In the Matter of the Philadelphia Water Department's Proposed Change in Water, Wastewater and Stormwater Rates and Related Charges

Fiscal Years 2024-2025

Philadelphia Water Department

PWD Exhibit 6

Black & Veatch Management Consulting, LLC Calculations Supporting Schedules BV-1 and BV-2

Dated: January 2023

INDEX TO PWD EXHIBIT 6
BLACK & VEATCH MANAGEMENT CONSULTING, LLC
CALCULATIONS SUPPORTING JANUARY 2023
SCHEDULES BV-1 and BV-2

IN THE MATTER OF THE PHILADELPHIA WATER DEPARTMENT'S PROPOSED CHANGE IN WATER, WASTEWATER AND STORMWATER RATES AND RELATED CHARGES

FISCAL YEARS 2024-2025

The calculations supporting the January 2023 Schedules BV-1 and BV-2 are developed in three computer model workbook files: FINPLAN23_24.XLS, WCOS23_24.XLS, and SCOS23_24.XLS. Each workbook file consists of many worksheets, and each worksheet may contain many pages of calculations. This printout of the computer model includes identifying tabs showing the name of the workbook file (e.g., Finplan23_24.XLS) and the worksheet (e.g., Customer) that is printed.

The Finplan23_24.XLS workbook file develops projected revenue requirements and cash flows for each utility and the combined utilities. The WCOS23_24.XLS workbook file allocates the water utility test year cost of service to contract wholesale and retail water utility customers and develops proposed water rates for the test year. The SCOS23_24.XLS workbook file allocates the wastewater utility test year cost of service to contract wholesale and retail sanitary sewer and stormwater customers and develops proposed sewer and stormwater rates for the test year.

The Index tab for each workbook file includes the following:

- Schedule Tables Reference Index – These pages provide calculation page references for the tables in Schedules BV-1 and BV-2.
- Section Index Pages – These pages provide brief descriptions of the purpose of each worksheet within the corresponding workbook file. In addition to this description, these pages include an index showing the description and page number of each page within the worksheet. Page numbers refer to the identifying page number for each page of the worksheet that is shown in the upper right-hand corner of a printed page, such as Customer-1 or LagRate-30. On many of the printed pages, references to other calculation pages are made using these page numbers. At the top of each printed page is a three-line page header that includes the name of the workbook file, a description of the content of the page, the page number and other miscellaneous information.

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Account Escalation Factors							Assumptions - 1
Description		2023	2024	2025	2026	2027	2028
Index		3	4	5	6	7	8
Account - Small Decrease	Not in Use	-2.7%	-2.7%	-2.7%	-2.7%	0.0%	0.0%
Account - Small Growth	Not in Use	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%
Account - PHA		-1.2%	-1.2%	-1.2%	-1.2%	0.0%	0.0%
Account - Charities/Schools		-5.4%	-5.4%	-5.4%	-5.4%	0.0%	0.0%
Account - Hospital/Universities		-30.2%	-30.2%	-30.2%	-30.2%	0.0%	0.0%
Account - Hand Billed		-1.3%	-1.3%	-1.3%	-1.3%	0.0%	0.0%
Account - Fire Service		7.3%	7.3%	7.3%	7.3%	0.0%	0.0%
Account - Fire Service Unmetered		7.5%	7.5%	7.5%	7.5%	0.0%	0.0%
Account - Scheduled		26.0%	26.0%	26.0%	26.0%	0.0%	0.0%
Account - Res 5/8		0.7%	0.7%	0.7%	0.7%	0.0%	0.0%
Account - Res > 5/8		12.2%	12.2%	12.2%	12.2%	0.0%	0.0%
Account - SC 5/8		-2.0%	-2.0%	-2.0%	-2.0%	0.0%	0.0%
Account - SC > 5/8		6.9%	6.9%	6.9%	6.9%	0.0%	0.0%
Account - Com 5/8		-0.1%	-0.1%	-0.1%	-0.1%	0.0%	0.0%
Account - Com > 5/8		4.2%	4.2%	4.2%	4.2%	0.0%	0.0%
Account - Ind 5/8		-0.9%	-0.9%	-0.9%	-0.9%	0.0%	0.0%
Account - Ind > 5/8		0.4%	0.4%	0.4%	0.4%	0.0%	0.0%
Account - Pub Util 5/8		2.2%	2.2%	2.2%	2.2%	0.0%	0.0%
Account - Pub Util > 5/8		6.3%	6.3%	6.3%	0.0%	0.0%	0.0%
Account - Med Growth	Not in Use	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Account - Large Growth	Not in Use	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
Account - No Growth		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Volume Escalation Factors							Assumptions - 2
Description		2023	2024	2025	2026	2027	2028
Volume - Small Decrease (SC)	Not in Use	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%
Volume - Small Decrease	Not in Use	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%
Volume - Small Decrease with Adjustment	Not in Use	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%
Volume - PHA		0.66%	0.66%	0.66%	0.66%	0.00%	0.00%
Volume - Charities/Schools		0.95%	0.95%	0.95%	0.95%	0.00%	0.00%
Volume - Hospital/Universities		2.32%	2.32%	2.32%	2.32%	0.00%	0.00%
Volume - Hand Billed		5.49%	5.49%	5.49%	5.49%	0.00%	0.00%
Volume - Fire Service		-73.03%	-73.03%	-73.03%	-73.03%	0.00%	0.00%
Volume - Scheduled		8.32%	8.32%	8.32%	8.32%	0.00%	0.00%
Volume - Res 5/8		-0.68%	-0.68%	-0.68%	-0.68%	-0.68%	-0.68%
Volume - Res > 5/8		-7.90%	-7.90%	-7.90%	-7.90%	0.00%	0.00%
Volume - SC 5/8		0.48%	0.48%	0.48%	0.48%	0.00%	0.00%
Volume - SC > 5/8		6.72%	6.72%	6.72%	6.72%	0.00%	0.00%
Volume - Com 5/8		-0.60%	-0.60%	-0.60%	-0.60%	0.00%	0.00%
Volume - Com > 5/8		-1.25%	-10.25%	-1.25%	-1.25%	0.00%	0.00%
Volume - Ind 5/8		-0.88%	-0.88%	-0.88%	-0.88%	0.00%	0.00%
Volume - Ind > 5/8		-18.27%	-18.27%	-18.27%	-18.27%	0.00%	0.00%
Volume - Pub Util 5/8		-14.34%	-14.34%	-14.34%	-14.34%	0.00%	0.00%
Volume - Pub Util > 5/8		-1.88%	-1.88%	-1.88%	-1.88%	0.00%	0.00%
Volume - No Growth		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Volume - No Growth with Adjustment	Not in Use	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Other Revenue						Assumptions - 3
	2023	2024	2025	2026	2027	2028
Water	1.30%	1.30%	1.30%	1.30%	1.30%	1.30%
Sewer	1.30%	1.30%	1.30%	1.30%	1.30%	1.30%
Interest Income	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
Debt Service Reserve Fund Beginning Balance (Combine	189,722,989					
Debt Service Reserve Interest Income	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
Misc City Revenues	2,160	2,160	2,160	2,160	2,160	2,160
Other	9,059	9,059	9,059	9,059	9,059	9,059
State & Federal Grants	567	567	567	567	567	567
Permits Issued by L&I (L&I)	7,592	7,592	7,592	7,592	7,592	7,592
Miscellaneous (Employee Benefit + Procurement)	335	335	335	335	335	335
City & UESF Grants	300	300	300	300	300	300
Affordability Program Discount Adjustment	-	-	-	-	-	-

Allocation	Water	Sewer
Misc City Revenues	33.3%	66.7%
Other	50.0%	50.0%
State & Federal Grants	100.0%	0.0%
Permits Issued by L&I (L&I)	50.0%	50.0%
Miscellaneous (Employee Benefit + Procurement)	50.0%	50.0%
City & UESF Grants	0.0%	100.0%
Affordability Program Discount Adjustment	0.0%	100.0%

Water - Customer Billed Volume Per Account (Mcf/Account) **Assumptions - 4**

	USE	Historical Averages				Historical Usage Per Account				
	2023	1 Year	2 Year	3 Year	5 Year	2018	2019	2020	2021	2022
Senior Citizens										
5/8" Meter	5.62	5.62	5.67	5.68	5.59	5.37	5.54	5.71	5.72	5.62
> 5/8" Meter	6.94	6.94	9.00	8.64	7.80	7.37	5.71	7.93	11.06	6.94
General Service (Residential)										
5/8" Meter	6.29	6.29	6.35	6.37	6.41	6.54	6.42	6.42	6.40	6.29
> 5/8" Meter	31.48	31.48	33.47	34.68	38.21	46.68	40.30	37.12	35.45	31.48
General Service (Commercial)										
5/8" Meter	10.36	10.36	10.16	10.12	10.35	10.87	10.55	10.03	9.96	10.36
> 5/8" Meter	141.17	141.17	139.38	142.99	145.53	152.07	146.62	150.22	137.59	141.17
General Service (Industrial)										
5/8" Meter	12.67	12.67	12.28	12.80	12.76	12.40	13.01	13.85	11.88	12.67
> 5/8" Meter	147.03	147.03	145.86	153.52	178.80	164.12	269.34	168.84	144.69	147.03
General Service (Public Utilities)										
5/8" Meter	5.27	5.27	5.09	5.67	7.31	11.15	8.39	6.83	4.91	5.27
> 5/8" Meter	79.27	79.27	81.65	84.15	85.23	89.75	83.92	89.16	84.02	79.27
General Service (Excluding Senior Citizens)										
5/8" Meter	NA	6.55	6.59	6.61	6.67	6.82	6.69	6.66	6.63	6.55
> 5/8" Meter	NA	81.03	82.34	85.72	91.69	103.38	97.92	92.50	83.64	81.03
General Service (Including Senior Citizens)										
5/8" Meter	NA	6.51	6.55	6.57	6.62	6.75	6.64	6.61	6.59	6.51
> 5/8" Meter	NA	81.00	82.31	85.69	91.66	103.34	97.88	92.46	83.61	81.00
PHA	27.30	27.30	26.36	25.77	26.17	26.74	26.77	24.61	25.41	27.30
Charities & Schools	74.98	74.98	67.96	68.77	70.33	72.42	72.89	70.40	60.94	74.98
Hospital/University	755.76	755.76	712.50	735.33	726.69	721.88	705.56	781.00	669.24	755.76
Hand Billed	2,087.95	2,087.95	2,078.38	2,071.33	1,988.74	1,951.17	1,778.52	2,057.24	2,068.80	2,087.95
Scheduled	5.30	5.30	6.45	8.30	6.47	3.30	4.17	12.00	7.60	5.30
xxxxxxxxxx	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
xxxxxxxxxx	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fire Service	0.03	0.03	0.87	1.15	1.69	3.48	1.53	1.71	1.71	0.03
Public Fire (Hydrants)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Water - Billings per Usage (Prior to Adjustment Factor)						Assumptions - 5
	2023	2024	2025	2026	2027	2028

NOT IN USE

Water - Calculated Billings Adjustment Factor						Assumptions - 6
	2023	2024	2025	2026	2027	2028
Senior Citizens	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
General Service (Residential)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
General Service (Commercial)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
General Service (Industrial)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
General Service (Public Utilities)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
General Service (Excluding Senior Citizens)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
PHA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Charities & Schools	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Hospital/University	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Hand Billed	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Scheduled	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
xxxxxxxxxx	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
xxxxxxxxxx	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Fire Service	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Private Fire (Unmetered)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Public Fire (Hydrants)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Sewer - Billings per Usage (Prior to Adjustment Factor)						Assumptions - 7
	2023	2024	2025	2026	2027	2028

NOT IN USE

Sewer - Calculated Billings Adjustment Factor						Assumptions - 8
	2023	2024	2025	2026	2027	2028
Senior Citizens	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
General Service (Residential)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
General Service (Commercial)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
General Service (Industrial)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
General Service (Public Utilities)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
General Service (Excluding Senior Citizens)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
PHA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Charities & Schools	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Hospital/University	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Hand Billed	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Scheduled	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
xxxxxxxxxx	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
xxxxxxxxxx	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Fire Service	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Sewer	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Groundwater (Non-City)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
xxxxxxxxxx						
Stormwater	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Misc Municipal Revenue						Assumptions - 9
	2023	2024	2025	2026	2027	2028
Not in Use						
See Other Revenue						

Collection Adjustment Factors							Assumptions - 10
		2023	2024	2025	2026	2027	2028
Non SW Only Adjustment							
Current Year		-1.20%	-1.20%	-1.20%	-1.20%	-1.20%	-1.20%
First Year Prior		0.76%	0.76%	0.76%	0.76%	0.76%	0.76%
Second Year Prior							
Non SW Only		95.83%	96.41%	96.54%	96.54%	96.64%	
Current Year		84.65%	84.65%	84.65%	84.65%	84.65%	84.65%
First Year Prior		10.29%	10.29%	10.29%	10.29%	10.29%	10.29%
Second Year Prior		2.04%	2.04%	2.04%	2.04%	2.04%	2.04%
SW Only							
Current Year		64.20%	64.20%	64.20%	64.20%	64.20%	64.20%
First Year Prior		8.99%	8.99%	8.99%	8.99%	8.99%	8.99%
Second Year Prior		7.23%	7.23%	7.23%	7.23%	7.23%	7.23%
Adjustment **(NOT IN USE)**							
Current Year	FALSE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
First Year Prior		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Second Year Prior		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Revenue Impact							
Revenue Projection		717,909	727,191	732,137	736,755	735,678	733,917
Prior to Adjustment		734,641	745,075	750,454	755,357	754,150	752,327
Impact		-16,733	-17,885	-18,317	-18,601	-18,472	-18,410
Effective Months		10	10	10	10	10	10
Water Revenue Increase		0.00%	18.90%	9.00%	12.51%	9.37%	11.62%
Combined Water & Wastewater Revenue Increase		0.00%	12.75%	8.80%	12.70%	8.00%	9.00%
Offset Rate Compression		TRUE	TRUE	TRUE	TRUE	TRUE	TRUE

Collection Adjustment Factors							Assumptions - 10
		2023	2024	2025	2026	2027	2028
Water Revenue Increase Compression Factor							
Monthly Collection Factor Data							
July	94.81%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Aug	94.36%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sep	93.97%	93.97%	93.97%	93.97%	93.97%	93.97%	93.97%
Oct	93.87%	93.87%	93.87%	93.87%	93.87%	93.87%	93.87%
Nov	93.33%	93.33%	93.33%	93.33%	93.33%	93.33%	93.33%
Dec	93.35%	93.35%	93.35%	93.35%	93.35%	93.35%	93.35%
Jan	92.86%	92.86%	92.86%	92.86%	92.86%	92.86%	92.86%
Feb	90.89%	90.89%	90.89%	90.89%	90.89%	90.89%	90.89%
Mar	89.60%	89.60%	89.60%	89.60%	89.60%	89.60%	89.60%
Apr	86.70%	86.70%	86.70%	86.70%	86.70%	86.70%	86.70%
May	78.41%	78.41%	78.41%	78.41%	78.41%	78.41%	78.41%
Jun	27.89%	27.89%	27.89%	27.89%	27.89%	27.89%	27.89%
Effective Annual Collection Factor	85.84%						
Water Effective Increase							
July		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Aug		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sep		100.00%	118.90%	109.00%	112.51%	109.37%	111.62%
Oct		100.00%	118.90%	109.00%	112.51%	109.37%	111.62%
Nov		100.00%	118.90%	109.00%	112.51%	109.37%	111.62%
Dec		100.00%	118.90%	109.00%	112.51%	109.37%	111.62%
Jan		100.00%	118.90%	109.00%	112.51%	109.37%	111.62%
Feb		100.00%	118.90%	109.00%	112.51%	109.37%	111.62%
Mar		100.00%	118.90%	109.00%	112.51%	109.37%	111.62%
Apr		100.00%	118.90%	109.00%	112.51%	109.37%	111.62%
May		100.00%	118.90%	109.00%	112.51%	109.37%	111.62%
Jun		100.00%	118.90%	109.00%	112.51%	109.37%	111.62%
Additional Revenue Collection Factor		84.09%	84.09%	84.09%	84.09%	84.09%	84.09%

Collection Adjustment Factors						Assumptions - 10
	2023	2024	2025	2026	2027	2028
Additional Revenue Compression Factor	97.96%	97.96%	97.96%	97.96%	97.96%	97.96%

Collection Adjustment Factors							Assumptions - 10
		2023	2024	2025	2026	2027	2028
Combined Water & Wastewater Revenue Increase Compression Factor							
Monthly Collection Factor Data							
July	94.20%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Aug	93.76%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sep	93.30%	93.30%	93.30%	93.30%	93.30%	93.30%	93.30%
Oct	93.14%	93.14%	93.14%	93.14%	93.14%	93.14%	93.14%
Nov	92.57%	92.57%	92.57%	92.57%	92.57%	92.57%	92.57%
Dec	92.81%	92.81%	92.81%	92.81%	92.81%	92.81%	92.81%
Jan	92.06%	92.06%	92.06%	92.06%	92.06%	92.06%	92.06%
Feb	90.18%	90.18%	90.18%	90.18%	90.18%	90.18%	90.18%
Mar	88.91%	88.91%	88.91%	88.91%	88.91%	88.91%	88.91%
Apr	85.95%	85.95%	85.95%	85.95%	85.95%	85.95%	85.95%
May	77.77%	77.77%	77.77%	77.77%	77.77%	77.77%	77.77%
Jun	27.84%	27.84%	27.84%	27.84%	27.84%	27.84%	27.84%
Effective Annual Collection Factor	85.21%						
Combined Water & Wastewater Effective Increase							
July		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Aug		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sep		100.00%	112.75%	108.80%	112.70%	108.00%	109.00%
Oct		100.00%	112.75%	108.80%	112.70%	108.00%	109.00%
Nov		100.00%	112.75%	108.80%	112.70%	108.00%	109.00%
Dec		100.00%	112.75%	108.80%	112.70%	108.00%	109.00%
Jan		100.00%	112.75%	108.80%	112.70%	108.00%	109.00%
Feb		100.00%	112.75%	108.80%	112.70%	108.00%	109.00%
Mar		100.00%	112.75%	108.80%	112.70%	108.00%	109.00%
Apr		100.00%	112.75%	108.80%	112.70%	108.00%	109.00%
May		100.00%	112.75%	108.80%	112.70%	108.00%	109.00%
Jun		100.00%	112.75%	108.80%	112.70%	108.00%	109.00%
Additional Revenue Collection Factor		83.45%	83.45%	83.45%	83.45%	83.45%	83.45%

Collection Adjustment Factors						Assumptions - 10
	2023	2024	2025	2026	2027	2028
Additional Revenue Compression Factor	97.94%	97.94%	97.94%	97.94%	97.94%	97.94%

Sewer Only - Billed Volume (Mcf) **Assumptions - 1**

Historical Data Review		Historical Averages 1 Year	2 Year	3 Year	5 Year		Historical Billed Volume 2018	2019	2020	2021	2022
xxxxxxxxxx		0	0	0	0		0	0	0	0	0
Fire		98	5,043	6,524	7,098		7,533	8,387	9,485	9,989	98
Sewer Only		64,606	61,355	60,516	64,731		75,697	66,411	58,838	58,104	64,606
Groundwater (Non-City)		200,507	203,970	211,696	215,089		209,117	231,240	227,148	207,434	200,507
xxxxxxxxxx		0	0	0	0		0	0	0	0	0
Projection Assumptions	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0
Fire	100	100	100	100	100	100	100	100	100	100	100
Sewer Only	60,516	150,516	150,516	150,516	150,516	150,516	150,516	150,516	150,516	150,516	150,516
Groundwater (Non-City)	211,696	211,696	211,696	211,696	211,696	211,696	211,696	211,696	211,696	211,696	211,696
xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0

Water Wholesale — Assumptions - 12

	2023	2024	2025	2026	2027	2028
Bucks County						
Commodity Charge ($/Mcf)	-	-	-	-	-	-
Demand Charge ($/mgd of maximum demand)	-	-	-	-	-	-
Lump Sum Payment ($/year)	-	-	-	-	-	-
Usage (Mcf)	-	-	-	-	-	-
Max Demand (mgd)	-	-	-	-	-	-
Management Fee	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Aqua PA						
Commodity Charge ($/Mcf)	3.476	3.508	3.508	3.508	3.508	3.508
Lump Sum Payment ($/year)	2,752,500	2,768,000	2,768,000	2,768,000	2,768,000	2,768,000
Usage (Mcf)	73,753	73,753	73,753	73,753	73,753	73,753
Management Fee	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

Surcharge						Assumptions - 13
	2023	2024	2025	2026	2027	2028
Account Growth	-	-	-	-	-	-
lbs per Account						
BOD	199,400	199,400	199,400	199,400	199,400	199,400
SS	31,000	31,000	31,000	31,000	31,000	31,000
Effective Rate ($/lb)						
BOD	0.387	0.391	0.391	0.391	0.391	0.391
SS	0.403	0.406	0.406	0.406	0.406	0.406
Actual						

Sewer Wholesale						Assumptions - 14
	2023	2024	2025	2026	2027	2028
Abington						
Rates						
Volume ($/Mcf)	1.2958	1.3079	1.3079	1.3079	1.3079	1.3079
Capacity ($/cfs)	11,009	11,111	11,111	11,111	11,111	11,111
SS ($/1,000 lbs.)	195.6866	197.4992	197.4992	197.4992	197.4992	197.4992
BOD ($/1,000 lbs.)	219.5584	221.7093	221.7093	221.7093	221.7093	221.7093
Annual Lump Sum ($)	714,750	603,000	603,000	603,000	603,000	603,000
Management Fee (%)	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units						
Volume (Mcf)	91,859	91,859	91,859	91,859	91,859	91,859
Capacity (cfs)	9.542	9.542	9.542	9.542	9.542	9.542
SS (1,000 lbs.)	998	998	998	998	998	998
BOD (1,000 lbs.)	1,343	1,343	1,343	1,343	1,343	1,343
Bensalem						
Rates						
Volume ($/Mcf)	1.2958	1.3079	1.3079	1.3079	1.3079	1.3079
Capacity ($/cfs)	11,009	11,111	11,111	11,111	11,111	11,111
SS ($/1,000 lbs.)	195.6866	197.4992	197.4992	197.4992	197.4992	197.4992
BOD ($/1,000 lbs.)	219.5584	221.7093	221.7093	221.7093	221.7093	221.7093
Annual Lump Sum ($)	89,500	90,000	90,000	90,000	90,000	90,000
Management Fee (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Billing Units						
Volume (Mcf)	150,020	150,020	150,020	150,020	150,020	150,020
Capacity (cfs)	11.740	11.740	11.740	11.740	11.740	11.740
SS (1,000 lbs.)	1,568	1,568	1,568	1,568	1,568	1,568
BOD (1,000 lbs.)	1,623	1,623	1,623	1,623	1,623	1,623

Sewer Wholesale						Assumptions - 14
	2023	2024	2025	2026	2027	2028
Bucks County						
Rates						
Volume ($/Mcf)	1.2958	1.3079	1.3079	1.3079	1.3079	1.3079
Capacity ($/cfs)	11,009	11,111	11,111	11,111	11,111	11,111
SS ($/1,000 lbs.)	195.6866	197.4992	197.4992	197.4992	197.4992	197.4992
BOD ($/1,000 lbs.)	219.5584	221.7093	221.7093	221.7093	221.7093	221.7093
Annual Lump Sum ($)	892,250	893,000	893,000	893,000	893,000	893,000
Management Fee (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Billing Units						
Volume (Mcf)	893,899	893,899	893,899	893,899	893,899	893,899
Capacity (cfs)	74.260	74.260	74.260	74.260	74.260	74.260
SS (1,000 lbs.)	10,541	10,541	10,541	10,541	10,541	10,541
BOD (1,000 lbs.)	10,369	10,369	10,369	10,369	10,369	10,369
Cheltenham						
Rates						
Volume ($/Mcf)	1.2251	1.2370	1.2370	1.2370	1.2370	1.2370
Capacity ($/cfs)	6,138	6,198	6,198	6,198	6,198	6,198
SS ($/1,000 lbs.)	195.6866	197.4992	197.4992	197.4992	197.4992	197.4992
BOD ($/1,000 lbs.)	219.5584	221.7093	221.7093	221.7093	221.7093	221.7093
Annual Lump Sum ($)	1,979,750	1,678,000	1,678,000	1,678,000	1,678,000	1,678,000
Management Fee (%)	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units						
Volume (Mcf)	410,973	410,973	410,973	410,973	410,973	410,973
Capacity (cfs)	31.750	31.750	31.750	31.750	31.750	31.750
SS (1,000 lbs.)	3,069	3,069	3,069	3,069	3,069	3,069
BOD (1,000 lbs.)	2,682	2,682	2,682	2,682	2,682	2,682

Sewer Wholesale						Assumptions - 14
	2023	2024	2025	2026	2027	2028
Lower Moreland						
Rates						
Volume ($/Mcf)	1.2958	1.3079	1.3079	1.3079	1.3079	1.3079
Capacity ($/cfs)	11,009	11,111	11,111	11,111	11,111	11,111
SS ($/1,000 lbs.)	195.6866	197.4992	197.4992	197.4992	197.4992	197.4992
BOD ($/1,000 lbs.)	219.5584	221.7093	221.7093	221.7093	221.7093	221.7093
Annual Lump Sum ($)	410,750	343,000	343,000	343,000	343,000	343,000
Management Fee (%)	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units						
Volume (Mcf)	61,845	61,845	61,845	61,845	61,845	61,845
Capacity (cfs)	5.880	5.880	5.880	5.880	5.880	5.880
SS (1,000 lbs.)	626	626	626	626	626	626
BOD (1,000 lbs.)	470	470	470	470	470	470
Lower Southampton						
Rates						
Volume ($/Mcf)	1.2958	1.3079	1.3079	1.3079	1.3079	1.3079
Capacity ($/cfs)	11,009	11,111	11,111	11,111	11,111	11,111
SS ($/1,000 lbs.)	195.6866	197.4992	197.4992	197.4992	197.4992	197.4992
BOD ($/1,000 lbs.)	219.5584	221.7093	221.7093	221.7093	221.7093	221.7093
Annual Lump Sum ($)	2,494,750	2,351,000	2,351,000	2,351,000	2,351,000	2,351,000
Management Fee (%)	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units						
Volume (Mcf)	270,135	270,135	270,135	270,135	270,135	270,135
Capacity (cfs)	15.790	15.790	15.790	15.790	15.790	15.790
SS (1,000 lbs.)	1,964	1,964	1,964	1,964	1,964	1,964
BOD (1,000 lbs.)	1,633	1,633	1,633	1,633	1,633	1,633

Sewer Wholesale						Assumptions - 14
	2023	2024	2025	2026	2027	2028
DELCORA						
Rates						
Volume ($/Mcf)	1.4017	1.4148	1.4148	1.4148	1.4148	1.4148
Capacity ($/cfs)	7,406	7,470	7,470	7,470	7,470	7,470
SS ($/1,000 lbs.)	205.3746	207.1919	207.1919	207.1919	207.1919	207.1919
BOD ($/1,000 lbs.)	202.2020	203.9784	203.9784	203.9784	203.9784	203.9784
Annual Lump Sum ($)	2,780,000	653,000	653,000	653,000	653,000	-
Management Fee (%)	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units						
Volume (Mcf)	1,086,790	1,086,790	1,086,790	1,086,790	1,086,790	-
Capacity (cfs)	155.000	155.000	155.000	155.000	155.000	-
SS (1,000 lbs.)	12,017	12,017	12,017	12,017	12,017	-
BOD (1,000 lbs.)	10,202	10,202	10,202	10,202	10,202	-
Lower Merion						
Rates						
Volume ($/Mcf)	1.4507	1.4642	1.4642	1.4642	1.4642	1.4642
Capacity ($/cfs)	7,574	7,640	7,640	7,640	7,640	7,640
SS ($/1,000 lbs.)	208.1631	210.0051	210.0051	210.0051	210.0051	210.0051
BOD ($/1,000 lbs.)	202.6277	204.4078	204.4078	204.4078	204.4078	204.4078
Annual Lump Sum ($)	120,000	121,000	121,000	121,000	121,000	121,000
Management Fee (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Billing Units						
Volume (Mcf)	309,643	309,643	309,643	309,643	309,643	309,643
Capacity (cfs)	31.570	31.570	31.570	31.570	31.570	31.570
SS (1,000 lbs.)	3,234	3,234	3,234	3,234	3,234	3,234
BOD (1,000 lbs.)	2,760	2,760	2,760	2,760	2,760	2,760

Sewer Wholesale						Assumptions - 14
	2023	2024	2025	2026	2027	2028
Springfield (less Wyndmoor)						
Rates						
Volume ($/Mcf)	1.4629	1.4764	1.4764	1.4764	1.4764	1.4764
Capacity ($/cfs)	9,553	9,647	9,647	9,647	9,647	9,647
SS ($/1,000 lbs.)	208.1631	210.0051	210.0051	210.0051	210.0051	210.0051
BOD ($/1,000 lbs.)	202.6277	204.4078	204.4078	204.4078	204.4078	204.4078
Annual Lump Sum ($)	800,750	681,000	681,000	681,000	681,000	681,000
Management Fee (%)	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units						
Volume (Mcf)	109,419	109,419	109,419	109,419	109,419	109,419
Capacity (cfs)	4.600	4.600	4.600	4.600	4.600	4.600
SS (1,000 lbs.)	2,141	2,141	2,141	2,141	2,141	2,141
BOD (1,000 lbs.)	2,116	2,116	2,116	2,116	2,116	2,116
Upper Darby						
Rates						
Volume ($/Mcf)	1.4507	1.4642	1.4642	1.4642	1.4642	1.4642
Capacity ($/cfs)	7,574	7,640	7,640	7,640	7,640	7,640
SS ($/1,000 lbs.)	208.1631	210.0051	210.0051	210.0051	210.0051	210.0051
BOD ($/1,000 lbs.)	202.6277	204.4078	204.4078	204.4078	204.4078	204.4078
Annual Lump Sum ($)	40,500	41,000	41,000	41,000	41,000	41,000
Management Fee (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Billing Units						
Volume (Mcf)	451,287	451,287	451,287	451,287	451,287	451,287
Capacity (cfs)	35.000	35.000	35.000	35.000	35.000	35.000
SS (1,000 lbs.)	4,392	4,392	4,392	4,392	4,392	4,392
BOD (1,000 lbs.)	3,745	3,745	3,745	3,745	3,745	3,745

Sewer Wholesale						Assumptions - 14
	2023	2024	2025	2026	2027	2028
Springfield (Wyndmoor)						
Rates						
Volume ($/Mcf)	2.1386	2.1586	2.1586	2.1586	2.1586	2.1586
Capacity ($/cfs)	17,383	17,549	17,549	17,549	17,549	17,549
SS ($/1,000 lbs.)	314.6312	317.5498	317.5498	317.5498	317.5498	317.5498
BOD ($/1,000 lbs.)	129.3211	130.6447	130.6447	130.6447	130.6447	130.6447
Annual Lump Sum ($)	134,000	134,000	134,000	134,000	134,000	134,000
Management Fee (%)	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units						
Volume (Mcf)	17,518	17,518	17,518	17,518	17,518	17,518
Capacity (cfs)	1.930	1.930	1.930	1.930	1.930	1.930
SS (1,000 lbs.)	215	215	215	215	215	215
BOD (1,000 lbs.)	166	166	166	166	166	166

O&M Escalation Factors							Assumptions - 15
		2023	2024	2025	2026	2027	2028
Constant		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Labor		0.00%	3.25%	3.00%	3.00%	3.00%	3.00%
Other Benefits		0.00%	3.96%	4.51%	4.51%	4.33%	4.33%
Pension		0.00%	0.20%	0.16%	0.66%	0.34%	0.34%
Pension Obligations		0.00%	12.97%	0.00%	0.00%	0.78%	0.00%
General	Not in Use	0.00%	8.12%	6.37%	4.35%	4.35%	4.35%
Property Leases		0.00%	2.79%	2.54%	1.72%	1.72%	1.72%
Other 200		0.00%	7.77%	6.70%	4.69%	4.69%	4.69%
Other 300		0.00%	7.77%	6.70%	4.69%	4.69%	4.69%
Other 400		0.00%	10.12%	9.41%	6.63%	6.63%	6.63%
Energy		0.00%	0.00%	0.00%	1.50%	1.50%	1.50%
Gas		0.00%	0.00%	0.00%	1.50%	1.50%	1.50%
Chemicals		0.00%	0.00%	23.82%	11.43%	11.43%	11.43%
Indemnities		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Transfers		0.00%	7.77%	6.70%	4.69%	4.69%	4.69%

Capitalized Interest Period Named Range

Assumptions - 16

Years
0
1
2
3
4
5

NOT IN USE

Affordability Analysis Assumptions

Assumptions - 17

NOT IN USE

Customer Types	Assumptions - 18
Small Residential	
Large Residential	
Commercial	
Industrial	
Other 1	
Other 2	

NOT IN USE

Discounts

Assumptions - 19

Choose Discount 0

Type of Discount	0-Existing % of Discount	1-Alternative % of Discount	Use % of Discount
Senior Citizen	25%	0%	25%
PHA	5%	0%	5%
Charity/Hospital/Education	25%	0%	25%

Meter Sizes	Assumptions - 20
5/8"	
3/4"	
1"	
1 1/4"	
1 1/2"	
2"	
3"	
4"	
6"	
8"	
10"	
12"	

List of meter sizes provided for Drop Down Lists

Capital Account Deposit							Assumptions - 21
		2023 Base Year	2024 Test Year	2025 Calculation	2026 Calculation	2027 Calculation	2028 Calculation
Water System Net Plant Investment	38.80%	907,244,519	942,627,055	979,389,511	1,017,585,701	1,057,271,544	1,098,505,134
Wastewater System Net Plant Investment	61.20%	1,431,014,551	1,486,824,118	1,544,810,259	1,605,057,859	1,667,655,116	1,732,693,665
Total System Net Plant Investment (Prior Year)		2,338,259,070	2,429,451,174	2,524,199,770	2,622,643,561	2,724,926,659	2,831,198,799
Estimated Increase in System Net Value	3.90%						
Capital Account Deposit %		1.00%	1.00%	1.00%	1.00%	1.00%	1.00%

Direct O&M Actual to Budget Factors — Assumptions - 22A

		Use	Historical Averages				Actual to Budget Factor				
			1 Year	2 Year	3 Year	5 Year	2022	2021	2020	2019	2018
		3 year average									
PWD Direct O&M											
Human Resources and Administration											
Salaries & Wages	100	96.23%	95.52%	94.45%	96.23%	94.48%	95.52%	93.34%	99.99%	95.25%	88.39%
Services	200	65.49%	59.62%	60.75%	65.49%	64.06%	59.62%	61.88%	81.61%	53.05%	73.81%
Materials and Supplies	300	61.21%	57.53%	56.88%	61.21%	67.71%	57.53%	56.23%	73.55%	79.73%	74.57%
Equipment	400	39.64%	28.80%	38.74%	39.64%	46.09%	28.80%	49.02%	51.18%	29.24%	85.49%
Indemnities	500	0.00%			0.00%	0.00%			0.00%	0.00%	0.00%
Transfers	800	0.00%									
Subtotal Human Resources and Administration			79.52%	79.44%	83.34%	81.87%	79.52%	79.36%	93.14%	76.86%	82.77%
Finance											
Salaries & Wages	100	81.91%	72.05%	71.55%	81.91%	80.78%	72.05%	71.03%	116.72%	64.96%	98.72%
Services	200	100.00%	112.21%	116.15%	108.27%	101.35%	112.21%	120.04%	92.91%	93.18%	90.27%
SMIP/GARP	2xx	100.00%	80.50%	130.14%	118.55%	110.31%	80.50%	212.88%	100.00%	100.00%	100.00%
Materials and Supplies	300	33.22%	1.26%	49.71%	33.22%	46.33%	1.26%	98.16%	5.09%	72.01%	54.06%
Equipment	400	12.20%	0.00%	0.00%	12.20%	33.66%	0.00%	0.00%	34.28%	63.80%	108.98%
Indemnities	500	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Transfers	800	79.12%	84.28%	72.73%	61.08%	64.75%	84.28%	65.32%	40.21%	73.21%	66.54%
Subtotal Finance			84.52%	105.00%	98.63%	95.06%	84.52%	128.35%	86.74%	89.26%	90.74%
Construction and Engineering											
Salaries & Wages	100	93.55%	86.11%	87.21%	93.55%	90.25%	86.11%	88.60%	113.40%	77.94%	81.84%
Services	200	76.46%	69.87%	73.39%	76.46%	80.46%	69.87%	77.27%	85.07%	84.05%	96.68%
Materials and Supplies	300	35.17%	25.18%	24.76%	35.17%	38.18%	25.18%	24.32%	53.04%	45.14%	38.04%
Equipment	400	29.97%	0.00%	0.16%	29.97%	22.90%	0.00%	0.32%	82.24%	6.65%	10.57%
Indemnities	500	0.00%									
Transfers	800	0.00%									
Subtotal Construction and Engineering			79.96%	81.14%	86.96%	84.50%	79.96%	82.58%	104.22%	75.09%	81.65%
Operations											
Salaries & Wages	100	94.47%	94.96%	92.76%	94.47%	95.20%	94.96%	90.52%	98.10%	95.51%	97.33%
Services	200	84.89%	90.05%	85.30%	84.89%	88.75%	90.05%	80.67%	84.00%	95.28%	97.41%
Power	220	82.77%	78.91%	81.08%	82.77%	81.65%	78.91%	83.25%	86.44%	71.03%	90.39%
Gas	221	80.49%	81.11%	78.39%	80.49%	82.32%	81.11%	75.53%	85.20%	85.06%	85.17%
Materials and Supplies	300	77.58%	72.90%	74.65%	77.58%	79.55%	72.90%	76.53%	83.58%	81.40%	84.03%
Chemicals	307	100.00%	112.11%	101.60%	100.46%	99.35%	112.11%	91.10%	97.90%	95.57%	99.53%
Equipment	400	66.50%	58.61%	62.38%	66.50%	69.80%	58.61%	78.72%	74.04%	87.17%	63.25%
Indemnities	500	0.00%									
Transfers	800	0.00%									
Subtotal Operations			90.33%	87.64%	88.40%	90.22%	90.33%	84.85%	90.03%	91.81%	95.15%

