020	\$500,000 building/contents Deductible: \$50,000 per building/contents				

EXHIBIT 22 SUMMARY OF MAJOR PERMITS AND ADMINISTRATIVE ORDERS AS OF SEPTEMBER 30, 2019

Wastewater	Description	Expiration Date	Current Status
National Pollutant Discharge Elimination System Permit # DC0021199	Permit issued to DC Water. Authorizes discharge of treated wastewater from Blue Plains Advanced Wastewater Treatment Plant (Plant) into the Potomac River and from the combined sewer system into Rock Creek, the Anacostia River, and the Potomac River. Prescribes operating conditions for the Plant and sewer system.	August 25, 2023	In Compliance
National Pollutant Discharge Elimination System Permit # DC0000221	Permit issued to Government of District of Columbia. Authorizes discharge from municipal separate storm sewer system (MS4) and prescribes certain actions that DC Water has agreed to perform including:	June 22, 2023	In Compliance
	Responding to sanitary sewer overflows (SSO)		
	Reporting SSOs that overflow to MS4 system to public health agencies		
	Cleaning catch basins and removing trash from waterbodies		
	Maintaining storm sewer system infrastructure		
	Collection of stormwater fees for the District of Columbia		
1995 Consent Decree	Requires certain actions including:	N/A	In Compliance
Civil Action No.: 90-1643-JGP and	Review procurement practices & maintenance procedures		All items completed; awaiting action to
84-2842-JGP	Undertake Operational Capability Review		terminate decree
	Conduct a pilot project for biological nitrogen reduction		
1996 Stipulated Agreement & Order	Requires certain actions including:	N/A	In Compliance
Civil Action No.: 96-669-TFH	Rehabilitate and maintain certain facilities and capital equipment in good operating condition		All items completed; awaiting action to terminate agreement and
	Maintain certain records and data for status reports and prepare monthly reports on status of compliance		order
	Maintain user fees in separate accounts and make timely payment of invoices		
2003 Consent Decree	Requires certain actions including:	N/A	In Compliance
Civil Action No.: 1:00CV00183TFH	Replacement/repair of control structures		
Civil Action No.: 02-2511 (TFH)	Cleaning/inspection of catch basins Rehabilitation of pumping stations Rehabilitation of Blue Plains grit chambers and influent screens Inspection of certain sewers and siphons Public education/outreach activities Payment of civil penalty of \$250,000 Conduct/support of supplemental environmental projects		
2005 Modified Consent Decree for CSS LTCP	Requires implementing projects for various components of	N/A	In Compliance
Consolidate Civil Action No;	the combined sewer system (CSS) long term control plan (LTCP). On January 14, 2016, the Court entered the First		
1:00CV00183TFH	Amendment to the Consent Decree to incorporate DC Water's Total Nitrogen Wet Weather Plan and modify the requirement for the Potomac and Rock Creek watersheds to include Green/Gray Infrastructure in Potomac watershed, and Gray Infrastructure in the Rock Creek watershed. The Consent Decree does not have an expiration date.		
DC Department of Energy and the Environment	Permit to operate the enhanced nitrogen removal facility	12/13/2023	In Compliance
DC Department of Energy and The Environment	Permit to construct and operate biosolids project – main process train/combined heat & power/final dewatering facility	4/19/2023	In Compliance

EXHIBIT 23 BUDGETARY COMPARISON SCHEDULE FOR FISCAL YEAR 2019

	Approved Budget		Actual Expenditures		Variance	
Expenditures	 					
Personnel services	\$ 162,620	\$	157,979	\$	4,641	
Contractual services	81,679		76,204		5,475	
Water purchases	30,520		32,430		(1,910)	
Chemicals and supplies	32,091		34,979		(2,888)	
Utilities and rent	26,905		25,778		1,127	
Small equipment	1,240		731		509	
Interest and fiscal charges (debt service)	199,025		178,359		20,666	
Payment in lieu of tax & right of way fee	21,702		21,702		-	
Cash financed capital improvements	26,999		-		26,999	
Total budgetary basis expenditures	\$ 582,780	\$	528,161	\$	54,619	

Reconciliation between total budgetary basis expenditures and total expenses reported in statements of revenues, expenses and changes in net position

Capitalized personnel expenditures	(17,589)
Depreciation and amortization expense	127,501
Long-term debt - principal payments	(36,038)
Long-term debt - capitalized interest	(50,571)
Build America Bonds subsidy	5,356
Inventory issuances	844
Blue Drop	324
Non-budgeted expenses	7,525
Total expenses reported in statements of revenues, expenses	
and changes in net position	\$ 565,513

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EXHIBIT 23 BUDGETARY COMPARISON SCHEDULE FOR FISCAL YEAR 2019 (CONTINUED)

BUDGETARY ACCOUNTING AND CONTROL

Budget Law

The Authority prepares its operating and capital budgets under the provisions of its enabling legislation. In accordance with those provisions, the following process is used to adopt the annual budget.

- Development of the 10-year financial plan
- Development of individual departmental operating budgets, based on the financial framework in the 10-year financial plan
- Review and development of the Authority wide proposed budget by the Chief Executive Officer (CEO) and General Manager
- Presentation of proposed budget to the Board of Directors
- Review and recommendation of proposed budget by the various Board Committees
- Adoption of proposed budget by the Board of Directors
- Submission of proposed budget to the District of Columbia for inclusion in its budget
- District of Columbia budget submission to U.S. Congress
- Approval of proposed budget by U.S. Congress and President

Budgetary Accounting

The Authority is a single enterprise fund and maintains accounting records using the accrual basis of accounting, in accordance with U.S. generally accepted accounting principles (GAAP). Under this basis of accounting, revenues are recognized when earned, and expenses are recognized when goods and services are received. The Authority's expenditure budget is prepared on a comparable basis to GAAP, with the exception of debt service, which is budgeted in full when due, including principal and interest. Depreciation is not budgeted; depreciation is recorded as an expense for financial statement purposes. Certain other items are also not budgeted such as bad debt expense or (recovery) and loss (gain) on disposals of fixed assets or inventory.

Budgetary Requirements

After the U.S. Congress approves the budget, the operating and capital budgets are loaded into the Authority's financial management system, which prevents overspending without appropriate approvals. The Department of Finance prepares monthly management reports for each operating unit, management staff, the Board of Directors, and its various committees. The reports are consistently reviewed each month to ensure the Authority complies with its authorized budget levels.