

Statistical Section (Unaudited)

# **Statistical Section (Unaudited)**

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)

	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Operating revenues										
Residential, commercial and multi-family customers	\$ 459,572 \$	443,481	\$ 425,492 \$	401,246	\$ 382,552	\$ 335,711	\$ 295,209 \$	\$ 275,337 \$	256,846	\$ 241,475
Federal government	80,122	73,393	73,551	67,672	63,417	54,274	39,001	45,187	48,381	43,033
District government and DC Housing Authority	46,781	45,816	42,710	40,483	38,185	32,948	28,852	21,677	24,713	25,123
Charges for wholesale wastewater treatment	117,166	114,766	121,961	101,619	91,873	112,522	96,845	87,178	94,549	90,414
Other	33, 187	27,691	20,788	32,149	19,762	14,460	13,917	9,700	16,077	8,210
Total Operating Revenues	736,828	705,147	684,502	643,169	595,789	549,915	473,824	439,079	440,566	408,255
Operating expenses										
Personnel services	135,005	141,040	142,342	132,124	124,239	115,233	108,467	103,908	97,784	93,240
Contractual services	74,064	75,818	74,627	72,611	74,086	66,241	68,172	68,417	64,939	71,055
Chemicals, supplies and small equipment	30,602	36,579	31,152	33,381	29,524	32,935	31,748	28,987	28,815	28,188
Utilities and rent	24,708	25,813	26,163	24,262	23,934	30,848	29,939	26,098	26,786	29,429
Depreciation and amortization	135,590	127,501	115,453	97,900	89,512	83,857	77,833	77,330	74,342	70,209
Water purchases	31,696	32,430	28,357	26,796	26,345	29,109	28,407	27,223	28,389	27,170
Payment in lieu of taxes and right of way fee	22,034	21,702	21,376	21,057	20,744	20,437	11,458	21,982	21,982	21,982
Total operating expenses	453,699	460,883	439,470	408,131	388,384	378,660	356,024	353,945	343,037	341,273
Operating income	283,129	244,264	245,032	235,038	207,405	171,255	117,800	85,134	97,529	66,982
Non-operating revenue (expenses)										
Interest income	8,846	9,307	5,866	3,740	2,629	1,316	977	1,144	749	2,036
Interest expense and other nonoperating expenses	(91,724)	(104,630)	(93,956)	(68,293)	(69,118)	(61,409)	(69,288)	(63,905)	(74,001)	(73,335)
Total non-operating (expenses)	(82,878)	(95,323)	(88,090)	(64,553)	(66,489)	(60,093)	(68,311)	(62,761)	(73,252)	(71,299)
Change in net position before capital contributions	200,251	148,941	156,942	170,485	140,916	111,162	49,489	22,373	24,277	(4,317)
Capital contributions	22,727	16,313	30,419	24,066	32,431	67,965	94,690	58,310	58,957	47,374
Change in net position	222,978	165,254	187,361	194,551	173,347	179,127	144,179	80,683	83,234	43,057
Net position, beginning 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	\$ 2,473,433 \$	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

Source: FY 2011 - 2020 Statements of Revenues, Expenses and Changes in Net Position.

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

	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Net investments in capital assets	\$2,129,340	\$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
Restricted	35,222	43,762	38,907	33,276	33,135	27,054	28,863	29,010	27,297	26,825
Unrestricted	308,871	270,907	237,672	208,697	178,229	154,832	191,000	135,006	142,259	141,538
Total net postion	\$2,473,433	\$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

