

## FY 2020 Water Distribution Accountability Report

FY 2020	Finished Water *	Billed Consumption*	BCMUD Flush Log	Brushy Bend Water Sale	Estimated loss from known leaks	Sam Bass Fire Use	Total Known Consumption	Unaccounted Water	Monthly Water Loss Percentage
Oct	102,027,000	100,019,000	310,000	3,874,000	-	-	104,203,000	(2,176,000)	-2.13%
Nov	69,164,000	52,800,000	292,000	1,910,000	-	-	55,002,000	14,162,000	20.48%
Dec	65,393,000	51,871,000	204,000	2,140,000	-	-	54,215,000	11,178,000	17.09%
Jan	60,361,000	50,360,000	208,000	2,171,000	4,500,000	-	57,239,000	3,122,000	5.17%
Feb	52,367,000	41,981,000	203,000	1,754,000	-	-	43,938,000	8,429,000	16.10%
Mar	60,024,000	48,886,000	230,200	1,785,000	-	-	50,901,200	9,122,800	15.20%
Apr	63,363,000	56,432,000	331,900	2,273,000	-	-	59,036,900	4,326,100	6.83%
May	80,101,000	68,963,000	206,000	2,930,000	13,150	-	72,112,150	7,988,850	9.97%
Jun	103,348,000	89,481,000	200,000	3,564,000	9,500	-	93,254,500	10,093,500	9.77%
Jul	136,807,000	118,205,000	205,500	4,754,000	-	-	123,164,500	13,642,500	9.97%
Aug	131,280,000	108,453,000	203,000	4,470,000	-	-	113,126,000	18,154,000	13.83%
Sep	87,707,000	86,250,000	204,000	3,136,000	-	-	89,590,000	(1,883,000)	-2.15%
<b>Total (gallons)</b>	<b>1,011,942,000</b>	<b>873,701,000</b>	<b>2,797,600</b>	<b>34,761,000</b>	<b>4,522,650</b>	<b>0</b>	<b>915,782,250</b>	<b>96,159,750</b>	<b>9.50%</b>

Twelve Month Unaccounted Water % = 9.29%

## FY 2020 Surface Water Accountability Report

FY 2020 Surface

Water

Accountability

Report

	Lake Raw Water	Wilco Park <sup>1</sup>	Chisholm Trail <sup>2</sup>	Lake - Chisholm	Lake - Wilco - Chisholm	Surface Water to Plant	Unaccounted Surface Water
Oct	111,518,000	3,095,590	3,343,000	108,175,000	105,079,410	104,961,000	118,410
Nov	71,331,000	2,994,080	405,000	70,926,000	67,931,920	71,943,000	(4,011,080)
Dec	67,159,000	3,092,621	1,201,000	65,958,000	62,865,379	66,571,000	(3,705,621)
Jan	61,031,000	3,092,406	0	61,031,000	57,938,594	62,381,000	(4,442,406)
Feb	52,592,000	2,893,704	1,150,000	51,442,000	48,548,296	53,611,000	(5,062,704)
Mar	55,472,000	3,109,616	0	55,472,000	52,362,384	57,893,000	(5,530,616)
Apr	72,615,000	3,895,077	1,893,000	70,722,000	66,826,923	68,391,000	(1,564,077)
May	93,373,000	3,095,216	4,164,000	89,209,000	86,113,784	86,109,000	4,784
Jun	120,566,000	2,995,904	7,059,000	113,507,000	110,511,096	109,010,000	1,501,096
Jul	158,452,000	3,088,543	12,442,000	146,010,000	142,921,457	138,799,000	4,122,457
Aug	154,303,000	3,087,683	12,249,000	142,054,000	138,966,317	137,937,000	1,029,317
Sep	100,866,000	2,989,303	2,813,000	98,053,000	95,063,697	90,627,000	4,436,697
<b>Total (Gallons)</b>	<b>1,119,278,000</b>	<b>37,429,743</b>	<b>46,719,000</b>	<b>1,072,559,000</b>	<b>1,035,129,257</b>	<b>1,048,233,000</b>	<b>(13,103,743)</b>

Unaccounted Surface Water %: -1.27%

Footnotes:

1 – Williamson County’s contract provides for a maximum of 100,000 gallons per day unless additional supply is requested.

2 – Chisholm Trail’s contract provides for a maximum of 400 acre feet per fiscal year and a maximum of 500,000 gallons per day.