Direct O&M Actual to Budget Factors — **Assumptions - 22A**

		Use	Historical Averages				Actual to Budget Factor				
			1 Year	2 Year	3 Year	5 Year	2022	2021	2020	2019	2018
		3 year average									
Planning & Environmental Services											
Salaries & Wages	100	95.50%	91.40%	93.58%	95.50%	95.83%	91.40%	96.20%	100.00%	100.74%	92.14%
Services	200	95.53%	91.63%	95.13%	95.53%	95.82%	91.63%	98.75%	96.24%	96.29%	96.14%
Materials and Supplies	300	86.84%	83.26%	85.03%	86.84%	86.60%	83.26%	86.95%	90.85%	87.91%	84.00%
Equipment	400	87.50%	88.18%	89.31%	87.50%	74.94%	88.18%	90.49%	82.73%	41.09%	91.22%
Indemnities	500	0.00%									
Transfers	800	0.00%									
Subtotal Planning & Environmental Services			91.09%	93.80%	95.03%	95.05%	91.09%	96.84%	97.58%	96.24%	93.78%
Public Affairs											
Salaries & Wages	100	96.25%	91.86%	94.58%	96.25%	94.61%	91.86%	97.56%	99.99%	100.64%	83.69%
Services	200	98.42%	98.98%	98.62%	98.42%	98.77%	98.98%	98.24%	98.11%	98.81%	99.55%
Materials and Supplies	300	58.49%	46.42%	46.43%	58.49%	65.88%	46.42%	46.43%	93.49%	77.49%	74.41%
Equipment	400	56.68%	99.06%	100.28%	56.68%	36.33%	99.06%	101.50%	7.62%	9.76%	19.14%
Indemnities	500	99.67%	100.00%	100.00%	99.67%	97.43%	100.00%	100.00%	99.01%	89.13%	100.00%
Transfers	800	0.00%									
Subtotal Public Affairs			93.62%	94.65%	96.03%	95.82%	93.62%	95.74%	98.62%	98.13%	93.05%
Water Department Operating and Maintenance Expenses Summary											
Salaries & Wages	100		92.69%	91.67%	94.16%	94.42%	92.69%	90.59%	99.70%	94.68%	95.09%
Services	200		90.46%	87.73%	87.50%	90.10%	90.46%	85.03%	87.03%	93.50%	95.87%
Power	220		78.91%	81.08%	82.77%	81.65%	78.91%	83.25%	86.44%	71.03%	90.39%
Gas	221		81.11%	78.39%	80.49%	82.32%	81.11%	75.53%	85.20%	85.06%	85.17%
SMIP/GARP	2xx		80.50%	130.14%	118.55%	110.31%	80.50%	212.88%	100.00%	100.00%	100.00%
Materials and Supplies	300		71.96%	73.59%	76.79%	78.87%	71.96%	75.35%	83.47%	81.51%	82.80%
Chemicals	307		112.11%	101.60%	100.46%	99.35%	112.11%	91.10%	97.90%	95.57%	99.53%
Equipment	400		57.02%	60.22%	64.80%	66.84%	57.02%	70.09%	74.07%	71.41%	70.58%
Indemnities	500		98.04%	98.04%	91.74%	86.03%	98.04%	98.04%	81.30%	74.52%	83.33%
Transfers	800		84.28%	72.73%	61.08%	64.75%	84.28%	65.32%	40.21%	73.21%	66.54%
Total Water Department Operating and Maintenance Expenses Summ			89.13%	90.00%	90.31%	91.08%	89.13%	90.92%	90.99%	91.27%	93.55%

Direct O&M Actual to Budget Factors — **Assumptions - 22B**

		Actual					Budget				
		2022	2021	2020	2019	2018	2022	2021	2020	2019	2018
PWD Direct O&M											
Human Resources and Administration											
Salaries & Wages	100	$ 9,951,298	$ 9,370,164	$ 9,673,937	$ 9,009,476	$ 8,707,658	$ 10,418,185	$ 10,039,053	$ 9,675,002	$ 9,459,000	$ 9,851,135
Services	200	3,126,084	3,241,468	2,516,056	2,997,589	3,228,503	5,243,000	5,238,000	3,083,000	5,650,000	4,374,100
Materials and Supplies	300	705,328	687,442	631,090	899,390	859,256	1,226,000	1,222,500	858,000	1,128,000	1,152,218
Equipment	400	201,305	331,348	55,271	214,297	475,462	699,000	676,000	108,000	733,000	556,190
Indemnities	500	-	-	-	-	-	-	-	100,000	100,000	100,000
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Human Resources and Administration		$ 13,984,015	$ 13,630,422	$ 12,876,354	$ 13,120,752	$ 13,270,879	$ 17,586,185	$ 17,175,553	$ 13,824,002	$ 17,070,000	$ 16,033,643
Finance											
Salaries & Wages	100	$ 5,784,838	$ 5,450,152	$ 5,456,616	$ 3,193,307	$ 3,012,527	$ 8,029,177	$ 7,672,958	$ 4,675,000	$ 4,916,034	$ 3,051,659
Services	200	8,568,116	9,271,497	7,312,002	7,328,266	7,882,538	7,635,974	7,723,500	7,870,000	7,865,000	8,731,808
SMIP/GARP	2xx	20,125,000	31,932,618	25,000,000	25,000,000	26,900,000	25,000,000	15,000,000	25,000,000	25,000,000	26,900,000
Materials and Supplies	300	733	56,931	3,459	46,807	52,064	58,000	58,000	68,000	65,000	96,305
Equipment	400	-	-	14,398	26,798	18,309	38,000	38,000	42,000	42,000	16,800
Indemnities	500	-	-	-	-	-	10,000	10,000	10,000	10,000	-
Transfers	800	6,489,730	7,838,707	4,423,296	8,052,752	7,319,325	7,700,000	12,000,000	11,000,000	11,000,000	11,000,000
Subtotal Finance		$ 40,968,417	$ 54,549,905	$ 42,209,771	$ 43,647,930	$ 45,184,763	$ 48,471,151	$ 42,502,458	$ 48,665,000	$ 48,898,034	$ 49,796,572
Construction and Engineering											
Salaries & Wages	100	$ 5,587,116	$ 4,576,001	$ 4,214,474	$ 2,225,368	$ 1,513,130	$ 6,488,450	$ 5,164,544	$ 3,716,360	$ 2,855,352	$ 1,848,821
Services	200	1,232,124	1,240,537	1,021,702	1,141,400	799,991	1,763,500	1,605,500	1,201,000	1,358,000	827,500
Materials and Supplies	300	25,933	23,587	61,791	63,643	73,576	103,000	97,000	116,500	141,000	193,420
Equipment	400	-	660	193,259	15,632	6,486	206,000	206,000	235,000	235,000	61,350
Indemnities	500	-	-	-	-	-	-	-	-	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Construction and Engineering		$ 6,845,173	$ 5,840,785	$ 5,491,226	$ 3,446,043	$ 2,393,183	$ 8,560,950	$ 7,073,044	$ 5,268,860	$ 4,589,352	$ 2,931,091
Operations											
Salaries & Wages	100	$ 88,799,038	$ 82,941,746	$ 85,482,469	$ 80,747,114	$ 79,570,651	$ 93,513,321	$ 91,633,042	$ 87,136,263	$ 84,546,676	$ 81,757,426
Services	200	88,611,437	81,249,860	77,776,273	76,327,780	67,977,576	98,407,422	100,715,250	92,595,300	80,109,026	69,784,843
Power	220	14,915,470	15,737,655	15,046,774	13,854,363	15,002,114	18,903,000	18,903,000	17,408,000	19,505,474	16,596,570
Gas	221	4,363,923	3,870,000	3,991,800	4,652,000	3,855,757	5,380,200	5,124,000	4,685,000	5,469,000	4,527,170
Materials and Supplies	300	16,067,708	15,618,059	17,381,434	16,573,700	16,189,484	22,040,500	20,408,000	20,796,766	20,361,000	19,266,793
Chemicals	307	29,339,822	23,842,156	22,886,203	22,115,310	21,771,176	26,171,000	26,171,000	23,378,000	23,141,000	21,872,905
Equipment	400	6,010,373	1,860,257	5,098,204	4,195,679	1,845,043	10,254,500	2,363,000	6,885,434	4,813,000	2,916,897
Indemnities	500	-	-	-	-	-	-	-	-	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Operations		$ 248,107,771	$ 225,119,733	$ 227,663,158	$ 218,465,946	$ 206,211,801	$ 274,669,943	$ 265,317,292	$ 252,884,763	$ 237,945,176	$ 216,722,604

Direct O&M Actual to Budget Factors **Assumptions - 22B**

		Actual					Budget				
		2022	2021	2020	2019	2018	2022	2021	2020	2019	2018
Planning & Environmental Services											
Salaries & Wages	100	$ 19,744,663	$ 17,273,380	$ 16,906,060	$ 14,956,269	$ 13,558,767	$ 21,602,592	$ 17,955,633	$ 16,906,740	$ 14,847,000	$ 14,714,696
Services	200	15,260,309	15,957,673	17,460,836	19,507,659	16,333,568	16,654,600	16,160,000	18,142,850	20,259,000	16,989,043
Materials and Supplies	300	1,477,792	1,425,909	1,405,580	1,680,851	1,200,234	1,775,000	1,640,000	1,547,200	1,912,000	1,428,850
Equipment	400	479,539	470,365	333,419	385,416	746,607	543,800	519,800	403,000	938,000	818,441
Indemnities	500	-	-	-	-	-	-	-	-	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Planning & Environmental Services		$ 36,962,303	$ 35,127,327	$ 36,105,895	$ 36,530,195	$ 31,839,176	$ 40,575,992	$ 36,275,433	$ 36,999,790	$ 37,956,000	$ 33,951,030
Public Affairs											
Salaries & Wages	100	$ 5,644,716	$ 5,464,005	$ 5,244,307	$ 4,922,385	$ 4,390,923	$ 6,145,116	$ 5,600,810	$ 5,245,060	$ 4,891,060	$ 5,246,556
Services	200	6,257,065	5,949,469	7,662,337	8,327,583	8,700,798	6,321,527	6,056,000	7,810,000	8,428,000	8,740,488
Materials and Supplies	300	258,576	258,613	359,005	432,412	401,159	557,000	557,000	384,000	558,000	539,124
Equipment	400	8,915	9,135	1,220	1,562	2,966	9,000	9,000	16,000	16,000	15,500
Indemnities	500	500,000	500,000	500,000	500,000	500,000	500,000	500,000	505,000	561,000	500,000
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Public Affairs		$ 12,669,272	$ 12,181,222	$ 13,766,869	$ 14,183,942	$ 13,995,846	$ 13,532,643	$ 12,722,810	$ 13,960,060	$ 14,454,060	$ 15,041,668
Water Department Operating and Maintenance Expe											
Salaries & Wages	100	$ 135,511,669	$ 125,075,448	$ 126,977,863	$ 115,053,919	$ 110,753,656	$ 146,196,841	$ 138,066,040	$ 127,354,425	$ 121,515,122	$ 116,470,294
Services	200	123,055,135	116,910,504	113,749,206	115,630,277	104,922,974	136,026,023	137,498,250	130,702,150	123,669,026	109,447,782
Power	220	14,915,470	15,737,655	15,046,774	13,854,363	15,002,114	18,903,000	18,903,000	17,408,000	19,505,474	16,596,570
Gas	221	4,363,923	3,870,000	3,991,800	4,652,000	3,855,757	5,380,200	5,124,000	4,685,000	5,469,000	4,527,170
SMIP/GARP	2xx	20,125,000	31,932,618	25,000,000	25,000,000	26,900,000	25,000,000	15,000,000	25,000,000	25,000,000	26,900,000
Materials and Supplies	300	18,536,070	18,070,541	19,842,359	19,696,803	18,775,773	25,759,500	23,982,500	23,770,466	24,165,000	22,676,710
Chemicals	307	29,339,822	23,842,156	22,886,203	22,115,310	21,771,176	26,171,000	26,171,000	23,378,000	23,141,000	21,872,905
Equipment	400	6,700,132	2,671,765	5,695,771	4,839,384	3,094,873	11,750,300	3,811,800	7,689,434	6,777,000	4,385,178
Indemnities	500	500,000	500,000	500,000	500,000	500,000	510,000	510,000	615,000	671,000	600,000
Transfers	800	6,489,730	7,838,707	4,423,296	8,052,752	7,319,325	7,700,000	12,000,000	11,000,000	11,000,000	11,000,000
Total Water Department Operating and Maintenance		**$ 359,536,951**	**$ 346,449,394**	**$ 338,113,272**	**$ 329,394,808**	**$ 312,895,648**	**$ 403,396,864**	**$ 381,066,590**	**$ 371,602,475**	**$ 360,912,622**	**$ 334,476,609**
		$ 359,536,951	$ 346,449,394	$ 338,113,272	$ 329,394,808	$ 312,895,648	$ 403,396,864	$ 381,066,590	$ 371,602,475	$ 360,912,622	$ 334,476,609

Direct O&M - Water and Sewer Allocation **Assumptions - 23**

		2023 Budget Detail	Actual/Budget Factor	2023 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
PWD Direct O&M								
Human Resources and Administration								
Class 100 - xxxxxxxxxx		0	96.23%	-	0.00%	31.00%	69.00%	0.00%
Class 100 - All Other		13,430,518	96.23%	12,923,806	100.00%	31.00%	69.00%	0.00%
Class 100 - Total	100	13,430,518	96.23%	12,923,806	100.00%	31.00%	69.00%	0.00%
Class 200 - xxxxxxxxxx		0	65.49%	-	0.00%	0.00%	0.00%	100.00%
Class 200 - All Other		5,411,000	65.49%	3,543,881	100.00%	31.00%	69.00%	0.00%
Class 200 - Total	200	5,411,000	65.49%	3,543,881	100.00%	31.00%	69.00%	0.00%
Class 300 - xxxxxxxxxx		0	61.21%	-	0.00%	0.00%	0.00%	100.00%
Class 300 - All Other		1,221,000	61.21%	747,356	100.00%	31.00%	69.00%	0.00%
Class 300 - Total	300	1,221,000	61.21%	747,356	100.00%	31.00%	69.00%	0.00%
Class 400 - xxxxxxxxxx		0	39.64%	-	0.00%	0.00%	0.00%	100.00%
Class 400 - All Other		946,000	39.64%	375,034	100.00%	31.00%	69.00%	0.00%
Class 400 - Total	400	946,000	39.64%	375,034	100.00%	31.00%	69.00%	0.00%
Class 500 - xxxxxxxxxx		0	0.00%	-	0.00%	0.00%	0.00%	100.00%
Class 500 - All Other		0	0.00%	-	0.00%	31.00%	69.00%	0.00%
Class 500 - Total	500	-	#DIV/0!	-	0.00%	100.00%	0.00%	0.00%
Class 800 - xxxxxxxxxx		0	0.00%	-	0.00%	0.00%	0.00%	100.00%
Class 800 - All Other		0	0.00%	-	0.00%	31.00%	69.00%	0.00%
Class 800 - Total	800	0	0.00%	-	0.00%	100.00%	0.00%	0.00%
Subtotal Human Resources and Administration		21,008,518	83.73%	17,590,077				
Finance								
Class 100 - Hydrant Testing		4,000,000	81.91%	3,276,536	48.14%	100.00%	0.00%	0.00%
Class 100 - All Other		4,308,758	81.91%	3,529,451	51.86%	38.00%	62.00%	0.00%
Class 100 - Total		8,308,758	81.91%	6,805,987	100.00%	67.85%	32.15%	0.00%
Stormwater Program - Residential		0	100.00%	-	0.00%	0.00%	0.00%	100.00%
Stormwater Program - Non-Residential		0	100.00%	-	0.00%	0.00%	0.00%	100.00%
Class 200 - Wastewater Collection Mains		0	100.00%	-	0.00%	0.00%	100.00%	0.00%
Class 200 - Green Initiatives (LTCP)		0	100.00%	-	0.00%	0.00%	50.00%	50.00%
Class 200 - Customer (SW Billing)		340,000	100.00%	340,000	3.64%	0.00%	100.00%	0.00%

Direct O&M - Water and Sewer Allocation **Assumptions - 23**

	2023 Budget Detail	Actual/Budget Factor	2023 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Class 200 - Customer (Basis2)	1,100,000	100.00%	1,100,000	11.76%	33.40%	66.60%	0.00%
Class 200 - All Other	7,911,000	100.00%	7,911,000	84.60%	38.00%	62.00%	0.00%
Class 200 - Total	9,351,000	100.00%	9,351,000	100.00%	36.08%	63.92%	0.00%
Class 2xx - SMIP/GARP (Wastewater Collection)	25,000,000	100.00%	25,000,000	100.00%	0.00%	100.00%	0.00%
Class 2xx - All Other	0	100.00%	-	0.00%	0.00%	100.00%	0.00%
Class 2xx - Total	25,000,000	100.00%	25,000,000	100.00%	0.00%	100.00%	0.00%
Class 300 - xxxxxxxxxx	0	33.22%	-	0.00%	0.00%	0.00%	100.00%
Class 300 - All Other	52,000	33.22%	17,274	100.00%	38.00%	62.00%	0.00%
Class 300 - Total	52,000	33.22%	17,274	100.00%	38.00%	62.00%	0.00%
Class 400 - xxxxxxxxxx	0	12.20%	-	0.00%	0.00%	0.00%	100.00%
Class 400 - All Other	1,000	12.20%	122	100.00%	38.00%	62.00%	0.00%
Class 400 - Total	1,000	12.20%	122	100.00%	38.00%	62.00%	0.00%
Class 500 - xxxxxxxxxx	0	0.00%	-	0.00%	0.00%	0.00%	100.00%
Class 500 - All Other	10,000	0.00%	-	0.00%	38.00%	62.00%	0.00%
Class 500 - Total	10,000	0.00%	-	0.00%	100.00%	0.00%	0.00%
Class 800 - xxxxxxxxxx	0	79.12%	-	0.00%	0.00%	0.00%	100.00%
Class 800 - All Other	7,900,000	79.12%	6,250,578	100.00%	36.00%	64.00%	0.00%
Class 800 - Total	7,900,000	79.12%	6,250,578	100.00%	36.00%	64.00%	0.00%
Subtotal Finance	50,622,758	93.68%	47,424,961				
Construction and Engineering							
Class 100 - xxxxxxxxxxxxxx	0	93.55%	-	0.00%	15.00%	85.00%	0.00%
Class 100 - xxxxxxxxxxxxxx	0	93.55%	-	0.00%	40.00%	60.00%	0.00%
Class 100 - All Other (Plant Investment)	8,196,392	93.55%	7,667,490	100.00%	40.00%	60.00%	0.00%
Class 100 - Total 100	8,196,392	93.55%	7,667,490	100.00%	40.00%	60.00%	0.00%
Class 200 - Res Stormwater Program	0	76.46%	-	0.00%	0.00%	0.00%	100.00%
Class 200 - Non-Res Stormwater Program	0	76.46%	-	0.00%	0.00%	0.00%	100.00%
Class 200 - Wastewater Collection Mains	0	76.46%	-	0.00%	0.00%	100.00%	0.00%
Class 200 - xxxxxxxxxxxxxx	0	76.46%	-	0.00%	0.00%	100.00%	0.00%
Class 200 - xxxxxxxxxxxxxx	0	76.46%	-	0.00%	40.00%	60.00%	0.00%
Class 200 - xxxxxxxxxxxxxx	0	76.46%	-	0.00%	40.00%	60.00%	0.00%

Direct O&M - Water and Sewer Allocation **Assumptions - 23**

		2023 Budget Detail	Actual/Budget Factor	2023 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Class 200 - All Other (Plant Investment)		1,786,000	76.46%	1,365,631	100.00%	40.00%	60.00%	0.00%
Class 200 - Total	200	1,786,000	76.46%	1,365,631	100.00%	40.00%	60.00%	0.00%
Class 300 - xxxxxxxxxxxxxx		0	35.17%	-	0.00%	0.00%	0.00%	100.00%
Class 300 - xxxxxxxxxxxxxx		0	35.17%	-	0.00%	40.00%	60.00%	0.00%
Class 300 - All Other (Plant Investment)		110,000	35.17%	38,686	100.00%	40.00%	60.00%	0.00%
Class 300 - Total	300	110,000	35.17%	38,686	100.00%	40.00%	60.00%	0.00%
Class 400 - xxxxxxxxxxxxxx		0	29.97%	-	0.00%	0.00%	0.00%	100.00%
Class 400 - xxxxxxxxxxxxxx		0	29.97%	-	0.00%	40.00%	60.00%	0.00%
Class 400 - All Other (Plant Investment)		221,000	29.97%	66,238	100.00%	40.00%	60.00%	0.00%
Class 400 - Total	400	221,000	29.97%	66,238	100.00%	40.00%	60.00%	0.00%
Class 500 - xxxxxxxxxx		0	0.00%	-	0.00%	0.00%	0.00%	100.00%
Class 500 - All Other		0	0.00%	-	0.00%	40.00%	60.00%	0.00%
Class 500 - Total	500	0	0.00%	-	0.00%	100.00%	0.00%	0.00%
Class 800 - xxxxxxxxxx		0	0.00%	-	0.00%	0.00%	0.00%	100.00%
Class 800 - All Other		0	0.00%	-	0.00%	40.00%	60.00%	0.00%
Class 800 - Total	800	0	0.00%	-	0.00%	100.00%	0.00%	0.00%
Subtotal Construction and Engineering		10,313,392	88.60%	9,138,045				
Operations								
Class 100	100	See Assumptions-24 and Direct O&M-9						
Class 200	200	See Assumptions-26 and Direct O&M-11						
Class 220	220	See Assumptions-25A and Direct O&M-10A						
Class 221	221	See Assumptions-25B and Direct O&M-10B						
Class 300	300	See Assumptions-28 and Direct O&M-13						
Class 307	307	See Assumptions-27 and Direct O&M-12						
Class 400	400	See Assumptions-29 and Direct O&M-14						
Class 500	500					50.00%	50.00%	0.00%
Class 800	800					50.00%	50.00%	0.00%
Planning & Environmental Services								
Class 100 - Office of Watersheds		3,425,047	95.50%	3,270,924	15.45%	15.00%	85.00%	0.00%
Class 100 - BLS		8,589,184	95.50%	8,202,680	38.75%	40.00%	60.00%	0.00%

Direct O&M - Water and Sewer Allocation **Assumptions - 23**

		2023 Budget Detail	Actual/Budget Factor	2023 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Class 100 - P&R		3,158,749	95.50%	3,016,609	14.25%	40.00%	60.00%	0.00%
Class 100 - GSI Implementation		6,992,117	95.50%	6,677,479	31.55%	0.00%	100.00%	0.00%
Class 100 - Total	100	22,165,097	95.50%	21,167,692	100.00%	23.52%	76.48%	0.00%
Class 200 - Res Stormwater Program		0	95.53%	-	0.00%	0.00%	0.00%	100.00%
Class 200 - Non-Res Stormwater Program		0	95.53%	-	0.00%	0.00%	0.00%	100.00%
Class 200 - Wastewater Collection Mains		0	95.53%	-	0.00%	0.00%	100.00%	0.00%
Class 200 - GSI Implementation		2,499,000	95.53%	2,387,254	13.64%	0.00%	100.00%	0.00%
Class 200 - All Other - Office of Watersheds		10,525,000	95.53%	10,054,360	57.46%	40.00%	60.00%	0.00%
Class 200 - All Other - BLS		2,572,000	95.53%	2,456,990	14.04%	40.00%	60.00%	0.00%
Class 200 - All Other - P&R		2,722,000	95.53%	2,600,282	14.86%	40.00%	60.00%	0.00%
Class 200 - Total	200	18,318,000	95.53%	17,498,886	100.00%	34.54%	65.46%	0.00%
Class 300 - Office of Watersheds		31,000	86.84%	26,921	1.67%	15.00%	85.00%	0.00%
Class 300 - BLS		1,789,000	86.84%	1,553,606	96.60%	40.00%	60.00%	0.00%
Class 300 - P&R		4,000	86.84%	3,474	0.22%	40.00%	60.00%	0.00%
Class 300 - GSI Implementation		28,000	86.84%	24,316	1.51%	0.00%	100.00%	0.00%
Class 300 - Total	300	1,852,000	86.84%	1,608,317	100.00%	38.98%	61.02%	0.00%
Class 400 - Office of Watersheds		15,000	87.50%	13,125	1.69%	15.00%	85.00%	0.00%
Class 400 - BLS		856,000	87.50%	749,028	96.51%	40.00%	60.00%	0.00%
Class 400 - P&R		2,000	87.50%	1,750	0.23%	40.00%	60.00%	0.00%
Class 300 - GSI Implementation		14,000	87.50%	12,250	1.58%	0.00%	100.00%	0.00%
Class 400 - Total	400	887,000	87.50%	776,153	100.00%	38.95%	61.05%	0.00%
Class 500 - xxxxxxxxxx		-	0.00%	-	0.00%	0.00%	0.00%	100.00%
Class 500 - All Other		0	0.00%	-	0.00%	40.00%	60.00%	0.00%
Class 500 - Total	500	0	0.00%	-	0.00%	100.00%	0.00%	0.00%
Class 800 - xxxxxxxxxx		-	0.00%	-	0.00%	0.00%	0.00%	100.00%
Class 800 - All Other		0	0.00%	-	0.00%	40.00%	60.00%	0.00%
Class 800 - Total	800	0	0.00%	-	0.00%	100.00%	0.00%	0.00%
Subtotal Planning & Environmental Services		43,222,097	94.98%	41,051,048				
Public Affairs								
Class 100 - xxxxxxxxxx		-	96.25%	-	0.00%	0.00%	0.00%	100.00%
Class 100 - All Other		6,245,368	96.25%	6,010,874	100.00%	50.00%	50.00%	0.00%

Direct O&M - Water and Sewer Allocation **Assumptions - 23**

		2023 Budget Detail	Actual/Budget Factor	2023 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Class 100 - Total	100	6,245,368	96.25%	6,010,874	100.00%	50.00%	50.00%	0.00%
Class 200 - Stormwater Res		0	98.42%	-	0.00%	0.00%	0.00%	100.00%
Class 200 - Stormwater Non-Res		0	98.42%	-	0.00%	0.00%	0.00%	100.00%
Class 200 - Wastewater Collection Mains		-	98.42%	-	0.00%	0.00%	100.00%	0.00%
Class 200 - All Other - A&G Volume		1,785,000	98.42%	1,756,824	24.91%	50.00%	50.00%	0.00%
Class 200 - All Other - A&G Customer		3,403,000	98.42%	3,349,284	47.49%	50.00%	50.00%	0.00%
Class 200 - All Other - A&G		1,978,000	98.42%	1,946,778	27.60%	50.00%	50.00%	0.00%
Class 200 - Total	200	7,166,000	98.42%	7,052,886	100.00%	50.00%	50.00%	0.00%
Class 300 - xxxxxxxxxx		-	58.49%	-	0.00%	0.00%	0.00%	100.00%
Class 300 - All Other		557,000	58.49%	325,794	100.00%	50.00%	50.00%	0.00%
Class 300 - Total	300	557,000	58.49%	325,794	100.00%	50.00%	50.00%	0.00%
Class 400 - xxxxxxxxxx		-	56.68%	-	0.00%	0.00%	0.00%	100.00%
Class 400 - All Other		9,000	56.68%	5,101	100.00%	50.00%	50.00%	0.00%
Class 400 - Total	400	9,000	56.68%	5,101	100.00%	50.00%	50.00%	0.00%
Class 500 - xxxxxxxxxx		-	99.67%	-	0.00%	0.00%	0.00%	100.00%
Class 500 - All Other		500,000	99.67%	498,339	100.00%	50.00%	50.00%	0.00%
Class 500 - Total	500	500,000	99.67%	498,339	100.00%	50.00%	50.00%	0.00%
Class 800 - xxxxxxxxxx		-	0.00%	-	0.00%	0.00%	0.00%	100.00%
Class 800 - All Other		0	0.00%	-	0.00%	50.00%	50.00%	0.00%
Class 800 - Total	800	0	0.00%	-	0.00%	100.00%	0.00%	0.00%
Subtotal Public Affairs		14,477,368	95.96%	13,892,994				

Direct O&M - Water and Sewer Allocation - Operations Class 100					Assumptions - 24		
	2023 Budget Detail	Actual/Budget Factor	2023 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Water Direct Costs							
Baxter Treatment Plant	4,008,943	94.47%	3,787,216	4.05%	100.00%	0.00%	0.00%
Queen Lane Treatment Plant	3,691,160	94.47%	3,487,010	3.73%	100.00%	0.00%	0.00%
Belmont Treatment Plant	3,784,448	94.47%	3,575,138	3.83%	100.00%	0.00%	0.00%
Conveyance Headquarters		94.47%	-	0.00%	100.00%	0.00%	0.00%
Load Control	2,079,102	94.47%	1,964,112	2.10%	100.00%	0.00%	0.00%
Distribution	18,514,047	94.47%	17,490,074	18.72%	100.00%	0.00%	0.00%
Pumping	3,197,933	94.47%	3,021,063	3.23%	100.00%	0.00%	0.00%
Emergency & Support Services		94.47%	-	0.00%	100.00%	0.00%	0.00%
Sewer Direct Costs							
Biosolids Engr Services		94.47%	-	0.00%	0.00%	100.00%	0.00%
Biosolids Utilization		94.47%	-	0.00%	0.00%	100.00%	0.00%
Biosolids Processing		94.47%	-	0.00%	0.00%	100.00%	0.00%
NEWPCP	8,072,127	94.47%	7,625,675	8.16%	0.00%	100.00%	0.00%
SWWPCP	7,924,582	94.47%	7,486,290	8.01%	0.00%	100.00%	0.00%
SEWPCP	4,732,452	94.47%	4,470,710	4.79%	0.00%	100.00%	0.00%
Industrial Waste	2,053,823	94.47%	1,940,230	2.08%	0.00%	100.00%	0.00%
Sewer Maintenance	11,946,366	94.47%	11,285,638	12.08%	0.00%	100.00%	0.00%
Inlet Cleaning	6,269,710	94.47%	5,922,946	6.34%	0.00%	100.00%	0.00%
Interceptors/Flow Control	5,532,615	94.47%	5,226,618	5.60%	0.00%	100.00%	0.00%
GSI Maintenance	1,926,901	94.47%	1,820,329	1.95%	0.00%	100.00%	0.00%
Collector System Support	1,069,298	94.47%	1,010,158	1.08%	0.00%	100.00%	0.00%
Allocated Costs							
Treatment Headquarters (50/50)	668,096	94.47%	631,145	0.68%	50.00%	50.00%	0.00%
Machine Shops (50/50)		94.47%	-	0.00%	50.00%	50.00%	0.00%
Building Maintenance (50/50)		94.47%	-	0.00%	50.00%	50.00%	0.00%
Security (50/50)		94.47%	-	0.00%	50.00%	50.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50)	6,442,876	94.47%	6,086,534	6.52%	50.00%	50.00%	0.00%
Materials Management (50/50)	2,155,219	94.47%	2,036,018	2.18%	50.00%	50.00%	0.00%
Customer Service (50/50)	1,942,785	94.47%	1,835,334	1.96%	50.00%	50.00%	0.00%
Warranty Program		94.47%	-	0.00%	50.00%	50.00%	0.00%
Meter Shop (50/50)	2,866,175	94.47%	2,707,653	2.90%	50.00%	50.00%	0.00%
Automotive Maintenance (35/65)	-	94.47%	-	0.00%	35.00%	65.00%	0.00%
Total	98,878,658	94.47%	93,409,891	100.00%	42.79%	57.21%	0.00%

Direct O&M - Water and Sewer Allocation - Operations Power Costs				Assumptions - 25A		
	2023	2023		Allocation		
	Budget Detail	Estimated Actual	Distribution	Water	Wastewater	Stormwater
Water Direct Costs						
Baxter Treatment Plant		-	0.00%	100.00%	0.00%	0.00%
Queen Lane Treatment Plant		-	0.00%	100.00%	0.00%	0.00%
Belmont Treatment Plant		-	0.00%	100.00%	0.00%	0.00%
Conveyance Headquarters		-	0.00%	100.00%	0.00%	0.00%
Load Control	51.60%	9,284,431	51.60%	100.00%	0.00%	0.00%
Distribution	0.50%	89,965	0.50%	100.00%	0.00%	0.00%
Pumping		-	0.00%	100.00%	0.00%	0.00%
Emergency & Support Services		-	0.00%	100.00%	0.00%	0.00%
Sewer Direct Costs						
Biosolids Engr Services		-	0.00%	0.00%	100.00%	0.00%
Biosolids Utilization		-	0.00%	0.00%	100.00%	0.00%
Biosolids Processing		-	0.00%	0.00%	100.00%	0.00%
NEWPCP	8.90%	1,601,384	8.90%	0.00%	100.00%	0.00%
SWWPCP	27.10%	4,876,126	27.10%	0.00%	100.00%	0.00%
SEWPCP	7.90%	1,421,454	7.90%	0.00%	100.00%	0.00%
Industrial Waste		-	0.00%	0.00%	100.00%	0.00%
Sewer Maintenance		-	0.00%	0.00%	100.00%	0.00%
Inlet Cleaning		-	0.00%	0.00%	100.00%	0.00%
Interceptors/Flow Control	4.00%	719,723	4.00%	0.00%	100.00%	0.00%
GSI Maintenance		-	0.00%	0.00%	100.00%	0.00%
Collector System Support	0.00%	-	0.00%	0.00%	100.00%	0.00%
Allocated Costs						
Treatment Headquarters (50/50)	0.00%	-	0.00%	50.00%	50.00%	0.00%
Machine Shops (50/50)		-	0.00%	50.00%	50.00%	0.00%
Building Maintenance (50/50)		-	0.00%	50.00%	50.00%	0.00%
Security (50/50)		-	0.00%	50.00%	50.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50)		-	0.00%	50.00%	50.00%	0.00%
Materials Management (50/50)		-	0.00%	50.00%	50.00%	0.00%
Customer Service (50/50)		-	0.00%	50.00%	50.00%	0.00%
Warranty Program		-	0.00%	50.00%	50.00%	0.00%
Meter Shop (50/50)		-	0.00%	50.00%	50.00%	0.00%
Automotive Maintenance (35/65)		-	0.00%	35.00%	65.00%	0.00%
Total	100.00%	17,993,083	100.00%	52.10%	47.90%	0.00%

Direct O&M - Water and Sewer Allocation - Operations Gas Costs				Assumptions - 25B		
	2023	2023		Allocation		
	Budget Detail	Estimated Actual	Distribution	Water	Wastewater	Stormwater
Water Direct Costs						
Baxter Treatment Plant		-	0.00%	100.00%	0.00%	0.00%
Queen Lane Treatment Plant		-	0.00%	100.00%	0.00%	0.00%
Belmont Treatment Plant		-	0.00%	100.00%	0.00%	0.00%
Conveyance Headquarters		-	0.00%	100.00%	0.00%	0.00%
Load Control	10.90%	755,808	10.90%	100.00%	0.00%	0.00%
Distribution	2.10%	145,614	2.10%	100.00%	0.00%	0.00%
Pumping		-	0.00%	100.00%	0.00%	0.00%
Emergency & Support Services		-	0.00%	100.00%	0.00%	0.00%
Sewer Direct Costs						
Biosolids Engr Services		-	0.00%	0.00%	100.00%	0.00%
Biosolids Utilization		-	0.00%	0.00%	100.00%	0.00%
Biosolids Processing	53.40%	3,702,765	53.40%	0.00%	100.00%	0.00%
NEWPCP	26.70%	1,851,382	26.70%	0.00%	100.00%	0.00%
SWWPCP	0.00%	-	0.00%	0.00%	100.00%	0.00%
SEWPCP	3.80%	263,493	3.80%	0.00%	100.00%	0.00%
Industrial Waste		-	0.00%	0.00%	100.00%	0.00%
Sewer Maintenance		-	0.00%	0.00%	100.00%	0.00%
Inlet Cleaning		-	0.00%	0.00%	100.00%	0.00%
Interceptors/Flow Control	0.00%	-	0.00%	0.00%	100.00%	0.00%
GSI Maintenance		-	0.00%	0.00%	100.00%	0.00%
Collector System Support	1.80%	124,812	1.80%	0.00%	100.00%	0.00%
Allocated Costs						
Treatment Headquarters (50/50)	1.30%	90,142	1.30%	50.00%	50.00%	0.00%
Machine Shops (50/50)		-	0.00%	50.00%	50.00%	0.00%
Building Maintenance (50/50)		-	0.00%	50.00%	50.00%	0.00%
Security (50/50)		-	0.00%	50.00%	50.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50)		-	0.00%	50.00%	50.00%	0.00%
Materials Management (50/50)		-	0.00%	50.00%	50.00%	0.00%
Customer Service (50/50)		-	0.00%	50.00%	50.00%	0.00%
Warranty Program		-	0.00%	50.00%	50.00%	0.00%
Meter Shop (50/50)		-	0.00%	50.00%	50.00%	0.00%
Automotive Maintenance (35/65)		-	0.00%	35.00%	65.00%	0.00%
Total	100.00%	6,934,016	100.00%	13.65%	86.35%	0.00%

Direct O&M - Water and Sewer Allocation - Operations Class 200 Excluding Power and Gas					Assumptions - 26		
	2023 Budget Detail	Actual/Budget Factor	2023 Estimated Actual	Distribution	Allocation		
					Water	Wastewater	Stormwater
Water Direct Costs							
Baxter Treatment Plant	802,000	84.89%	680,813	0.77%	100.00%	0.00%	0.00%
Queen Lane Treatment Plant	1,419,000	84.89%	1,204,580	1.36%	100.00%	0.00%	0.00%
Belmont Treatment Plant	536,000	84.89%	455,007	0.51%	100.00%	0.00%	0.00%
Conveyance Headquarters		84.89%	-	0.00%	100.00%	0.00%	0.00%
Load Control	1,959,172	84.89%	1,663,129	1.88%	100.00%	0.00%	0.00%
Distribution	3,302,000	84.89%	2,803,047	3.16%	100.00%	0.00%	0.00%
Pumping	385,000	84.89%	326,824	0.37%	100.00%	0.00%	0.00%
Emergency & Support Services		84.89%	-	0.00%	100.00%	0.00%	0.00%
Sewer Direct Costs							
Biosolids Engr Services		84.89%	-	0.00%	0.00%	100.00%	0.00%
Biosolids Utilization	-	84.89%	-	0.00%	0.00%	100.00%	0.00%
Biosolids Processing	25,161,000	84.89%	21,359,016	24.11%	0.00%	100.00%	0.00%
NEWPCP	14,824,000	84.89%	12,584,001	14.21%	0.00%	100.00%	0.00%
SWWPCP	3,760,000	84.89%	3,191,841	3.60%	0.00%	100.00%	0.00%
SEWPCP	2,131,000	84.89%	1,808,993	2.04%	0.00%	100.00%	0.00%
Industrial Waste	131,000	84.89%	111,205	0.13%	0.00%	100.00%	0.00%
Sewer Maintenance	3,481,000	84.89%	2,954,999	3.34%	0.00%	100.00%	0.00%
Inlet Cleaning	58,000	84.89%	49,236	0.06%	0.00%	100.00%	0.00%
Interceptors/Flow Control	5,702,250	84.89%	4,840,605	5.46%	0.00%	100.00%	0.00%
GSI Maintenance	8,564,000	84.89%	7,269,926	8.21%	0.00%	100.00%	0.00%
Collector System Support	620,000	84.89%	526,314	0.59%	0.00%	100.00%	0.00%
Allocated Costs							
Treatment Headquarters (50/50)	222,000	84.89%	188,454	0.21%	50.00%	50.00%	0.00%
Machine Shops (50/50)		84.89%	-	0.00%	50.00%	50.00%	0.00%
Building Maintenance (50/50)		84.89%	-	0.00%	50.00%	50.00%	0.00%
Security (50/50)		84.89%	-	0.00%	50.00%	50.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50)	26,158,080	84.89%	22,205,431	25.07%	50.00%	50.00%	0.00%
Materials Management (50/50)	100,000	84.89%	84,889	0.10%	50.00%	50.00%	0.00%
Customer Service (50/50)	5,014,000	84.89%	4,256,353	4.81%	50.00%	50.00%	0.00%
Warranty Program		84.89%	-	0.00%	50.00%	50.00%	0.00%
Meter Shop (50/50)	17,000	84.89%	14,431	0.02%	50.00%	50.00%	0.00%
Automotive Maintenance (35/65)	-	84.89%	-	0.00%	35.00%	65.00%	0.00%
Total	104,346,502	84.89%	88,579,094	100.00%	23.15%	76.85%	0.00%