Source: FY 2011 - 2020 Statements of Net Position

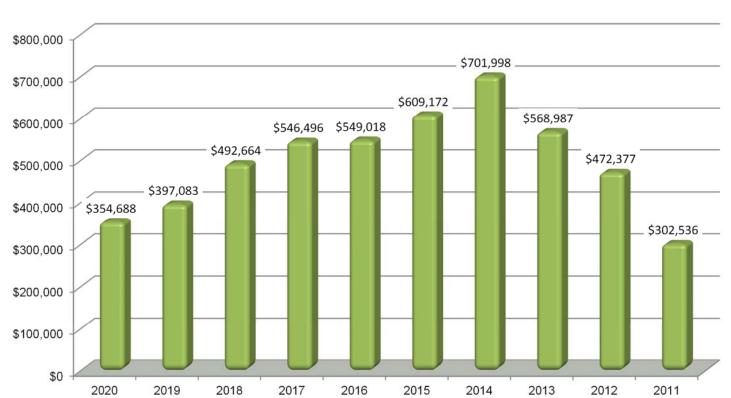


EXHIBIT 3 CAPITAL DISBURSEMENTS LAST TEN FISCAL YEARS (\$000)

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

Source: FY 2011 – 2020 Statements of Cash Flows.

# 2. Revenue Capacity

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

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

	20	20	2019	2018	2017	2016	2015	2014	2013	2012	2011
Operating Revenues											
Retail Customers											
Residential, Commercial and Multifamily	\$ 45	9,572	\$443,481	\$425,492	\$401,246	\$382,552	\$335,711	\$295,209	\$275,337	\$256,846	\$241,475
Federal Government	8	80,122	73,393	73,551	67,672	63,417	54,274	39,001	45,187	48,381	43,033
DC Government	3	4,439	33,985	31,980	30,429	28,890	24,453	21,205	14,714	18,213	17,827
DC Housing Authority	1	2,342	11,831	10,730	10,054	9,295	8,495	7,647	6,963	6,500	7,296
Other Revenues	3	3,187	27,691	20,788	32,149	19,762	14,460	13,917	9,700	16,077	8,210
Total Retail Customers	61	9,662	590,381	562,541	541,550	503,916	437,393	376,979	351,901	346,017	317,841
Wholesale Customers	11	7,166	114,766	121,961	101,619	91,873	112,522	96,845	87,178	94,549	90,414
Total Operating Revenues	\$ 73	6,828	\$705,147	\$684,502	\$643,169	\$595,789	\$549,915	\$473,824	\$439,079	\$440,566	\$408,255
Retail Rate Increases	1	1.50%	5.00%	5.00%	5.00%	6.50%	7.50%	5.50%	5.50%	4.50%	12.50%

Source: FY 2011 - 2020 Statements of Revenues, Expenses and Changes in Net Position

	2020	2019	2018 <sup>(A)</sup>	2017	2016	2015	2014	2013	2012	2011
Retail Accounts										
Residential	106,656	106,097	105,430	105,762	106,120	105,735	104,965	104,477	103,887	103,857
Commercial <sup>(B)</sup>	17,399	17,369	17,363	18,807	18,828	18,947	19,433	19,343	19,242	19,165
Governmental										
Federal	457	459	459	560	558	550	542	542	538	549
District of Columbia	524	523	517	650	641	638	641	630	605	607
DC Housing Authority	1,077	1,124	1,130	1,457	1,462	1,446	1,452	1,460	1,435	1,431
Total Retail Accounts	126,113	125,572	124,899	127,236	127,609	127,316	127,033	126,452	125,707	125,609
DC Water	29	29	30	39	39	39	37	36	36	35
Washington Aqueduct	1	2	2	2	2	2	2	2	2	2
Wholesale	7	7	7	7	7	7	7	7	7	7
Total Number of Accounts	126,150	125,610	124,938	127,284	127,657	127,364	127,079	126,497	125,752	125,653

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

<sup>(A)</sup> DC Water began excluding inactive accounts in 2018 after conversion to new CIS.