Twelve Month Unaccounted Surface Water % = -2.70%

## FY 2020 Water Production Accountability Report

FY 2020 Water

Production

Accountability Report	Surface Water to Plant Pond	Recycled Water to Plant Pond	Well Water to Plant Pond	Total Water to Pond	Pond Loss (Total Water to Pond - Blended Meter)*	Blended Meter to Plant	Blended Water to Plant - Recycle Water	36" Master Meter to Distribution	Production Loss
Oct	104,961,000	5,240,000	191,000	110,392,000	-228,000	110,620,000	105,380,000	102,027,000	3,353,000
Nov	71,943,000	3,483,000	279,000	75,705,000	646,000	75,059,000	71,576,000	69,164,000	2,412,000
Dec	66,571,000	3,499,000	110,000	70,180,000	-234,000	70,414,000	66,915,000	65,393,000	1,522,000
Jan	62,381,000	3,013,000	154,000	65,548,000	785,000	64,763,000	61,750,000	60,361,000	1,389,000
Feb	53,611,000	2,728,000	87,000	56,426,000	-14,000	56,440,000	53,712,000	52,367,000	1,345,000
Mar	57,893,000	3,310,000	173,000	61,376,000	-3,109,000	64,485,000	61,175,000	60,024,000	1,151,000
Apr	68,391,000	5,318,000	177,000	73,886,000	5,389,000	68,497,000	63,179,000	63,363,000	-184,000
May	86,109,000	4,150,000	93,000	90,352,000	1,359,000	88,993,000	84,843,000	80,101,000	4,742,000
Jun	109,010,000	5,663,000	181,000	114,854,000	1,896,000	112,958,000	107,295,000	103,348,000	3,947,000
Jul	138,799,000	7,903,000	147,000	146,849,000	3,094,000	143,755,000	135,852,000	136,807,000	-955,000
Aug	137,937,000	9,200,000	213,000	147,350,000	5,505,000	141,845,000	132,645,000	131,280,000	1,365,000
Sept	90,627,000	5,336,000	128,000	96,091,000	6,573,000	89,518,000	84,182,000	87,707,000	-3,525,000
<b>Total (Gallons)</b>	<b>1,048,233,000</b>	<b>58,843,000</b>	<b>1,933,000</b>	<b>1,109,009,000</b>	<b>21,662,000</b>	<b>1,087,347,000</b>	<b>1,028,504,000</b>	<b>1,011,942,000</b>	<b>16,562,000</b>

Water Production Loss %

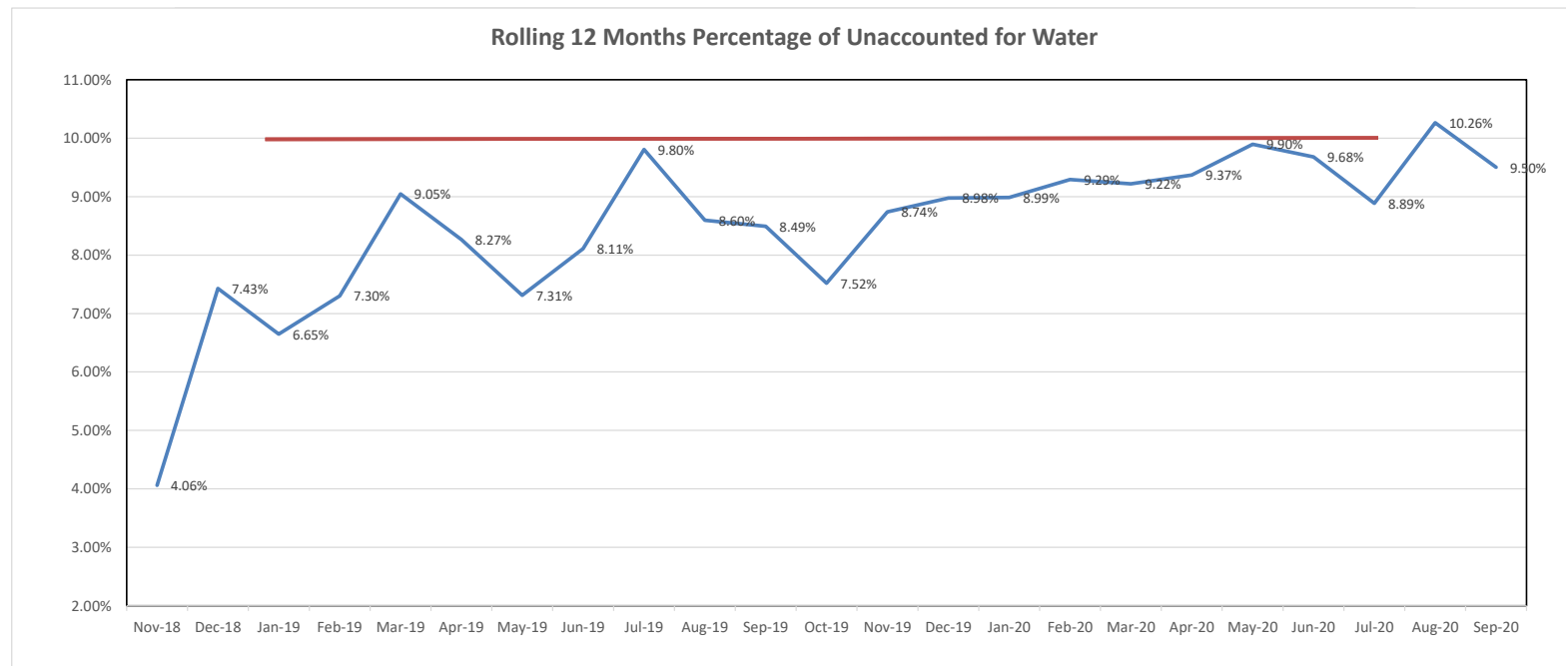
1.61%

\*Pond capacity = 8 MG, so actual loss would be less the capacity of the pond at the beginning of the reporting period