Direct O&M - Water and Sewer Allocation - Operations Chemical Costs					Assumptions - 27		
	2023 Budget Detail	Actual/Budget Factor	2023 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Water Direct Costs							
Baxter Treatment Plant	1,845,000	100.00%	1,845,000	5.00%	100.00%	0.00%	0.00%
Queen Lane Treatment Plant	1,875,300	100.00%	1,875,300	5.08%	100.00%	0.00%	0.00%
Belmont Treatment Plant	2,443,200	100.00%	2,443,200	6.62%	100.00%	0.00%	0.00%
Conveyance Headquarters	-	100.00%	-	0.00%	100.00%	0.00%	0.00%
Load Control	-	100.00%	-	0.00%	100.00%	0.00%	0.00%
Distribution	26,500	100.00%	26,500	0.07%	100.00%	0.00%	0.00%
Pumping	3,000	100.00%	3,000	0.01%	100.00%	0.00%	0.00%
Emergency & Support Services	-	100.00%	-	0.00%	100.00%	0.00%	0.00%
Sewer Direct Costs							
Biosolids Engr Services	-	100.00%	-	0.00%	0.00%	100.00%	0.00%
Biosolids Utilization	-	100.00%	-	0.00%	0.00%	100.00%	0.00%
Biosolids Processing	-	100.00%	-	0.00%	0.00%	100.00%	0.00%
NEWPCP	1,473,550	100.00%	1,473,550	3.99%	0.00%	100.00%	0.00%
SWWPCP	743,900	100.00%	743,900	2.01%	0.00%	100.00%	0.00%
SEWPCP	670,200	100.00%	670,200	1.81%	0.00%	100.00%	0.00%
Industrial Waste	-	100.00%	-	0.00%	0.00%	100.00%	0.00%
Sewer Maintenance	5,000	100.00%	5,000	0.01%	0.00%	100.00%	0.00%
Inlet Cleaning	2,000	100.00%	2,000	0.01%	0.00%	100.00%	0.00%
Interceptors/Flow Control	1,526,100	100.00%	1,526,100	4.13%	0.00%	100.00%	0.00%
GSI Maintenance	12,600	100.00%	12,600	0.03%	0.00%	100.00%	0.00%
Collector System Support	-	100.00%	-	0.00%	0.00%	100.00%	0.00%
Allocated Costs							
Treatment Headquarters (50/50)	26,284,480	100.00%	26,284,480	71.18%	50.00%	50.00%	0.00%
Machine Shops (50/50)	-	100.00%	-	0.00%	50.00%	50.00%	0.00%
Building Maintenance (50/50)	-	100.00%	-	0.00%	50.00%	50.00%	0.00%
Security (50/50)	-	100.00%	-	0.00%	50.00%	50.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50)	-	100.00%	-	0.00%	50.00%	50.00%	0.00%
Materials Management (50/50)	15,000	100.00%	15,000	0.04%	50.00%	50.00%	0.00%
Customer Service (50/50)	-	100.00%	-	0.00%	50.00%	50.00%	0.00%
Warranty Program	-	100.00%	-	0.00%	50.00%	50.00%	0.00%
Meter Shop (50/50)	-	100.00%	-	0.00%	50.00%	50.00%	0.00%
Automotive Maintenance (35/65)	-	100.00%	-	0.00%	35.00%	65.00%	0.00%
Total	36,925,830	100.00%	36,925,830	100.00%	52.38%	47.62%	0.00%

Direct O&M - Water and Sewer Allocation - Operations Class 300 Excluding Chemicals					Assumptions - 28		
	2023 Budget Detail	Actual/Budget Factor	2023 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Water Direct Costs							
Baxter Treatment Plant	1,290,000	77.58%	1,000,813	5.84%	100.00%	0.00%	0.00%
Queen Lane Treatment Plant	1,121,000	77.58%	869,699	5.08%	100.00%	0.00%	0.00%
Belmont Treatment Plant	874,000	77.58%	678,070	3.96%	100.00%	0.00%	0.00%
Conveyance Headquarters		77.58%	-	0.00%	100.00%	0.00%	0.00%
Load Control	186,000	77.58%	144,303	0.84%	100.00%	0.00%	0.00%
Distribution	232,000	77.58%	179,991	1.05%	100.00%	0.00%	0.00%
Pumping	537,000	77.58%	416,618	2.43%	100.00%	0.00%	0.00%
Emergency & Support Services		77.58%	-	0.00%	100.00%	0.00%	0.00%
Sewer Direct Costs							
Biosolids Engr Services		77.58%	-	0.00%	0.00%	100.00%	0.00%
Biosolids Utilization		77.58%	-	0.00%	0.00%	100.00%	0.00%
Biosolids Processing	25,000	77.58%	19,396	0.11%	0.00%	100.00%	0.00%
NEWPCP	2,371,000	77.58%	1,839,479	10.74%	0.00%	100.00%	0.00%
SWWPCP	1,512,000	77.58%	1,173,046	6.85%	0.00%	100.00%	0.00%
SEWPCP	1,542,000	77.58%	1,196,321	6.98%	0.00%	100.00%	0.00%
Industrial Waste	96,000	77.58%	74,479	0.43%	0.00%	100.00%	0.00%
Sewer Maintenance	515,000	77.58%	399,549	2.33%	0.00%	100.00%	0.00%
Inlet Cleaning	110,000	77.58%	85,341	0.50%	0.00%	100.00%	0.00%
Interceptors/Flow Control	1,140,000	77.58%	884,439	5.16%	0.00%	100.00%	0.00%
GSI Maintenance	1,068,500	77.58%	828,968	4.84%	0.00%	100.00%	0.00%
Collector System Support	-	77.58%	-	0.00%	0.00%	100.00%	0.00%
Allocated Costs							
Treatment Headquarters (50/50)	11,000	77.58%	8,534	0.05%	50.00%	50.00%	0.00%
Machine Shops (50/50)		77.58%	-	0.00%	50.00%	50.00%	0.00%
Building Maintenance (50/50)		77.58%	-	0.00%	50.00%	50.00%	0.00%
Security (50/50)		77.58%	-	0.00%	50.00%	50.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50)	284,000	77.58%	220,334	1.29%	50.00%	50.00%	0.00%
Materials Management (50/50)	9,037,000	77.58%	7,011,122	40.93%	50.00%	50.00%	0.00%
Customer Service (50/50)	29,000	77.58%	22,499	0.13%	50.00%	50.00%	0.00%
Warranty Program		77.58%	-	0.00%	50.00%	50.00%	0.00%
Meter Shop (50/50)	97,000	77.58%	75,255	0.44%	50.00%	50.00%	0.00%
Automotive Maintenance (35/65)	-	77.58%	-	0.00%	35.00%	65.00%	0.00%
Total	22,077,500	77.58%	17,128,256	100.00%	40.63%	59.37%	0.00%

Direct O&M - Water and Sewer Allocation - Operations Class 400					Assumptions - 29		
	2023 Budget Detail	Actual/Budget Factor	2023 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Water Direct Costs							
Baxter Treatment Plant	218,000	66.50%	144,963	4.72%	100.00%	0.00%	0.00%
Queen Lane Treatment Plant	48,000	66.50%	31,918	1.04%	100.00%	0.00%	0.00%
Belmont Treatment Plant	65,000	66.50%	43,223	1.41%	100.00%	0.00%	0.00%
Conveyance Headquarters		66.50%	-	0.00%	100.00%	0.00%	0.00%
Load Control	97,000	66.50%	64,502	2.10%	100.00%	0.00%	0.00%
Distribution	147,000	66.50%	97,750	3.18%	100.00%	0.00%	0.00%
Pumping	52,000	66.50%	34,578	1.13%	100.00%	0.00%	0.00%
Emergency & Support Services		66.50%	-	0.00%	100.00%	0.00%	0.00%
Sewer Direct Costs							
Biosolids Engr Services		66.50%	-	0.00%	0.00%	100.00%	0.00%
Biosolids Utilization		66.50%	-	0.00%	0.00%	100.00%	0.00%
Biosolids Processing	-	66.50%	-	0.00%	0.00%	100.00%	0.00%
NEWPCP	138,000	66.50%	91,766	2.99%	0.00%	100.00%	0.00%
SWWPCP	272,000	66.50%	180,871	5.89%	0.00%	100.00%	0.00%
SEWPCP	77,000	66.50%	51,203	1.67%	0.00%	100.00%	0.00%
Industrial Waste	4,000	66.50%	2,660	0.09%	0.00%	100.00%	0.00%
Sewer Maintenance	62,000	66.50%	41,228	1.34%	0.00%	100.00%	0.00%
Inlet Cleaning	16,000	66.50%	10,639	0.35%	0.00%	100.00%	0.00%
Interceptors/Flow Control	72,000	66.50%	47,878	1.56%	0.00%	100.00%	0.00%
GSI Maintenance	106,500	66.50%	70,819	2.31%	0.00%	100.00%	0.00%
Collector System Support	-	66.50%	-	0.00%	0.00%	100.00%	0.00%
Allocated Costs							
Treatment Headquarters (50/50)	1,000	66.50%	665	0.02%	50.00%	50.00%	0.00%
Machine Shops (50/50)		66.50%	-	0.00%	50.00%	50.00%	0.00%
Building Maintenance (50/50)		66.50%	-	0.00%	50.00%	50.00%	0.00%
Security (50/50)		66.50%	-	0.00%	50.00%	50.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50)	3,200,000	66.50%	2,127,899	69.33%	50.00%	50.00%	0.00%
Materials Management (50/50)	30,000	66.50%	19,949	0.65%	50.00%	50.00%	0.00%
Customer Service (50/50)	3,000	66.50%	1,995	0.07%	50.00%	50.00%	0.00%
Warranty Program		66.50%	-	0.00%	50.00%	50.00%	0.00%
Meter Shop (50/50)	7,000	66.50%	4,655	0.15%	50.00%	50.00%	0.00%
Automotive Maintenance (35/65)	-	66.50%	-	0.00%	35.00%	65.00%	0.00%
Total	4,615,500	66.50%	3,069,161	100.00%	48.69%	51.31%	0.00%

Other Department O&M Actual to Budget Factors — Assumptions - 30A

		Use	Historical Averages 1 Year	2 Year	3 Year	5 Year	Actual to Budget Factor 2022	2021	2020	2019	2018
Other Department O&M											
Division of Technology											
Salaries & Wages	100	80.22%	81.33%	80.83%	80.22%	81.40%	81.33%	80.29%	78.96%	81.24%	85.95%
Services	200	73.81%	72.04%	72.98%	73.81%	73.37%	72.04%	73.96%	75.56%	72.86%	72.50%
Materials and Supplies	300	70.57%	77.81%	69.75%	70.57%	70.11%	77.81%	63.51%	71.96%	64.90%	75.00%
Equipment	400	0.00%									
Indemnities	500	0.00%									
Transfers	800	0.00%									
Subtotal Division of Technology			74.98%	75.01%	75.42%	75.29%	74.98%	75.04%	76.27%	74.20%	76.10%
Mayor's Office of Transportation & Utilities											
Salaries & Wages	100	77.98%	38.26%	67.54%	77.98%	86.60%	38.26%	100.00%	100.00%	100.00%	100.00%
Services	200	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Materials and Supplies	300	0.00%									
Equipment	400	0.00%									
Indemnities	500	0.00%									
Transfers	800	0.00%									
Subtotal Mayor's Office of Transportation & Utilities			48.95%	72.50%	81.18%	88.47%	48.95%	100.00%	100.00%	100.00%	100.00%
Philadelphia Water, Sewer and Stormwater Rate Board											
Salaries & Wages	100	97.18%	97.66%	96.98%	97.18%	64.39%	97.66%	96.28%	97.61%	92.24%	18.67%
Services	200	40.33%	44.09%	23.93%	40.33%	41.75%	44.09%	4.04%	73.14%	26.52%	54.44%
Materials and Supplies	300	0.00%			0.00%	0.00%			0.00%	0.00%	
Equipment	400	0.00%									
Indemnities	500	0.00%									
Transfers	800	0.00%									
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board			47.21%	28.09%	43.06%	42.90%	47.21%	9.18%	72.18%	30.00%	50.02%
Public Property											
Salaries & Wages	100	0.00%									
Services	200	99.96%	99.89%	99.94%	99.96%	99.98%	99.89%	100.00%	100.00%	100.00%	100.00%
Materials and Supplies	300	0.00%									
Equipment	400	0.00%									
Indemnities	500	0.00%									
Transfers	800	0.00%									
Subtotal Public Property			99.89%	99.94%	99.96%	99.98%	99.89%	100.00%	100.00%	100.00%	100.00%
Fleet Management											
Salaries & Wages	100	82.98%	77.90%	77.43%	82.98%	87.33%	77.90%	76.93%	95.37%	94.35%	94.44%
Services	200	74.83%	70.96%	69.60%	74.83%	78.72%	70.96%	68.25%	85.29%	99.48%	69.63%
Materials and Supplies	300	82.37%	98.02%	86.98%	82.37%	80.09%	98.02%	75.94%	73.63%	72.08%	81.54%
Equipment	400	0.00%									
Indemnities	500	0.00%									
Transfers	800	0.00%									
Subtotal Fleet Management			85.75%	80.44%	81.34%	82.49%	85.75%	75.03%	83.17%	84.46%	84.00%

Other Department O&M Actual to Budget Factors — **Assumptions - 30A**

			Historical Averages				Actual to Budget Factor				
		Use	1 Year	2 Year	3 Year	5 Year	2022	2021	2020	2019	2018
City Finance											
Salaries & Wages	100	0.00%									
Benefits	1xx	100.00%	96.31%	95.13%	92.61%	93.67%	96.31%	93.88%	87.73%	88.35%	103.42%
Pension	191	100.00%	105.28%	106.93%	106.75%	106.67%	105.28%	108.16%	106.41%	99.70%	114.67%
Pension Obligations	190	100.00%	103.85%	108.98%	109.37%	108.12%	103.85%	120.24%	109.69%	100.14%	114.55%
Services	200	0.00%									
Materials and Supplies	300	0.00%									
Equipment	400	0.00%									
Indemnities	500	68.42%	78.25%	56.04%	54.74%	55.47%	78.25%	33.83%	52.13%	39.01%	73.87%
Transfers	800	0.00%									
Subtotal City Finance			99.43%	99.07%	98.04%	98.37%	99.43%	98.74%	96.15%	91.58%	107.27%
City Finance											
Salaries & Wages	100	0.00%									
Benefits	1xx	100.00%									0.00%
Pension	191	100.00%									0.00%
Pension Obligations	190	100.00%									0.00%
Services	200	0.00%									
Materials and Supplies	300	0.00%									
Equipment	400	0.00%									
Indemnities	500	0.00%									
Transfers	800	0.00%									
Subtotal City Finance											
Revenue											
Salaries & Wages	100	88.60%	84.45%	86.44%	88.60%	91.82%	84.45%	88.38%	92.91%	94.53%	99.76%
Services	200	59.20%	15.83%	40.79%	59.20%	73.69%	15.83%	65.75%	96.02%	96.05%	95.76%
Materials and Supplies	300	54.78%	65.55%	63.64%	54.78%	61.74%	65.55%	61.73%	37.01%	81.48%	62.91%
Equipment	400	0.00%									
Indemnities	500	0.00%			0.00%	0.00%			0.00%	0.00%	0.00%
Transfers	800	0.00%									
Subtotal Revenue			62.45%	71.09%	77.13%	83.86%	62.45%	79.59%	89.23%	93.85%	95.24%
Procurement											
Salaries & Wages	100	87.00%	99.29%	95.55%	87.00%	90.10%	99.29%	91.64%	68.65%	96.87%	94.57%
Services	200	0.00%									
Materials and Supplies	300	0.00%									
Equipment	400	0.00%									
Indemnities	500	0.00%									
Transfers	800	0.00%									
Subtotal Procurement			99.29%	95.55%	87.00%	90.10%	99.29%	91.64%	68.65%	96.87%	94.57%

Other Department O&M Actual to Budget Factors — **Assumptions - 30A**

		Use	Historical Averages				Actual to Budget Factor				
			1 Year	2 Year	3 Year	5 Year	2022	2021	2020	2019	2018
Law											
Salaries & Wages	100	98.14%	95.29%	97.34%	98.14%	97.92%	95.29%	100.00%	100.00%	100.00%	95.04%
Services	200	99.99%	99.99%	99.99%	99.99%	93.62%	99.99%	99.99%	100.00%	99.97%	68.12%
Materials and Supplies	300	85.52%	99.86%	80.28%	85.52%	83.01%	99.86%	60.69%	96.01%	98.59%	59.88%
Equipment	400	0.00%									
Indemnities	500	0.00%									
Transfers	800	0.00%									
Subtotal Law			96.14%	97.64%	98.35%	96.87%	96.14%	99.49%	99.95%	99.98%	88.83%
Other Department O&M Expenses Summary											
Salaries & Wages	100		83.58%	84.50%	86.00%	88.33%	83.58%	85.45%	89.14%	90.77%	93.74%
Benefits	1xx		96.31%	95.13%	92.61%	91.86%	96.31%	93.88%	87.73%	88.35%	93.05%
Pension	191		105.28%	106.93%	106.75%	104.75%	105.28%	108.16%	106.41%	99.70%	103.58%
Pension Obligations	190		103.85%	108.98%	109.37%	105.73%	103.85%	120.24%	109.69%	100.14%	104.51%
Services	200		67.16%	70.94%	74.84%	76.93%	67.16%	74.83%	82.97%	81.02%	79.27%
Power	220										
Materials and Supplies	300		86.97%	78.11%	74.03%	73.83%	86.97%	69.80%	66.45%	71.06%	76.18%
Chemicals	307										
Equipment	400										
Indemnities	500		78.25%	56.04%	54.73%	55.45%	78.25%	33.83%	52.10%	38.99%	73.83%
Transfers	800										
Total Other Department O&M Expenses Summary			91.54%	91.99%	92.11%	91.74%	91.54%	92.42%	92.34%	89.04%	93.39%
Total Water Fund			89.94%	90.69%	90.96%	91.32%	89.94%	91.46%	91.49%	90.43%	93.49%

Other Department O&M Actual to Budget Factors — **Assumptions - 30B**

		Actual					Budget				
		2022	2021	2020	2019	2018	2022	2021	2020	2019	2018
Other Department O&M											
Division of Technology											
Salaries & Wages	100	$ 7,538,568	$ 7,019,427	$ 6,869,622	$ 6,502,251	$ 6,236,674	$ 9,268,937	$ 8,742,629	$ 8,700,632	$ 8,003,747	$ 7,256,281
Services	200	15,557,123	15,310,229	15,123,111	15,249,284	13,806,992	21,594,698	20,700,879	20,015,542	20,930,724	19,043,874
Materials and Supplies	300	1,233,200	1,301,139	1,535,616	1,967,863	2,025,326	1,584,850	2,048,850	2,133,850	3,032,350	2,700,550
Equipment	400	-	-	-	-	-	-	-	-	-	-
Indemnities	500	-	-	-	-	-	-	-	-	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Division of Technology		$ 24,328,891	$ 23,630,795	$ 23,528,349	$ 23,719,398	$ 22,068,992	$ 32,448,485	$ 31,492,358	$ 30,850,024	$ 31,966,821	$ 29,000,705
Mayor's Office of Transportation & Utilities											
Salaries & Wages	100	$ 85,874	$ 202,423	$ 202,433	$ 202,424	$ 202,424	$ 224,424	$ 202,424	$ 202,424	$ 202,424	$ 202,424
Services	200	47,000	30,000	30,000	30,000	30,000	47,000	30,000	30,000	30,000	30,000
Materials and Supplies	300	-	-	-	-	-	-	-	-	-	-
Equipment	400	-	-	-	-	-	-	-	-	-	-
Indemnities	500	-	-	-	-	-	-	-	-	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Mayor's Office of Transportation & Utilitie		$ 132,874	$ 232,423	$ 232,433	$ 232,424	$ 232,424	$ 271,424	$ 232,424	$ 232,424	$ 232,424	$ 232,424
Philadelphia Water, Sewer and Stormwater Rate Boa											
Salaries & Wages	100	$ 44,899	$ 42,901	$ 41,760	$ 36,897	$ 22,404	$ 45,973	$ 44,558	$ 42,782	$ 40,000	$ 120,000
Services	200	328,591	30,499	548,683	132,615	462,749	745,200	755,200	750,200	500,000	850,000
Materials and Supplies	300	-	-	-	-	-	-	-	25,000	25,000	-
Equipment	400	-	-	-	-	-	-	-	-	-	-
Indemnities	500	-	-	-	-	-	-	-	-	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Philadelphia Water, Sewer and Stormwate		$ 373,490	$ 73,400	$ 590,443	$ 169,512	$ 485,153	$ 791,173	$ 799,758	$ 817,982	$ 565,000	$ 970,000
Public Property											
Salaries & Wages	100	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Services	200	4,490,292	4,368,565	4,270,347	4,265,847	4,256,817	4,495,292	4,368,565	4,270,347	4,265,847	4,256,817
Materials and Supplies	300	-	-	-	-	-	-	-	-	-	-
Equipment	400	-	-	-	-	-	-	-	-	-	-
Indemnities	500	-	-	-	-	-	-	-	-	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Public Property		$ 4,490,292	$ 4,368,565	$ 4,270,347	$ 4,265,847	$ 4,256,817	$ 4,495,292	$ 4,368,565	$ 4,270,347	$ 4,265,847	$ 4,256,817
Fleet Management											
Salaries & Wages	100	$ 2,741,454	$ 2,589,222	$ 2,940,437	$ 2,909,020	$ 2,891,880	$ 3,519,283	$ 3,365,544	$ 3,083,114	$ 3,083,114	$ 3,062,196
Services	200	1,056,539	1,016,231	1,269,896	1,481,230	1,036,762	1,489,000	1,489,000	1,489,000	1,489,000	1,489,000
Materials and Supplies	300	3,964,735	3,071,606	3,147,317	3,081,353	3,485,331	4,044,640	4,044,640	4,274,640	4,274,640	4,274,640
Equipment	400	-	-	-	-	-	-	-	-	-	-
Indemnities	500	-	-	-	-	-	-	-	-	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Fleet Management		$ 7,762,728	$ 6,677,059	$ 7,357,650	$ 7,471,603	$ 7,413,973	$ 9,052,923	$ 8,899,184	$ 8,846,754	$ 8,846,754	$ 8,825,836

Other Department O&M Actual to Budget Factors — **Assumptions - 30B**

		Actual					Budget				
		2022	2021	2020	2019	2018	2022	2021	2020	2019	2018
City Finance											
Salaries & Wages	100	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Benefits	1xx	63,161,240	58,250,740	57,760,775	54,912,153	56,886,859	65,582,257	62,047,800	65,839,194	62,155,000	55,005,283
Pension	191	58,970,176	81,201,619	71,612,808	64,686,954	62,666,813	56,012,110	75,076,794	67,300,000	64,881,002	54,652,000
Pension Obligations	190	8,541,319	4,514,537	15,686,125	14,170,375	14,290,585	8,225,032	3,754,608	14,300,000	14,150,000	12,475,000
Services	200	-	-	-	-	-	-	-	-	-	-
Materials and Supplies	300	-	-	-	-	-	-	-	-	-	-
Equipment	400	-	-	-	-	-	-	-	-	-	-
Indemnities	500	5,868,696	2,537,590	3,909,860	3,316,246	6,279,219	7,500,000	7,500,000	7,500,000	8,500,000	8,500,000
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal City Finance		$ 136,541,431	$ 146,504,486	$ 148,969,568	$ 137,085,728	$ 140,123,476	$ 137,319,399	$ 148,379,202	$ 154,939,194	$ 149,686,002	$ 130,632,283
City Finance											
Salaries & Wages	100	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Benefits	1xx	-	-	-	-	-	-	-	-	-	6,131,000
Pension	191	-	-	-	-	-	-	-	-	-	5,846,000
Pension Obligations	190	-	-	-	-	-	-	-	-	-	1,199,000
Services	200	-	-	-	-	-	-	-	-	-	-
Materials and Supplies	300	-	-	-	-	-	-	-	-	-	-
Equipment	400	-	-	-	-	-	-	-	-	-	-
Indemnities	500	-	-	-	-	-	-	-	-	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal City Finance		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 13,176,000
Revenue											
Salaries & Wages	100	$ 9,070,937	$ 9,763,255	$ 10,102,618	$ 9,791,864	$ 9,735,827	$ 10,741,609	$ 11,047,032	$ 10,873,116	$ 10,358,907	$ 9,759,200
Services	200	817,369	3,395,971	4,959,294	4,858,989	4,834,053	5,165,000	5,165,000	5,165,000	5,059,000	5,048,100
Materials and Supplies	300	940,371	885,451	529,102	1,164,755	898,556	1,434,500	1,434,500	1,429,500	1,429,500	1,428,400
Equipment	400	-	-	-	-	-	-	-	-	-	-
Indemnities	500	-	-	-	-	-	-	-	5,000	5,000	5,000
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Revenue		$ 10,828,677	$ 14,044,677	$ 15,591,014	$ 15,815,608	$ 15,468,436	$ 17,341,109	$ 17,646,532	$ 17,472,616	$ 16,852,407	$ 16,240,700
Procurement											
Salaries & Wages	100	$ 114,475	$ 101,275	$ 72,282	$ 90,176	$ 84,412	$ 115,290	$ 110,515	$ 105,285	$ 93,093	$ 89,261
Services	200	-	-	-	-	-	-	-	-	-	-
Materials and Supplies	300	-	-	-	-	-	-	-	-	-	-
Equipment	400	-	-	-	-	-	-	-	-	-	-
Indemnities	500	-	-	-	-	-	-	-	-	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Procurement		$ 114,475	$ 101,275	$ 72,282	$ 90,176	$ 84,412	$ 115,290	$ 110,515	$ 105,285	$ 93,093	$ 89,261

Other Department O&M Actual to Budget Factors — **Assumptions - 30B**

		Actual					Budget				
		2022	2021	2020	2019	2018	2022	2021	2020	2019	2018
Law											
Salaries & Wages	100	$ 3,189,335	$ 2,570,334	$ 2,569,445	$ 2,569,445	$ 2,381,984	$ 3,346,838	$ 2,570,334	$ 2,569,445	$ 2,569,445	$ 2,506,206
Services	200	691,536	691,565	691,589	691,440	471,162	691,614	691,614	691,614	691,614	691,614
Materials and Supplies	300	42,950	26,104	41,295	42,404	25,753	43,010	43,010	43,010	43,010	43,010
Equipment	400	-	-	-	-	-	-	-	-	-	-
Indemnities	500	-	-	-	-	-	-	-	-	-	-
Transfers	800	-	-	-	-	-	-	-	-	-	-
Subtotal Law		$ 3,923,821	$ 3,288,003	$ 3,302,329	$ 3,303,289	$ 2,878,899	$ 4,081,462	$ 3,304,958	$ 3,304,069	$ 3,304,069	$ 3,240,830
Other Department O&M Expenses Summary											
Salaries & Wages	100	$ 22,785,542	$ 22,288,837	$ 22,798,597	$ 22,102,077	$ 21,555,605	$ 27,262,354	$ 26,083,036	$ 25,576,798	$ 24,350,730	$ 22,995,568
Benefits	1xx	63,161,240	58,250,740	57,760,775	54,912,153	56,886,859	65,582,257	62,047,800	65,839,194	62,155,000	61,136,283
Pension	191	58,970,176	81,201,619	71,612,808	64,686,954	62,666,813	56,012,110	75,076,794	67,300,000	64,881,002	60,498,000
Pension Obligations	190	8,541,319	4,514,537	15,686,125	14,170,375	14,290,585	8,225,032	3,754,608	14,300,000	14,150,000	13,674,000
Services	200	22,988,450	24,843,060	26,892,920	26,709,405	24,898,535	34,227,804	33,200,258	32,411,703	32,966,185	31,409,405
Power	220	-	-	-	-	-	-	-	-	-	-
Materials and Supplies	300	6,181,256	5,284,300	5,253,330	6,256,375	6,434,966	7,107,000	7,571,000	7,906,000	8,804,500	8,446,600
Chemicals	307	-	-	-	-	-	-	-	-	-	-
Equipment	400	-	-	-	-	-	-	-	-	-	-
Indemnities	500	5,868,696	2,537,590	3,909,860	3,316,246	6,279,219	7,500,000	7,500,000	7,505,000	8,505,000	8,505,000
Transfers	800	-	-	-	-	-	-	-	-	-	-
Total Other Department O&M Expenses Summary		**$ 188,496,679**	**$ 198,920,683**	**$ 203,914,415**	**$ 192,153,585**	**$ 193,012,582**	**$ 205,916,557**	**$ 215,233,496**	**$ 220,838,695**	**$ 215,812,417**	**$ 206,664,856**
		$ 188,496,679	$ 198,920,683	$ 203,914,415	$ 192,153,585	$ 193,012,582	$ 205,916,557	$ 215,233,496	$ 220,838,695	$ 215,812,417	$ 206,664,856
Total Water Fund		**$ 548,033,630**	**$ 545,370,077**	**$ 542,027,687**	**$ 521,548,393**	**$ 505,908,230**	**$ 609,313,421**	**$ 596,300,086**	**$ 592,441,170**	**$ 576,725,039**	**$ 541,141,465**

Other Department O&M - Water and Sewer Allocation **Assumptions - 31**

		2023 Budget Detail	Actual/Budget Factor	2023 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Other Department O&M								
Division of Technology								
Class 100 - UBIS		1,815,217	80.22%	1,456,105	17.05%	33.30%	33.40%	33.30%
Class 100 - All Other		8,829,152	80.22%	7,082,446	82.95%	61.00%	39.00%	0.00%
Class 100 - Total	100	10,644,369	80.22%	8,538,551	100.00%	56.28%	38.05%	5.68%
Class 200 - UBIS		8,316,220	73.81%	6,138,019	36.08%	27.40%	36.30%	36.30%
Class 200 - All Other		14,733,177	73.81%	10,874,233	63.92%	61.00%	39.00%	0.00%
Class 200 - Total	200	23,049,397	73.81%	17,012,252	100.00%	48.88%	38.03%	13.10%
Class 300 - UBIS		260,000	70.57%	183,473	16.87%	33.30%	33.40%	33.30%
Class 300 - All Other		1,281,613	70.57%	904,389	83.13%	61.00%	39.00%	0.00%
Class 300 - Total	300	1,541,613	70.57%	1,087,862	100.00%	56.33%	38.06%	5.62%
Class 400 - UBIS		0	0.00%	-	0.00%	33.30%	33.40%	33.30%
Class 400 - All Other		0	0.00%	-	0.00%	61.00%	39.00%	0.00%
Class 400 - Total	400	0	0.00%	-	0.00%	100.00%	0.00%	0.00%
Class 500 - UBIS		0	0.00%	-	0.00%	33.30%	33.40%	33.30%
Class 500 - All Other		0	0.00%	-	0.00%	61.00%	39.00%	0.00%
Class 500 - Total	500	0	0.00%	-	0.00%	100.00%	0.00%	0.00%
Class 800 - UBIS		0	0.00%	-	0.00%	33.30%	33.40%	33.30%
Class 800 - All Other		0	0.00%	-	0.00%	61.00%	39.00%	0.00%
Class 800 - Total	800	0	0.00%	-	0.00%	100.00%	0.00%	0.00%
Subtotal Division of Technology		35,235,379		26,638,665				

Other Department O&M - Water and Sewer Allocation **Assumptions - 31**

	2023 Budget Detail	Actual/Budget Factor	2023 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Mayor's Office of Transportation & Utilities							
100					36.00%	64.00%	0.00%
200					36.00%	64.00%	0.00%
300					36.00%	64.00%	0.00%
400					36.00%	64.00%	0.00%
500					36.00%	64.00%	0.00%
800					36.00%	64.00%	0.00%
Subtotal Mayor's Office of Transportation & Utilities							
Philadelphia Water, Sewer and Stormwater Rate Board							
100					36.00%	64.00%	0.00%
200					36.00%	64.00%	0.00%
300					36.00%	64.00%	0.00%
400					36.00%	64.00%	0.00%
500					36.00%	64.00%	0.00%
800					36.00%	64.00%	0.00%
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board							
Public Property							
100					36.00%	64.00%	0.00%
200					36.00%	64.00%	0.00%
300					36.00%	64.00%	0.00%
400					36.00%	64.00%	0.00%
500					36.00%	64.00%	0.00%
800					36.00%	64.00%	0.00%
Subtotal Public Property							
Fleet Management							
100					36.00%	64.00%	0.00%
200					36.00%	64.00%	0.00%
300					36.00%	64.00%	0.00%
400					36.00%	64.00%	0.00%
500					36.00%	64.00%	0.00%
800					36.00%	64.00%	0.00%
Subtotal Fleet Management							

Other Department O&M - Water and Sewer Allocation **Assumptions - 31**

	2023 Budget Detail	Actual/Budget Factor	2023 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
City Finance							
100					36.00%	64.00%	0.00%
1xx					NA	NA	NA
191					NA	NA	NA
190					NA	NA	NA
200					36.00%	64.00%	0.00%
300					36.00%	64.00%	0.00%
400					36.00%	64.00%	0.00%
500					37.00%	63.00%	0.00%
800					36.00%	64.00%	0.00%
Subtotal City Finance							
City Finance (270)							
100					46.00%	54.00%	0.00%
1xx (270)					46.00%	54.00%	0.00%
191 (270)					46.00%	54.00%	0.00%
190 (270)					46.00%	54.00%	0.00%
200					46.00%	54.00%	0.00%
300					46.00%	54.00%	0.00%
400					46.00%	54.00%	0.00%
500					46.00%	54.00%	0.00%
800					46.00%	54.00%	0.00%
Subtotal City Finance (270)							
Revenue							
100					33.40%	33.30%	33.30%
200					33.40%	33.30%	33.30%
300					33.40%	33.30%	33.30%
400					33.40%	33.30%	33.30%
500					33.40%	33.30%	33.30%
800					33.40%	33.30%	33.30%
Subtotal Revenue							

Other Department O&M - Water and Sewer Allocation **Assumptions - 31**

	2023 Budget Detail	Actual/Budget Factor	2023 Estimated Actual	Distribution	Allocation Water	Allocation Wastewater	Allocation Stormwater
Procurement							
100					36.00%	64.00%	0.00%
200					36.00%	64.00%	0.00%
300					36.00%	64.00%	0.00%
400					36.00%	64.00%	0.00%
500					36.00%	64.00%	0.00%
800					36.00%	64.00%	0.00%
Subtotal Procurement							
Law							
100					37.00%	63.00%	0.00%
200					37.00%	63.00%	0.00%
300					37.00%	63.00%	0.00%
400					37.00%	63.00%	0.00%
500					37.00%	63.00%	0.00%
800					37.00%	63.00%	0.00%
Subtotal Law							

WTP Sludge Costs Growth

Assumptions - 32

	Use	Averages Growth 1 Year	3 Year	5 Year
WTP Sludge Costs	7.76%	9.30%	7.76%	8.65%

	2023	2024	2025	2026	2027	2028	2029
Projected WTP Sludge Costs	$ 14,570,012	$ 16,592,337	$ 18,043,183	$ 20,080,960	$ 21,490,504	$ 22,989,007	$ 25,125,836
Annual Growth		13.88%	8.74%	11.29%	7.02%	6.97%	9.30%

NOTE: ONLY REQUIRED FOR PROJECTIONS BEYOND FY 2036. PROJECTIONS THRU FY 2036 REFLECT ALLOCATIONS FROM SCOS.