<sup>(B)</sup> Included in commercial are multi-family and exempt accounts

Source: D.C. Water Department of Customer Service

	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Howard University	\$ 3,710,923 \$	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
George Washington University	3,268,007	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
William C Smith & Co	2,496,772	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
Washington Hospital Center	2,455,804	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
Horning Brothers	2,076,006	1,697,812	-	-	1,335,613	-	1,347,287	1,258,995	1,163,586	1,122,879
Georgetown University	1,958,462	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
Children's Hospital	1,279,259	-	831,854	-	-	-	-	-	-	-
Cafritz	1,092,288	-	-	-	-	-	-	-	-	-
Medstar-Georgetown Medical Center	1,031,263	-	850,673	807,540	-	-	-	-	-	-
American University	987,647	1,005,881	1,004,977	750,235	1,001,742	1,078,412	1,125,050	1,253,038	869,211	-
Amtrak	-	1,924,967	1,046,179	983,224	1,019,570	1,028,989	984,336	1,004,177	937,430	903,475
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
Metropolitan Washington Airports Authority	-	-	1,280,248	1,068,877	1,008,250	923,394	807,803	716,929	661,509	-
Shoreham Hotel	-	-	-	-	-	1,035,982	-	-	-	-
Soldiers Home	-	-	-	-	-	-	-	-	-	897,121
The Barac Company	-	-	-	-	-	-	-	-	-	927,022
Total	\$ 20,356,430 \$	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
% of Total Operating Revenues	2.76%	2.85%	2.57%	2.51%	2.89%	2.93%	3.60%	3.53%	3.40%	3.53%

#### EXHIBIT 6 TEN LARGEST COMMERCIAL CUSTOMERS LAST TEN FISCAL YEARS

Source: DC Water Department of Customer Service

	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
	2020	2013	2010	2017	2010	2013	2014	2013	2012	2011
D.C. Housing Authority	\$ 9,921,080 \$	§ 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
U.S. General Services Administration	9,536,411	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
U.S. Congress	6,157,111	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
Smithsonian Institution	6,138,774	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
Bolling Air Force Base	4,798,312	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	4,003,435	2,834,531	2,082,125	-	-	4,020,624	3,275,936	3,275,936	3,527,613	2,873,310
Federal Naval Research Lab	3,553,343	2,779,271	2,209,408	1,853,214	1,975,742	1,802,150	1,542,370	1,833,491	1,788,497	-
D.C. Board of Education	2,908,559	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
National Park Service	2,707,685	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
Department of the Navy	1,894,810	1,951,907	1,732,073	1,662,225	1,708,908	-	-	1,521,264	1,886,750	3,832,568
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
Department of Defense DC	-	-	-	-	-	-	-	-	-	2,151,529
Total	\$ 51,619,519 \$	\$ 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
% of Total Operating Revenues	7.01%	6.17%	5.57%	5.93%	6.47%	6.82%	6.85%	7.88%	8.14%	9.27%

#### EXHIBIT 7 TEN LARGEST GOVERNMENT CUSTOMERS LAST TEN FISCAL YEARS

Source: DC Water Department of Customer Service

			(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 <sup>2</sup>	BILL <sup>1</sup>
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	6.640	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	7.75	10.92	23.00	96.03
2020	3.860	6.30	0.70	3.33 <sup>3</sup>	8.89	12.22	20.94	101.13

#### EXHIBIT 8 RETAIL WATER AND SEWER RATES LAST TEN FISCAL YEARS

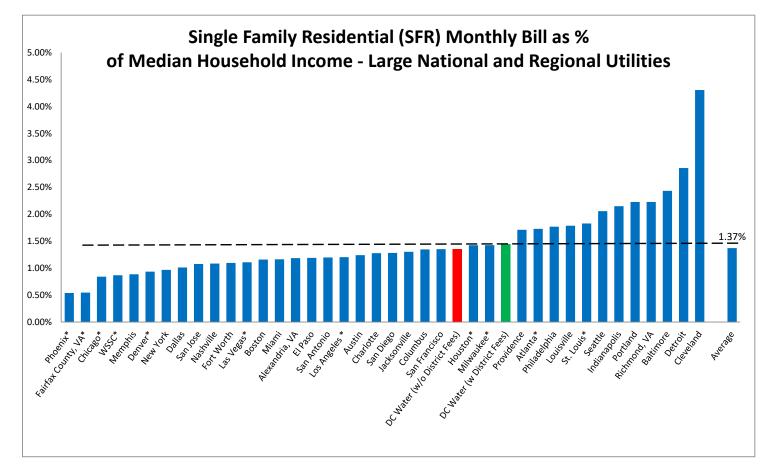
<sup>1</sup> Average residential customer consumption is 6.2 Ccf per month for up to FY 2018 and 5.42 Ccf for FY 2019 and FY2020. The average monthly bill is calculated as follows (a)+(b)+(g)+(((c)+(f)) x 5.42 Ccf))

<sup>2</sup> Per Equivalent Residential Unit (ERU).