Twelve Month Unaccounted Surface Water % = 2.38%

Percentage of Unaccounted for Water

Nov-18	4.06%
Dec-18	7.43%
Jan-19	6.65%
Feb-19	7.30%
Mar-19	9.05%
Apr-19	8.27%
May-19	7.31%
Jun-19	8.11%
Jul-19	9.80%
Aug-19	8.60%
Sep-19	8.49%
Oct-19	7.52%
Nov-19	8.74%
Dec-19	8.98%
Jan-20	8.99%
Feb-20	9.29%
Mar-20	9.22%
Apr-20	9.37%
May-20	9.90%
Jun-20	9.68%
Jul-20	8.89%
Aug-20	10.26%
Sep-20	9.50%



September 2020 Water Loss Report						
	FY2020 YTD	FY2019 YTD	FY2019 Total	FY2018 Total	FY2017 Total	FY2016 Total
<b>System Input</b>						
Produced Water	1,011,942,000	917,614,000	917,614,000	983,859,000	968,933,000	952,660,000
<b>Authorized Consumption</b>						
Billed Metered - Residential	666,245,000	610,132,000	610,132,000	674,560,000	667,540,000	644,502,424
Billed Metered - Commercial	147,058,000	136,665,000	136,665,000	142,871,000	143,605,000	153,385,995
<i>District Consumption</i>	60,398,000	63,285,000	68,285,000	53,602,000	53,066,000	43,722,581
<b>Unbilled Unmetered</b>						
<i>Distribution (Treatment) Flushing</i>	2,797,600	2,707,274	2,275,400	2,707,274	2,649,330	2,967,970
<i>Brushy Bend Aqua Sale</i>	34,761,000	32,126,900	32,126,900	32,130,300	27,198,700	150,925
<i>Sam Bass Fire</i>	0	0	0	12,500	25,000	7,500
<b>Total Authorized Consumption</b>	<b>911,259,600</b>	<b>844,916,174</b>	<b>844,484,300</b>	<b>905,883,074</b>	<b>894,084,030</b>	<b>844,737,395</b>
<b>Apparent Losses</b>						
Average Meter Inaccuracy	99%	99%	99%	99%	99%	99%
Customer Meter Inaccuracy Loss (99% Accurate)	8,737,010	8,182,646	8,182,646	8,798,313	8,729,404	8,501,121
Unauthorized Consumption	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%
Unauthorized Consumption Loss (0.25% per AWWA standards)	2,184,253	1,866,993	1,866,993	2,043,578	2,027,863	1,994,721
<b>Total Apparent Losses</b>	<b>10,921,263</b>	<b>10,049,639</b>	<b>10,049,639</b>	<b>10,841,891</b>	<b>10,757,267</b>	<b>10,495,842</b>
<b>Reported Losses</b>						
Reported Breaks and Leaks	4,522,650	2,400,000	2,400,000	4,564,000	7,000,000	5,115,413
<b>Total Reported Losses</b>	<b>4,522,650</b>	<b>2,400,000</b>	<b>2,400,000</b>	<b>4,564,000</b>	<b>7,000,000</b>	<b>5,115,413</b>
<b>Water Loss</b>	<b>85,238,488</b>	<b>60,248,187</b>	<b>60,680,061</b>	<b>62,570,035</b>	<b>57,091,703</b>	<b>92,311,350</b>
<b>Water Loss Detail *</b>						
Residential Connections	5,476	5,490	5,490	5,500	5,654	5,641
Commercial Connections		164	164	158	153	143
District Connections		53	53	54	49	47
<b>Total Connections</b>	<b>5,679</b>	<b>5,707</b>	<b>5,707</b>	<b>5,712</b>	<b>5,856</b>	<b>5,831</b>
* Note FY18 adjusted for BB						
Days	366	365	365	365	365	366
Loss Per Connection per Day (Gallons)	41	29	29	30	27	43
Estimated Population Served	19,625	19,707	19,707	19,724	20,248	20,173
Water Loss Per Capita Per Day (Gallons)	12	8	8	9	8	13
Total Water Use Per Capita Per Day	127	117	117	126	121	114
<b>Financial Indicators</b>						
Cost to produce water per 1,000 gallons	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00
Cost of Apparent Losses	\$10,921.26	\$10,049.64	\$10,049.64	\$10,841.89	\$10,757.27	\$10,495.84
Cost of Reported Losses	\$4,522.65	\$2,400.00	\$2,400.00	\$4,564.00	\$7,000.00	\$5,115.41
Cost of Water Loss	\$85,238.49	\$60,248.19	\$60,680.06	\$62,570.04	\$57,091.70	\$92,311.35