Liquidated Encumbrance Ratio **Assumptions - 33**

	Use	Historical Averages 1 Year	3 Year	5 Year		Liquidated Encumbrance Ratio 2022	2021	2020	2019	2018
Actual		19.35%	16.11%	17.05%		19.35%	13.45%	15.30%	17.46%	19.72%
Budget	46,298,149	18.85%	19.24%	17.59%		18.85%	18.90%	20.01%	15.31%	14.28%

Ratio: Liquidated Encumbrances to Total Class 200 & 300 O&M

	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Liquidated Encumbrance Ratio	16.11%	16.11%	16.11%	16.11%	16.11%	16.11%	16.11%	16.11%	16.11%	16.11%
Projected Liquidated Encumbrance	33,685,788	40,020,029	43,685,874	46,298,149	49,111,716	52,145,234	54,107,971	56,127,746	58,230,741	60,420,583

Liquidated Encumbrance Ratio **Assumptions - 33**

	Class 200 (Excluding SMIP/GARP) & 300 O&M					Liquidated Encumbrances				
	2022	2021	2020	2019	2018	2022	2021	2020	2019	2018
Actual	$ 190,210,420	$ 178,430,856	$ 175,516,342	$ 175,948,753	$ 164,327,794	$ 36,805,325	$ 23,992,624	$ 26,861,077	$ 30,716,786	$ 32,413,214
Budget	212,239,723	211,678,750	199,943,616	195,949,500	175,121,137	$ 40,000,000	$ 40,000,000	$ 40,000,000	$ 30,000,000	$ 25,000,000

Liquidated Encumbrance Water/Sewer Allocation

Assumptions - 34

Not in Use

Rate Stabilization Fund Balance Allocation b/w W & WW

Assumptions - 35

		2023
Rate Stabilization Fund Beginning Balance (Combined)		138,989,109
Water	40%	
Wastewater	60%	

Revenue/Operating Fund Balance Allocation b/w W & WW

Assumptions - 36

	2023	Allocation Water	Wastewater
Revenue Beginning Balance (Combined)	171,414,783	40.0%	60.0%
Residual Fund Beginning Balance (Combined)	16,102,406	40.0%	60.0%

Consturction Fund Balance and CIP Inflation — Assumptions - 37

	2023	Allocation
Construction Fund Beginning Balance (Combined)	523,680,167	
Construction Fund Beginning Balance (Water)	169,139,635	32.3%
Construction Fund Beginning Balance (Wastewater)	354,540,531	67.7%

Allocation of CIP Budget (From Capital Projects Sheet)

	2023	2024	2025	2026	2027	2028	2029
Construction Fund Beginning Balance (Water)	36.9%	49.9%	57.6%	32.5%	53.0%	58.6%	41.3%
Construction Fund Beginning Balance (Wastewater)	63.1%	50.1%	42.4%	67.5%	47.0%	41.4%	58.7%

CIP Inflation	
Low	0.0%
Medium	4.0%
High	4.0%

Base Year: **2024**

Allocation of CIP Budget (From Capital Projects Sheet - Scenario 2 Excluding Pennvest & WIFIA)

	2023	2024	2025	2026	2027	2028	2029
Medium	32.3%	44.6%	43.8%	32.1%	37.3%	53.0%	41.3%
High	67.7%	55.4%	56.2%	67.9%	62.7%	47.0%	58.7%

Transfer to General Fund Adjustment							Assumptions - 38
Description	Water	2023	2024	2025	2026	2027	2028
Additional Transfer							
xxxxxx	0%	-	-	-	-	-	-
xxxxxx	0%	-	-	-	-	-	-
xxxxxx	0%	-	-	-	-	-	-
Total		-	-	-	-	-	-
Water Allocation							
xxxxxx		-	-	-	-	-	-
xxxxxx		-	-	-	-	-	-
xxxxxx		-	-	-	-	-	-
Total		-	-	-	-	-	-
Wastewater Allocation							
xxxxxx		-	-	-	-	-	-
xxxxxx		-	-	-	-	-	-
xxxxxx		-	-	-	-	-	-
Total		-	-	-	-	-	-

NOTE: CURRENTLY NOT IN USE

Stormwater IA GA Projections **Assumptions - 39**

Factor 1000

Average IA Per Parcel	Residential	Use	Non Residential	Use	Condominium	Use
Non-Discount	(Sq Ft)	(1,000 Sq Ft)	(Sq Ft)	(1,000 Sq Ft)	(Sq Ft)	(1,000 Sq Ft)
Water & Sewer	1,190	1.190	16,297.20	16.297	11,323.81	11.324
SW Only	1,190	1.190	2,725.79	2.726	18,030.76	18.031
Discount: Elderly, Education & Charities						
Water & Sewer	1,190	1.190	52,080.03	52.080	23,059.93	23.060
SW Only	1,190	1.190	18,412.89	18.413	-	0.000
Discount PHA						
Water & Sewer	1,190	1.190	29,680.97	29.681	6,158.00	6.158
SW Only	1,190	1.190	999.63	1.000	-	0.000
xxxxxxxx						
Water & Sewer		0.000		0.000		0.000
SW Only		0.000		0.000		0.000

Average GA Per Parcel	Residential	Use	Non Residential	Use	Condominium	Use
Non-Discount	(Sq Ft)	(1,000 Sq Ft)	(Sq Ft)	(1,000 Sq Ft)	(Sq Ft)	(1,000 Sq Ft)
Water & Sewer	2,100	2.100	29,017.04	29.017	16,147.69	16.148
SW Only	2,100	2.100	9,175.36	9.175	27,125.86	27.126
Discount: Elderly, Education & Charities						
Water & Sewer	2,100	2.100	96,679.20	96.679	44,730.29	44.730
SW Only	2,100	2.100	37,581.48	37.581	-	0.000
Discount PHA						
Water & Sewer	2,100	2.100	54,963.69	54.964	9,358.00	9.358
SW Only	2,100	2.100	2,736.52	2.737	-	0.000
xxxxxxxxx						
Water & Sewer		0.000		0.000		0.000
SW Only		0.000		0.000		0.000

2 year average (FY 2016 and FY 2017) area calculated for projections

Note - Elderly Discounts refers to Senior Citizen Discount

Stormwater Deductions Projections						Assumptions - 40
Factor	1,000					
	Credit Projections -Source UOS Book & Credit Projections Book					
Total credits	2023	2024	2025	2026	2027	2028
Parcels	1,435	1,503	1,551	1,599	1,647	1,695
Impervious Area	120,710,590	124,669,510	128,240,750	131,250,940	134,187,950	137,490,860
		3,958,920	**3,571,240**	**3,010,190**	**2,937,010**	**3,302,910**
Gross Area	289,730,350	295,890,320	301,662,590	306,873,810	312,011,850	317,515,800
		6,159,970	**5,772,270**	**5,211,220**	**5,138,040**	**5,503,950**
	IA and GA For Use (1,000 Sq Ft)					
Total credits	2023	2024	2025	2026	2027	2028
Parcels	1,435	1,503	1,551	1,599	1,647	1,695
Impervious Area	120,711	124,670	128,241	131,251	134,188	137,491
Gross Area	289,730	295,890	301,663	306,874	312,012	317,516

NOT IN USE

NOT IN USE

NOT IN USE

Choose Credit Allocation	**0**

Stormwater Deductions Projections — Assumptions - 40

Factor 1,000

	Use-Percent Allocation for projection of Credits			Existing (0)-Percent Allocation for projection of Credits			Alternative (1)-Percent Allocation for projection of Credits		
	Parcels	Impervious Area	Gross Area	Parcels	Impervious Area	Gross Area	Parcels	Impervious Area	Gross Area
Residential									
Non-Discount									
Water & Sewer	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Discount: Elderly, Education & Charities									
Water & Sewer	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Discount PHA									
Water & Sewer	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
xxxxxxxx (NOT IN USE)									
Water & Sewer	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Non Residential									
Non-Discount									
Water & Sewer	56.8%	75.7%	65.0%	56.78%	75.70%	65.00%	0.0%	0.0%	0.0%
SW Only	24.1%	13.4%	23.9%	24.05%	13.36%	23.92%	0.0%	0.0%	0.0%
Discount: Elderly, Education & Charities									
Water & Sewer	14.0%	6.4%	8.3%	13.97%	6.43%	8.33%	0.0%	0.0%	0.0%
SW Only	1.7%	0.1%	0.2%	1.65%	0.12%	0.18%	0.0%	0.0%	0.0%
Discount PHA									
Water & Sewer	0.1%	0.0%	0.0%	0.08%	0.00%	0.00%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
xxxxxxxx (NOT IN USE)									
Water & Sewer	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Condominiums									
Non-Discount									
Water & Sewer	3.1%	4.2%	2.4%	3.14%	4.19%	2.37%	0.0%	0.0%	0.0%
SW Only	0.2%	0.0%	0.0%	0.17%	0.01%	0.02%	0.0%	0.0%	0.0%
Discount: Elderly, Education & Charities									
Water & Sewer	0.2%	0.2%	0.2%	0.17%	0.19%	0.18%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
Discount PHA									
Water & Sewer	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
xxxxxxxx (NOT IN USE)									
Water & Sewer	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%

Appeals	Use	Average		
Annual Impervious Area Loss Per Parcel	3.040	3,040	5-Year Average	INPUT FROM SW UOS WORKBOOK
Annual Gross Area Loss Per Parcel (sf)	2.612	2,612	5-Year Average	INPUT FROM SW UOS WORKBOOK

Projection	2023	2024	2025	2026	2027	2028
# of Appeals	158	273	345	374	374	374

INPUT PROJECTED OF APPEALS FROM SW UOS WORKBOOK

Note - Elderly Discounts refers to Senior Citizen Discount

Stormwater Deductions Projections **Assumptions - 40**

Factor 1,000

Exemptions

Choose Exemption Allocation **0**

COMMUNITY GARDENS HISTORICAL DISTRIBUTION OF PARCELS, IMPERVIOUS AREA AND GROSS AREA

	Use-Percent Allocation for projection of Exemptions			Existing (0)-Percent Allocation for projection of Exemptions			Alternative (1)-Percent Allocation for projection of Exemptions		
	Parcels	**Impervious Area**	**Gross Area**	**Parcels**	**Impervious Area**	**Gross Area**	**Parcels**	**Impervious Area**	**Gross Area**
Residential									
Non-Discount									
Water & Sewer	0.0%	3.0%	0.5%	0.00%	2.97%	0.50%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
Discount: Elderly, Education & Charities									
Water & Sewer	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Discount PHA									
Water & Sewer	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
xxxxxxxx (NOT IN USE)									
Water & Sewer	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Non Residential									
Non-Discount									
Water & Sewer	3.6%	6.0%	12.8%	3.57%	6.01%	12.81%	0.0%	0.0%	0.0%
SW Only	55.4%	52.6%	31.6%	55.36%	52.61%	31.65%	0.0%	0.0%	0.0%
Discount: Elderly, Education & Charities									
Water & Sewer	8.0%	9.5%	45.8%	8.04%	9.52%	45.79%	0.0%	0.0%	0.0%
SW Only	28.1%	20.9%	7.2%	28.13%	20.87%	7.24%	0.0%	0.0%	0.0%
Discount PHA									
Water & Sewer	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
SW Only	4.9%	8.0%	2.0%	4.91%	8.02%	2.02%	0.0%	0.0%	0.0%
xxxxxxxx (NOT IN USE)									
Water & Sewer	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Condominiums									
Non-Discount									
Water & Sewer	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
Discount: Elderly, Education & Charities									
Water & Sewer	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
Discount PHA									
Water & Sewer	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
xxxxxxxx (NOT IN USE)									
Water & Sewer	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%
SW Only	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%	0.0%	0.0%	0.0%

Note - Elderly Discounts refers to Senior Citizen Discount

Stormwater Deductions Projections						Assumptions - 40
Factor	1,000					
Factor	1,000					
	Community Gardens Projections -Source UOS Book					
Total Community Gardens	2023	2024	2025	2026	2027	2028
Parcels Growth Per Year	8	8	8	8	8	8
Impervious Area Per Parcel	431	431	431	431	431	431
Gross Area Per Parcel	9,216	9,216	9,216	9,216	9,216	9,216
	IA and GA For Use (1,000 Sq Ft)					
Total Community Gardens	2023	2024	2025	2026	2027	2028
Parcels	8	8	8	8	8	8
Impervious Area	3.445	3.445	3.445	3.445	3.445	3.445
Gross Area	73.726	73.726	73.726	73.726	73.726	73.726

SMIP/GARP ALLOCATION		
Allocation of SMIP/GARP	Sanitary	Stormwater
	40.00%	60.00%

Constants **Assumptions - 41**

BILLING FREQUENCY

Senior Citizens	
5/8" Meter	12.00
> 5/8" Meter	12.00
General Service (Residential)	
5/8" Meter	12.00
> 5/8" Meter	12.00
General Service (Commercial)	
5/8" Meter	12.00
> 5/8" Meter	12.00
General Service (Industrial)	
5/8" Meter	12.00
> 5/8" Meter	12.00
General Service (Public Utilities)	
5/8" Meter	12.00
> 5/8" Meter	12.00
General Service (Excluding Senior Citizens)	
5/8" Meter	
> 5/8" Meter	
General Service (Including Senior Citizens)	
5/8" Meter	
> 5/8" Meter	
PHA	12.00
Charities & Schools	12.00
Hospital/University	12.00
Hand Billed	12.00
Scheduled	12.00
xxxxxxxxxx	12.00
xxxxxxxxxx	12.00
Fire Service	12.00
Public Fire (Hydrants)	12.00
Sewer Only	12.00
Groundwater	12.00

Available Historical O&M Cost Data **Assumptions - 42**

2022
2021
2020
2019
2018

List of years provided for Drop Down Lists

Debt Service Assumptions						Assumptions - 43
Proposed Debt Service						
Revenue Bonds	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**
Term (yrs)	30	30	30	30	30	30
Interest Rate	4.00%	5.50%	5.50%	6.00%	6.00%	6.00%
Issuance Costs	0.58%	0.61%	0.61%	0.61%	1.00%	1.00%
Month of Sale (July=1)	1	1	1	1	1	1
Capitalized Interest term (yrs)	0	0	0	0	0	0
Interest Only Period (years)	0	0	0	0	0	0
Initial Payment Adjustment (months)	4	4	4	4	4	4
Fund Debt Service Reserve	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE

FINPLAN23_24.XLS

CUSTOMER

Index	Description	Table
Customer	**Customer Worksheet**	
Customer - 1	Water - Accounts	Schedule BV-2: Table 1-1, Table 3-2, and Appendix A
Customer - 1A	Water Customer Account Growth	Schedule BV-2: Appendix A
Customer - 2	Water Only	
Customer - 2B	Water Only Billed Volume Growth	
Customer - 3	Water - Billed Volume (Mcf)	Schedule BV-2: Table 3-3
Customer - 4	Water - Billed Volume Per Account (Mcf/Account)	Schedule BV-2: Table 1-2, Table 1-3, and Appendix A
Customer - 4A	Water - Billed Volume Per Account Growth	Schedule BV-2: Table 1-3 and Appendix A
Customer - 5	Water - Existing Rates	Schedule BV-2: Table 3-4
Customer - 6	Water - Calculated Billings (prior to adjustment factor)	Schedule BV-2: Table 3-6
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Customer - 8	Water - General Service Collections	Schedule BV-2: Table 3-7
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Customer - 23	Number of Parcels-Appeals (Cumulative Annual Projection)	
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Customer - 25	Number of Billable Parcels-After Community Gardens	Schedule BV-2: Table 6-3, Appendix H Table 6
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Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water - Accounts												**Customer - 1**
Senior Citizens												
5/8" Meter	Account - SC 5/8	22,994	23,460	22,738	22,215	22,052	21,602	21,161	20,729	20,306	20,306	20,306
> 5/8" Meter	Account - SC > 5/8	7	9	8	8	11	12	13	14	15	15	15
Total Senior Citizens		23,001	23,469	22,746	22,223	22,063	21,614	21,174	20,743	20,321	20,321	20,321
General Service (Residential)												
5/8" Meter	Account - Res 5/8	418,816	413,482	411,877	420,516	422,630	425,724	428,841	431,981	435,144	435,144	435,144
> 5/8" Meter	Account - Res > 5/8	7,688	8,885	9,851	10,962	12,542	14,069	15,782	17,704	19,860	19,860	19,860
Total General Service (Residential)		426,504	422,367	421,728	431,478	435,172	439,793	444,623	449,685	455,004	455,004	455,004
General Service (Commercial)												
5/8" Meter	Account - Com 5/8	28,246	28,142	27,807	28,074	28,028	27,990	27,952	27,914	27,876	27,876	27,876
> 5/8" Meter	Account - Com > 5/8	8,293	8,605	8,732	9,177	9,729	10,135	10,558	10,999	11,458	11,458	11,458
Total General Service (Commercial)		36,539	36,747	36,539	37,251	37,757	38,125	38,510	38,913	39,334	39,334	39,334
General Service (Industrial)												
5/8" Meter	Account - Ind 5/8	523	514	506	509	501	497	493	489	485	485	485
> 5/8" Meter	Account - Ind > 5/8	550	550	548	543	556	558	560	562	564	564	564
Total General Service (Industrial)		1,073	1,064	1,054	1,052	1,057	1,055	1,053	1,051	1,049	1,049	1,049
General Service (Public Utilities)												
5/8" Meter	Account - Pub Util 5/8	66	74	72	75	79	81	83	85	87	87	87
> 5/8" Meter	Account - Pub Util > 5/8	99	99	101	106	119	127	135	144	144	144	144
Total General Service (Public Utilities)		165	173	173	181	198	208	218	229	231	231	231
General Service (Excluding Senior Citizens)												
5/8" Meter		447,651	442,212	440,262	449,174	451,238	454,292	457,369	460,469	463,592	463,592	463,592
> 5/8" Meter		16,630	18,139	19,232	20,788	22,946	24,889	27,035	29,409	32,026	32,026	32,026
Total General Service (excluding SC)		464,281	460,351	459,494	469,962	474,184	479,181	484,404	489,878	495,618	495,618	495,618
General Service (Including Senior Citizens)												
5/8" Meter		470,645	465,672	463,000	471,389	473,290	475,894	478,530	481,198	483,898	483,898	483,898
> 5/8" Meter		16,637	18,148	19,240	20,796	22,957	24,901	27,048	29,423	32,041	32,041	32,041
Total General Service (including SC)		487,282	483,820	482,240	492,185	496,247	500,795	505,578	510,621	515,939	515,939	515,939
PHA	Account - PHA	5,911	5,877	5,715	5,718	5,666	5,597	5,529	5,462	5,396	5,396	5,396
Charity and Schools	Account - Charities/Schools	2,233	2,163	1,945	1,858	1,834	1,736	1,643	1,555	1,472	1,472	1,472
Hospital/University	Account - Hospital/Universities	350	406	292	140	138	96	67	47	33	33	33
Hand Billed	Account - Hand Billed	241	241	233	230	232	229	226	223	220	220	220
Scheduled	Account - Scheduled	4	3	3	5	6	8	10	13	16	16	16
xxxxxxxxxx	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Fire Service	Account - Fire Service	4,562	5,538	5,606	5,860	6,837	7,334	7,868	8,441	9,055	9,055	9,055
Fire Hydrants	Account - No Growth	25,419	25,480	25,202	25,161	25,142	25,142	25,142	25,142	25,142	25,142	25,142
Total		526,002	523,528	521,236	531,157	536,102	540,937	546,063	551,504	557,273	557,273	557,273
Fire Service (Unmetered)	Account - Fire Service Unmetered	7,810	9,173	9,965	10,453	11,389	12,241	13,156	14,140	15,198	15,198	15,198

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Water Customer Account Growth												**Customer - 1A**
Annual Growth												
Senior Citizens												
5/8" Meter		2.81%	2.03%	-3.08%	-2.30%	-0.73%	-2.04%	-2.04%	-2.04%	-2.04%	0.00%	0.00%
> 5/8" Meter		0.00%	28.57%	-11.11%	0.00%	37.50%	9.09%	8.33%	7.69%	7.14%	0.00%	0.00%
Total Senior Citizens		2.81%	2.03%	-3.08%	-2.30%	-0.72%	-2.04%	-2.04%	-2.04%	-2.03%	0.00%	0.00%
General Service (Residential)												
5/8" Meter		1.68%	-1.27%	-0.39%	2.10%	0.50%	0.73%	0.73%	0.73%	0.73%	0.00%	0.00%
> 5/8" Meter		15.26%	15.57%	10.87%	11.28%	14.41%	12.18%	12.18%	12.18%	12.18%	0.00%	0.00%
Total General Service (Residential)		1.90%	-0.97%	-0.15%	2.31%	0.86%	1.06%	1.10%	1.14%	1.18%	0.00%	0.00%
General Service (Commercial)												
5/8" Meter		0.40%	-0.37%	-1.19%	0.96%	-0.16%	-0.14%	-0.14%	-0.14%	-0.14%	0.00%	0.00%
> 5/8" Meter		5.79%	3.76%	1.48%	5.10%	6.02%	4.17%	4.17%	4.18%	4.17%	0.00%	0.00%
Total General Service (Commercial)		1.58%	0.57%	-0.57%	1.95%	1.36%	0.97%	1.01%	1.05%	1.08%	0.00%	0.00%
General Service (Industrial)												
5/8" Meter		-0.76%	-1.72%	-1.56%	0.59%	-1.57%	-0.80%	-0.80%	-0.81%	-0.82%	0.00%	0.00%
> 5/8" Meter		1.10%	0.00%	-0.36%	-0.91%	2.39%	0.36%	0.36%	0.36%	0.36%	0.00%	0.00%
Total General Service (Industrial)		0.19%	-0.84%	-0.94%	-0.19%	0.48%	-0.19%	-0.19%	-0.19%	-0.19%	0.00%	0.00%
General Service (Public Utilities)												
5/8" Meter		13.79%	12.12%	-2.70%	4.17%	5.33%	2.53%	2.47%	2.41%	2.35%	0.00%	0.00%
> 5/8" Meter		2.06%	0.00%	2.02%	4.95%	12.26%	6.72%	6.30%	6.67%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		6.45%	4.85%	0.00%	4.62%	9.39%	5.05%	4.81%	5.05%	0.87%	0.00%	0.00%
General Service (Excluding Senior Citizens)												
5/8" Meter		1.60%	-1.22%	-0.44%	2.02%	0.46%	0.68%	0.68%	0.68%	0.68%	0.00%	0.00%
> 5/8" Meter		9.77%	9.07%	6.03%	8.09%	10.38%	8.47%	8.62%	8.78%	8.90%	0.00%	0.00%
Total General Service (excluding SC)		1.87%	-0.85%	-0.19%	2.28%	0.90%	1.05%	1.09%	1.13%	1.17%	0.00%	0.00%
General Service (Including Senior Citizens)												
5/8" Meter		1.66%	-1.06%	-0.57%	1.81%	0.40%	0.55%	0.55%	0.56%	0.56%	0.00%	0.00%
> 5/8" Meter		9.76%	9.08%	6.02%	8.09%	10.39%	8.47%	8.62%	8.78%	8.90%	0.00%	0.00%
Total General Service (including SC)		1.91%	-0.71%	-0.33%	2.06%	0.83%	0.92%	0.96%	1.00%	1.04%	0.00%	0.00%
PHA		-0.39%	-0.58%	-2.76%	0.05%	-0.91%	-1.22%	-1.21%	-1.21%	-1.21%	0.00%	0.00%
Charity and Schools		-8.33%	-3.13%	-10.08%	-4.47%	-1.29%	-5.34%	-5.36%	-5.36%	-5.34%	0.00%	0.00%
Hospital/University		-31.51%	16.00%	-28.08%	-52.05%	-1.43%	-30.43%	-30.21%	-29.85%	-29.79%	0.00%	0.00%
Hand Billed		-5.49%	0.00%	-3.32%	-1.29%	0.87%	-1.29%	-1.31%	-1.33%	-1.35%	0.00%	0.00%
Scheduled		0.00%	-25.00%	0.00%	66.67%	20.00%	33.33%	25.00%	30.00%	23.08%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		0.46%	21.39%	1.23%	4.53%	16.67%	7.27%	7.28%	7.28%	7.27%	0.00%	0.00%
Fire Hydrants		0.00%	0.24%	-1.09%	-0.16%	-0.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total		1.69%	-0.47%	-0.44%	1.90%	0.93%	0.90%	0.95%	1.00%	1.05%	0.00%	0.00%
Fire Service (Unmetered)		4.81%	17.45%	8.64%	4.89%	8.96%	7.48%	7.48%	7.48%	7.48%	0.00%	0.00%

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water Customer Account Growth												**Customer - 1A**
2-Year Average Growth												
Senior Citizens												
5/8" Meter		3.70%	2.42%	-0.56%	-2.69%	-1.52%	-1.39%	-2.04%	-2.04%	-2.04%	-1.03%	0.00%
> 5/8" Meter		18.32%	13.39%	6.90%	-5.72%	17.26%	22.47%	8.71%	8.01%	7.42%	3.51%	0.00%
Total Senior Citizens		3.70%	2.42%	-0.56%	-2.69%	-1.51%	-1.38%	-2.04%	-2.04%	-2.03%	-1.02%	0.00%
General Service (Residential)												
5/8" Meter		0.97%	0.19%	-0.83%	0.85%	1.30%	0.62%	0.73%	0.73%	0.73%	0.37%	0.00%
> 5/8" Meter		17.97%	15.42%	13.20%	11.07%	12.83%	13.29%	12.18%	12.18%	12.18%	5.91%	0.00%
Total General Service (Residential)		1.21%	0.45%	-0.56%	1.07%	1.58%	0.96%	1.08%	1.12%	1.16%	0.59%	0.00%
General Service (Commercial)												
5/8" Meter		0.17%	0.02%	-0.78%	-0.12%	0.40%	-0.15%	-0.14%	-0.14%	-0.14%	-0.07%	0.00%
> 5/8" Meter		5.32%	4.77%	2.61%	3.27%	5.55%	5.09%	4.17%	4.18%	4.18%	2.07%	0.00%
Total General Service (Commercial)		1.27%	1.07%	0.00%	0.68%	1.65%	1.17%	0.99%	1.03%	1.06%	0.54%	0.00%
General Service (Industrial)												
5/8" Meter		-0.47%	-1.24%	-1.64%	-0.49%	-0.50%	-1.19%	-0.80%	-0.81%	-0.81%	-0.41%	0.00%
> 5/8" Meter		0.37%	0.55%	-0.18%	-0.64%	0.73%	1.37%	0.36%	0.36%	0.36%	0.18%	0.00%
Total General Service (Industrial)		-0.05%	-0.33%	-0.89%	-0.57%	0.14%	0.14%	-0.19%	-0.19%	-0.19%	-0.10%	0.00%
General Service (Public Utilities)												
5/8" Meter		17.26%	12.95%	4.45%	0.67%	4.75%	3.92%	2.50%	2.44%	2.38%	1.17%	0.00%
> 5/8" Meter		4.88%	1.03%	1.01%	3.47%	8.55%	9.46%	6.51%	6.48%	3.28%	0.00%	0.00%
Total General Service (Public Utilities)		9.35%	5.65%	2.40%	2.29%	6.98%	7.20%	4.93%	4.93%	2.94%	0.44%	0.00%
General Service (Excluding Senior Citizens)												
5/8" Meter		0.91%	0.18%	-0.83%	0.78%	1.24%	0.57%	0.68%	0.68%	0.68%	0.34%	0.00%
> 5/8" Meter		10.43%	9.42%	7.54%	7.05%	9.23%	9.42%	8.54%	8.70%	8.84%	4.35%	0.00%
Total General Service (excluding SC)		1.21%	0.50%	-0.52%	1.04%	1.59%	0.98%	1.07%	1.11%	1.15%	0.58%	0.00%
General Service (Including Senior Citizens)												
5/8" Meter		1.05%	0.29%	-0.82%	0.61%	1.11%	0.48%	0.55%	0.56%	0.56%	0.28%	0.00%
> 5/8" Meter		10.44%	9.42%	7.54%	7.05%	9.23%	9.43%	8.55%	8.70%	8.84%	4.35%	0.00%
Total General Service (including SC)		1.33%	0.59%	-0.52%	0.86%	1.44%	0.87%	0.94%	0.98%	1.02%	0.52%	0.00%
PHA		1.56%	-0.48%	-1.67%	-1.36%	-0.43%	-1.06%	-1.22%	-1.21%	-1.21%	-0.61%	0.00%
Charity and Schools		-5.92%	-5.77%	-6.67%	-7.32%	-2.90%	-3.34%	-5.35%	-5.36%	-5.35%	-2.71%	0.00%
Hospital/University		-15.74%	-10.86%	-8.66%	-41.28%	-31.25%	-17.19%	-30.32%	-30.03%	-29.82%	-16.21%	0.00%
Hand Billed		-4.46%	-2.78%	-1.67%	-2.31%	-0.21%	-0.22%	-1.30%	-1.32%	-1.34%	-0.67%	0.00%
Scheduled		15.47%	-13.40%	-13.40%	29.10%	41.42%	26.49%	29.10%	27.48%	26.49%	10.94%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		9.61%	10.43%	10.85%	2.87%	10.43%	11.87%	7.28%	7.28%	7.28%	3.57%	0.00%
Fire Hydrants		0.11%	0.12%	-0.43%	-0.63%	-0.12%	-0.04%	0.00%	0.00%	0.00%	0.00%	0.00%
Total		1.28%	0.61%	-0.45%	0.73%	1.42%	0.92%	0.92%	0.97%	1.02%	0.52%	0.00%
Fire Service (Unmetered)		4.72%	10.95%	12.96%	6.75%	6.90%	8.22%	7.48%	7.48%	7.48%	3.67%	0.00%

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Water Customer Account Growth												**Customer - 1A**
3-Year Average Growth												
Senior Citizens												
5/8" Meter		4.43%	3.14%	0.55%	-1.14%	-2.04%	-1.69%	-1.61%	-2.04%	-2.04%	-1.37%	-0.68%
> 5/8" Meter		20.51%	21.64%	4.55%	4.55%	6.92%	14.47%	17.57%	8.37%	7.72%	4.89%	2.33%
Total Senior Citizens		4.44%	3.14%	0.55%	-1.14%	-2.04%	-1.69%	-1.60%	-2.04%	-2.04%	-1.36%	-0.68%
General Service (Residential)												
5/8" Meter		1.21%	0.21%	0.00%	0.14%	0.73%	1.11%	0.66%	0.73%	0.73%	0.49%	0.24%
> 5/8" Meter		16.78%	17.17%	13.88%	12.55%	12.18%	12.61%	12.92%	12.18%	12.18%	7.96%	3.90%
Total General Service (Residential)		1.42%	0.48%	0.25%	0.39%	1.00%	1.41%	1.01%	1.10%	1.14%	0.77%	0.39%
General Service (Commercial)												
5/8" Meter		0.15%	-0.01%	-0.39%	-0.20%	-0.14%	0.22%	-0.15%	-0.14%	-0.14%	-0.09%	-0.05%
> 5/8" Meter		3.99%	4.80%	3.66%	3.43%	4.18%	5.09%	4.78%	4.17%	4.17%	2.76%	1.37%
Total General Service (Commercial)		0.97%	1.04%	0.52%	0.65%	0.91%	1.43%	1.11%	1.01%	1.05%	0.71%	0.36%
General Service (Industrial)												
5/8" Meter		-0.44%	-0.89%	-1.35%	-0.90%	-0.85%	-0.60%	-1.06%	-0.80%	-0.81%	-0.54%	-0.27%
> 5/8" Meter		0.00%	0.24%	0.24%	-0.43%	0.36%	0.60%	1.03%	0.36%	0.36%	0.24%	0.12%
Total General Service (Industrial)		-0.22%	-0.31%	-0.53%	-0.66%	-0.22%	0.03%	0.03%	-0.19%	-0.19%	-0.13%	-0.06%
General Service (Public Utilities)												
5/8" Meter		14.47%	15.52%	7.47%	4.35%	2.20%	4.00%	3.44%	2.47%	2.41%	1.58%	0.78%
> 5/8" Meter		6.05%	3.23%	1.36%	2.30%	6.33%	7.93%	8.40%	6.56%	4.28%	2.17%	0.00%
Total General Service (Public Utilities)		9.12%	7.83%	3.73%	3.13%	4.60%	6.33%	6.40%	4.97%	3.56%	1.95%	0.29%
General Service (Excluding Senior Citizens)												
5/8" Meter		1.14%	0.20%	-0.03%	0.11%	0.68%	1.05%	0.60%	0.68%	0.68%	0.45%	0.23%
> 5/8" Meter		9.02%	9.98%	8.28%	7.72%	8.15%	8.98%	9.15%	8.62%	8.77%	5.81%	2.88%
Total General Service (excluding SC)		1.38%	0.52%	0.27%	0.41%	0.99%	1.41%	1.01%	1.09%	1.13%	0.77%	0.39%
General Service (Including Senior Citizens)												
5/8" Meter		1.29%	0.34%	0.00%	0.05%	0.54%	0.92%	0.50%	0.55%	0.56%	0.37%	0.19%
> 5/8" Meter		9.02%	9.98%	8.28%	7.72%	8.15%	8.98%	9.16%	8.62%	8.77%	5.81%	2.88%
Total General Service (including SC)		1.52%	0.64%	0.29%	0.33%	0.85%	1.27%	0.90%	0.96%	1.00%	0.68%	0.35%
PHA		0.08%	0.84%	-1.25%	-1.10%	-1.21%	-0.69%	-1.11%	-1.21%	-1.21%	-0.81%	-0.40%
Charity and Schools		-5.03%	-5.00%	-7.23%	-5.94%	-5.35%	-3.72%	-4.02%	-5.35%	-5.35%	-3.60%	-1.81%
Hospital/University		-11.33%	-6.27%	-17.02%	-26.32%	-30.21%	-30.98%	-21.78%	-30.17%	-29.95%	-21.03%	-11.12%
Hand Billed		-3.72%	-2.99%	-2.96%	-1.55%	-1.26%	-0.58%	-0.58%	-1.31%	-1.33%	-0.89%	-0.45%
Scheduled		25.99%	0.00%	-9.14%	7.72%	25.99%	38.67%	25.99%	29.40%	25.99%	16.96%	7.17%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		3.59%	13.41%	7.28%	8.70%	7.28%	9.37%	10.32%	7.28%	7.28%	4.80%	2.37%
Fire Hydrants		0.07%	0.15%	-0.29%	-0.34%	-0.44%	-0.08%	-0.03%	0.00%	0.00%	0.00%	0.00%
Total		1.40%	0.69%	0.26%	0.33%	0.79%	1.24%	0.93%	0.95%	1.00%	0.68%	0.35%
Fire Service (Unmetered)		6.32%	8.80%	10.17%	10.20%	7.48%	7.10%	7.97%	7.48%	7.48%	4.93%	2.43%

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water Customer Account Growth												**Customer - 1A**
5-Year Average Growth												
Senior Citizens												
5/8" Meter		3.64%	3.75%	2.41%	0.77%	-0.28%	-1.24%	-2.04%	-1.83%	-1.78%	-1.64%	-1.23%
> 5/8" Meter		6.96%	12.47%	14.87%	9.86%	9.46%	11.38%	7.63%	11.84%	13.40%	6.40%	4.56%
Total Senior Citizens		3.64%	3.75%	2.41%	0.77%	-0.28%	-1.24%	-2.04%	-1.83%	-1.77%	-1.63%	-1.23%
General Service (Residential)												
5/8" Meter		0.39%	0.14%	0.39%	0.47%	0.52%	0.33%	0.73%	0.96%	0.69%	0.59%	0.44%
> 5/8" Meter		16.47%	15.82%	15.33%	14.69%	13.46%	12.85%	12.18%	12.44%	12.62%	9.63%	7.14%
Total General Service (Residential)		0.58%	0.36%	0.62%	0.72%	0.78%	0.62%	1.03%	1.29%	1.07%	0.90%	0.68%
General Service (Commercial)												
5/8" Meter		0.44%	-0.04%	-0.22%	-0.05%	-0.07%	-0.18%	-0.14%	0.08%	-0.14%	-0.11%	-0.08%
> 5/8" Meter		4.40%	3.86%	3.44%	4.19%	4.41%	4.09%	4.18%	4.72%	4.54%	3.33%	2.48%
Total General Service (Commercial)		1.26%	0.79%	0.58%	0.90%	0.97%	0.85%	0.94%	1.27%	1.09%	0.82%	0.63%
General Service (Industrial)												
5/8" Meter		-0.53%	-0.87%	-0.92%	-0.73%	-1.01%	-1.01%	-0.83%	-0.68%	-0.96%	-0.65%	-0.49%
> 5/8" Meter		1.56%	-0.04%	-0.07%	-0.11%	0.44%	0.29%	0.36%	0.51%	0.76%	0.29%	0.21%
Total General Service (Industrial)		0.51%	-0.45%	-0.49%	-0.41%	-0.26%	-0.34%	-0.21%	-0.06%	-0.06%	-0.15%	-0.11%
General Service (Public Utilities)												
5/8" Meter		14.19%	14.87%	10.35%	9.34%	6.38%	4.18%	2.32%	3.38%	3.01%	1.95%	1.44%
> 5/8" Meter		5.99%	3.84%	4.00%	3.33%	4.17%	5.11%	6.40%	7.35%	6.32%	3.89%	2.54%
Total General Service (Public Utilities)		8.85%	7.77%	6.38%	5.57%	5.02%	4.74%	4.73%	5.77%	5.00%	3.13%	2.12%
General Service (Excluding Senior Citizens)												
5/8" Meter		0.39%	0.13%	0.35%	0.43%	0.48%	0.29%	0.68%	0.90%	0.63%	0.54%	0.41%
> 5/8" Meter		8.90%	8.58%	8.43%	8.80%	8.66%	8.40%	8.31%	8.87%	9.03%	6.90%	5.17%
Total General Service (excluding SC)		0.64%	0.40%	0.62%	0.73%	0.80%	0.63%	1.02%	1.29%	1.07%	0.89%	0.68%
General Service (Including Senior Citizens)												
5/8" Meter		0.54%	0.30%	0.44%	0.45%	0.44%	0.22%	0.55%	0.77%	0.53%	0.44%	0.33%
> 5/8" Meter		8.90%	8.58%	8.43%	8.80%	8.66%	8.40%	8.31%	8.87%	9.03%	6.90%	5.17%
Total General Service (including SC)		0.77%	0.54%	0.70%	0.73%	0.75%	0.55%	0.88%	1.15%	0.95%	0.78%	0.60%
PHA		-0.37%	-0.35%	-0.62%	-0.05%	-0.92%	-1.09%	-1.21%	-0.90%	-1.15%	-0.97%	-0.73%
Charity and Schools		-3.73%	-4.56%	-5.69%	-5.94%	-5.52%	-4.91%	-5.35%	-4.38%	-4.55%	-4.30%	-3.25%
Hospital/University		-3.07%	-1.00%	-10.27%	-22.26%	-23.04%	-22.80%	-30.26%	-30.60%	-25.10%	-24.88%	-19.23%
Hand Billed		-1.81%	-2.39%	-2.90%	-2.72%	-1.87%	-1.02%	-1.28%	-0.87%	-0.89%	-1.06%	-0.80%
Scheduled		14.87%	8.45%	8.45%	10.76%	8.45%	14.87%	27.23%	34.08%	26.19%	21.67%	14.87%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		6.65%	9.54%	6.44%	9.07%	8.53%	9.96%	7.28%	8.53%	9.09%	5.78%	4.31%
Fire Hydrants		0.08%	0.09%	-0.13%	-0.16%	-0.22%	-0.22%	-0.27%	-0.05%	-0.02%	0.00%	0.00%
Total		0.74%	0.56%	0.66%	0.71%	0.72%	0.56%	0.85%	1.14%	0.96%	0.78%	0.60%
Fire Service (Unmetered)		7.54%	9.27%	8.93%	7.98%	8.85%	9.40%	7.48%	7.25%	7.77%	5.94%	4.42%

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water Only												**Customer - 2**
Accounts												
Senior Citizens												
5/8" Meter	Account - No Growth	20	20	20	20	20	20	20	20	20	20	20
> 5/8" Meter	Account - No Growth	2	2	-	-	-	-	-	-	-	-	-
Total Senior Citizens		22	22	20	20	20	20	20	20	20	20	20
General Service (Residential)												
5/8" Meter	Account - No Growth	1,260	1,259	1,232	1,234	1,235	1,235	1,235	1,235	1,235	1,235	1,235
> 5/8" Meter	Account - No Growth	929	1,074	1,011	1,034	1,139	1,139	1,139	1,139	1,139	1,139	1,139
Total General Service (Residential)		2,189	2,333	2,243	2,268	2,374	2,374	2,374	2,374	2,374	2,374	2,374
General Service (Commercial)												
5/8" Meter	Account - No Growth	108	111	105	106	108	108	108	108	108	108	108
> 5/8" Meter	Account - No Growth	731	832	793	804	901	901	901	901	901	901	901
Total General Service (Commercial)		839	943	898	910	1,009	1,009	1,009	1,009	1,009	1,009	1,009
General Service (Industrial)												
5/8" Meter	Account - No Growth	3	3	3	3	3	3	3	3	3	3	3
> 5/8" Meter	Account - No Growth	39	41	40	39	43	43	43	43	43	43	43
Total General Service (Industrial)		42	44	43	42	46	46	46	46	46	46	46
General Service (Public Utilities)												
5/8" Meter	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
> 5/8" Meter	Account - No Growth	3	3	3	3	5	5	5	5	5	5	5
Total General Service (Public Utilities)		3	3	3	3	5	5	5	5	5	5	5
General Service (Excluding Senior Citizens)												
5/8" Meter		1,371	1,373	1,340	1,343	1,346	1,346	1,346	1,346	1,346	1,346	1,346
> 5/8" Meter		1,702	1,950	1,847	1,880	2,088	2,088	2,088	2,088	2,088	2,088	2,088
Total General Service (excluding SC)		3,073	3,323	3,187	3,223	3,434	3,434	3,434	3,434	3,434	3,434	3,434
General Service (Including Senior Citizens)												
5/8" Meter		1,391	1,393	1,360	1,363	1,366	1,366	1,366	1,366	1,366	1,366	1,366
> 5/8" Meter		1,704	1,952	1,847	1,880	2,088	2,088	2,088	2,088	2,088	2,088	2,088
Total General Service (including SC)		3,095	3,345	3,207	3,243	3,454	3,454	3,454	3,454	3,454	3,454	3,454