<sup>3</sup> Weighted average water rate for residential customers.

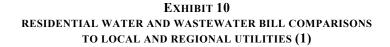
Source: D.C. Water Department of Finance & Budget

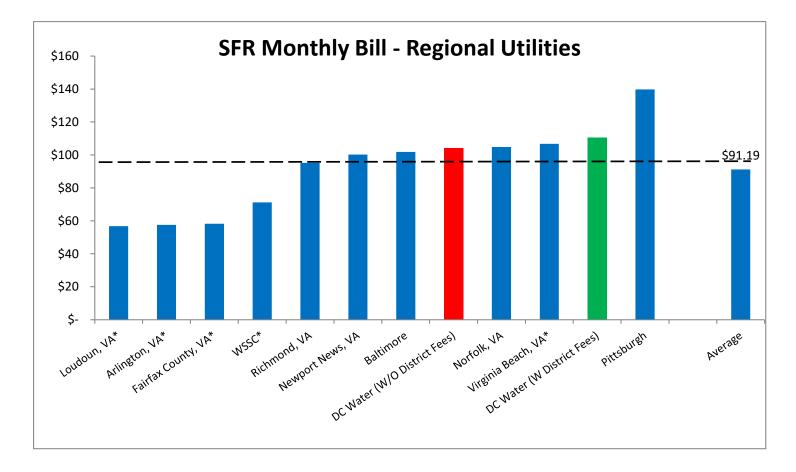
EXHIBIT 9 RESIDENTIAL WATER AND WASTEWATER BILL COMPARISONS AS A PERCENTAGE OF MEDIAN HOUSEHOLD INCOME (1)



(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 winter 2020.

Source: DC Water Department of Finance & Budget





(1) This analysis represents single family residential average monthly bill based on rates in effect winter 2020.

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.

1,845,561 \$ 1,548,343

2,505

3.40%

2,919 \$

3.90%

2,125,662 \$

3,288 \$

4.37%

			001		LAST TH					105				
					\$000, EX									
		2020	2019	G	2018	CF	2017	U.	2016	2015	2014	2013	2012	2011
Senior Debt:		2020	2019		2018		2017		2016	 2015	2014	2013	2012	2011
2018 Series A Public Utility Revenue Bonds	\$	100,000 \$	100,000	\$	100,000	\$	-	\$	-	\$ - \$	- \$	- \$	- \$	-
2018 Series B Public Utility Revenue Bonds		196,675	200,000	)	200,000		-		-	-	-	-	_ `	-
2017 Series A Public Utility Revenue Bonds		100,000	100,000	)	100,000		100,000		-	-	-	-	-	-
2017 Series B Public Utility Revenue Bonds		193,760	196,955	;	200,000		200,000		-	-	-	-	-	-
2014 Public Utility Revenue Bonds		350,000	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	293,720	296,205	298,225
1998 Public Utility Revenue Bonds		109,870	126,290	)	141,855		156,605		170,525	183,660	196,050	207,735	218,815	229,315
Total Senior Debt	_	1,050,305	1,073,245	i	1,096,080		814,645		532,060	693,180	837,195	501,455	515,020	527,540
Subordinate Debt:														
2019 Series A Public Utility Revenue Bonds	\$	104,010 \$		\$	-	\$	-	\$	-	\$ - \$	- \$	- \$	- \$	-
2019 Series B Public Utility Revenue Bonds		58,320			-		-		-	-	-	-	-	-
2019 Series C Public Utility Revenue Bonds		99,505			-		-		-	-	-	-	-	-
2019 Series D Public Utility Revenue Bonds		343,160			-		-		-	-	-	-	-	-
2016 Series A Public Utility Revenue Bonds		377,575	389,110	)	389,110		389,110		389,110	-	-	-	-	-
2016 Series B Public Utility Revenue Bonds		25,000	25,000	)	25,000		25,000		25,000	-	-	-	-	-
2015 Series A Public Utility Revenue Bonds		97,420	99,420	)	100,000		100,000		100,000	-	-	-	-	-
2015 Series B Public Utility Revenue Bonds		250,000	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	50,000	-	-	-
2014 Series B-2 Public Utility Revenue Bonds		50,000	50,000	)	50,000		50,000		50,000	50,000	50,000	-	-	-
2014 Series C Public Utility Revenue Bonds		376,580	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	300,000	-	-
2012 Series A Public Utility Revenue Bonds		142,665	148,255	;	153,600		158,740		163,655	168,405	172,990	177,430	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	163,215	163,215	163,215	-
2010 Series A Public Utility Revenue Bonds		300,000	300,000	)	300,000		300,000		300,000	300,000	300,000	300,000	300,000	300,000
2008 Series A Public Utility Revenue Bonds		-			6,865		13,600		20,200	168,190	268,095	274,210	279,955	285,540
2007 Series A Public Utility Revenue Bonds		-			-		-		-	115,580	218,715	218,715	218,715	218,715
2003 Public Utility Revenue Bonds		-			-		-		-	-	-	-	-	176,220
Notes Payable to the Federal														
Government for Bloomington Dam		11,310	11,734		12,054		12,454		12,841	13,217	13,580	13,932	14,273	14,603
DC General Obligation Bonds		-			-		-		-	-	-	-	-	245
Notes Payable to WSSC for Little Seneca		-			-		-		-	-	-	-	63	104
Total Subordinate Debt		2,448,760	2,163,844		2,176,954		2,189,229		2,201,131	1,753,617	1,636,595	1,547,502	1,253,651	995,427
Total Senior and Subordinate debt		3,499,065	3,237,089	)	3,273,034		3,003,874		2,733,191	2,446,797	2,473,790	2,048,957	1,768,671	1,522,967
Unamortized bond premiums		270,117	246,460	)	259,578		222,786		198,677	104,060	76,098	79,313	79,674	28,255
Unamortized bond discounts		(1,706)	(1,835	5)	(1,964)		(2,093)		(2,222)	(2,351)	(2,480)	(2,608)	(2,784)	(2,879)

**EXHIBIT 11 OUTSTANDING DEBT AND DEBT RATIOS** 

N/A: population and personal income not available

Debt - percentage of personal income

Total Debt

Debt - per capita

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.

N/A

N/A

\$

3,767,476 \$

\$

3,481,714 \$ 3,530,648 \$

5,026 \$

6.13%

4,933 \$

5.91%

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

3,224,567 \$ 2,929,646 \$

4,301 \$

5.65%

4,647 \$

5.81%

2,548,506 \$ 2,547,408 \$

3,866 \$

5.54%

3,791 \$

5.17%

#### EXHIBIT 12 CALCULATION OF DEBT SERVICE COVERAGE FY 2020 (\$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	\$ 551,188
Wholesale	79,157
Other Non-Operating	79,752
Transfer from (Contributions to) Rate Stabilization Fund	 (28,794)
Total Cash Receipts (A)	681,303
Cash Disbursements (Operating Expenses) (B)	300,187
Cash Receipts Less Cash Disbursements (C=A-B)	\$ 381,116
Debt Service:	
Senior Debt Service (D)	\$ 72,202
Subordinate Debt Service (E)	 126,854
Total Outstanding and Projected Debt Service (F=D+E)	\$ 199,056
Calculation of Net Cash Receipts Available for Senior Debt Service:	
Cash Receipts Less Cash Disbursements (C)	\$ 381,116
Prior Year Federal Billing Reconciliation	1,317
(Refund to)/Payment from Wholesale Customers	14,925
(Additions to)/Transfers from DC PILOT Fund	(4,000)
(Additions to)/Transfers from DC ROW Fund	 (15,000)
Net Cash Receipts Available for Senior Debt Service (G)	\$ 378,358
Senior Debt Service Coverage (G/D)	5.24
Calculation of Subordinate Debt Service Coverage:	
Net Cash Receipts Available for Senior Debt Service (G)	\$ 378,358
Less Senior Debt Service (D)	(72,202)
Net Cash Receipts Available for Subordinate Debt Service (G-D)	\$ 306,156
Subardinata Dabt Camilas Causaras ((C. D.)(E)	0.44
Subordinate Debt Service Coverage ((G-D)/E)	 2.41
Combined Debt Service Coverage (G/F)	 1.90