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water Only												Customer - 2
PHA	Account - No Growth	130	140	2	1	1	1	1	1	1	1	1
Charities & Schools	Account - No Growth	106	112	38	39	41	41	41	41	41	41	41
Hospital/University	Account - No Growth	45	53	9	3	3	3	3	3	3	3	3
Hand Billed	Account - No Growth	22	24	25	25	27	27	27	27	27	27	27
Scheduled	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Fire Service	Account - Fire Service	4,457	5,426	5,487	5,734	6,837	7,334	7,868	8,441	9,055	9,055	9,055
Fire Hydrants	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Total		7,855	9,100	8,768	9,045	10,363	10,860	11,394	11,967	12,581	12,581	12,581
Billed Volume (Mcf)												
Senior Citizens												
5/8" Meter	Volume - No Growth	103	103	116	103	134	134	134	134	134	134	134
> 5/8" Meter	Volume - No Growth	2	-	-	-	-	-	-	-	-	-	-
Total Senior Citizens		105	103	116	103	134	134	134	134	134	134	134
General Service (Residential)												
5/8" Meter	Volume - No Growth	9,497	8,988	9,170	9,610	9,066	9,066	9,066	9,066	9,066	9,066	9,066
> 5/8" Meter	Volume - No Growth	2,908	2,516	2,741	2,834	2,468	2,468	2,468	2,468	2,468	2,468	2,468
Total General Service (Residential)		12,405	11,504	11,911	12,443	11,535	11,534	11,534	11,534	11,534	11,534	11,534
General Service (Commercial)												
5/8" Meter	Volume - No Growth	1,516	1,723	1,483	1,349	1,528	1,528	1,528	1,528	1,528	1,528	1,528
> 5/8" Meter	Volume - No Growth	29,911	58,441	38,502	19,889	13,319	13,319	13,319	13,319	13,319	13,319	13,319
Total General Service (Commercial)		31,427	60,164	39,986	21,238	14,847	14,847	14,847	14,847	14,847	14,847	14,847
General Service (Industrial)												
5/8" Meter	Volume - No Growth	21	21	35	31	35	35	35	35	35	35	35
> 5/8" Meter	Volume - No Growth	18,096	57,774	16,147	4,793	4,467	4,467	4,467	4,467	4,467	4,467	4,467
Total General Service (Industrial)		18,117	57,795	16,182	4,824	4,502	4,502	4,502	4,502	4,502	4,502	4,502
General Service (Public Utilities)												
5/8" Meter	Volume - No Growth	-	-	-	-	-	-	-	-	-	-	-
> 5/8" Meter	Volume - No Growth	1	1	1	7	15	15	15	15	15	15	15
Total General Service (Public Utilities)		1	1	1	7	15	15	15	15	15	15	15
General Service (Excluding Senior Citizens)												
5/8" Meter		11,034	10,732	10,689	10,989	10,629	10,629	10,629	10,629	10,629	10,629	10,629
> 5/8" Meter		50,917	118,733	57,391	27,524	20,270	20,269	20,269	20,269	20,269	20,269	20,269
Total General Service (excluding SC)		61,951	129,464	68,080	38,513	30,899	30,898	30,898	30,898	30,898	30,898	30,898

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water Only												**Customer - 2**
General Service (Including Senior Citizens)												
5/8" Meter		11,137	10,834	10,805	11,092	10,763	10,763	10,763	10,763	10,763	10,763	10,763
> 5/8" Meter		50,919	118,733	57,391	27,524	20,270	20,269	20,269	20,269	20,269	20,269	20,269
Total General Service (including SC)		62,056	129,567	68,196	38,616	31,033	31,032	31,032	31,032	31,032	31,032	31,032
PHA	Volume - No Growth	31	66	59	41	65	65	65	65	65	65	65
Charities & Schools	Volume - No Growth	761	977	897	809	692	692	692	692	692	692	692
Hospital/University	Volume - No Growth	24	35	34	23	69	69	69	69	69	69	69
Hand Billed	Volume - No Growth	75,159	9,767	62,675	97,896	97,212	97,212	97,212	97,212	97,212	97,212	97,212
Scheduled	Volume - No Growth	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx	Volume - No Growth	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx	Volume - No Growth	-	-	-	-	-	-	-	-	-	-	-
Fire Service	Volume - No Growth	8,346	100	100	34	100	100	100	100	100	100	100
Fire Hydrants	Volume - No Growth	-	-	-	-	-	-	-	-	-	-	-
Total		146,377	140,511	131,962	137,419	129,170	129,170	129,170	129,170	129,170	129,170	129,170

Water Only Customer Account Growth											Customer - 2A
Annual Growth											
Senior Citizens											
5/8" Meter	11.11%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter	-33.33%	0.00%	-100.00%	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total Senior Citizens	4.76%	0.00%	-9.09%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Residential)											
5/8" Meter	0.64%	-0.08%	-2.14%	0.16%	0.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter	-2.62%	15.61%	-5.87%	2.27%	10.15%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Residential)	-0.77%	6.58%	-3.86%	1.11%	4.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Commercial)											
5/8" Meter	0.93%	2.78%	-5.41%	0.95%	1.89%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter	2.24%	13.82%	-4.69%	1.39%	12.06%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Commercial)	2.07%	12.40%	-4.77%	1.34%	10.88%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Industrial)											
5/8" Meter	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter	0.00%	5.13%	-2.44%	-2.50%	10.26%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Industrial)	0.00%	4.76%	-2.27%	-2.33%	9.52%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Public Utilities)											
5/8" Meter	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
> 5/8" Meter	0.00%	0.00%	0.00%	0.00%	66.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)	0.00%	0.00%	0.00%	0.00%	66.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Excluding Senior Citizens)											
5/8" Meter	0.66%	0.15%	-2.40%	0.22%	0.22%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter	-0.53%	14.57%	-5.28%	1.79%	11.06%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (excluding SC)	0.00%	8.14%	-4.09%	1.13%	6.55%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Including Senior Citizens)											
5/8" Meter	0.80%	0.14%	-2.37%	0.22%	0.22%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter	-0.58%	14.55%	-5.38%	1.79%	11.06%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (including SC)	0.03%	8.08%	-4.13%	1.12%	6.51%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PHA	-5.80%	7.69%	-98.57%	-50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Charity and Schools	-5.36%	5.66%	-66.07%	2.63%	5.13%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Hospital/University	-43.75%	17.78%	-83.02%	-66.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Hand Billed	-4.35%	9.09%	4.17%	0.00%	8.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Scheduled	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service	0.13%	21.74%	1.12%	4.50%	19.24%	7.27%	7.28%	7.28%	7.27%	0.00%	0.00%
Fire Hydrants	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total	-0.54%	15.85%	-3.65%	3.16%	14.57%	4.80%	4.92%	5.03%	5.13%	0.00%	0.00%

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Water Only Customer Account Growth												**Customer - 2A**
2-Year Average Growth												
Senior Citizens												
5/8" Meter		2.60%	5.41%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		0.00%	-18.35%	-100.00%	-100.00%	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total Senior Citizens		2.35%	2.35%	-4.65%	-4.65%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Residential)												
5/8" Meter		-0.08%	0.28%	-1.12%	-1.00%	0.12%	0.04%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		7.56%	6.10%	4.32%	-1.88%	6.14%	4.95%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Residential)		2.96%	2.84%	1.23%	-1.40%	2.88%	2.31%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Commercial)												
5/8" Meter		1.42%	1.85%	-1.40%	-2.28%	1.42%	0.94%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		8.50%	7.87%	4.15%	-1.70%	6.59%	5.86%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Commercial)		7.50%	7.11%	3.46%	-1.77%	6.00%	5.30%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Industrial)												
5/8" Meter		-13.40%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		1.31%	2.53%	1.27%	-2.47%	3.68%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Industrial)		0.00%	2.35%	1.18%	-2.30%	3.43%	4.65%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Public Utilities)												
5/8" Meter		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
> 5/8" Meter		0.00%	0.00%	0.00%	0.00%	29.10%	29.10%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		0.00%	0.00%	0.00%	0.00%	29.10%	29.10%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Excluding Senior Citizens)												
5/8" Meter		0.00%	0.40%	-1.14%	-1.10%	0.22%	0.11%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		7.79%	6.76%	4.17%	-1.81%	6.32%	5.39%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		4.09%	3.99%	1.84%	-1.52%	3.80%	3.22%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Including Senior Citizens)												
5/8" Meter		0.04%	0.47%	-1.12%	-1.08%	0.22%	0.11%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		7.78%	6.72%	4.11%	-1.86%	6.32%	5.39%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (including SC)		4.08%	3.98%	1.79%	-1.54%	3.78%	3.20%	0.00%	0.00%	0.00%	0.00%	0.00%
PHA		7.74%	0.72%	-87.60%	-91.55%	-29.29%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Charity and Schools		3.47%	0.00%	-40.13%	-40.99%	3.87%	2.53%	0.00%	0.00%	0.00%	0.00%	0.00%
Hospital/University		-18.05%	-18.61%	-55.28%	-76.21%	-42.26%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Hand Billed		0.00%	2.15%	6.60%	2.06%	3.92%	3.92%	0.00%	0.00%	0.00%	0.00%	0.00%
Scheduled		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		9.46%	10.41%	10.95%	2.80%	11.63%	13.09%	7.28%	7.28%	7.28%	3.57%	0.00%
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		6.87%	7.34%	5.65%	-0.30%	8.72%	9.57%	4.86%	4.97%	5.08%	2.53%	0.00%

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water Only Customer Account Growth												**Customer - 2A**
3-Year Average Growth												
Senior Citizens												
5/8" Meter		5.57%	1.72%	3.57%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		25.99%	0.00%	#N/A	-100.00%	-100.00%	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total Senior Citizens		6.92%	1.56%	-1.61%	-3.13%	-3.13%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Residential)												
5/8" Meter		0.03%	-0.08%	-0.54%	-0.69%	-0.64%	0.08%	0.03%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		1.33%	10.18%	1.95%	3.63%	1.98%	4.05%	3.28%	0.00%	0.00%	0.00%	0.00%
Total General Service (Residential)		0.57%	4.15%	0.56%	1.19%	0.58%	1.91%	1.53%	0.00%	0.00%	0.00%	0.00%
General Service (Commercial)												
5/8" Meter		0.94%	1.87%	-0.63%	-0.62%	-0.91%	0.94%	0.63%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		2.34%	10.24%	3.51%	3.22%	2.69%	4.35%	3.87%	0.00%	0.00%	0.00%	0.00%
Total General Service (Commercial)		2.16%	9.11%	2.99%	2.74%	2.28%	3.96%	3.50%	0.00%	0.00%	0.00%	0.00%
General Service (Industrial)												
5/8" Meter		0.00%	-9.14%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		-0.84%	2.57%	0.85%	0.00%	1.60%	2.44%	3.31%	0.00%	0.00%	0.00%	0.00%
Total General Service (Industrial)		-0.78%	1.56%	0.79%	0.00%	1.49%	2.27%	3.08%	0.00%	0.00%	0.00%	0.00%
General Service (Public Utilities)												
5/8" Meter		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
> 5/8" Meter		0.00%	0.00%	0.00%	0.00%	18.56%	18.56%	18.56%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		0.00%	0.00%	0.00%	0.00%	18.56%	18.56%	18.56%	0.00%	0.00%	0.00%	0.00%
General Service (Excluding Senior Citizens)												
5/8" Meter		0.10%	0.05%	-0.54%	-0.69%	-0.66%	0.15%	0.07%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		1.70%	10.00%	2.58%	3.37%	2.31%	4.17%	3.56%	0.00%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		0.97%	5.42%	1.22%	1.60%	1.10%	2.52%	2.14%	0.00%	0.00%	0.00%	0.00%
General Service (Including Senior Citizens)												
5/8" Meter		0.17%	0.07%	-0.49%	-0.68%	-0.65%	0.15%	0.07%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		1.72%	9.99%	2.52%	3.33%	2.27%	4.17%	3.56%	0.00%	0.00%	0.00%	0.00%
Total General Service (including SC)		1.01%	5.40%	1.20%	1.57%	1.07%	2.50%	2.12%	0.00%	0.00%	0.00%	0.00%
PHA		-1.25%	7.72%	-75.62%	-80.26%	-80.74%	-20.63%	0.00%	0.00%	0.00%	0.00%	0.00%
Charity and Schools		-0.31%	4.20%	-30.25%	-28.34%	-28.46%	2.57%	1.68%	0.00%	0.00%	0.00%	0.00%
Hospital/University		-14.10%	-7.52%	-51.73%	-59.45%	-61.60%	-30.66%	0.00%	0.00%	0.00%	0.00%	0.00%
Hand Billed		-1.47%	2.94%	2.82%	4.35%	4.00%	2.60%	2.60%	0.00%	0.00%	0.00%	0.00%
Scheduled		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		3.41%	13.41%	7.22%	8.76%	8.01%	10.15%	11.12%	7.28%	7.28%	4.80%	2.37%
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		2.15%	9.79%	3.54%	4.81%	4.43%	7.39%	8.00%	4.91%	5.03%	3.36%	1.68%

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water Only Customer Account Growth												**Customer - 2A**
5-Year Average Growth												
Senior Citizens												
5/8" Meter		9.00%	3.30%	3.30%	1.03%	2.13%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		14.87%	14.87%	#N/A	#N/A	#N/A	-100.00%	-100.00%	#N/A	#N/A	#N/A	#N/A
Total Senior Citizens		9.46%	4.10%	2.13%	-0.97%	-0.97%	-1.89%	-1.89%	0.00%	0.00%	0.00%	0.00%
General Service (Residential)												
5/8" Meter		3.93%	-0.13%	-0.43%	-0.45%	-0.27%	-0.40%	-0.38%	0.05%	0.02%	0.00%	0.00%
> 5/8" Meter		5.44%	6.15%	2.51%	5.19%	3.61%	4.16%	1.18%	2.41%	1.95%	0.00%	0.00%
Total General Service (Residential)		4.55%	2.48%	0.83%	1.89%	1.48%	1.64%	0.35%	1.14%	0.92%	0.00%	0.00%
General Service (Commercial)												
5/8" Meter		3.26%	1.51%	0.00%	0.19%	0.19%	0.00%	-0.55%	0.57%	0.37%	0.00%	0.00%
> 5/8" Meter		5.74%	6.83%	3.06%	5.30%	4.73%	4.27%	1.61%	2.59%	2.30%	0.00%	0.00%
Total General Service (Commercial)		5.40%	6.11%	2.67%	4.62%	4.18%	3.76%	1.36%	2.36%	2.09%	0.00%	0.00%
General Service (Industrial)												
5/8" Meter		0.00%	0.00%	0.00%	-5.59%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		1.61%	1.53%	0.00%	0.52%	1.97%	1.97%	0.96%	1.46%	1.97%	0.00%	0.00%
Total General Service (Industrial)		1.49%	1.42%	0.00%	0.00%	1.84%	1.84%	0.89%	1.36%	1.84%	0.00%	0.00%
General Service (Public Utilities)												
5/8" Meter		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
> 5/8" Meter		0.00%	0.00%	0.00%	0.00%	10.76%	10.76%	10.76%	10.76%	10.76%	0.00%	0.00%
Total General Service (Public Utilities)		0.00%	0.00%	0.00%	0.00%	10.76%	10.76%	10.76%	10.76%	10.76%	0.00%	0.00%
General Service (Excluding Senior Citizens)												
5/8" Meter		3.87%	0.00%	-0.40%	-0.41%	-0.24%	-0.37%	-0.40%	0.09%	0.04%	0.00%	0.00%
> 5/8" Meter		5.46%	6.31%	2.68%	5.11%	4.06%	4.17%	1.38%	2.48%	2.12%	0.00%	0.00%
Total General Service (excluding SC)		4.73%	3.42%	1.32%	2.59%	2.25%	2.25%	0.66%	1.50%	1.28%	0.00%	0.00%
General Service (Including Senior Citizens)												
5/8" Meter		3.93%	0.04%	-0.35%	-0.39%	-0.20%	-0.36%	-0.39%	0.09%	0.04%	0.00%	0.00%
> 5/8" Meter		5.46%	6.32%	2.67%	5.09%	4.03%	4.15%	1.36%	2.48%	2.12%	0.00%	0.00%
Total General Service (including SC)		4.76%	3.42%	1.32%	2.57%	2.23%	2.22%	0.64%	1.50%	1.27%	0.00%	0.00%
PHA		0.00%	0.00%	0.00%	0.00%	0.00%	-62.22%	-62.78%	-12.94%	0.00%	0.00%	0.00%
Charity and Schools		-0.37%	-2.17%	-18.70%	-17.00%	-18.21%	-17.30%	-18.21%	1.53%	1.01%	0.00%	0.00%
Hospital/University		0.45%	0.38%	-33.84%	-46.27%	-48.14%	-41.82%	-43.69%	-19.73%	0.00%	0.00%	0.00%
Hand Billed		6.58%	5.92%	1.68%	2.59%	3.26%	4.18%	2.38%	1.55%	1.55%	0.00%	0.00%
Scheduled		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		6.71%	9.61%	6.37%	9.04%	8.96%	10.47%	7.72%	9.00%	9.57%	5.78%	4.31%
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		5.67%	6.71%	3.54%	5.63%	5.58%	6.69%	4.60%	6.42%	6.82%	3.96%	2.99%

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water Only Billed Volume Growth												**Customer - 2B**
Annual Growth												
Senior Citizens												
5/8" Meter		1.67%	-0.68%	13.45%	-11.25%	29.72%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		-72.13%	-100.00%	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total Senior Citizens		-2.51%	-2.29%	13.45%	-11.25%	29.72%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Residential)												
5/8" Meter		-8.76%	-5.36%	2.03%	4.79%	-5.65%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		-29.38%	-13.50%	8.95%	3.37%	-12.89%	-0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Residential)		-14.60%	-7.26%	3.54%	4.46%	-7.30%	-0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Commercial)												
5/8" Meter		-9.37%	13.63%	-13.90%	-9.05%	13.25%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		-29.21%	95.38%	-34.12%	-48.34%	-33.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Commercial)		-28.45%	91.44%	-33.54%	-46.88%	-30.09%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Industrial)												
5/8" Meter		-59.61%	0.00%	68.27%	-12.86%	14.10%	0.57%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		180.67%	219.26%	-72.05%	-70.31%	-6.80%	-0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Industrial)		178.76%	219.01%	-72.00%	-70.19%	-6.67%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Public Utilities)												
5/8" Meter		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
> 5/8" Meter		0.00%	0.00%	0.00%	516.67%	106.76%	-1.96%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		0.00%	0.00%	0.00%	516.67%	106.76%	-1.96%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Excluding Senior Citizens)												
5/8" Meter		-9.06%	-2.74%	-0.40%	2.81%	-3.28%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		-3.60%	133.19%	-51.66%	-52.04%	-26.35%	-0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		-4.62%	108.98%	-47.41%	-43.43%	-19.77%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Including Senior Citizens)												
5/8" Meter		-8.97%	-2.72%	-0.27%	2.66%	-2.97%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		-3.61%	133.18%	-51.66%	-52.04%	-26.35%	-0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (including SC)		-4.61%	108.79%	-47.37%	-43.38%	-19.64%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PHA		-34.48%	116.01%	-10.74%	-29.83%	57.25%	-0.15%	0.00%	0.00%	0.00%	0.00%	0.00%
Charity and Schools		-19.42%	28.37%	-8.10%	-9.85%	-14.50%	0.04%	0.00%	0.00%	0.00%	0.00%	0.00%
Hospital/University		-46.24%	43.21%	-2.87%	-33.14%	203.10%	0.73%	0.00%	0.00%	0.00%	0.00%	0.00%
Hand Billed		-25.03%	-87.01%	541.73%	56.20%	-0.70%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Scheduled		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		2.99%	-98.80%	-0.40%	-66.06%	194.38%	0.50%	0.00%	0.00%	0.00%	0.00%	0.00%
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		-16.09%	-4.01%	-6.08%	4.14%	-6.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water Only Billed Volume Growth												**Customer - 2B**
2-Year Average Growth												
Senior Citizens												
5/8" Meter		8.53%	0.49%	6.15%	0.34%	7.29%	13.89%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		-48.46%	#N/A	-100.00%	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total Senior Citizens		5.63%	-2.40%	5.29%	0.34%	7.29%	13.89%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Residential)												
5/8" Meter		-5.73%	-7.07%	-1.73%	3.40%	-0.57%	-2.87%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		-4.38%	-21.84%	-2.92%	6.12%	-5.10%	-6.67%	-0.01%	0.00%	0.00%	0.00%	0.00%
Total General Service (Residential)		-5.42%	-11.01%	-2.01%	4.00%	-1.59%	-3.72%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Commercial)												
5/8" Meter		-8.45%	1.48%	-1.08%	-11.51%	1.49%	6.42%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		-4.35%	17.61%	13.46%	-41.66%	-41.18%	-18.17%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Commercial)		-4.56%	17.04%	12.80%	-40.59%	-39.06%	-16.39%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Industrial)												
5/8" Meter		-30.45%	-36.45%	29.72%	21.09%	-0.29%	7.12%	0.29%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		67.62%	199.34%	-5.54%	-71.20%	-47.40%	-3.46%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (Industrial)		67.16%	198.21%	-5.49%	-71.11%	-47.25%	-3.39%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Public Utilities)												
5/8" Meter		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
> 5/8" Meter		-18.35%	0.00%	0.00%	148.33%	257.07%	42.37%	-0.99%	0.00%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		-18.35%	0.00%	0.00%	148.33%	257.07%	42.37%	-0.99%	0.00%	0.00%	0.00%	0.00%
General Service (Excluding Senior Citizens)												
5/8" Meter		-6.19%	-5.95%	-1.58%	1.19%	-0.28%	-1.65%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		9.69%	49.93%	6.17%	-51.85%	-40.57%	-14.18%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		6.27%	41.18%	4.83%	-45.46%	-32.63%	-10.43%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service (Including Senior Citizens)												
5/8" Meter		-6.08%	-5.89%	-1.50%	1.18%	-0.19%	-1.50%	0.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		9.68%	49.92%	6.17%	-51.85%	-40.57%	-14.18%	0.00%	0.00%	0.00%	0.00%	0.00%
Total General Service (including SC)		6.27%	41.12%	4.83%	-45.41%	-32.54%	-10.36%	0.00%	0.00%	0.00%	0.00%	0.00%
PHA		-17.54%	18.97%	38.86%	-20.86%	5.04%	25.30%	-0.08%	0.00%	0.00%	0.00%	0.00%
Charity and Schools		-12.25%	1.71%	8.61%	-8.98%	-12.21%	-7.51%	0.02%	0.00%	0.00%	0.00%	0.00%
Hospital/University		-20.03%	-12.26%	17.94%	-19.41%	42.36%	74.73%	0.36%	0.00%	0.00%	0.00%	0.00%
Hand Billed		-23.28%	-68.79%	-8.68%	216.60%	24.54%	-0.35%	0.00%	0.00%	0.00%	0.00%	0.00%
Scheduled		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		-1.42%	-88.89%	-89.08%	-41.86%	-0.05%	72.01%	0.25%	0.00%	0.00%	0.00%	0.00%
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		-12.75%	-10.25%	-5.05%	-1.11%	-1.06%	-3.05%	0.00%	0.00%	0.00%	0.00%	0.00%

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water Only Billed Volume Growth												**Customer - 2B**
3-Year Average Growth												
Senior Citizens												
5/8" Meter		13.10%	5.37%	4.64%	0.00%	9.31%	4.81%	9.06%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		#N/A	#N/A	#N/A	-100.00%	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total Senior Citizens		13.72%	2.92%	2.62%	-0.54%	9.31%	4.81%	9.06%	0.00%	0.00%	0.00%	0.00%
General Service (Residential)												
5/8" Meter		-4.04%	-5.60%	-4.13%	0.39%	0.29%	-0.38%	-1.92%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		-4.35%	-7.52%	-12.69%	-0.87%	-0.63%	-3.44%	-4.50%	0.00%	0.00%	0.00%	0.00%
Total General Service (Residential)		-4.11%	-6.04%	-6.40%	0.10%	0.09%	-1.07%	-2.50%	0.00%	0.00%	0.00%	0.00%
General Service (Commercial)												
5/8" Meter		-4.50%	-1.61%	-3.93%	-3.81%	-3.92%	0.99%	4.24%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		-4.28%	21.36%	-3.05%	-12.72%	-38.92%	-29.80%	-12.51%	0.00%	0.00%	0.00%	0.00%
Total General Service (Commercial)		-4.29%	20.36%	-3.08%	-12.25%	-37.28%	-28.12%	-11.25%	0.00%	0.00%	0.00%	0.00%
General Service (Industrial)												
5/8" Meter		-15.68%	-21.50%	-12.08%	13.61%	18.71%	0.00%	4.69%	0.19%	0.00%	0.00%	0.00%
> 5/8" Meter		45.35%	107.78%	35.80%	-35.78%	-57.40%	-34.84%	-2.32%	0.00%	0.00%	0.00%	0.00%
Total General Service (Industrial)		45.13%	107.34%	35.54%	-35.67%	-57.29%	-34.72%	-2.28%	0.00%	0.00%	0.00%	0.00%
General Service (Public Utilities)												
5/8" Meter		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
> 5/8" Meter		25.99%	-12.64%	0.00%	83.38%	133.62%	132.08%	26.56%	-0.66%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		25.99%	-12.64%	0.00%	83.38%	133.62%	132.08%	26.56%	-0.66%	0.00%	0.00%	0.00%
General Service (Excluding Senior Citizens)												
5/8" Meter		-4.13%	-5.05%	-4.14%	-0.13%	-0.32%	-0.19%	-1.10%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		5.53%	41.04%	2.81%	-18.54%	-44.53%	-29.31%	-9.70%	0.00%	0.00%	0.00%	0.00%
Total General Service (excluding SC)		3.52%	33.14%	1.58%	-14.65%	-37.97%	-23.15%	-7.08%	0.00%	0.00%	0.00%	0.00%
General Service (Including Senior Citizens)												
5/8" Meter		-4.02%	-4.97%	-4.06%	-0.13%	-0.22%	-0.13%	-1.00%	0.00%	0.00%	0.00%	0.00%
> 5/8" Meter		5.53%	41.04%	2.80%	-18.54%	-44.53%	-29.31%	-9.70%	0.00%	0.00%	0.00%	0.00%
Total General Service (including SC)		3.53%	33.10%	1.58%	-14.63%	-37.90%	-23.08%	-7.03%	0.00%	0.00%	0.00%	0.00%
PHA		-3.73%	13.67%	8.10%	10.60%	-0.51%	3.28%	16.23%	-0.05%	0.00%	0.00%	0.00%
Charity and Schools		-16.17%	-0.39%	-1.67%	2.07%	-10.86%	-8.30%	-5.07%	0.01%	0.00%	0.00%	0.00%
Hospital/University		-16.80%	-2.89%	-9.23%	-2.39%	25.32%	26.86%	45.07%	0.24%	0.00%	0.00%	0.00%
Hand Billed		-0.50%	-57.55%	-14.49%	9.21%	115.11%	15.76%	-0.23%	0.00%	0.00%	0.00%	0.00%
Scheduled		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		-2.13%	-77.33%	-76.92%	-84.06%	-0.17%	0.13%	43.56%	0.17%	0.00%	0.00%	0.00%
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		0.90%	-9.93%	-8.88%	-2.08%	-2.77%	-0.71%	-2.04%	0.00%	0.00%	0.00%	0.00%

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water Only Billed Volume Growth												**Customer - 2B**
5-Year Average Growth												
Senior Citizens												
5/8" Meter		8.72%	4.36%	10.27%	3.33%	5.69%	5.34%	5.49%	2.86%	5.34%	0.00%	0.00%
> 5/8" Meter		#N/A	#N/A	#N/A	#N/A	#N/A	-100.00%	#N/A	#N/A	#N/A	#N/A	#N/A
Total Senior Citizens		9.08%	4.36%	10.27%	1.88%	4.47%	5.00%	5.49%	2.86%	5.34%	0.00%	0.00%
General Service (Residential)												
5/8" Meter		1.19%	-2.45%	-3.12%	-2.10%	-2.72%	-0.92%	0.17%	-0.23%	-1.16%	0.00%	0.00%
> 5/8" Meter		-3.42%	-3.21%	-3.78%	-2.29%	-9.73%	-3.23%	-0.38%	-2.08%	-2.72%	0.00%	0.00%
Total General Service (Residential)		-0.01%	-2.62%	-3.28%	-2.14%	-4.51%	-1.45%	0.05%	-0.64%	-1.51%	0.00%	0.00%
General Service (Commercial)												
5/8" Meter		-1.96%	2.37%	-3.15%	-5.69%	-1.79%	0.16%	-2.37%	0.60%	2.52%	0.00%	0.00%
> 5/8" Meter		8.61%	20.66%	2.45%	-9.46%	-20.62%	-14.94%	-25.60%	-19.13%	-7.71%	0.00%	0.00%
Total General Service (Commercial)		7.92%	19.80%	2.21%	-9.25%	-19.50%	-13.93%	-24.41%	-17.97%	-6.91%	0.00%	0.00%
General Service (Industrial)												
5/8" Meter		-5.77%	-15.40%	0.17%	-6.64%	-7.54%	10.97%	10.97%	0.00%	2.79%	0.11%	0.00%
> 5/8" Meter		16.18%	37.63%	22.34%	-5.74%	-7.08%	-24.41%	-40.07%	-22.66%	-1.40%	0.00%	0.00%
Total General Service (Industrial)		16.13%	37.52%	22.25%	-5.74%	-7.08%	-24.31%	-39.98%	-22.58%	-1.37%	0.00%	0.00%
General Service (Public Utilities)												
5/8" Meter		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
> 5/8" Meter		1.76%	0.00%	14.87%	32.68%	66.38%	65.72%	65.72%	65.72%	15.18%	-0.40%	0.00%
Total General Service (Public Utilities)		1.76%	0.00%	14.87%	32.68%	66.38%	65.72%	65.72%	65.72%	15.18%	-0.40%	0.00%
General Service (Excluding Senior Citizens)												
5/8" Meter		0.70%	-1.81%	-3.12%	-2.60%	-2.61%	-0.74%	-0.19%	-0.11%	-0.66%	0.00%	0.00%
> 5/8" Meter		9.87%	25.92%	5.78%	-8.24%	-17.43%	-16.82%	-29.78%	-18.79%	-5.94%	0.00%	0.00%
Total General Service (excluding SC)		7.85%	21.32%	4.04%	-6.83%	-13.81%	-12.99%	-24.91%	-14.61%	-4.31%	0.00%	0.00%
General Service (Including Senior Citizens)												
5/8" Meter		0.76%	-1.76%	-3.02%	-2.56%	-2.53%	-0.68%	-0.13%	-0.08%	-0.60%	0.00%	0.00%
> 5/8" Meter		9.87%	25.92%	5.78%	-8.25%	-17.43%	-16.83%	-29.78%	-18.79%	-5.94%	0.00%	0.00%
Total General Service (including SC)		7.85%	21.29%	4.05%	-6.81%	-13.76%	-12.94%	-24.86%	-14.57%	-4.28%	0.00%	0.00%
PHA		20.00%	23.29%	11.46%	-1.65%	6.87%	16.26%	-0.34%	1.96%	9.44%	-0.03%	0.00%
Charity and Schools		-3.92%	-30.58%	-7.02%	-3.92%	-6.03%	-1.88%	-6.66%	-5.07%	-3.08%	0.01%	0.00%
Hospital/University		-16.54%	-7.36%	-4.34%	-9.87%	8.67%	23.21%	14.67%	15.34%	25.01%	0.15%	0.00%
Hand Billed		14.00%	-23.68%	-3.86%	-5.18%	-0.61%	5.28%	58.34%	9.18%	-0.14%	0.00%	0.00%
Scheduled		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		6.39%	-56.32%	-59.29%	-66.96%	-58.52%	-58.72%	0.00%	0.08%	24.23%	0.10%	0.00%
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		10.54%	7.15%	-1.52%	-6.50%	-5.83%	-2.47%	-1.67%	-0.43%	-1.23%	0.00%	0.00%

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water - Billed Volume (Mcf)												**Customer - 3**
Senior Citizens												
5/8" Meter		123,485	129,938	129,795	127,125	123,835	122,051	120,194	118,363	116,556	116,556	116,556
> 5/8" Meter		52	51	63	89	76	89	103	118	135	135	135
Total Senior Citizens		123,537	129,989	129,858	127,214	123,911	122,140	120,297	118,481	116,691	116,691	116,691
General Service (Residential)												
5/8" Meter		2,740,574	2,656,052	2,643,962	2,691,813	2,658,509	2,660,775	2,663,103	2,665,323	2,667,433	2,650,027	2,632,621
> 5/8" Meter		358,904	358,036	365,628	388,632	394,841	407,860	421,379	435,341	449,829	449,829	449,829
Total General Service (Residential)		3,099,478	3,014,087	3,009,590	3,080,445	3,053,350	3,068,635	3,084,482	3,100,664	3,117,262	3,099,856	3,082,450
General Service (Commercial)												
5/8" Meter		306,974	296,856	278,973	279,613	290,419	288,297	286,228	284,165	282,105	282,105	282,105
> 5/8" Meter		1,261,109	1,261,706	1,311,714	1,262,628	1,373,405	1,412,819	1,320,911	1,358,816	1,397,761	1,397,761	1,397,761
Total General Service (Commercial)		1,568,082	1,558,562	1,590,687	1,542,241	1,663,824	1,701,116	1,607,139	1,642,981	1,679,866	1,679,866	1,679,866
General Service (Industrial)												
5/8" Meter		6,487	6,687	7,009	6,046	6,350	6,242	6,138	6,034	5,932	5,932	5,932
> 5/8" Meter		90,264	148,137	92,526	78,569	81,748	67,049	54,992	45,106	36,993	36,993	36,993
Total General Service (Industrial)		96,751	154,824	99,535	84,616	88,098	73,291	61,130	51,140	42,925	42,925	42,925
General Service (Public Utilities)												
5/8" Meter		736	621	492	369	416	365	320	281	247	247	247
> 5/8" Meter		8,886	8,308	9,006	8,906	9,433	9,878	10,303	10,783	10,580	10,580	10,580
Total General Service (Public Utilities)		9,622	8,929	9,498	9,275	9,849	10,243	10,623	11,064	10,827	10,827	10,827
General Service (Excluding Senior Citizens)												
5/8" Meter		3,054,771	2,960,215	2,930,436	2,977,841	2,955,693	2,955,679	2,955,789	2,955,803	2,955,717	2,938,311	2,920,905
> 5/8" Meter		1,719,162	1,776,187	1,778,873	1,738,736	1,859,428	1,897,606	1,807,585	1,850,046	1,895,163	1,895,163	1,895,163
Total General Service (excluding SC)		4,773,933	4,736,402	4,709,309	4,716,577	4,815,122	4,853,285	4,763,374	4,805,849	4,850,880	4,833,474	4,816,068
General Service (Including Senior Citizens)												
5/8" Meter		3,178,256	3,090,153	3,060,231	3,104,966	3,079,528	3,077,730	3,075,983	3,074,166	3,072,273	3,054,867	3,037,461
> 5/8" Meter		1,719,214	1,776,238	1,778,937	1,738,824	1,859,504	1,897,695	1,807,688	1,850,164	1,895,298	1,895,298	1,895,298
Total General Service (including SC)		4,897,470	4,866,391	4,839,168	4,843,790	4,939,033	4,975,425	4,883,671	4,924,330	4,967,571	4,950,165	4,932,759
PHA		158,068	157,347	140,652	145,316	154,693	153,806	152,932	152,062	151,196	151,196	151,196
Charities & Schools		161,720	157,659	136,933	113,224	137,520	131,398	125,542	119,937	114,610	114,610	114,610
Hospital/University		252,658	286,455	228,052	93,694	104,294	74,234	53,010	38,048	27,334	27,334	27,334
Hand Billed		470,231	428,623	479,337	475,823	484,406	504,400	525,131	546,620	568,885	568,885	568,885
Scheduled		13	13	36	38	32	46	62	88	117	117	117
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
Fire Service		15,880	8,487	9,585	10,022	197	73	-	-	-	-	-
Fire Hydrants		-	-	-	-	-	-	-	-	-	-	-
Total		5,956,039	5,904,975	5,833,763	5,681,907	5,820,175	5,839,382	5,740,348	5,781,085	5,829,713	5,812,307	5,794,901
Annual Change		-2.27%	-0.86%	-1.21%	-2.60%	2.43%	0.33%	-1.70%	0.71%	0.84%	-0.30%	-0.30%