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

# 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.

-	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
District of Columbia	N/A	705,749	702,455	693,972	681,170	672,228	658,893	646,449	632,323	617,996
Montgomery County, MD	N/A	1,050,688	1,052,567	1,058,810	1,043,863	1,040,116	1,030,447	1,016,677	1,004,709	989,794
Prince George's County, MD	N/A	909,327	909,308	912,756	908,049	909,535	904,430	890,081	881,138	871,233
Fairfax County, VA	N/A	1,186,168	1,190,141	1,187,113	1,176,830	1,180,139	1,175,622	1,168,405	1,155,292	1,135,992
Loudoun County, VA	N/A	413,538	406,850	398,080	385,945	375,629	363,050	349,679	336,898	325,405

#### EXHIBIT 13 POPULATION OF SERVICE AREA JURISDICTIONS LAST TEN CALENDAR YEARS

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)

_	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
District of Columbia	N/A	\$58.863.955	\$57.604.817	\$55.510.450	\$ 51.842.801	\$ 49.275.917	\$ 46.015.860	\$ 48.696.519	\$ 47.280.666	\$ 45.597.835
Montgomery County, MD	N/A	94.708.400	94.404.295	91.202.046	\$ 51,642,601 84.518.332	<sup>3</sup> 49,275,917 79.946.266	\$ 40,015,800 75.720.017	<sup>3</sup> 40,090,519 73.958.785	\$ 47,200,000 73.551.167	\$ 45,597,655 69,050,166
Prince George's County, MD	N/A	46.034.388	44.938.165	43.232.981	41.922.938	40.806.805	40.215.913	38.595.921	38.481.250	35,036,640
Fairfax County, VA	N/A	102,177,189	98,116,827	93,041,631	89,412,959	88,419,380	88,180,013	83,835,355	82,727,342	78,392,046
Loudoun County, VA	N/A	33,460,894	31,762,679	29,789,834	27,486,217	26,254,562	24,463,869	20,886,046	20,107,077	18,626,729

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

_	2020		2019		2018		2017	2016 2015		2014			2013		2012		2011		
District of Columbia	NI/ A	۴	02 406	¢	92.005	¢	70.000	¢	76 100	¢	72 202	¢	60.020	¢	75 220	¢	74 770	¢	70 700
District of Columbia	N/A	\$	83,406	Ф	82,005	\$	79,989	\$	76,108	\$	73,302	\$	69,838	\$	75,329	\$	74,773	\$	73,783
Montgomery County, MD	N/A		90,139		89,690		86,136		80,967		76,863		73,483		72,746		73,206		69,762
Prince George's County, MD	N/A		50,625		49,420		47,365		46,168		44,866		44,465		43,362		43,672		40,215
Fairfax County, VA	N/A		86,141		82,441		78,376		75,978		74,923		75,007		71,752		71,607		69,008
Loudoun County, VA	N/A		80,914		78,070		74,834		71,218		69,895		67,384		59,729		59,683		57,242

#### N/A: Not Available

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

-	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
District of Columbia	9.2%	5.3%	6.0%	6.2%	6.5%	6.9%	7.0%	7.3%	8.2%	10.2%
Montgomery County, MD	7.0%	2.8%	3.2%	3.4%	3.2%	4.0%	4.1%	4.5%	4.7%	5.2%
Prince George's County, MD	9.6%	3.6%	4.1%	4.3%	4.1%	5.1%	5.5%	6.2%	6.5%	7.0%
Fairfax County, VA	5.8%	2.0%	2.3%	3.4%	3.3%	3.3%	3.6%	3.7%	3.6%	4.3%
Loudoun County, VA	5.2%	2.0%	2.3%	3.4%	3.3%	3.3%	3.6%	3.9%	3.7%	4.2%

#### EXHIBIT 16 UNEMPLOYMENT RATES LAST TEN CALENDAR YEARS

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

	DISTRICT OF COLUMBIA	MONTGOMERY COUNTY	PRINCE GEORGE'S COUNTY	FAIRFAX COUNTY	LOUDOUN COUNTY
Agriculture, Forestry, Mining, etc.	0.04%	0.24%	0.08%	0.12%	0.66%
Construction	1.95%	5.62%	9.47%	4.57%	8.53%
Manufacturing	0.23%	2.03%	1.85%	0.83%	3.44%
Transportation & Public Utilities	1.87%	3.58%	7.28%	0.00%	7.05%
Wholesale & Retail Trade	3.53%	8.47%	11.95%	9.55%	10.52%
Finance, Insurance & Real Estate	6.51%	11.92%	6.76%	10.13%	8.76%
Services	58.97%	54.67%	42.21%	61.69%	49.80%
Government (Federal, State & Local)	25.37%	12.39%	18.83%	11.93%	10.72%
Military	1.53%	1.09%	1.57%	1.18%	0.52%
TOTAL	100.00%	100.01%	100.00%	100.00%	100.00%

#### EXHIBIT 17 EMPLOYMENT BY SECTOR

Source: U.S. Department of Commerce, Bureau of Economic Analysis Latest available data is for 2019

N/A: Not Available

# 5. Operating Information

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

	TREATED		
FISCAL	WATER	WATER	SOLD/PUMPED
YEAR	DELIVERED (MG)	BILLED (MG)	RATIO
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%
2020	33,639	24,370	72.45%

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

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)
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
2020	33,639	91.9	107.2	123.4	24,370	66.6

Source: DC Water Department of Water Services and Washington Aqueduct

# EXHIBIT 20 MISCELLANEOUS STATISTICS ABOUT AUTHORITY OPERATIONS LAST TEN FISCAL YEARS

	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Utilities and supplies per day at Blue Plains										
Electric power (kwh) - Total Used	674,000	702,000	678,000	632,220	615,000	700,000	700,000	700,000	700,000	700,000
Electric power (kwh) - Generated On Site	153,000	153,000	158,000	138,347	-	-	-	-	-	-
Sodium hypochlorite (gallons)	10,456	16,688	14,580	12,880	10,051	10,051	6,850	6,850	6,850	6,850
Sodium bisulfite (pounds)	12,738	14,915	12,130	9,085	7,880	7,880	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
Lime (gallons), slurry	2,321	3,221	1,150	3,095	-	-	-	-	-	-
Sodium hydroxide (pounds)	4,545	6,975	9,350	2,854	14,766	14,766	26,100	26,100	26,100	26,100
Methanol (gallons)	17,288	18,447	19,100	20,705	19,428	19,428	10,000	10,000	10,000	10,000
Ferric chloride (10% Iron) (gallons)	13,900	14,265	15,770	16,054	19,060	19,060	12,900	12,900	12,900	12,900
Wastewater treatment capacity										
Average day (mgd)	384	336	384	384	370	370	370	370	370	370
Peak 4 hour flow, through complete process (mgd)	555	667	550	511	511	511	740	740	740	740
Excess storm flow, primary treatment only (mgd)	-	-	-	336	336	336	336	336	336	336
Peak flow (mgd)	780	906	-	847	847	847	1,076	1,076	1,076	1,076
Captured Combined Flow,										
through Wet Weather Treatment	225	239	225	-	-	-	-	-	-	-
DC Water employees	1,086	1,111	1,165	1,134	1,121	1,164	1,079	1,080	1,051	1,032