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water - Billed Volume Per Account (Mcf/Account)												**Customer - 4**
Senior Citizens												
5/8" Meter	Volume - SC 5/8	5.37	5.54	5.71	5.72	5.62	5.65	5.68	5.71	5.74	5.74	5.74
> 5/8" Meter	Volume - SC > 5/8	7.37	5.71	7.93	11.06	6.94	7.41	7.91	8.44	9.01	9.01	9.01
Total Senior Citizens		5.37	5.54	5.71	5.72	5.62	5.65	5.68	5.71	5.74	5.74	5.74
General Service (Residential)												
5/8" Meter	Volume - Res 5/8	6.54	6.42	6.42	6.40	6.29	6.25	6.21	6.17	6.13	6.09	6.05
> 5/8" Meter	Volume - Res > 5/8	46.68	40.30	37.12	35.45	31.48	28.99	26.70	24.59	22.65	22.65	22.65
Total General Service (Residential)		7.27	7.14	7.14	7.14	7.02	6.98	6.94	6.90	6.85	6.81	6.77
General Service (Commercial)												
5/8" Meter	Volume - Com 5/8	10.87	10.55	10.03	9.96	10.36	10.30	10.24	10.18	10.12	10.12	10.12
> 5/8" Meter	Volume - Com > 5/8	152.07	146.62	150.22	137.59	141.17	139.40	125.11	123.54	121.99	121.99	121.99
Total General Service (Commercial)		42.92	42.41	43.53	41.40	44.07	44.62	41.73	42.22	42.71	42.71	42.71
General Service (Industrial)												
5/8" Meter	Volume - Ind 5/8	12.40	13.01	13.85	11.88	12.67	12.56	12.45	12.34	12.23	12.23	12.23
> 5/8" Meter	Volume - Ind > 5/8	164.12	269.34	168.84	144.69	147.03	120.16	98.20	80.26	65.59	65.59	65.59
Total General Service (Industrial)		90.17	145.51	94.44	80.43	83.35	69.47	58.05	48.66	40.92	40.92	40.92
General Service (Public Utilities)												
5/8" Meter	Volume - Pub Util 5/8	11.15	8.39	6.83	4.91	5.27	4.51	3.86	3.31	2.84	2.84	2.84
> 5/8" Meter	Volume - Pub Util > 5/8	89.75	83.92	89.16	84.02	79.27	77.78	76.32	74.88	73.47	73.47	73.47
Total General Service (Public Utilities)		58.31	51.61	54.90	51.24	49.74	49.25	48.73	48.31	46.87	46.87	46.87
General Service (Excluding Senior Citizens)												
5/8" Meter		6.82	6.69	6.66	6.63	6.55	6.51	6.46	6.42	6.38	6.34	6.30
> 5/8" Meter		103.38	97.92	92.50	83.64	81.03	76.24	66.86	62.91	59.18	59.18	59.18
Total General Service (excluding SC)		10.28	10.29	10.25	10.04	10.15	10.13	9.83	9.81	9.79	9.75	9.72
General Service (Including Senior Citizens)												
5/8" Meter		6.75	6.64	6.61	6.59	6.51	6.47	6.43	6.39	6.35	6.31	6.28
> 5/8" Meter		103.34	97.88	92.46	83.61	81.00	76.21	66.83	62.88	59.15	59.15	59.15
Total General Service (including SC)		10.05	10.06	10.03	9.84	9.95	9.94	9.66	9.64	9.63	9.59	9.56
PHA	Volume - PHA	26.74	26.77	24.61	25.41	27.30	27.48	27.66	27.84	28.02	28.02	28.02
Charities & Schools	Volume - Charities/Schools	72.42	72.89	70.40	60.94	74.98	75.69	76.41	77.13	77.86	77.86	77.86
Hospital/University	Volume - Hospital/Universities	721.88	705.56	781.00	669.24	755.76	773.27	791.19	809.53	828.29	828.29	828.29
Hand Billed	Volume - Hand Billed	1,951.17	1,778.52	2,057.24	2,068.80	2,087.95	2,202.62	2,323.59	2,451.21	2,585.84	2,585.84	2,585.84
Scheduled	Volume - Scheduled	3.30	4.17	12.00	7.60	5.30	5.74	6.22	6.74	7.30	7.30	7.30
xxxxxxxxxx	Volume - No Growth	-	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00
xxxxxxxxxx	Volume - No Growth	-	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00
Fire Service	Volume - Fire Service	3.48	1.53	1.71	1.71	0.03	0.01	0.00	0.00	0.00	0.00	0.00
Fire Hydrants	Volume - No Growth	-	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00
Total		11.32	11.28	11.19	10.70	10.86	10.79	10.51	10.48	10.46	10.43	10.40

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Water - Billed Volume Per Account Growth												**Customer - 4A**
Annual Growth												
Senior Citizens												
5/8" Meter		0.37%	3.17%	3.07%	0.18%	-1.75%	0.53%	0.53%	0.53%	0.53%	0.00%	0.00%
> 5/8" Meter		58.84%	-22.52%	38.88%	39.47%	-37.25%	6.77%	6.75%	6.70%	6.75%	0.00%	0.00%
Total Senior Citizens		0.37%	3.17%	3.07%	0.18%	-1.75%	0.55%	0.54%	0.54%	0.53%	0.00%	0.00%
General Service (Residential)												
5/8" Meter		-2.82%	-1.83%	0.00%	-0.31%	-1.72%	-0.64%	-0.64%	-0.64%	-0.65%	-0.65%	-0.66%
> 5/8" Meter		-13.80%	-13.67%	-7.89%	-4.50%	-11.20%	-7.91%	-7.90%	-7.90%	-7.89%	0.00%	0.00%
Total General Service (Residential)		-2.94%	-1.79%	0.00%	0.00%	-1.68%	-0.61%	-0.58%	-0.61%	-0.64%	-0.56%	-0.56%
General Service (Commercial)												
5/8" Meter		-1.45%	-2.94%	-4.93%	-0.70%	4.02%	-0.58%	-0.58%	-0.59%	-0.59%	0.00%	0.00%
> 5/8" Meter		-2.87%	-3.58%	2.46%	-8.41%	2.60%	-1.25%	-10.25%	-1.25%	-1.25%	0.00%	0.00%
Total General Service (Commercial)		0.42%	-1.19%	2.64%	-4.89%	6.45%	1.25%	-6.47%	1.17%	1.15%	0.00%	0.00%
General Service (Industrial)												
5/8" Meter		8.20%	4.92%	6.46%	-14.22%	6.65%	-0.87%	-0.88%	-0.88%	-0.89%	0.00%	0.00%
> 5/8" Meter		3.74%	64.11%	-37.31%	-14.30%	1.62%	-18.28%	-18.28%	-18.27%	-18.28%	0.00%	0.00%
Total General Service (Industrial)		4.85%	61.37%	-35.10%	-14.83%	3.63%	-16.65%	-16.43%	-16.18%	-15.90%	0.00%	0.00%
General Service (Public Utilities)												
5/8" Meter		9.85%	-24.81%	-18.50%	-28.11%	7.28%	-14.44%	-14.41%	-14.25%	-14.20%	0.00%	0.00%
> 5/8" Meter		-32.79%	-6.50%	6.25%	-5.77%	-5.66%	-1.88%	-1.88%	-1.89%	-1.88%	0.00%	0.00%
Total General Service (Public Utilities)		-33.26%	-11.50%	6.37%	-6.66%	-2.92%	-1.00%	-1.05%	-0.85%	-2.99%	0.00%	0.00%
General Service (Excluding Senior Citizens)												
5/8" Meter		-2.71%	-1.91%	-0.45%	-0.45%	-1.21%	-0.61%	-0.77%	-0.62%	-0.62%	-0.63%	-0.63%
> 5/8" Meter		-7.19%	-5.28%	-5.54%	-9.58%	-3.12%	-5.91%	-12.30%	-5.91%	-5.93%	0.00%	0.00%
Total General Service (excluding SC)		-1.91%	0.10%	-0.39%	-2.05%	1.10%	-0.20%	-2.96%	-0.20%	-0.20%	-0.41%	-0.31%
General Service (Including Senior Citizens)												
5/8" Meter		-2.60%	-1.63%	-0.45%	-0.30%	-1.21%	-0.61%	-0.62%	-0.62%	-0.63%	-0.63%	-0.48%
> 5/8" Meter		-7.19%	-5.28%	-5.54%	-9.57%	-3.12%	-5.91%	-12.31%	-5.91%	-5.93%	0.00%	0.00%
Total General Service (including SC)		-1.86%	0.10%	-0.30%	-1.89%	1.12%	-0.10%	-2.82%	-0.21%	-0.10%	-0.42%	-0.31%
PHA		0.26%	0.11%	-8.07%	3.25%	7.44%	0.66%	0.66%	0.65%	0.65%	0.00%	0.00%
Charity and Schools		-0.73%	0.65%	-3.42%	-13.44%	23.04%	0.95%	0.95%	0.94%	0.95%	0.00%	0.00%
Hospital/University		22.35%	-2.26%	10.69%	-14.31%	12.93%	2.32%	2.32%	2.32%	2.32%	0.00%	0.00%
Hand Billed		-8.68%	-8.85%	15.67%	0.56%	0.93%	5.49%	5.49%	5.49%	5.49%	0.00%	0.00%
Scheduled		-2.94%	26.36%	187.77%	-36.67%	-30.26%	8.30%	8.36%	8.36%	8.31%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		9.43%	-56.03%	11.76%	0.00%	-98.25%	-66.67%	-100.00%	#N/A	#N/A	#N/A	#N/A
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		-3.90%	-0.35%	-0.80%	-4.38%	1.50%	-0.64%	-2.59%	-0.29%	-0.19%	-0.29%	-0.29%

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water - Billed Volume Per Account Growth												**Customer - 4A**
2-Year Average Growth												
Senior Citizens												
5/8" Meter		-1.28%	1.76%	3.12%	1.61%	-0.79%	-0.61%	0.53%	0.53%	0.53%	0.26%	0.00%
> 5/8" Meter		9.03%	10.93%	3.73%	39.17%	-6.45%	-18.15%	6.76%	6.72%	6.73%	3.32%	0.00%
Total Senior Citizens		-1.28%	1.76%	3.12%	1.61%	-0.79%	-0.61%	0.54%	0.54%	0.54%	0.27%	0.00%
General Service (Residential)												
5/8" Meter		-1.93%	-2.33%	-0.92%	-0.16%	-1.02%	-1.18%	-0.64%	-0.64%	-0.65%	-0.65%	-0.65%
> 5/8" Meter		-14.51%	-13.73%	-10.83%	-6.21%	-7.91%	-9.57%	-7.90%	-7.90%	-7.90%	-4.03%	0.00%
Total General Service (Residential)		-1.94%	-2.36%	-0.90%	0.00%	-0.84%	-1.14%	-0.59%	-0.59%	-0.62%	-0.60%	-0.56%
General Service (Commercial)												
5/8" Meter		-1.96%	-2.20%	-3.94%	-2.84%	1.63%	1.69%	-0.58%	-0.58%	-0.59%	-0.30%	0.00%
> 5/8" Meter		-3.30%	-3.23%	-0.61%	-3.13%	-3.06%	0.66%	-5.86%	-5.86%	-1.25%	-0.63%	0.00%
Total General Service (Commercial)		-0.16%	-0.39%	0.71%	-1.20%	0.62%	3.82%	-2.69%	-2.72%	1.16%	0.57%	0.00%
General Service (Industrial)												
5/8" Meter		5.27%	6.55%	5.69%	-4.44%	-4.35%	2.82%	-0.87%	-0.88%	-0.89%	-0.45%	0.00%
> 5/8" Meter		-0.78%	30.48%	1.43%	-26.71%	-6.68%	-8.87%	-18.28%	-18.27%	-18.27%	-9.60%	0.00%
Total General Service (Industrial)		-0.04%	30.08%	2.34%	-25.65%	-6.05%	-7.06%	-16.54%	-16.31%	-16.04%	-8.30%	0.00%
General Service (Public Utilities)												
5/8" Meter		6.02%	-9.08%	-21.72%	-23.46%	-12.18%	-4.19%	-14.42%	-14.33%	-14.22%	-7.37%	0.00%
> 5/8" Meter		-12.33%	-20.73%	-0.33%	0.06%	-5.71%	-3.79%	-1.88%	-1.88%	-1.88%	-0.95%	0.00%
Total General Service (Public Utilities)		-14.41%	-23.14%	-2.97%	-0.36%	-4.81%	-1.97%	-1.03%	-0.95%	-1.93%	-1.51%	0.00%
General Service (Excluding Senior Citizens)												
5/8" Meter		-1.92%	-2.31%	-1.18%	-0.45%	-0.83%	-0.91%	-0.69%	-0.69%	-0.62%	-0.63%	-0.63%
> 5/8" Meter		-8.13%	-6.24%	-5.41%	-7.58%	-6.41%	-4.53%	-9.16%	-9.16%	-5.92%	-3.01%	0.00%
Total General Service (excluding SC)		-1.38%	-0.91%	-0.15%	-1.22%	-0.49%	0.45%	-1.59%	-1.59%	-0.20%	-0.31%	-0.36%
General Service (Including Senior Citizens)												
5/8" Meter		-1.94%	-2.11%	-1.04%	-0.38%	-0.76%	-0.91%	-0.62%	-0.62%	-0.62%	-0.63%	-0.55%
> 5/8" Meter		-8.13%	-6.24%	-5.41%	-7.58%	-6.40%	-4.53%	-9.17%	-9.17%	-5.92%	-3.01%	0.00%
Total General Service (including SC)		-1.41%	-0.88%	-0.10%	-1.10%	-0.40%	0.51%	-1.47%	-1.52%	-0.16%	-0.26%	-0.36%
PHA		-3.10%	0.19%	-4.07%	-2.57%	5.32%	3.99%	0.66%	0.65%	0.65%	0.32%	0.00%
Charity and Schools		0.77%	-0.04%	-1.40%	-8.56%	3.20%	11.45%	0.95%	0.95%	0.94%	0.47%	0.00%
Hospital/University		8.76%	9.36%	4.01%	-2.61%	-1.63%	7.49%	2.32%	2.32%	2.32%	1.15%	0.00%
Hand Billed		-5.20%	-8.77%	2.68%	7.85%	0.74%	3.18%	5.49%	5.49%	5.49%	2.71%	0.00%
Scheduled		-21.31%	10.75%	90.69%	35.00%	-33.54%	-13.09%	8.33%	8.36%	8.33%	4.07%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		-6.14%	-30.64%	-29.90%	5.72%	-86.75%	-92.35%	-100.00%	-100.00%	#N/A	#N/A	#N/A
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		-2.75%	-2.15%	-0.58%	-2.60%	-1.49%	0.42%	-1.62%	-1.45%	-0.24%	-0.24%	-0.29%

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Water - Billed Volume Per Account Growth												**Customer - 4A**
3-Year Average Growth												
Senior Citizens												
5/8" Meter		-2.20%	0.18%	2.19%	2.13%	0.48%	-0.35%	-0.23%	0.53%	0.53%	0.35%	0.17%
> 5/8" Meter		1.49%	-2.71%	19.56%	14.49%	6.72%	-2.24%	-10.57%	6.74%	6.73%	4.44%	2.20%
Total Senior Citizens		-2.20%	0.18%	2.19%	2.13%	0.48%	-0.35%	-0.23%	0.54%	0.54%	0.36%	0.18%
General Service (Residential)												
5/8" Meter		-2.66%	-1.90%	-1.56%	-0.72%	-0.68%	-0.89%	-1.00%	-0.64%	-0.64%	-0.65%	-0.65%
> 5/8" Meter		-14.19%	-14.23%	-11.83%	-8.76%	-7.90%	-7.91%	-9.02%	-7.90%	-7.90%	-5.34%	-2.70%
Total General Service (Residential)		-2.65%	-1.89%	-1.58%	-0.60%	-0.56%	-0.76%	-0.96%	-0.60%	-0.61%	-0.60%	-0.59%
General Service (Commercial)												
5/8" Meter		-2.51%	-2.29%	-3.12%	-2.87%	-0.60%	0.89%	0.93%	-0.58%	-0.59%	-0.39%	-0.20%
> 5/8" Meter		-2.73%	-3.40%	-1.37%	-3.28%	-1.25%	-2.46%	-3.12%	-4.35%	-4.35%	-0.84%	-0.42%
Total General Service (Commercial)		-0.54%	-0.51%	0.61%	-1.19%	1.29%	0.83%	0.27%	-1.42%	-1.45%	0.77%	0.38%
General Service (Industrial)												
5/8" Meter		1.84%	5.15%	6.52%	-1.42%	-0.88%	-3.21%	1.57%	-0.88%	-0.88%	-0.59%	-0.30%
> 5/8" Meter		2.24%	17.34%	2.19%	-4.11%	-18.27%	-10.72%	-12.12%	-18.27%	-18.27%	-12.59%	-6.51%
Total General Service (Industrial)		2.40%	17.26%	3.17%	-3.74%	-16.95%	-9.73%	-10.30%	-16.42%	-16.17%	-11.00%	-5.61%
General Service (Public Utilities)												
5/8" Meter		7.56%	-5.43%	-12.37%	-23.91%	-14.34%	-12.94%	-7.73%	-14.37%	-14.29%	-9.72%	-4.98%
> 5/8" Meter		-10.29%	-10.42%	-12.60%	-2.18%	-1.88%	-4.45%	-3.15%	-1.88%	-1.88%	-1.26%	-0.63%
Total General Service (Public Utilities)		-11.58%	-13.45%	-14.35%	-4.22%	-1.22%	-3.56%	-1.66%	-0.97%	-1.63%	-1.29%	-1.01%
General Service (Excluding Senior Citizens)												
5/8" Meter		-2.68%	-1.92%	-1.69%	-0.94%	-0.70%	-0.76%	-0.86%	-0.67%	-0.67%	-0.62%	-0.63%
> 5/8" Meter		-7.38%	-7.19%	-6.01%	-6.82%	-6.12%	-6.24%	-7.19%	-8.09%	-8.10%	-3.99%	-2.02%
Total General Service (excluding SC)		-2.02%	-0.89%	-0.74%	-0.78%	-0.46%	-0.39%	-0.70%	-1.13%	-1.13%	-0.27%	-0.31%
General Service (Including Senior Citizens)												
5/8" Meter		-2.67%	-1.84%	-1.56%	-0.80%	-0.66%	-0.71%	-0.82%	-0.62%	-0.62%	-0.63%	-0.58%
> 5/8" Meter		-7.38%	-7.19%	-6.01%	-6.82%	-6.11%	-6.24%	-7.20%	-8.09%	-8.10%	-3.99%	-2.02%
Total General Service (including SC)		-2.10%	-0.91%	-0.69%	-0.70%	-0.37%	-0.30%	-0.61%	-1.05%	-1.05%	-0.24%	-0.28%
PHA		-4.03%	-2.04%	-2.64%	-1.69%	0.66%	3.75%	2.87%	0.66%	0.65%	0.43%	0.22%
Charity and Schools		-0.57%	0.73%	-1.18%	-5.59%	0.95%	2.44%	7.83%	0.95%	0.95%	0.63%	0.31%
Hospital/University		9.93%	4.96%	9.80%	-2.49%	2.32%	-0.33%	5.74%	2.32%	2.32%	1.54%	0.77%
Hand Billed		-2.82%	-6.43%	-1.25%	1.97%	5.49%	2.30%	3.95%	5.49%	5.49%	3.63%	1.80%
Scheduled		-31.68%	-7.86%	52.25%	32.06%	8.32%	-21.79%	-6.46%	8.34%	8.34%	5.48%	2.70%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		7.26%	-27.10%	-18.68%	-21.09%	-73.03%	-81.98%	-100.00%	-100.00%	-100.00%	#N/A	#N/A
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		-2.78%	-1.96%	-1.70%	-1.86%	-1.26%	-1.21%	-0.60%	-1.18%	-1.03%	-0.25%	-0.26%

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Water - Billed Volume Per Account Growth												**Customer - 4A**
5-Year Average Growth												
Senior Citizens												
5/8" Meter		-1.25%	-0.32%	-0.10%	0.75%	0.99%	1.02%	0.50%	0.00%	0.07%	0.42%	0.32%
> 5/8" Meter		-12.66%	-9.87%	2.38%	12.27%	8.38%	0.11%	6.74%	1.25%	-4.02%	5.36%	3.99%
Total Senior Citizens		-1.29%	-0.32%	-0.10%	0.75%	0.99%	1.03%	0.51%	0.01%	0.08%	0.43%	0.32%
General Service (Residential)												
5/8" Meter		-2.33%	-1.91%	-1.97%	-1.21%	-1.34%	-0.90%	-0.66%	-0.79%	-0.86%	-0.64%	-0.65%
> 5/8" Meter		-15.08%	-14.05%	-12.86%	-11.11%	-10.28%	-9.09%	-7.90%	-7.91%	-8.57%	-6.37%	-4.82%
Total General Service (Residential)		-2.40%	-1.95%	-1.95%	-1.14%	-1.29%	-0.82%	-0.57%	-0.70%	-0.82%	-0.60%	-0.59%
General Service (Commercial)												
5/8" Meter		-1.49%	-1.42%	-3.08%	-2.51%	-1.25%	-1.07%	-0.59%	0.30%	0.32%	-0.47%	-0.35%
> 5/8" Meter		-2.57%	-1.61%	-1.89%	-3.29%	-2.05%	-1.72%	-3.12%	-3.84%	-2.38%	-2.88%	-2.63%
Total General Service (Commercial)		-0.12%	0.62%	-0.04%	-0.78%	0.61%	0.78%	-0.32%	-0.61%	0.62%	-0.63%	-0.87%
General Service (Industrial)												
5/8" Meter		2.94%	3.95%	3.36%	1.20%	2.03%	0.26%	-0.88%	-2.28%	0.58%	-0.70%	-0.53%
> 5/8" Meter		-0.56%	10.44%	1.91%	-2.79%	-1.46%	-6.05%	-18.27%	-13.82%	-14.64%	-14.91%	-11.40%
Total General Service (Industrial)		0.57%	10.50%	2.38%	-2.28%	-0.62%	-5.08%	-16.79%	-12.42%	-12.64%	-13.26%	-10.04%
General Service (Public Utilities)												
5/8" Meter		-3.89%	-6.03%	-5.28%	-13.12%	-12.29%	-16.56%	-14.37%	-13.50%	-10.38%	-11.63%	-8.83%
> 5/8" Meter		-4.75%	-3.17%	-6.43%	-6.37%	-9.91%	-2.82%	-1.88%	-3.43%	-2.65%	-1.51%	-1.13%
Total General Service (Public Utilities)		-6.76%	-6.31%	-8.23%	-8.43%	-10.66%	-3.32%	-1.14%	-2.52%	-1.77%	-1.18%	-0.98%
General Service (Excluding Senior Citizens)												
5/8" Meter		-2.22%	-1.86%	-2.09%	-1.33%	-1.35%	-0.93%	-0.70%	-0.73%	-0.77%	-0.65%	-0.65%
> 5/8" Meter		-7.21%	-5.93%	-6.59%	-7.35%	-6.17%	-5.91%	-7.35%	-7.42%	-6.68%	-6.09%	-4.94%
Total General Service (excluding SC)		-1.49%	-0.76%	-1.28%	-1.02%	-0.64%	-0.29%	-0.91%	-0.87%	-0.50%	-0.80%	-0.82%
General Service (Including Senior Citizens)												
5/8" Meter		-2.22%	-1.80%	-2.02%	-1.26%	-1.24%	-0.84%	-0.64%	-0.67%	-0.74%	-0.62%	-0.59%
> 5/8" Meter		-7.21%	-5.93%	-6.60%	-7.35%	-6.16%	-5.91%	-7.35%	-7.42%	-6.69%	-6.09%	-4.94%
Total General Service (including SC)		-1.54%	-0.81%	-1.30%	-0.99%	-0.57%	-0.22%	-0.81%	-0.79%	-0.43%	-0.73%	-0.78%
PHA		-0.72%	-0.72%	-4.04%	-2.26%	0.47%	0.55%	0.66%	2.50%	1.97%	0.52%	0.39%
Charity and Schools		-1.99%	-1.73%	-0.90%	-3.10%	0.55%	0.89%	0.95%	1.84%	5.02%	0.76%	0.57%
Hospital/University		2.42%	2.80%	7.53%	1.86%	5.08%	1.38%	2.32%	0.72%	4.36%	1.85%	1.38%
Hand Billed		-1.89%	-2.97%	-0.65%	-0.96%	-0.46%	2.45%	5.49%	3.57%	4.56%	4.37%	3.26%
Scheduled		-15.81%	-17.63%	3.00%	7.35%	9.28%	11.71%	8.33%	-10.90%	-0.80%	6.61%	4.93%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		-6.38%	-10.34%	-9.52%	-15.42%	-60.65%	-68.98%	-100.00%	-100.00%	-100.00%	-100.00%	-100.00%
Fire Hydrants		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		-1.90%	-1.36%	-1.91%	-2.22%	-1.61%	-0.95%	-1.40%	-1.30%	-0.45%	-0.80%	-0.73%

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Water - Existing Rates												**Customer - 5**
Actual Rate												
Service Charge ($/bill)												
5/8"		$ 6.61	$ 5.12	$ 5.21	$ 5.21	$ 4.90	$ 4.97	$ 4.97	$ 4.97	$ 4.97	$ 4.97	$ 4.97
3/4"		7.59	5.47	5.55	5.55	5.28	5.37	5.37	5.37	5.37	5.37	5.37
1"		10.02	6.62	6.70	6.70	6.46	6.57	6.57	6.57	6.57	6.57	6.57
1 1/4"		13.03	7.98	8.05	8.05	7.85	8.01	8.01	8.01	8.01	8.01	8.01
1 1/2"		15.38	8.83	8.88	8.88	8.75	8.96	8.96	8.96	8.96	8.96	8.96
2"		22.66	12.26	12.32	12.32	12.26	12.59	12.59	12.59	12.59	12.59	12.59
3"		38.70	19.39	19.44	19.44	19.61	20.20	20.20	20.20	20.20	20.20	20.20
4"		67.61	35.27	35.39	35.39	35.46	36.45	36.45	36.45	36.45	36.45	36.45
6"		130.56	66.12	66.29	66.29	66.76	68.70	68.70	68.70	68.70	68.70	68.70
8"		203.32	100.48	100.66	100.66	101.84	104.91	104.91	104.91	104.91	104.91	104.91
10"		295.18	147.20	147.50	147.50	148.99	153.42	153.42	153.42	153.42	153.42	153.42
12"		514.45	239.66	239.52	239.52	245.14	253.19	253.19	253.19	253.19	253.19	253.19
14"		-	-	-	-	-	-	-	-	-	-	-
Volume Charge ($/Mcf)												
0 - 2 Mcf		43.08	45.52	44.80	44.80	45.99	48.96	48.96	48.96	48.96	48.96	48.96
2 - 100 Mcf		37.67	39.21	38.56	38.56	42.33	44.99	44.99	44.99	44.99	44.99	44.99
100 - 2,000 Mcf		29.31	30.54	29.88	29.88	32.84	34.85	34.85	34.85	34.85	34.85	34.85
Over 2,000 Mcf		28.51	29.72	29.06	29.06	31.94	33.91	33.91	33.91	33.91	33.91	33.91
Private Fire Charge ($/bill)												
5/8"		25.63	27.30	27.63	27.63	22.37	22.90	22.90	22.90	22.90	22.90	22.90
3/4"		25.63	27.30	27.63	27.63	22.37	22.90	22.90	22.90	22.90	22.90	22.90
1"		25.63	27.30	27.63	27.63	22.37	22.90	22.90	22.90	22.90	22.90	22.90
1 1/4"		25.63	27.30	27.63	27.63	22.37	22.90	22.90	22.90	22.90	22.90	22.90
1 1/2"		25.63	27.30	27.63	27.63	22.37	22.90	22.90	22.90	22.90	22.90	22.90
2"		25.63	27.30	27.63	27.63	22.37	22.90	22.90	22.90	22.90	22.90	22.90
3"		25.63	27.30	27.63	27.63	22.37	22.90	22.90	22.90	22.90	22.90	22.90
4"		25.63	27.30	27.63	27.63	22.37	22.90	22.90	22.90	22.90	22.90	22.90
6"		46.80	50.19	50.74	50.74	40.59	41.63	41.63	41.63	41.63	41.63	41.63
8"		69.52	74.98	75.77	75.77	59.96	61.58	61.58	61.58	61.58	61.58	61.58
10"		102.72	110.55	111.74	111.74	88.79	91.13	91.13	91.13	91.13	91.13	91.13
12"		156.11	171.15	172.64	172.64	132.60	136.73	136.73	136.73	136.73	136.73	136.73
14"		-	-	-	-	-	-	-	-	-	-	-
Public Fire Charge (Annual Charge)		7,866,000	9,300,000	9,235,000	6,533,000	6,533,000	7,114,000	7,114,000	7,114,000	7,114,000	7,114,000	7,114,000

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Water - Existing Rates												**Customer - 5**
Effective Rate												
Effective Months												
Service Charge		12.00	10.00	10.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Volume Charge		11.50	9.50	9.50	8.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50
Service Charge												
5/8"		6.61	5.37	5.20	5.21	4.95	4.96	4.97	4.97	4.97	4.97	4.97
3/4"		7.59	5.82	5.54	5.55	5.33	5.36	5.37	5.37	5.37	5.37	5.37
1"		10.02	7.19	6.69	6.70	6.50	6.55	6.57	6.57	6.57	6.57	6.57
1 1/4"		13.03	8.82	8.04	8.05	7.88	7.98	8.01	8.01	8.01	8.01	8.01
1 1/2"		15.38	9.92	8.87	8.88	8.77	8.93	8.96	8.96	8.96	8.96	8.96
2"		22.66	13.99	12.31	12.32	12.27	12.54	12.59	12.59	12.59	12.59	12.59
3"		38.70	22.61	19.43	19.44	19.58	20.10	20.20	20.20	20.20	20.20	20.20
4"		67.61	40.66	35.37	35.39	35.45	36.29	36.45	36.45	36.45	36.45	36.45
6"		130.56	76.86	66.26	66.29	66.68	68.38	68.70	68.70	68.70	68.70	68.70
8"		203.32	117.62	100.63	100.66	101.64	104.40	104.91	104.91	104.91	104.91	104.91
10"		295.18	171.86	147.45	147.50	148.74	152.68	153.42	153.42	153.42	153.42	153.42
12"		514.45	285.46	239.54	239.52	244.20	251.85	253.19	253.19	253.19	253.19	253.19
14"		-	-	-	-	-	-	-	-	-	-	-
Volume Charge												
0 - 2 Mcf		43.00	45.01	44.95	44.80	45.74	48.34	48.96	48.96	48.96	48.96	48.96
2 - 100 Mcf		37.60	38.89	38.70	38.56	41.54	44.44	44.99	44.99	44.99	44.99	44.99
100 - 2,000 Mcf		29.25	30.28	30.02	29.88	32.22	34.43	34.85	34.85	34.85	34.85	34.85
Over 2,000 Mcf		28.45	29.47	29.20	29.06	31.34	33.50	33.91	33.91	33.91	33.91	33.91
Private Fire Charge												
5/8"		25.63	27.02	27.58	27.63	23.25	22.81	22.90	22.90	22.90	22.90	22.90
3/4"		25.63	27.02	27.58	27.63	23.25	22.81	22.90	22.90	22.90	22.90	22.90
1"		25.63	27.02	27.58	27.63	23.25	22.81	22.90	22.90	22.90	22.90	22.90
1 1/4"		25.63	27.02	27.58	27.63	23.25	22.81	22.90	22.90	22.90	22.90	22.90
1 1/2"		25.63	27.02	27.58	27.63	23.25	22.81	22.90	22.90	22.90	22.90	22.90
2"		25.63	27.02	27.58	27.63	23.25	22.81	22.90	22.90	22.90	22.90	22.90
3"		25.63	27.02	27.58	27.63	23.25	22.81	22.90	22.90	22.90	22.90	22.90
4"		25.63	27.02	27.58	27.63	23.25	22.81	22.90	22.90	22.90	22.90	22.90
6"		46.80	49.63	50.65	50.74	42.28	41.46	41.63	41.63	41.63	41.63	41.63
8"		69.52	74.07	75.64	75.77	62.60	61.31	61.58	61.58	61.58	61.58	61.58
10"		102.72	109.25	111.54	111.74	92.62	90.74	91.13	91.13	91.13	91.13	91.13
12"		156.11	168.64	172.39	172.64	139.27	136.04	136.73	136.73	136.73	136.73	136.73
14"		-	-	-	-	-	-	-	-	-	-	-

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water - Calculated Billings (prior to adjustment factor)												**Customer - 6**
Senior Citizens												
5/8" Meter		5,278	5,435	5,352	5,228	5,174	5,336	5,307	5,222	5,137	5,137	5,137
> 5/8" Meter		2	2	3	3	3	4	4	5	6	6	6
Total Senior Citizens		5,281	5,437	5,354	5,231	5,177	5,340	5,312	5,227	5,143	5,143	5,143
General Service (Residential)												
5/8" Meter		148,327	143,210	141,495	143,808	144,585	151,935	153,906	154,200	154,491	153,652	152,813
> 5/8" Meter		16,876	16,931	17,166	18,199	19,056	20,835	21,847	22,641	23,475	23,475	23,475
Total General Service (Residential)		165,203	160,141	158,661	162,007	163,641	172,770	175,753	176,842	177,966	177,127	176,289
General Service (Commercial)												
5/8" Meter		13,521	13,129	12,316	12,324	13,351	14,037	14,104	14,012	13,920	13,920	13,920
> 5/8" Meter		49,856	50,260	51,653	49,671	57,256	62,707	59,520	61,209	62,945	62,945	62,945
Total General Service (Commercial)		63,377	63,389	63,969	61,994	70,606	76,745	73,624	75,221	76,865	76,865	76,865
General Service (Industrial)												
5/8" Meter		273	281	290	254	279	291	290	285	280	280	280
> 5/8" Meter		3,413	5,600	3,508	2,983	3,307	2,910	2,434	2,015	1,672	1,672	1,672
Total General Service (Industrial)		3,687	5,881	3,798	3,237	3,586	3,201	2,724	2,300	1,952	1,952	1,952
General Service (Public Utilities)												
5/8" Meter		33	29	24	19	22	21	19	18	16	16	16
> 5/8" Meter		376	350	372	368	416	463	489	513	504	504	504
Total General Service (Public Utilities)		409	379	396	387	437	484	509	530	520	520	520
General Service (Excluding Senior Citizens)												
5/8" Meter		162,153	156,648	154,124	156,404	158,236	166,284	168,318	168,515	168,707	167,868	167,030
> 5/8" Meter		70,522	73,142	72,699	71,221	80,035	86,915	84,291	86,379	88,596	88,596	88,596
Total General Service (excluding SC)		232,675	229,790	226,823	227,626	238,271	253,199	252,610	254,893	257,303	256,464	255,625
General Service (Including Senior Citizens)												
5/8" Meter		167,432	162,083	159,476	161,632	163,410	171,620	173,626	173,736	173,844	173,005	172,167
> 5/8" Meter		70,525	73,144	72,701	71,225	80,038	86,919	84,296	86,384	88,601	88,601	88,601
Total General Service (including SC)		237,956	235,227	232,178	232,857	243,448	258,540	257,922	260,120	262,446	261,607	260,768
PHA		6,196	6,259	5,585	5,739	6,382	6,731	6,771	6,730	6,689	6,689	6,689
Charities & Schools		5,048	4,917	4,233	3,518	4,489	4,565	4,413	4,214	4,025	4,025	4,025
Hospital/University		6,442	7,480	5,896	2,418	2,889	2,196	1,587	1,139	818	818	818
Hand Billed		14,891	13,975	15,474	15,295	16,768	18,650	19,648	20,446	21,274	21,274	21,274
Scheduled		1	1	2	2	2	3	4	5	7	7	7
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
Fire Service		653	364	410	427	9	3	-	-	-	-	-
Private Fire (Unmetered)		2,901	3,602	3,993	4,197	3,831	4,039	4,358	4,684	5,034	5,034	5,034
Public Fire Charge (Hydrants)		7,866	9,300	9,235	6,533	6,533	7,114	7,114	7,114	7,114	7,114	7,114
Total		281,955	281,125	277,005	270,985	284,350	301,841	301,816	304,452	307,407	306,568	305,729

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water - Retail - Billings Under Existing Rates												**Customer - 7**
Senior Citizens												
5/8" Meter		5,278	5,435	5,352	5,228	5,174	5,336	5,307	5,222	5,137	5,137	5,137
> 5/8" Meter		2	2	3	3	3	4	4	5	6	6	6
Total Senior Citizens		5,281	5,437	5,354	5,231	5,177	5,340	5,312	5,227	5,143	5,143	5,143
General Service (Residential)												
5/8" Meter		148,327	143,210	141,495	143,808	144,585	151,935	153,906	154,200	154,491	153,652	152,813
> 5/8" Meter		16,876	16,931	17,166	18,199	19,056	20,835	21,847	22,641	23,475	23,475	23,475
Total General Service (Residential)		165,203	160,141	158,661	162,007	163,641	172,770	175,753	176,842	177,966	177,127	176,289
General Service (Commercial)												
5/8" Meter		13,521	13,129	12,316	12,324	13,351	14,037	14,104	14,012	13,920	13,920	13,920
> 5/8" Meter		49,856	50,260	51,653	49,671	57,256	62,707	59,520	61,209	62,945	62,945	62,945
Total General Service (Commercial)		63,377	63,389	63,969	61,994	70,606	76,745	73,624	75,221	76,865	76,865	76,865
General Service (Industrial)												
5/8" Meter		273	281	290	254	279	291	290	285	280	280	280
> 5/8" Meter		3,413	5,600	3,508	2,983	3,307	2,910	2,434	2,015	1,672	1,672	1,672
Total General Service (Industrial)		3,687	5,881	3,798	3,237	3,586	3,201	2,724	2,300	1,952	1,952	1,952
General Service (Public Utilities)												
5/8" Meter		33	29	24	19	22	21	19	18	16	16	16
> 5/8" Meter		376	350	372	368	416	463	489	513	504	504	504
Total General Service (Public Utilities)		409	379	396	387	437	484	509	530	520	520	520
General Service (Excluding Senior Citizens)												
5/8" Meter		162,153	156,648	154,124	156,404	158,236	166,284	168,318	168,515	168,707	167,868	167,030
> 5/8" Meter		70,522	73,142	72,699	71,221	80,035	86,915	84,291	86,379	88,596	88,596	88,596
Total General Service (excluding SC)		232,675	229,790	226,823	227,626	238,271	253,199	252,610	254,893	257,303	256,464	255,625
General Service (Including Senior Citizens)												
5/8" Meter		167,432	162,083	159,476	161,632	163,410	171,620	173,626	173,736	173,844	173,005	172,167
> 5/8" Meter		70,525	73,144	72,701	71,225	80,038	86,919	84,296	86,384	88,601	88,601	88,601
Total General Service (including SC)		237,956	235,227	232,178	232,857	243,448	258,540	257,922	260,120	262,446	261,607	260,768
PHA		6,196	6,259	5,585	5,739	6,382	6,731	6,771	6,730	6,689	6,689	6,689
Charities & Schools		5,048	4,917	4,233	3,518	4,489	4,565	4,413	4,214	4,025	4,025	4,025
Hospital/University		6,442	7,480	5,896	2,418	2,889	2,196	1,587	1,139	818	818	818
Hand Billed		14,891	13,975	15,474	15,295	16,768	18,650	19,648	20,446	21,274	21,274	21,274
Scheduled		1	1	2	2	2	3	4	5	7	7	7
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
Fire Service		653	364	410	427	9	3	-	-	-	-	-
Private Fire (Unmetered)		2,901	3,602	3,993	4,197	3,831	4,039	4,358	4,684	5,034	5,034	5,034
Public Fire Charge (Hydrants)		7,866	9,300	9,235	6,533	6,533	7,114	7,114	7,114	7,114	7,114	7,114
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
Total		281,955	281,125	277,005	270,985	284,350	301,841	301,816	304,452	307,407	306,568	305,729

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water - General Service Collections												**Customer - 8**
Total General Service Billings		270,535	267,860	263,367	259,829	273,978	290,685	290,344	292,654	295,258	294,420	293,581
Total General Service + xxxxxxxxxx Billings		270,535	267,860	263,367	259,829	273,978	290,685	290,344	292,654	295,258	294,420	293,581
Collection Factors												
Current Year		87.89%	86.87%	84.76%	84.62%	84.13%	84.65%	84.65%	84.65%	84.65%	84.65%	84.65%
First Year Prior		8.17%	8.36%	8.89%	8.54%	10.49%	10.29%	10.29%	10.29%	10.29%	10.29%	10.29%
Second Year Prior		1.90%	1.90%	1.94%	1.92%	2.04%	2.04%	2.04%	2.04%	2.04%	2.04%	2.04%
Collections		Actual	Actual	Actual	Actual	Actual	Calculated	Calculated				
General Service		259,848	262,071	262,147	270,963	275,484	279,572	281,292	283,553	285,988	285,593	284,850
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
Public Fire		7,866	9,300	9,325	6,533	6,533	7,114	7,114	7,114	7,114	7,114	7,114
Private Fire		3,169	3,598	3,690	3,937	3,661	4,042	4,358	4,684	5,034	5,034	5,034
Total		270,883	274,969	275,163	281,433	285,678	290,728	292,764	295,351	298,137	297,742	296,998
										Total		
General Service	Calculated	263,184	260,153	252,291	247,501	263,122				1,286,251		
General Service	Actual	259,848	262,071	262,147	270,963	275,484				1,330,513		
General Service + Wholesale	Calculated	266,421	263,779	256,119	251,350	266,563				1,304,232		
General Service + Wholesale	Actual	263,114	265,660	265,986	274,824	278,758				1,348,342		
	Ratio	101.3%	99.3%	96.3%	91.5%	95.6%				96.7%		
Overall Annual Collection Rate (Revenue/Billings)		96.0%	97.8%	99.5%	104.3%	100.5%						
Collections - Detail												
Senior Citizens							5,160	5,152	5,080	5,000	4,990	4,988
General Service (Residential)							166,402	169,900	171,315	172,440	171,868	171,094
General Service (Commercial)							73,498	71,664	72,820	74,312	74,514	74,548
General Service (Industrial)							3,145	2,708	2,293	1,945	1,900	1,893
General Service (Public Utilities)							463	489	511	505	504	504
PHA							6,472	6,554	6,531	6,493	6,488	6,487
Charities & Schools							4,398	4,297	4,115	3,931	3,908	3,904
Hospital/University							2,206	1,629	1,172	842	800	793
Hand Billed							17,826	18,894	19,711	20,514	20,615	20,632
Scheduled							3	3	5	6	6	6
xxxxxxxxxx							-	-	-	-	-	-
xxxxxxxxxx							-	-	-	-	-	-
Fire Service							3	-	-	-	-	-
Private Fire (Unmetered)							4,039	4,358	4,684	5,034	5,034	5,034
Public Fire Charge (Hydrants)							7,114	7,114	7,114	7,114	7,114	7,114
xxxxxxxxxx							-	-	-	-	-	-
Total							290,728	292,764	295,351	298,137	297,742	296,998

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Water - Wholesale												**Customer - 9**
Bucks County												
Commodity Charge ($/Mcf)		-	-	-	-	-	-	-	-	-	-	-
Demand Charge ($/mgd of maximum demand)		-	-	-	-	-	-	-	-	-	-	-
Lump Sum Payment ($/year)		-	-	-	-	-	-	-	-	-	-	-
Usage (Mcf)		-	-	-	-	-	-	-	-	-	-	-
Max Demand (mgd)		-	-	-	-	-	-	-	-	-	-	-
Management Fee		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Commodity ($1,000)		-	-	-	-	-	-	-	-	-	-	-
Demand ($1,000)		-	-	-	-	-	-	-	-	-	-	-
Lump Sum ($1,000)		-	-	-	-	-	-	-	-	-	-	-
Management Fee ($1,000)		-	-	-	-	-	-	-	-	-	-	-
Subtotal ($1,000)		-	-	-	-	-	-	-	-	-	-	-
Aqua PA												
Commodity Charge ($/Mcf)		3.508	3.099	3.013	3.030	3.293	3.476	3.508	3.508	3.508	3.508	3.508
Lump Sum Payment ($/year)		2,707,000	3,107,500	3,276,250	3,288,000	2,851,500	2,752,500	2,768,000	2,768,000	2,768,000	2,768,000	2,768,000
Usage (Mcf)		67,031	60,951	67,537	69,472	84,249	73,753	73,753	73,753	73,753	73,753	73,753
Management Fee		10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Commodity ($1,000)		235	189	203	211	277	256	259	259	259	259	259
Lump Sum ($1,000)		2,707	3,108	3,276	3,288	2,852	2,753	2,768	2,768	2,768	2,768	2,768
Management Fee ($1,000)		294	330	348	350	313	301	303	303	303	303	303
Subtotal ($1,000)		3,236	3,626	3,828	3,848	3,442	3,310	3,329	3,329	3,329	3,329	3,329
Total ($1,000)		3,236	3,626	3,828	3,848	3,442	3,310	3,329	3,329	3,329	3,329	3,329
Actual		3,266	3,590	3,839	3,861	3,273	-	-				

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Water - Revenue Summary												**Customer - 10**
Revenue ($1,000)												
General Service		259,848	262,071	262,147	270,963	275,484	279,572	281,292	283,553	285,988	285,593	284,850
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
Public Fire		7,866	9,300	9,325	6,533	6,533	7,114	7,114	7,114	7,114	7,114	7,114
Private Fire		3,169	3,598	3,690	3,937	3,661	4,042	4,358	4,684	5,034	5,034	5,034
Wholesale		3,266	3,590	3,839	3,861	3,273	3,310	3,329	3,329	3,329	3,329	3,329
Total		274,149	278,558	279,001	285,294	288,952	294,038	296,093	298,680	301,466	301,071	300,328

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Sewer - Accounts												Customer - 11
Senior Citizens												
5/8" Meter		22,974	23,440	22,718	22,195	22,032	21,582	21,141	20,709	20,286	20,286	20,286
> 5/8" Meter		5	7	8	8	11	12	13	14	15	15	15
Total Senior Citizens		22,979	23,447	22,726	22,203	22,043	21,594	21,154	20,723	20,301	20,301	20,301
General Service (Residential)												
5/8" Meter		417,556	412,223	410,645	419,282	421,395	424,489	427,606	430,746	433,909	433,909	433,909
> 5/8" Meter		6,759	7,811	8,840	9,928	11,403	12,930	14,643	16,565	18,721	18,721	18,721
Total General Service (Residential)		424,315	420,034	419,485	429,210	432,798	437,419	442,249	447,311	452,630	452,630	452,630
General Service (Commercial)												
5/8" Meter		28,138	28,031	27,702	27,968	27,920	27,882	27,844	27,806	27,768	27,768	27,768
> 5/8" Meter		7,562	7,773	7,939	8,373	8,828	9,234	9,657	10,098	10,557	10,557	10,557
Total General Service (Commercial)		35,700	35,804	35,641	36,341	36,748	37,116	37,501	37,904	38,325	38,325	38,325
General Service (Industrial)												
5/8" Meter		520	511	503	506	498	494	490	486	482	482	482
> 5/8" Meter		511	509	508	504	513	515	517	519	521	521	521
Total General Service (Industrial)		1,031	1,020	1,011	1,010	1,011	1,009	1,007	1,005	1,003	1,003	1,003
General Service (Public Utilities)												
5/8" Meter		66	74	72	75	79	81	83	85	87	87	87
> 5/8" Meter		96	96	98	103	114	122	130	139	139	139	139
Total General Service (Public Utilities)		162	170	170	178	193	203	213	224	226	226	226
General Service (Excluding Senior Citizens)												
5/8" Meter		446,280	440,839	438,922	447,831	449,892	452,946	456,023	459,123	462,246	462,246	462,246
> 5/8" Meter		14,928	16,189	17,385	18,908	20,858	22,801	24,947	27,321	29,938	29,938	29,938
Total General Service (excluding SC)		461,208	457,028	456,307	466,739	470,750	475,747	480,970	486,444	492,184	492,184	492,184
General Service (Including Senior Citizens)												
5/8" Meter		469,254	464,279	461,640	470,026	471,924	474,528	477,164	479,832	482,532	482,532	482,532
> 5/8" Meter		14,933	16,196	17,393	18,916	20,869	22,813	24,960	27,335	29,953	29,953	29,953
Total General Service (including SC)		484,187	480,475	479,033	488,942	492,793	497,341	502,124	507,167	512,485	512,485	512,485
PHA		5,781	5,737	5,713	5,717	5,665	5,596	5,528	5,461	5,395	5,395	5,395
Charities & Schools		2,127	2,051	1,907	1,819	1,793	1,695	1,602	1,514	1,431	1,431	1,431
Hospital/University		305	353	283	137	135	93	64	44	30	30	30
Hand Billed		219	217	208	205	205	202	199	196	193	193	193
Scheduled		4	3	3	5	6	8	10	13	16	16	16
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
Fire Service		105	112	119	126	-	-	-	-	-	-	-
Sewer Only	Account - No Growth	63	59	60	62	63	63	63	63	63	63	63
Groundwater (Non-City)	Account - No Growth	4	5	4	5	5	5	5	5	5	5	5
xxxxxxxxxx	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Total		492,795	489,012	487,330	497,018	500,665	505,003	509,595	514,463	519,618	519,618	519,618

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Sewer Customer Account Growth												**Customer - 11A**
Annual Growth												
Senior Citizens												
5/8" Meter		2.81%	2.03%	-3.08%	-2.30%	-0.73%	-2.04%	-2.04%	-2.04%	-2.04%	0.00%	0.00%
> 5/8" Meter		25.00%	40.00%	14.29%	0.00%	37.50%	9.09%	8.33%	7.69%	7.14%	0.00%	0.00%
Total Senior Citizens		2.81%	2.04%	-3.08%	-2.30%	-0.72%	-2.04%	-2.04%	-2.04%	-2.04%	0.00%	0.00%
General Service (Residential)												
5/8" Meter		1.68%	-1.28%	-0.38%	2.10%	0.50%	0.73%	0.73%	0.73%	0.73%	0.00%	0.00%
> 5/8" Meter		18.25%	15.56%	13.17%	12.31%	14.86%	13.39%	13.25%	13.13%	13.02%	0.00%	0.00%
Total General Service (Residential)		1.91%	-1.01%	-0.13%	2.32%	0.84%	1.07%	1.10%	1.14%	1.19%	0.00%	0.00%
General Service (Commercial)												
5/8" Meter		0.40%	-0.38%	-1.17%	0.96%	-0.17%	-0.14%	-0.14%	-0.14%	-0.14%	0.00%	0.00%
> 5/8" Meter		6.15%	2.79%	2.14%	5.47%	5.43%	4.60%	4.58%	4.57%	4.55%	0.00%	0.00%
Total General Service (Commercial)		1.56%	0.29%	-0.46%	1.96%	1.12%	1.00%	1.04%	1.07%	1.11%	0.00%	0.00%
General Service (Industrial)												
5/8" Meter		-0.76%	-1.73%	-1.57%	0.60%	-1.58%	-0.80%	-0.81%	-0.82%	-0.82%	0.00%	0.00%
> 5/8" Meter		1.19%	-0.39%	-0.20%	-0.79%	1.79%	0.39%	0.39%	0.39%	0.39%	0.00%	0.00%
Total General Service (Industrial)		0.19%	-1.07%	-0.88%	-0.10%	0.10%	-0.20%	-0.20%	-0.20%	-0.20%	0.00%	0.00%
General Service (Public Utilities)												
5/8" Meter		13.79%	12.12%	-2.70%	4.17%	5.33%	2.53%	2.47%	2.41%	2.35%	0.00%	0.00%
> 5/8" Meter		2.13%	0.00%	2.08%	5.10%	10.68%	7.02%	6.56%	6.92%	0.00%	0.00%	0.00%
Total General Service (Public Utilities)		6.58%	4.94%	0.00%	4.71%	8.43%	5.18%	4.93%	5.16%	0.89%	0.00%	0.00%
General Service (Excluding Senior Citizens)												
5/8" Meter		1.60%	-1.22%	-0.43%	2.03%	0.46%	0.68%	0.68%	0.68%	0.68%	0.00%	0.00%
> 5/8" Meter		11.08%	8.45%	7.39%	8.76%	10.31%	9.32%	9.41%	9.52%	9.58%	0.00%	0.00%
Total General Service (excluding SC)		1.88%	-0.91%	-0.16%	2.29%	0.86%	1.06%	1.10%	1.14%	1.18%	0.00%	0.00%
General Service (Including Senior Citizens)												
5/8" Meter		1.66%	-1.06%	-0.57%	1.82%	0.40%	0.55%	0.56%	0.56%	0.56%	0.00%	0.00%
> 5/8" Meter		11.08%	8.46%	7.39%	8.76%	10.32%	9.32%	9.41%	9.52%	9.58%	0.00%	0.00%
Total General Service (including SC)		1.93%	-0.77%	-0.30%	2.07%	0.79%	0.92%	0.96%	1.00%	1.05%	0.00%	0.00%
PHA		-0.26%	-0.76%	-0.42%	0.07%	-0.91%	-1.22%	-1.22%	-1.21%	-1.21%	0.00%	0.00%
Charities & Schools		-8.48%	-3.57%	-7.02%	-4.61%	-1.43%	-5.47%	-5.49%	-5.49%	-5.48%	0.00%	0.00%
Hospital/University		-29.23%	15.74%	-19.83%	-51.59%	-1.46%	-31.11%	-31.18%	-31.25%	-31.82%	0.00%	0.00%
Hand Billed		-5.60%	-0.91%	-4.15%	-1.44%	0.00%	-1.46%	-1.49%	-1.51%	-1.53%	0.00%	0.00%
Scheduled		0.00%	-25.00%	0.00%	66.67%	20.00%	33.33%	25.00%	30.00%	23.08%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		16.67%	6.67%	6.25%	5.88%	-100.00%	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Sewer Only		3.28%	-6.35%	1.69%	3.33%	1.61%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Groundwater (Non-City)		0.00%	25.00%	-11.67%	7.55%	-1.75%	7.14%	0.00%	0.00%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		1.82%	-0.77%	-0.34%	1.99%	0.73%	0.87%	0.91%	0.96%	1.00%	0.00%	0.00%

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Sewer Customer Account Growth												**Customer - 11A**
2-Year Average Growth												
Senior Citizens												
5/8" Meter		3.70%	2.42%	-0.56%	-2.69%	-1.52%	-1.39%	-2.04%	-2.04%	-2.04%	-1.03%	0.00%
> 5/8" Meter		29.10%	32.29%	26.49%	6.90%	17.26%	22.47%	8.71%	8.01%	7.42%	3.51%	0.00%
Total Senior Citizens		3.70%	2.42%	-0.55%	-2.69%	-1.51%	-1.38%	-2.04%	-2.04%	-2.04%	-1.02%	0.00%
General Service (Residential)												
5/8" Meter		0.97%	0.19%	-0.83%	0.85%	1.30%	0.62%	0.73%	0.73%	0.73%	0.37%	0.00%
> 5/8" Meter		19.65%	16.90%	14.36%	12.74%	13.58%	14.12%	13.32%	13.19%	13.07%	6.31%	0.00%
Total General Service (Residential)		1.20%	0.44%	-0.57%	1.09%	1.57%	0.95%	1.09%	1.12%	1.17%	0.59%	0.00%
General Service (Commercial)												
5/8" Meter		0.16%	0.01%	-0.78%	-0.11%	0.39%	-0.15%	-0.14%	-0.14%	-0.14%	-0.07%	0.00%
> 5/8" Meter		5.03%	4.46%	2.46%	3.79%	5.45%	5.02%	4.59%	4.57%	4.56%	2.25%	0.00%
Total General Service (Commercial)		1.14%	0.93%	-0.08%	0.75%	1.54%	1.06%	1.02%	1.06%	1.09%	0.55%	0.00%
General Service (Industrial)												
5/8" Meter		-0.38%	-1.25%	-1.65%	-0.49%	-0.50%	-1.19%	-0.81%	-0.81%	-0.82%	-0.41%	0.00%
> 5/8" Meter		0.29%	0.40%	-0.29%	-0.49%	0.49%	1.09%	0.39%	0.39%	0.39%	0.19%	0.00%
Total General Service (Industrial)		-0.05%	-0.44%	-0.97%	-0.49%	0.00%	-0.05%	-0.20%	-0.20%	-0.20%	-0.10%	0.00%
General Service (Public Utilities)												
5/8" Meter		17.26%	12.95%	4.45%	0.67%	4.75%	3.92%	2.50%	2.44%	2.38%	1.17%	0.00%
> 5/8" Meter		5.05%	1.06%	1.04%	3.58%	7.85%	8.83%	6.79%	6.74%	3.40%	0.00%	0.00%
Total General Service (Public Utilities)		9.54%	5.76%	2.44%	2.33%	6.55%	6.79%	5.05%	5.05%	3.01%	0.45%	0.00%
General Service (Excluding Senior Citizens)												
5/8" Meter		0.92%	0.18%	-0.83%	0.79%	1.24%	0.57%	0.68%	0.68%	0.68%	0.34%	0.00%
> 5/8" Meter		10.75%	9.76%	7.92%	8.07%	9.53%	9.81%	9.36%	9.46%	9.55%	4.68%	0.00%
Total General Service (excluding SC)		1.20%	0.48%	-0.53%	1.06%	1.57%	0.96%	1.08%	1.12%	1.16%	0.59%	0.00%
General Service (Including Senior Citizens)												
5/8" Meter		1.05%	0.29%	-0.81%	0.62%	1.11%	0.48%	0.55%	0.56%	0.56%	0.28%	0.00%
> 5/8" Meter		10.75%	9.76%	7.92%	8.07%	9.54%	9.82%	9.36%	9.46%	9.55%	4.68%	0.00%
Total General Service (including SC)		1.31%	0.57%	-0.53%	0.88%	1.43%	0.86%	0.94%	0.98%	1.03%	0.52%	0.00%
PHA		1.43%	-0.51%	-0.59%	-0.17%	-0.42%	-1.06%	-1.22%	-1.21%	-1.21%	-0.61%	0.00%
Charities & Schools		-6.33%	-6.06%	-5.31%	-5.83%	-3.04%	-3.47%	-5.48%	-5.49%	-5.49%	-2.78%	0.00%
Hospital/University		-15.39%	-9.50%	-3.67%	-37.70%	-30.93%	-17.61%	-31.15%	-31.22%	-31.53%	-17.43%	0.00%
Hand Billed		-4.87%	-3.29%	-2.54%	-2.80%	-0.72%	-0.73%	-1.47%	-1.50%	-1.52%	-0.77%	0.00%
Scheduled		15.47%	-13.40%	-13.40%	29.10%	41.42%	26.49%	29.10%	27.48%	26.49%	10.94%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		16.77%	11.55%	6.46%	6.07%	-100.00%	-100.00%	#N/A	#N/A	#N/A	#N/A	#N/A
Sewer Only		-9.55%	-1.65%	-2.41%	2.51%	2.47%	0.80%	0.00%	0.00%	0.00%	0.00%	0.00%
Groundwater (Non-City)		15.47%	11.80%	5.08%	-2.53%	2.79%	2.60%	3.51%	0.00%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		1.26%	0.52%	-0.56%	0.82%	1.36%	0.80%	0.89%	0.93%	0.98%	0.50%	0.00%

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Sewer Customer Account Growth												**Customer - 11A**
3-Year Average Growth												
Senior Citizens												
5/8" Meter		4.43%	3.14%	0.55%	-1.14%	-2.04%	-1.70%	-1.61%	-2.04%	-2.04%	-1.37%	-0.69%
> 5/8" Meter		18.56%	32.64%	25.99%	16.96%	16.26%	14.47%	17.57%	8.37%	7.72%	4.89%	2.33%
Total Senior Citizens		4.44%	3.14%	0.56%	-1.14%	-2.04%	-1.69%	-1.60%	-2.04%	-2.04%	-1.36%	-0.68%
General Service (Residential)												
5/8" Meter		1.21%	0.21%	0.00%	0.14%	0.74%	1.11%	0.66%	0.73%	0.73%	0.49%	0.24%
> 5/8" Meter		19.77%	18.27%	15.64%	13.67%	13.44%	13.51%	13.83%	13.26%	13.13%	8.53%	4.16%
Total General Service (Residential)		1.43%	0.46%	0.25%	0.38%	1.00%	1.41%	1.00%	1.11%	1.15%	0.78%	0.39%
General Service (Commercial)												
5/8" Meter		0.15%	-0.02%	-0.39%	-0.20%	-0.13%	0.22%	-0.15%	-0.14%	-0.14%	-0.09%	-0.05%
> 5/8" Meter		4.16%	4.28%	3.68%	3.45%	4.33%	5.17%	4.87%	4.58%	4.56%	3.01%	1.49%
Total General Service (Commercial)		0.95%	0.86%	0.46%	0.59%	0.87%	1.36%	1.05%	1.04%	1.07%	0.73%	0.37%
General Service (Industrial)												
5/8" Meter		-0.44%	-0.83%	-1.35%	-0.91%	-0.86%	-0.60%	-1.07%	-0.81%	-0.82%	-0.55%	-0.28%
> 5/8" Meter		0.07%	0.07%	0.20%	-0.46%	0.26%	0.46%	0.85%	0.39%	0.39%	0.26%	0.13%
Total General Service (Industrial)		-0.19%	-0.39%	-0.59%	-0.68%	-0.29%	-0.07%	-0.10%	-0.20%	-0.20%	-0.13%	-0.07%
General Service (Public Utilities)												
5/8" Meter		14.47%	15.52%	7.47%	4.35%	2.20%	4.00%	3.44%	2.47%	2.41%	1.58%	0.78%
> 5/8" Meter		6.27%	3.34%	1.40%	2.37%	5.90%	7.57%	8.07%	6.83%	4.44%	2.26%	0.00%
Total General Service (Public Utilities)		9.32%	7.99%	3.80%	3.19%	4.32%	6.09%	6.17%	5.09%	3.64%	1.99%	0.30%
General Service (Excluding Senior Citizens)												
5/8" Meter		1.14%	0.20%	-0.03%	0.12%	0.68%	1.05%	0.61%	0.68%	0.68%	0.45%	0.23%
> 5/8" Meter		10.00%	9.98%	8.96%	8.20%	8.81%	9.46%	9.68%	9.41%	9.50%	6.27%	3.10%
Total General Service (excluding SC)		1.39%	0.49%	0.27%	0.40%	0.99%	1.40%	1.01%	1.10%	1.14%	0.77%	0.39%
General Service (Including Senior Citizens)												
5/8" Meter		1.29%	0.34%	0.00%	0.05%	0.55%	0.92%	0.50%	0.56%	0.56%	0.37%	0.19%
> 5/8" Meter		10.00%	9.98%	8.97%	8.20%	8.82%	9.46%	9.68%	9.41%	9.50%	6.27%	3.10%
Total General Service (including SC)		1.52%	0.61%	0.28%	0.33%	0.85%	1.26%	0.89%	0.96%	1.00%	0.68%	0.35%
PHA		0.12%	0.70%	-0.48%	-0.37%	-0.42%	-0.69%	-1.11%	-1.22%	-1.21%	-0.81%	-0.40%
Charities & Schools		-5.24%	-5.42%	-6.38%	-5.08%	-4.38%	-3.85%	-4.15%	-5.48%	-5.49%	-3.69%	-1.86%
Hospital/University		-10.89%	-6.07%	-13.08%	-23.42%	-27.41%	-30.99%	-22.41%	-31.18%	-31.42%	-22.32%	-11.99%
Hand Billed		-3.93%	-3.57%	-3.57%	-2.18%	-1.88%	-0.97%	-0.99%	-1.49%	-1.51%	-1.02%	-0.51%
Scheduled		25.99%	0.00%	-9.14%	7.72%	25.99%	38.67%	25.99%	29.40%	25.99%	16.96%	7.17%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		12.37%	13.30%	9.76%	6.27%	-100.00%	-100.00%	-100.00%	#N/A	#N/A	#N/A	#N/A
Sewer Only		-1.54%	-8.49%	-0.55%	-0.53%	2.21%	1.64%	0.53%	0.00%	0.00%	0.00%	0.00%
Groundwater (Non-City)		0.00%	18.56%	3.36%	5.90%	-2.27%	4.22%	1.72%	2.33%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		1.46%	0.58%	0.23%	0.28%	0.79%	1.19%	0.84%	0.91%	0.96%	0.65%	0.33%

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Sewer Customer Account Growth												**Customer - 11A**
5-Year Average Growth												
Senior Citizens												
5/8" Meter		3.64%	3.75%	2.41%	0.77%	-0.28%	-1.24%	-2.04%	-1.83%	-1.78%	-1.64%	-1.23%
> 5/8" Meter		4.56%	11.84%	21.67%	21.67%	22.42%	19.14%	13.18%	11.84%	13.40%	6.40%	4.56%
Total Senior Citizens		3.64%	3.75%	2.41%	0.77%	-0.28%	-1.24%	-2.04%	-1.83%	-1.78%	-1.63%	-1.23%
General Service (Residential)												
5/8" Meter		0.38%	0.14%	0.39%	0.47%	0.52%	0.33%	0.74%	0.96%	0.69%	0.59%	0.44%
> 5/8" Meter		18.65%	17.65%	17.58%	16.03%	14.81%	13.85%	13.39%	13.38%	13.53%	10.42%	7.68%
Total General Service (Residential)		0.56%	0.35%	0.62%	0.71%	0.78%	0.61%	1.04%	1.29%	1.07%	0.90%	0.69%
General Service (Commercial)												
5/8" Meter		0.43%	-0.05%	-0.22%	-0.06%	-0.08%	-0.18%	-0.13%	0.07%	-0.14%	-0.11%	-0.08%
> 5/8" Meter		4.27%	3.57%	3.48%	4.08%	4.38%	4.08%	4.44%	4.93%	4.74%	3.64%	2.71%
Total General Service (Commercial)		1.17%	0.67%	0.53%	0.81%	0.89%	0.78%	0.93%	1.24%	1.07%	0.84%	0.64%
General Service (Industrial)												
5/8" Meter		-0.53%	-0.88%	-0.93%	-0.70%	-1.01%	-1.02%	-0.84%	-0.69%	-0.97%	-0.65%	-0.49%
> 5/8" Meter		1.56%	-0.16%	-0.08%	-0.16%	0.31%	0.16%	0.31%	0.43%	0.67%	0.31%	0.23%
Total General Service (Industrial)		0.47%	-0.52%	-0.51%	-0.43%	-0.35%	-0.43%	-0.26%	-0.12%	-0.14%	-0.16%	-0.12%
General Service (Public Utilities)												
5/8" Meter		14.19%	14.87%	10.35%	9.34%	6.38%	4.18%	2.32%	3.38%	3.01%	1.95%	1.44%
> 5/8" Meter		6.22%	3.97%	4.14%	3.43%	3.93%	4.91%	6.25%	7.24%	6.18%	4.05%	2.64%
Total General Service (Public Utilities)		9.06%	7.94%	6.51%	5.69%	4.89%	4.62%	4.61%	5.67%	4.89%	3.21%	2.17%
General Service (Excluding Senior Citizens)												
5/8" Meter		0.38%	0.13%	0.35%	0.44%	0.48%	0.30%	0.68%	0.90%	0.64%	0.54%	0.41%
> 5/8" Meter		9.34%	8.88%	9.16%	9.21%	9.19%	8.84%	9.03%	9.46%	9.63%	7.50%	5.60%
Total General Service (excluding SC)		0.61%	0.38%	0.61%	0.72%	0.79%	0.62%	1.03%	1.29%	1.07%	0.89%	0.68%
General Service (Including Senior Citizens)												
5/8" Meter		0.53%	0.30%	0.45%	0.45%	0.44%	0.22%	0.55%	0.78%	0.53%	0.45%	0.34%
> 5/8" Meter		9.34%	8.88%	9.17%	9.21%	9.19%	8.84%	9.04%	9.46%	9.63%	7.49%	5.60%
Total General Service (including SC)		0.74%	0.53%	0.70%	0.72%	0.74%	0.54%	0.89%	1.15%	0.94%	0.79%	0.60%
PHA		-0.42%	-0.41%	-0.17%	0.35%	-0.46%	-0.65%	-0.74%	-0.90%	-1.15%	-0.97%	-0.73%
Charities & Schools		-3.88%	-4.68%	-5.27%	-5.58%	-5.06%	-4.44%	-4.82%	-4.51%	-4.68%	-4.41%	-3.33%
Hospital/University		-3.53%	-1.20%	-8.07%	-20.30%	-20.72%	-21.14%	-28.93%	-31.08%	-26.20%	-25.98%	-20.25%
Hand Billed		-2.46%	-3.10%	-3.38%	-3.26%	-2.44%	-1.60%	-1.72%	-1.18%	-1.20%	-1.20%	-0.91%
Scheduled		14.87%	8.45%	8.45%	10.76%	8.45%	14.87%	27.23%	34.08%	26.19%	21.67%	14.87%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		4.32%	6.70%	9.97%	10.35%	#N/A	-100.00%	-100.00%	-100.00%	-100.00%	#N/A	#N/A
Sewer Only		6.49%	0.00%	-1.89%	-4.24%	0.65%	0.00%	1.32%	0.98%	0.32%	0.00%	0.00%
Groundwater (Non-City)		-4.36%	0.00%	2.00%	9.63%	3.13%	4.56%	0.00%	2.51%	1.03%	1.39%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		0.70%	0.49%	0.65%	0.67%	0.68%	0.49%	0.83%	1.09%	0.89%	0.75%	0.57%

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Sewer - Billed Volume (Mcf)												**Customer - 12**
Senior Citizens												
5/8" Meter		123,382	129,835	129,679	127,022	123,701	121,917	120,060	118,229	116,422	116,422	116,422
> 5/8" Meter		50	51	63	89	76	89	103	118	135	135	135
Total Senior Citizens		123,432	129,887	129,742	127,110	123,777	122,006	120,163	118,347	116,557	116,557	116,557
General Service (Residential)												
5/8" Meter		2,731,078	2,647,063	2,634,792	2,682,204	2,649,442	2,651,709	2,654,037	2,656,257	2,658,367	2,640,961	2,623,555
> 5/8" Meter		355,995	355,520	362,887	385,799	392,373	405,392	418,911	432,873	447,361	447,361	447,361
Total General Service (Residential)		3,087,073	3,002,583	2,997,679	3,068,002	3,041,815	3,057,101	3,072,948	3,089,130	3,105,728	3,088,322	3,070,916
General Service (Commercial)												
5/8" Meter		305,458	295,133	277,490	278,264	288,891	286,769	284,700	282,637	280,577	280,577	280,577
> 5/8" Meter		1,231,197	1,203,265	1,273,212	1,242,739	1,360,086	1,399,500	1,307,592	1,345,497	1,384,442	1,384,442	1,384,442
Total General Service (Commercial)		1,536,655	1,498,398	1,550,702	1,521,003	1,648,977	1,686,269	1,592,292	1,628,134	1,665,019	1,665,019	1,665,019
General Service (Industrial)												
5/8" Meter		6,466	6,667	6,974	6,016	6,315	6,207	6,103	5,999	5,897	5,897	5,897
> 5/8" Meter		72,168	90,363	76,379	73,776	77,281	62,582	50,525	40,639	32,526	32,526	32,526
Total General Service (Industrial)		78,633	97,029	83,353	79,792	83,596	68,789	56,628	46,638	38,423	38,423	38,423
General Service (Public Utilities)												
5/8" Meter		736	621	492	369	416	365	320	281	247	247	247
> 5/8" Meter		8,885	8,307	9,004	8,899	9,418	9,863	10,288	10,768	10,565	10,565	10,565
Total General Service (Public Utilities)		9,621	8,927	9,496	9,268	9,834	10,228	10,608	11,049	10,812	10,812	10,812
General Service (Excluding Senior Citizens)												
5/8" Meter		3,043,737	2,949,484	2,919,747	2,966,852	2,945,064	2,945,050	2,945,160	2,945,174	2,945,088	2,927,682	2,910,276
> 5/8" Meter		1,668,245	1,657,454	1,721,482	1,711,212	1,839,158	1,877,337	1,787,316	1,829,777	1,874,894	1,874,894	1,874,894
Total General Service (excluding SC)		4,711,982	4,606,937	4,641,229	4,678,064	4,784,222	4,822,387	4,732,476	4,774,951	4,819,982	4,802,576	4,785,170
General Service (Including Senior Citizens)												
5/8" Meter		3,167,119	3,079,319	3,049,426	3,093,873	3,068,765	3,066,967	3,065,220	3,063,403	3,061,510	3,044,104	3,026,698
> 5/8" Meter		1,668,295	1,657,505	1,721,545	1,711,301	1,839,234	1,877,426	1,787,419	1,829,895	1,875,029	1,875,029	1,875,029
Total General Service (including SC)		4,835,414	4,736,824	4,770,971	4,805,174	4,907,999	4,944,393	4,852,639	4,893,298	4,936,539	4,919,133	4,901,727
PHA		158,037	157,280	140,593	145,274	154,628	153,741	152,867	151,997	151,131	151,131	151,131
Charities & Schools		160,960	156,683	136,036	112,415	136,828	130,706	124,850	119,245	113,918	113,918	113,918
Hospital/University		252,634	286,421	228,018	93,671	104,226	74,165	52,941	37,979	27,265	27,265	27,265
Hand Billed		395,072	418,857	416,662	377,927	387,193	407,188	427,919	449,408	471,673	471,673	471,673
Scheduled		13	13	36	38	32	46	62	88	117	117	117
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
Fire Service		7,533	8,387	9,485	9,989	98	100	100	100	100	100	100
Sewer Only		75,697	66,411	58,838	58,104	64,606	60,516	150,516	150,516	150,516	150,516	150,516
Groundwater (Non-City)		209,117	231,240	227,148	207,434	200,507	211,696	211,696	211,696	211,696	211,696	211,696
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
Total		6,094,477	6,062,116	5,987,787	5,810,026	5,956,117	5,982,551	5,973,590	6,014,327	6,062,955	6,045,549	6,028,143

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Sewer - Billed Volume Per Account (Mcf/Account)												**Customer - 13**
Senior Citizens												
5/8" Meter		5.37	5.54	5.71	5.72	5.61	5.65	5.68	5.71	5.74	5.74	5.74
> 5/8" Meter		9.98	7.34	7.93	11.06	6.94	7.42	7.92	8.43	9.00	9.00	9.00
Total Senior Citizens		5.37	5.54	5.71	5.72	5.62	5.65	5.68	5.71	5.74	5.74	5.74
General Service (Residential)												
5/8" Meter		6.54	6.42	6.42	6.40	6.29	6.25	6.21	6.17	6.13	6.09	6.05
> 5/8" Meter		52.67	45.52	41.05	38.86	34.41	31.35	28.61	26.13	23.90	23.90	23.90
Total General Service (Residential)		7.28	7.15	7.15	7.15	7.03	6.99	6.95	6.91	6.86	6.82	6.78
General Service (Commercial)												
5/8" Meter		10.86	10.53	10.02	9.95	10.35	10.29	10.22	10.16	10.10	10.10	10.10
> 5/8" Meter		162.81	154.80	160.37	148.42	154.07	151.56	135.40	133.24	131.14	131.14	131.14
Total General Service (Commercial)		43.04	41.85	43.51	41.85	44.87	45.43	42.46	42.95	43.44	43.44	43.44
General Service (Industrial)												
5/8" Meter		12.43	13.05	13.86	11.89	12.68	12.56	12.46	12.34	12.23	12.23	12.23
> 5/8" Meter		141.23	177.53	150.35	146.38	150.65	121.52	97.73	78.30	62.43	62.43	62.43
Total General Service (Industrial)		76.27	95.13	82.45	79.00	82.69	68.18	56.23	46.41	38.31	38.31	38.31
General Service (Public Utilities)												
5/8" Meter		11.15	8.39	6.83	4.91	5.27	4.51	3.86	3.31	2.84	2.84	2.84
> 5/8" Meter		92.55	86.53	91.88	86.40	82.61	80.84	79.14	77.47	76.01	76.01	76.01
Total General Service (Public Utilities)		59.39	52.51	55.86	52.06	50.95	50.38	49.80	49.33	47.84	47.84	47.84
General Service (Excluding Senior Citizens)												
5/8" Meter		6.82	6.69	6.65	6.62	6.55	6.50	6.46	6.41	6.37	6.33	6.30
> 5/8" Meter		111.75	102.38	99.02	90.50	88.18	82.34	71.64	66.97	62.63	62.63	62.63
Total General Service (excluding SC)		10.22	10.08	10.17	10.02	10.16	10.14	9.84	9.82	9.79	9.76	9.72
General Service (Including Senior Citizens)												
5/8" Meter		6.75	6.63	6.61	6.58	6.50	6.46	6.42	6.38	6.34	6.31	6.27
> 5/8" Meter		111.72	102.34	98.98	90.47	88.13	82.30	71.61	66.94	62.60	62.60	62.60
Total General Service (including SC)		9.99	9.86	9.96	9.83	9.96	9.94	9.66	9.65	9.63	9.60	9.56
PHA		27.34	27.42	24.61	25.41	27.30	27.47	27.65	27.83	28.01	28.01	28.01
Charities & Schools		75.67	76.39	71.33	61.80	76.31	77.11	77.93	78.76	79.61	79.61	79.61
Hospital/University		828.31	811.39	805.72	683.73	772.04	797.47	827.20	863.16	908.83	908.83	908.83
Hand Billed		1,803.98	1,930.21	2,003.18	1,843.55	1,888.75	2,015.78	2,150.35	2,292.90	2,443.90	2,443.90	2,443.90
Scheduled		3.30	4.17	12.00	7.60	5.30	5.75	6.20	6.77	7.31	7.31	7.31
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
Fire Service		71.74	74.89	79.71	79.27	-	-	-	-	-	-	-
Sewer Only		1,201.54	1,125.62	980.63	937.16	1,025.48	960.57	2,389.14	2,389.14	2,389.14	2,389.14	2,389.14
Groundwater (Non-City)		52,279.20	46,248.00	51,429.74	43,670.32	42,965.72	42,339.20	42,339.20	42,339.20	42,339.20	42,339.20	42,339.20
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
Total		12.37	12.40	12.29	11.69	11.90	11.85	11.72	11.69	11.67	11.63	11.60