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	
<u>Wastewater Plant Processes</u> 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
<b>Nitrification / Denitrification</b>		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, 2020

TYPE OF COVERAGE	COMPANY	POLICY PERIOD	COVERAGE LIMITS			
Blanket Property and Boiler & Machinery	Alliant Public Entity Property Insurance Program (PEPIP)	July 1, 2020– July 1, 2021	\$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, 2020– July 1, 2021	\$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 ceneral Elability						
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, 2020– July 1, 2021	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, 2020– July 1, 2021	\$35,000,000 in excess of \$1,000,000			
Excess Liability	EIM	July 1, 2020– July 1, 2021	\$65,000,000 in excess of \$35,000,000			
Public Official Liability	RSUI Indemnity / Chubb	July 1, 2020– July 1, 2021	\$20,000,000 Each Loss / Aggregate			
	Insurance Company		Retentions: \$250,000 per wrongful act			
Fiduciary Liability	Travelers Insurance	July 1, 2020– July 1, 2021	\$5,000,000 Each Loss / Aggregate			
			Deductible: \$0 per claim			
Cyber	XL	July 1, 2020– July 1, 2021	5,000,000 Each Loss/Aggregate Deductible: \$50,000			
Professional Liability	Lloyds of London	July 1, 2020– July 1, 2021	\$2,000,000 Each Loss Deductible: \$10,000			
National Flood	NFIP	July 1, 2020– July 1, 2021	\$500,000 building/contents Deductible: \$50,000 per building/contents			

# EXHIBIT 22 SUMMARY OF MAJOR PERMITS AND ADMINISTRATIVE ORDERS AS OF SEPTEMBER 30, 2020

	AS OF SEPTEMBER 30, 2020					
Wastewater	Description	Expiration	Current			
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.	<b>Date</b> August 25, 2023	Status 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 terminate decree			
84-2842-JGP	Undertake Operational Capability Review					
	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; awaitin action to terminate agreeme and order			
	Maintain certain records and data for status reports and prepare monthly reports on status of compliance					
	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 the combined sever system (CSS) long term control plan (LTCP). On	N/A	In Compliance			
Consolidate Civil Action No;	January 14, 2016, the Court entered the First Amendment to the Consent Decree to incorporate DC Water's Total Nitrogen Wet					
1:00CV00183TFH	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			
DC Department of Energy and The Environment	Title V permit for all sources located at Blue Plains WWTP	N/A	In Compliance – application submitted pending issuance			

#### EXHIBIT 23 BUDGETARY COMPARISON SCHEDULE FOR FISCAL YEAR 2019

	Approved		Actual			
		Budget		Expenditures		ariance
Expenditures						
Personnel services	\$	170,680	\$	159,244	\$	11,436
Contractual services		81,886		74,326		7,560
Water purchases		34,929		31,696		3,233
Chemicals and supplies		33,158		28,659		4,499
Utilities and rent		26,953		24,705		2,248
Small equipment		989		806		183
Interest and fiscal charges (debt service)		215,340		189,017		26,323
Payment in lieu of tax & right of way fee		22,034		22,034		-
Cash financed capital improvements		28,556		-		28,556
Total budgetary basis expenditures	\$	614,524	\$	530,486	\$	84,038

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

Capitalized personnel expenditures	(24,907)
Depreciation and amortization expense	135,590
Long-term debt - principal payments	(43,019)
Long-term debt - capitalized interest	(60,658)
Build America Bonds subsidy	5,373
Inventory issuances	1,083
Blue Drop	464
Non-budgeted expenses	 1,011
Total expenses reported in statements of revenues, expenses and	
changes in net position	\$ 545,423

(CONTINUED ON NEXT PAGE)

# EXHIBIT 23 BUDGETARY COMPARISON SCHEDULE FOR FISCAL YEAR 2020 (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.