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Sewer - Billed Volume Per Account Growth												**Customer - 13A**
Annual Growth												
Senior Citizens												
5/8" Meter		0.37%	3.17%	3.07%	0.18%	-1.92%	0.71%	0.53%	0.53%	0.53%	0.00%	0.00%
> 5/8" Meter		51.21%	-26.45%	8.04%	39.47%	-37.25%	6.92%	6.74%	6.44%	6.76%	0.00%	0.00%
Total Senior Citizens		0.37%	3.17%	3.07%	0.18%	-1.75%	0.53%	0.53%	0.53%	0.53%	0.00%	0.00%
General Service (Residential)												
5/8" Meter		-2.82%	-1.83%	0.00%	-0.31%	-1.72%	-0.64%	-0.64%	-0.64%	-0.65%	-0.65%	-0.66%
> 5/8" Meter		-15.69%	-13.58%	-9.82%	-5.33%	-11.45%	-8.89%	-8.74%	-8.67%	-8.53%	0.00%	0.00%
Total General Service (Residential)		-2.93%	-1.79%	0.00%	0.00%	-1.68%	-0.57%	-0.57%	-0.58%	-0.72%	-0.58%	-0.59%
General Service (Commercial)												
5/8" Meter		-1.36%	-3.04%	-4.84%	-0.70%	4.02%	-0.58%	-0.68%	-0.59%	-0.59%	0.00%	0.00%
> 5/8" Meter		-2.13%	-4.92%	3.60%	-7.45%	3.81%	-1.63%	-10.66%	-1.60%	-1.58%	0.00%	0.00%
Total General Service (Commercial)		1.29%	-2.76%	3.97%	-3.82%	7.22%	1.25%	-6.54%	1.15%	1.14%	0.00%	0.00%
General Service (Industrial)												
5/8" Meter		8.75%	4.99%	6.21%	-14.21%	6.64%	-0.95%	-0.80%	-0.96%	-0.89%	0.00%	0.00%
> 5/8" Meter		-10.42%	25.70%	-15.31%	-2.64%	2.92%	-19.34%	-19.58%	-19.88%	-20.27%	0.00%	0.00%
Total General Service (Industrial)		-8.33%	24.73%	-13.33%	-4.18%	4.67%	-17.55%	-17.53%	-17.46%	-17.45%	0.00%	0.00%
General Service (Public Utilities)												
5/8" Meter		9.85%	-24.75%	-18.59%	-28.11%	7.33%	-14.42%	-14.41%	-14.25%	-14.20%	0.00%	0.00%
> 5/8" Meter		-32.83%	-6.50%	6.18%	-5.96%	-4.39%	-2.14%	-2.10%	-2.11%	-1.88%	0.00%	0.00%
Total General Service (Public Utilities)		-33.33%	-11.58%	6.38%	-6.80%	-2.13%	-1.12%	-1.15%	-0.94%	-3.02%	0.00%	0.00%
General Service (Excluding Senior Citizens)												
5/8" Meter		-2.71%	-1.91%	-0.60%	-0.45%	-1.06%	-0.76%	-0.62%	-0.77%	-0.62%	-0.63%	-0.47%
> 5/8" Meter		-8.13%	-8.38%	-3.28%	-8.60%	-2.56%	-6.62%	-12.99%	-6.52%	-6.48%	0.00%	0.00%
Total General Service (excluding SC)		-1.83%	-1.37%	0.89%	-1.47%	1.40%	-0.20%	-2.96%	-0.20%	-0.31%	-0.31%	-0.41%
General Service (Including Senior Citizens)												
5/8" Meter		-2.60%	-1.78%	-0.30%	-0.45%	-1.22%	-0.62%	-0.62%	-0.62%	-0.63%	-0.47%	-0.63%
> 5/8" Meter		-8.13%	-8.40%	-3.28%	-8.60%	-2.59%	-6.62%	-12.99%	-6.52%	-6.48%	0.00%	0.00%
Total General Service (including SC)		-1.77%	-1.30%	1.01%	-1.31%	1.32%	-0.20%	-2.82%	-0.10%	-0.21%	-0.31%	-0.42%
PHA		0.15%	0.29%	-10.25%	3.25%	7.44%	0.62%	0.66%	0.65%	0.65%	0.00%	0.00%
Charities & Schools		-0.51%	0.95%	-6.62%	-13.36%	23.48%	1.05%	1.06%	1.07%	1.08%	0.00%	0.00%
Hospital/University		18.43%	-2.04%	-0.70%	-15.14%	12.92%	3.29%	3.73%	4.35%	5.29%	0.00%	0.00%
Hand Billed		-5.87%	7.00%	3.78%	-7.97%	2.45%	6.73%	6.68%	6.63%	6.59%	0.00%	0.00%
Scheduled		-2.94%	26.36%	187.77%	-36.67%	-30.26%	8.49%	7.83%	9.19%	7.98%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		2.06%	4.39%	6.44%	-0.55%	-100.00%	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Sewer Only		-27.99%	-6.32%	-12.88%	-4.43%	9.42%	-6.33%	148.72%	0.00%	0.00%	0.00%	0.00%
Groundwater (Non-City)		1.45%	-11.54%	11.20%	-15.09%	-1.61%	-1.46%	0.00%	0.00%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		-3.89%	0.24%	-0.89%	-4.88%	1.80%	-0.42%	-1.10%	-0.26%	-0.17%	-0.34%	-0.26%

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Sewer - Billed Volume Per Account Growth												**Customer - 13A**
2-Year Average Growth												
Senior Citizens												
5/8" Meter		-1.28%	1.76%	3.12%	1.61%	-0.88%	-0.61%	0.62%	0.53%	0.53%	0.26%	0.00%
> 5/8" Meter		10.32%	5.46%	-10.86%	22.75%	-6.45%	-18.09%	6.83%	6.59%	6.60%	3.33%	0.00%
Total Senior Citizens		-1.28%	1.76%	3.12%	1.61%	-0.79%	-0.61%	0.53%	0.53%	0.53%	0.26%	0.00%
General Service (Residential)												
5/8" Meter		-1.93%	-2.33%	-0.92%	-0.16%	-1.02%	-1.18%	-0.64%	-0.64%	-0.65%	-0.65%	-0.65%
> 5/8" Meter		-15.67%	-14.64%	-11.72%	-7.60%	-8.44%	-10.18%	-8.82%	-8.70%	-8.60%	-4.36%	0.00%
Total General Service (Residential)		-1.87%	-2.36%	-0.90%	0.00%	-0.84%	-1.13%	-0.57%	-0.57%	-0.65%	-0.65%	-0.58%
General Service (Commercial)												
5/8" Meter		-1.92%	-2.20%	-3.95%	-2.79%	1.63%	1.69%	-0.63%	-0.63%	-0.59%	-0.30%	0.00%
> 5/8" Meter		-2.88%	-3.53%	-0.75%	-2.08%	-1.98%	1.05%	-6.25%	-6.24%	-1.59%	-0.79%	0.00%
Total General Service (Commercial)		0.08%	-0.76%	0.54%	0.00%	1.55%	4.19%	-2.72%	-2.77%	1.15%	0.57%	0.00%
General Service (Industrial)												
5/8" Meter		5.40%	6.85%	5.60%	-4.55%	-4.35%	2.78%	-0.87%	-0.88%	-0.93%	-0.45%	0.00%
> 5/8" Meter		-7.90%	6.11%	3.18%	-9.20%	0.10%	-8.89%	-19.46%	-19.73%	-20.07%	-10.71%	0.00%
Total General Service (Industrial)		-6.71%	6.93%	3.97%	-8.87%	0.15%	-7.10%	-17.54%	-17.50%	-17.46%	-9.14%	0.00%
General Service (Public Utilities)												
5/8" Meter		6.02%	-9.08%	-21.73%	-23.50%	-12.16%	-4.16%	-14.42%	-14.33%	-14.22%	-7.37%	0.00%
> 5/8" Meter		-12.46%	-20.75%	-0.36%	-0.08%	-5.18%	-3.27%	-2.12%	-2.11%	-2.00%	-0.95%	0.00%
Total General Service (Public Utilities)		-14.56%	-23.22%	-3.02%	-0.43%	-4.50%	-1.63%	-1.13%	-1.05%	-1.99%	-1.52%	0.00%
General Service (Excluding Senior Citizens)												
5/8" Meter		-1.92%	-2.31%	-1.25%	-0.52%	-0.75%	-0.91%	-0.69%	-0.69%	-0.70%	-0.63%	-0.55%
> 5/8" Meter		-8.59%	-8.26%	-5.87%	-5.98%	-5.63%	-4.61%	-9.87%	-9.81%	-6.50%	-3.29%	0.00%
Total General Service (excluding SC)		-1.39%	-1.60%	-0.24%	-0.30%	-0.05%	0.60%	-1.59%	-1.59%	-0.25%	-0.31%	-0.36%
General Service (Including Senior Citizens)												
5/8" Meter		-1.94%	-2.19%	-1.04%	-0.38%	-0.84%	-0.92%	-0.62%	-0.62%	-0.63%	-0.55%	-0.55%
> 5/8" Meter		-8.60%	-8.26%	-5.87%	-5.98%	-5.64%	-4.62%	-9.86%	-9.81%	-6.50%	-3.30%	0.00%
Total General Service (including SC)		-1.42%	-1.54%	-0.15%	-0.15%	0.00%	0.56%	-1.52%	-1.47%	-0.16%	-0.26%	-0.36%
PHA		-2.97%	0.22%	-5.12%	-3.73%	5.32%	3.97%	0.64%	0.65%	0.65%	0.32%	0.00%
Charities & Schools		1.24%	0.22%	-2.91%	-10.06%	3.43%	11.70%	1.06%	1.06%	1.07%	0.54%	0.00%
Hospital/University		8.31%	7.71%	-1.37%	-8.20%	-2.11%	8.00%	3.51%	4.04%	4.82%	2.61%	0.00%
Hand Billed		-1.01%	0.36%	5.38%	-2.27%	-2.90%	4.57%	6.70%	6.65%	6.61%	3.24%	0.00%
Scheduled		-21.31%	10.75%	90.69%	35.00%	-33.54%	-13.02%	8.16%	8.51%	8.58%	3.91%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		-7.05%	3.22%	5.41%	2.88%	-100.00%	-100.00%	#N/A	#N/A	#N/A	#N/A	#N/A
Sewer Only		5.20%	-17.87%	-9.66%	-8.75%	2.26%	1.24%	52.64%	57.71%	0.00%	0.00%	0.00%
Groundwater (Non-City)		-13.92%	-5.27%	-0.82%	-2.83%	-8.60%	-1.54%	-0.73%	0.00%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		-2.42%	-1.84%	-0.32%	-2.91%	-1.60%	0.68%	-0.76%	-0.68%	-0.21%	-0.26%	-0.30%

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Sewer - Billed Volume Per Account Growth												**Customer - 13A**
3-Year Average Growth												
Senior Citizens												
5/8" Meter		-2.20%	0.18%	2.19%	2.13%	0.42%	-0.35%	-0.23%	0.59%	0.53%	0.35%	0.17%
> 5/8" Meter		2.02%	-3.63%	6.31%	3.48%	-1.85%	-2.19%	-10.53%	6.70%	6.65%	4.35%	2.20%
Total Senior Citizens		-2.20%	0.18%	2.19%	2.13%	0.48%	-0.35%	-0.23%	0.53%	0.53%	0.35%	0.17%
General Service (Residential)												
5/8" Meter		-2.61%	-1.90%	-1.56%	-0.72%	-0.68%	-0.89%	-1.00%	-0.64%	-0.64%	-0.65%	-0.65%
> 5/8" Meter		-16.29%	-14.98%	-13.06%	-9.64%	-8.91%	-8.59%	-9.70%	-8.77%	-8.65%	-5.82%	-2.93%
Total General Service (Residential)		-2.65%	-1.84%	-1.58%	-0.60%	-0.56%	-0.75%	-0.94%	-0.57%	-0.62%	-0.63%	-0.63%
General Service (Commercial)												
5/8" Meter		-2.48%	-2.30%	-3.09%	-2.87%	-0.57%	0.89%	0.90%	-0.62%	-0.62%	-0.39%	-0.20%
> 5/8" Meter		-2.74%	-3.56%	-1.21%	-3.04%	-0.16%	-1.87%	-3.01%	-4.73%	-4.71%	-1.06%	-0.53%
Total General Service (Commercial)		-0.41%	-0.88%	0.79%	-0.93%	2.35%	1.45%	0.48%	-1.45%	-1.48%	0.76%	0.38%
General Service (Industrial)												
5/8" Meter		1.92%	5.26%	6.64%	-1.47%	-0.95%	-3.23%	1.57%	-0.90%	-0.88%	-0.62%	-0.30%
> 5/8" Meter		-2.86%	2.16%	-1.57%	1.20%	-5.33%	-6.85%	-12.60%	-19.60%	-19.91%	-13.88%	-7.27%
Total General Service (Industrial)		-2.28%	2.77%	-0.30%	1.18%	-4.56%	-6.14%	-10.71%	-17.51%	-17.48%	-12.01%	-6.19%
General Service (Public Utilities)												
5/8" Meter		7.56%	-5.43%	-12.37%	-23.92%	-14.36%	-12.92%	-7.71%	-14.36%	-14.29%	-9.72%	-4.98%
> 5/8" Meter		-10.47%	-10.52%	-12.64%	-2.27%	-1.53%	-4.18%	-2.88%	-2.12%	-2.03%	-1.34%	-0.63%
Total General Service (Public Utilities)		-11.74%	-13.58%	-14.41%	-4.30%	-1.00%	-3.38%	-1.47%	-1.07%	-1.71%	-1.33%	-1.02%
General Service (Excluding Senior Citizens)												
5/8" Meter		-2.64%	-1.92%	-1.74%	-0.99%	-0.70%	-0.76%	-0.81%	-0.72%	-0.67%	-0.68%	-0.58%
> 5/8" Meter		-8.32%	-8.52%	-6.63%	-6.79%	-4.86%	-5.96%	-7.49%	-8.76%	-8.72%	-4.38%	-2.21%
Total General Service (excluding SC)		-2.06%	-1.38%	-0.77%	-0.66%	0.26%	-0.10%	-0.60%	-1.13%	-1.16%	-0.27%	-0.34%
General Service (Including Senior Citizens)												
5/8" Meter		-2.67%	-1.89%	-1.56%	-0.85%	-0.66%	-0.76%	-0.82%	-0.62%	-0.62%	-0.57%	-0.58%
> 5/8" Meter		-8.32%	-8.53%	-6.63%	-6.79%	-4.86%	-5.97%	-7.50%	-8.76%	-8.72%	-4.38%	-2.21%
Total General Service (including SC)		-2.14%	-1.38%	-0.69%	-0.54%	0.34%	-0.07%	-0.58%	-1.05%	-1.05%	-0.21%	-0.31%
PHA		-4.05%	-1.90%	-3.40%	-2.41%	-0.15%	3.73%	2.86%	0.64%	0.65%	0.43%	0.22%
Charities & Schools		-0.28%	1.14%	-2.12%	-6.53%	-0.03%	2.63%	8.04%	1.06%	1.07%	0.71%	0.36%
Hospital/University		9.39%	4.74%	4.83%	-6.19%	-1.64%	-0.34%	6.56%	3.79%	4.45%	3.19%	1.73%
Hand Billed		-3.62%	1.59%	1.49%	0.73%	-0.72%	0.21%	5.27%	6.68%	6.63%	4.36%	2.15%
Scheduled		-31.68%	-7.86%	52.25%	32.06%	8.32%	-21.75%	-6.56%	8.50%	8.33%	5.64%	2.59%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		25.83%	-3.38%	4.28%	3.38%	-100.00%	-100.00%	-100.00%	#N/A	#N/A	#N/A	#N/A
Sewer Only		4.10%	1.21%	-16.24%	-7.95%	-3.06%	-0.69%	36.61%	32.57%	35.49%	0.00%	0.00%
Groundwater (Non-City)		-8.90%	-13.14%	-0.07%	-5.82%	-2.42%	-6.28%	-1.03%	-0.49%	0.00%	0.00%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		-3.13%	-1.54%	-1.53%	-1.87%	-1.36%	-1.21%	0.09%	-0.59%	-0.51%	-0.26%	-0.26%

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Sewer - Billed Volume Per Account Growth												**Customer - 13A**
5-Year Average Growth												
Senior Citizens												
5/8" Meter		-1.25%	-0.32%	-0.10%	0.75%	0.95%	1.02%	0.50%	0.00%	0.07%	0.46%	0.32%
> 5/8" Meter		-11.25%	-9.36%	-3.34%	6.17%	1.01%	-5.76%	1.53%	1.23%	-4.04%	5.34%	3.94%
Total Senior Citizens		-1.29%	-0.32%	-0.10%	0.75%	0.99%	1.02%	0.50%	0.00%	0.07%	0.42%	0.32%
General Service (Residential)												
5/8" Meter		-2.31%	-1.91%	-1.94%	-1.21%	-1.34%	-0.90%	-0.66%	-0.79%	-0.86%	-0.64%	-0.65%
> 5/8" Meter		-16.62%	-15.37%	-14.49%	-12.10%	-11.24%	-9.86%	-8.87%	-8.64%	-9.26%	-7.03%	-5.28%
Total General Service (Residential)		-2.38%	-1.95%	-1.95%	-1.11%	-1.29%	-0.81%	-0.57%	-0.68%	-0.82%	-0.60%	-0.61%
General Service (Commercial)												
5/8" Meter		-1.46%	-1.44%	-3.07%	-2.50%	-1.23%	-1.07%	-0.60%	0.28%	0.30%	-0.49%	-0.37%
> 5/8" Meter		-2.59%	-1.87%	-1.95%	-2.97%	-1.52%	-1.42%	-2.64%	-3.64%	-2.45%	-3.17%	-2.85%
Total General Service (Commercial)		-0.15%	0.29%	-0.03%	-0.53%	1.10%	1.09%	0.29%	-0.26%	0.75%	-0.65%	-0.89%
General Service (Industrial)												
5/8" Meter		2.97%	4.07%	3.38%	1.22%	2.10%	0.21%	-0.92%	-2.30%	0.57%	-0.72%	-0.53%
> 5/8" Meter		-2.89%	2.99%	-0.49%	-2.54%	-0.91%	-2.96%	-11.25%	-12.23%	-15.67%	-16.15%	-12.47%
Total General Service (Industrial)		-1.56%	3.39%	0.18%	-2.05%	-0.12%	-2.22%	-9.98%	-10.86%	-13.48%	-14.26%	-10.89%
General Service (Public Utilities)												
5/8" Meter		-3.89%	-6.03%	-5.28%	-13.12%	-12.29%	-16.56%	-14.38%	-13.49%	-10.37%	-11.63%	-8.83%
> 5/8" Meter		-4.95%	-3.30%	-6.56%	-6.48%	-9.73%	-2.67%	-1.77%	-3.35%	-2.53%	-1.65%	-1.22%
Total General Service (Public Utilities)		-6.94%	-6.46%	-8.35%	-8.54%	-10.57%	-3.24%	-1.05%	-2.46%	-1.68%	-1.25%	-1.03%
General Service (Excluding Senior Citizens)												
5/8" Meter		-2.22%	-1.84%	-2.09%	-1.36%	-1.35%	-0.96%	-0.70%	-0.73%	-0.77%	-0.68%	-0.62%
> 5/8" Meter		-7.78%	-7.03%	-7.35%	-7.52%	-6.23%	-5.93%	-6.89%	-7.52%	-7.10%	-6.61%	-5.33%
Total General Service (excluding SC)		-1.53%	-1.09%	-1.34%	-0.95%	-0.48%	-0.16%	-0.48%	-0.70%	-0.46%	-0.80%	-0.84%
General Service (Including Senior Citizens)												
5/8" Meter		-2.22%	-1.83%	-2.02%	-1.29%	-1.27%	-0.87%	-0.64%	-0.71%	-0.74%	-0.59%	-0.60%
> 5/8" Meter		-7.77%	-7.03%	-7.35%	-7.52%	-6.24%	-5.93%	-6.89%	-7.52%	-7.10%	-6.61%	-5.33%
Total General Service (including SC)		-1.58%	-1.14%	-1.35%	-0.89%	-0.42%	-0.10%	-0.41%	-0.63%	-0.41%	-0.73%	-0.78%
PHA		-0.67%	-0.66%	-4.48%	-2.64%	0.00%	0.09%	0.17%	2.49%	1.97%	0.51%	0.39%
Charities & Schools		-1.84%	-1.17%	-1.34%	-3.49%	0.07%	0.38%	0.40%	2.00%	5.20%	0.85%	0.64%
Hospital/University		2.91%	3.01%	4.95%	-0.64%	2.00%	-0.76%	0.39%	1.39%	5.86%	3.32%	2.65%
Hand Billed		-3.24%	-1.35%	-0.12%	0.03%	-0.29%	2.25%	2.18%	2.74%	5.80%	5.29%	3.93%
Scheduled		-15.81%	-17.63%	3.00%	7.35%	9.28%	11.75%	8.26%	-10.82%	-0.78%	6.64%	4.92%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Fire Service		-9.17%	15.19%	17.22%	-0.92%	#N/A	-100.00%	-100.00%	-100.00%	-100.00%	#N/A	#N/A
Sewer Only		-0.64%	-2.83%	-1.64%	-2.90%	-9.28%	-4.38%	16.24%	19.49%	20.58%	18.43%	19.99%
Groundwater (Non-City)		10.12%	7.93%	-5.75%	-9.15%	-3.57%	-4.13%	-1.75%	-3.82%	-0.62%	-0.29%	0.00%
xxxxxxxxxx		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Total		-1.82%	-1.20%	-2.02%	-2.09%	-1.55%	-0.86%	-1.12%	-1.00%	-0.03%	-0.46%	-0.43%

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Sewer - Existing Rates												**Customer - 14**
Actual Rate												
Service Charge ($/bill)												
5/8"		7.41	7.04	7.01	7.01	7.20	7.50	7.50	7.50	7.50	7.50	7.50
3/4"		9.08	8.95	8.93	8.93	9.16	9.57	9.57	9.57	9.57	9.57	9.57
1"		12.84	13.06	13.07	13.07	13.40	14.05	14.05	14.05	14.05	14.05	14.05
1 1/4"		17.61	18.33	18.37	18.37	18.81	19.77	19.77	19.77	19.77	19.77	19.77
1 1/2"		21.63	22.89	22.97	22.97	23.50	24.75	24.75	24.75	24.75	24.75	24.75
2"		32.90	35.25	35.42	35.42	36.22	38.19	38.19	38.19	38.19	38.19	38.19
3"		58.40	63.46	63.82	63.82	65.25	68.87	68.87	68.87	68.87	68.87	68.87
4"		100.05	107.93	108.49	108.49	110.93	117.03	117.03	117.03	117.03	117.03	117.03
6"		196.03	212.60	213.81	213.81	218.57	230.71	230.71	230.71	230.71	230.71	230.71
8"		308.78	336.27	338.27	338.27	345.77	365.13	365.13	365.13	365.13	365.13	365.13
10"		446.41	485.42	488.25	488.25	499.09	526.96	526.96	526.96	526.96	526.96	526.96
12"		801.99	881.42	887.22	887.22	906.63	958.27	958.27	958.27	958.27	958.27	958.27
14"		-	-	-	-	-	-	-	-	-	-	-
Volume Charge ($/Mcf)												
0 - 2 Mcf		32.46	30.82	31.25	31.25	32.61	34.57	34.57	34.57	34.57	34.57	34.57
2 - 100 Mcf		32.46	30.82	31.25	31.25	32.61	34.57	34.57	34.57	34.57	34.57	34.57
100 - 2,000 Mcf		32.46	30.82	31.25	31.25	32.61	34.57	34.57	34.57	34.57	34.57	34.57
Over 2,000 Mcf		32.46	30.82	31.25	31.25	32.61	34.57	34.57	34.57	34.57	34.57	34.57
Groundwater Volume Charge ($/Mcf)		11.93	13.76	13.86	13.86	11.91	12.58	12.58	12.58	12.58	12.58	12.58
Effective Rate												
Effective Months												
Service Charge		12.00	10.00	10.00	9.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Volume Charge		11.50	9.50	9.50	8.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50
Service Charge ($/bill)												
5/8"		7.41	7.10	7.02	7.01	7.17	7.45	7.50	7.50	7.50	7.50	7.50
3/4"		9.08	8.97	8.93	8.93	9.12	9.50	9.57	9.57	9.57	9.57	9.57
1"		12.84	13.02	13.07	13.07	13.35	13.94	14.05	14.05	14.05	14.05	14.05
1 1/4"		17.61	18.21	18.36	18.37	18.74	19.61	19.77	19.77	19.77	19.77	19.77
1 1/2"		21.63	22.68	22.96	22.97	23.41	24.54	24.75	24.75	24.75	24.75	24.75
2"		32.90	34.86	35.39	35.42	36.09	37.86	38.19	38.19	38.19	38.19	38.19
3"		58.40	62.62	63.76	63.82	65.01	68.27	68.87	68.87	68.87	68.87	68.87
4"		100.05	106.62	108.40	108.49	110.52	116.01	117.03	117.03	117.03	117.03	117.03
6"		196.03	209.84	213.61	213.81	217.78	228.69	230.71	230.71	230.71	230.71	230.71
8"		308.78	331.69	337.94	338.27	344.52	361.90	365.13	365.13	365.13	365.13	365.13
10"		446.41	478.92	487.78	488.25	497.28	522.32	526.96	526.96	526.96	526.96	526.96
12"		801.99	868.18	886.25	887.22	903.40	949.66	958.27	958.27	958.27	958.27	958.27
14"		-	-	-	-	-	-	-	-	-	-	-
Volume Charge ($/Mcf)												
0 - 2 Mcf		32.38	31.16	31.16	31.25	32.33	34.16	34.57	34.57	34.57	34.57	34.57
2 - 100 Mcf		32.38	31.16	31.16	31.25	32.33	34.16	34.57	34.57	34.57	34.57	34.57
100 - 2,000 Mcf		32.38	31.16	31.16	31.25	32.33	34.16	34.57	34.57	34.57	34.57	34.57
Over 2,000 Mcf		32.38	31.16	31.16	31.25	32.33	34.16	34.57	34.57	34.57	34.57	34.57
Groundwater Volume Charge ($/Mcf)		11.90	13.38	13.84	13.86	12.32	12.44	12.58	12.58	12.58	12.58	12.58

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Sewer - Calculated Billings (prior to adjustment factor)												**Customer - 15**
Senior Citizens												
5/8" Meter		4,529	4,533	4,465	4,377	4,421	4,571	4,540	4,463	4,388	4,388	4,388
> 5/8" Meter		2	2	3	3	3	4	4	5	5	5	5
Total Senior Citizens		4,531	4,535	4,468	4,381	4,424	4,574	4,544	4,468	4,393	4,393	4,393
General Service (Residential)												
5/8" Meter		125,563	117,617	116,669	119,089	121,896	128,536	130,235	130,594	130,952	130,350	129,748
> 5/8" Meter		13,296	13,004	13,338	14,208	15,018	16,442	17,266	17,939	18,651	18,651	18,651
Total General Service (Residential)		138,859	130,620	130,007	133,297	136,914	144,978	147,501	148,532	149,603	149,001	148,399
General Service (Commercial)												
5/8" Meter		12,393	11,586	10,979	11,048	11,741	12,289	12,348	12,273	12,199	12,199	12,199
> 5/8" Meter		43,489	41,363	43,600	42,865	48,150	52,269	49,778	51,168	52,597	52,597	52,597
Total General Service (Commercial)		55,882	52,949	54,578	53,913	59,891	64,559	62,126	63,441	64,796	64,796	64,796
General Service (Industrial)												
5/8" Meter		256	251	260	231	247	256	255	251	247	247	247
> 5/8" Meter		2,521	3,008	2,574	2,499	2,696	2,345	1,956	1,614	1,333	1,333	1,333
Total General Service (Industrial)		2,776	3,259	2,833	2,729	2,943	2,601	2,211	1,865	1,580	1,580	1,580
General Service (Public Utilities)												
5/8" Meter		30	26	21	18	20	20	19	17	16	16	16
> 5/8" Meter		340	317	340	340	373	413	436	457	451	451	451
Total General Service (Public Utilities)		370	343	361	358	394	433	455	475	467	467	467
General Service (Excluding Senior Citizens)												
5/8" Meter		138,241	129,479	127,929	130,386	133,904	141,101	142,856	143,136	143,414	142,812	142,210
> 5/8" Meter		59,646	57,692	59,851	59,912	66,237	71,470	69,436	71,178	73,032	73,032	73,032
Total General Service (excluding SC)		197,887	187,172	187,780	190,298	200,141	212,571	212,293	214,313	216,446	215,845	215,243
General Service (Including Senior Citizens)												
5/8" Meter		142,769	134,012	132,394	134,763	138,324	145,672	147,396	147,599	147,802	147,200	146,598
> 5/8" Meter		59,648	57,695	59,853	59,916	66,241	71,474	69,440	71,182	73,038	73,038	73,038
Total General Service (including SC)		202,418	191,706	192,247	194,679	204,565	217,146	216,837	218,781	220,839	220,237	219,636
PHA		5,509	5,292	4,793	4,944	5,388	5,648	5,675	5,639	5,603	5,603	5,603
Charities & Schools		4,550	4,313	3,793	3,220	3,906	3,932	3,793	3,617	3,450	3,450	3,450
Hospital/University		6,355	6,965	5,550	2,303	2,634	1,978	1,427	1,022	732	732	732
Hand Billed		13,026	13,299	13,224	12,048	12,759	14,161	15,042	15,781	16,547	16,547	16,547
Scheduled		1	1	1	2	2	2	3	4	5	5	5
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
Fire Service		244	261	296	312	3	3	3	3	3	3	3
Sewer Only		2,475	2,093	1,858	1,841	2,114	2,094	5,231	5,231	5,231	5,231	5,231
Groundwater (Non-City)		2,489	3,094	3,144	2,875	2,469	2,634	2,663	2,663	2,663	2,663	2,663
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
Total		237,067	227,024	224,905	222,223	233,840	247,598	250,674	252,742	255,074	254,472	253,871

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Sewer - Retail - Billings Under Existing Rates												**Customer - 16**
Senior Citizens												
5/8" Meter		4,529	4,533	4,465	4,377	4,421	4,571	4,540	4,463	4,388	4,388	4,388
> 5/8" Meter		2	2	3	3	3	4	4	5	5	5	5
Total Senior Citizens		4,531	4,535	4,468	4,381	4,424	4,574	4,544	4,468	4,393	4,393	4,393
General Service (Residential)												
5/8" Meter		125,563	117,617	116,669	119,089	121,896	128,536	130,235	130,594	130,952	130,350	129,748
> 5/8" Meter		13,296	13,004	13,338	14,208	15,018	16,442	17,266	17,939	18,651	18,651	18,651
Total General Service (Residential)		138,859	130,620	130,007	133,297	136,914	144,978	147,501	148,532	149,603	149,001	148,399
General Service (Commercial)												
5/8" Meter		12,393	11,586	10,979	11,048	11,741	12,289	12,348	12,273	12,199	12,199	12,199
> 5/8" Meter		43,489	41,363	43,600	42,865	48,150	52,269	49,778	51,168	52,597	52,597	52,597
Total General Service (Commercial)		55,882	52,949	54,578	53,913	59,891	64,559	62,126	63,441	64,796	64,796	64,796
General Service (Industrial)												
5/8" Meter		256	251	260	231	247	256	255	251	247	247	247
> 5/8" Meter		2,521	3,008	2,574	2,499	2,696	2,345	1,956	1,614	1,333	1,333	1,333
Total General Service (Industrial)		2,776	3,259	2,833	2,729	2,943	2,601	2,211	1,865	1,580	1,580	1,580
General Service (Public Utilities)												
5/8" Meter		30	26	21	18	20	20	19	17	16	16	16
> 5/8" Meter		340	317	340	340	373	413	436	457	451	451	451
Total General Service (Public Utilities)		370	343	361	358	394	433	455	475	467	467	467
General Service (Excluding Senior Citizens)												
5/8" Meter		138,241	129,479	127,929	130,386	133,904	141,101	142,856	143,136	143,414	142,812	142,210
> 5/8" Meter		59,646	57,692	59,851	59,912	66,237	71,470	69,436	71,178	73,032	73,032	73,032
Total General Service (excluding SC)		197,887	187,172	187,780	190,298	200,141	212,571	212,293	214,313	216,446	215,845	215,243
General Service (Including Senior Citizens)												
5/8" Meter		142,769	134,012	132,394	134,763	138,324	145,672	147,396	147,599	147,802	147,200	146,598
> 5/8" Meter		59,648	57,695	59,853	59,916	66,241	71,474	69,440	71,182	73,038	73,038	73,038
Total General Service (including SC)		202,418	191,706	192,247	194,679	204,565	217,146	216,837	218,781	220,839	220,237	219,636
PHA		5,509	5,292	4,793	4,944	5,388	5,648	5,675	5,639	5,603	5,603	5,603
Charities & Schools		4,550	4,313	3,793	3,220	3,906	3,932	3,793	3,617	3,450	3,450	3,450
Hospital/University		6,355	6,965	5,550	2,303	2,634	1,978	1,427	1,022	732	732	732
Hand Billed		13,026	13,299	13,224	12,048	12,759	14,161	15,042	15,781	16,547	16,547	16,547
Scheduled		1	1	1	2	2	2	3	4	5	5	5
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
Fire Service		244	261	296	312	3	3	3	3	3	3	3
Sewer Only		2,475	2,093	1,858	1,841	2,114	2,094	5,231	5,231	5,231	5,231	5,231
Groundwater (non-City)		2,489	3,094	3,144	2,875	2,469	2,634	2,663	2,663	2,663	2,663	2,663
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
Total		237,067	227,024	224,905	222,223	233,840	247,598	250,674	252,742	255,074	254,472	253,871
Total Excluding xxxxxxxxxx & Fire		236,823	226,763	224,610	221,911	233,837	247,594	250,671	252,738	255,071	254,469	253,867

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Sewer - Retail - Collections												**Customer - 17**
Total General Service Billings Excluding xxxxxxxxxx & Fire		236,823	226,763	224,610	221,911	233,837	247,594	250,671	252,738	255,071	254,469	253,867
Total General Service Billings Excluding Fire		236,823	226,763	224,610	221,911	233,837	247,594	250,671	252,738	255,071	254,469	253,867
Collection Factors												
Current Year		87.89%	86.87%	84.76%	84.62%	84.13%	84.65%	84.65%	84.65%	84.65%	84.65%	84.65%
First Year Prior		8.17%	8.36%	8.89%	8.54%	10.49%	10.29%	10.29%	10.29%	10.29%	10.29%	10.29%
Second Year Prior		1.90%	1.90%	1.94%	1.92%	2.04%	2.04%	2.04%	2.04%	2.04%	2.04%	2.04%
Collections		Actual	Actual	Actual	Actual	Actual	Calc					
General Service		245,907	231,260	223,036	217,781	236,010	238,190	242,453	244,801	247,051	246,824	246,300
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
Fire Protection		-	-	-	-	-	3	3	3	3	3	3
Total		245,907	231,260	223,036	217,781	236,010	238,193	242,457	244,804	247,054	246,827	246,303
General Service Calculated		221,935	212,383	215,133	211,317	224,584	238,190	242,453	244,801	247,051	246,824	246,300
Actual		245,907	231,260	223,036	217,781	236,010						
Ratio		90.3%	91.8%	96.5%	97.0%	95.2%						
Overall Annual Collection Rate												
Revenue / Billings		103.8%	102.0%	99.3%	98.1%	100.9%						
Collections - Detail												
Senior Citizens							4,417	4,408	4,343	4,271	4,262	4,261
General Service (Residential)							139,539	142,578	143,876	144,939	144,561	144,011
General Service (Commercial)							61,915	60,458	61,416	62,649	62,815	62,842
General Service (Industrial)							2,561	2,199	1,859	1,575	1,538	1,533
General Service (Public Utilities)							414	438	458	454	453	453
PHA							5,436	5,496	5,473	5,439	5,434	5,434
Charities & Schools							3,796	3,695	3,533	3,370	3,350	3,346
Hospital/University							1,993	1,465	1,052	754	716	710
Hand Billed							13,546	14,451	15,196	15,939	16,033	16,048
Scheduled							2	3	4	5	5	5
xxxxxxxxxx							-	-	-	-	-	-
xxxxxxxxxx							-	-	-	-	-	-
Fire Service							3	3	3	3	3	3
Sewer Only							2,028	4,687	5,009	5,073	5,073	5,073
Groundwater (non-City)							2,542	2,576	2,582	2,583	2,583	2,583
xxxxxxxxxx							-	-	-	-	-	-
Total		-	-	-	-	-	238,193	242,457	244,804	247,054	246,827	246,303

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Sewer - Surcharge												**Customer - 18**
Surcharge Accounts		70	71	69	68	69	69	69	69	69	69	69
Account Growth		3	1	(2)	(1)	1	-	-	-	-	-	-
Billed lbs												
BOD		12,878,229	12,021,359	12,809,991	14,320,119	14,020,908	13,842,348	13,842,348	13,842,348	13,842,348	13,842,348	13,842,348
SS		2,141,022	1,765,430	1,928,456	2,072,260	2,391,815	2,152,020	2,152,020	2,152,020	2,152,020	2,152,020	2,152,020
lbs per Account												
BOD		183,975	169,315	185,652	210,590	201,972	199,400	199,400	199,400	199,400	199,400	199,400
SS		30,586	24,865	27,949	30,474	34,454	31,000	31,000	31,000	31,000	31,000	31,000
Effective Rate ($/lb)												
BOD		0.372	0.389	0.397	0.397	0.381	0.387	0.391	0.391	0.391	0.391	0.391
SS		0.393	0.391	0.389	0.388	0.392	0.403	0.406	0.406	0.406	0.406	0.406
Surcharge Revenue												
BOD		4,791	4,679	5,079	5,685	5,335	5,357	5,412	5,412	5,412	5,412	5,412
SS		841	690	749	804	937	867	874	874	874	874	874
Total		5,632	5,369	5,828	6,489	6,272	6,224	6,286	6,286	6,286	6,286	6,286
Actual - Input		5,628	4,699	4,957	5,024	6,082	-					

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Sewer - Wholesale												**Customer - 19**
Abington												
Rates												
Volume ($/Mcf)		1.6303	1.7501	1.7675	1.7600	1.3846	1.2958	1.3079	1.3079	1.3079	1.3079	1.3079
Capacity ($/cfs)		12,295	12,654	12,669	12,634	11,186	11,009	11,111	11,111	11,111	11,111	11,111
SS ($/1,000 lbs.)		223.8752	219.5738	216.9025	216.4900	196.8090	195.6866	197.4992	197.4992	197.4992	197.4992	197.4992
BOD ($/1,000 lbs.)		250.2838	250.0185	250.5300	250.7300	222.5118	219.5584	221.7093	221.7093	221.7093	221.7093	221.7093
Annual Lump Sum ($)		595,000	589,750	587,250	587,000	682,250	714,750	603,000	603,000	603,000	603,000	603,000
Management Fee (%)		12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units												
Volume (Mcf)		94,740	98,164	89,131	95,624	90,821	91,859	91,859	91,859	91,859	91,859	91,859
Capacity (cfs)		9.542	9.542	9.542	9.542	9.542	9.542	9.542	9.542	9.542	9.542	9.542
SS (1,000 lbs.)		945	979	868	1,016	1,110	998	998	998	998	998	998
BOD (1,000 lbs.)		1,469	1,423	1,341	1,368	1,320	1,343	1,343	1,343	1,343	1,343	1,343
Billings												
Volume		154,454	171,797	157,539	168,298	125,751	119,031	120,142	120,142	120,142	120,142	120,142
Capacity		117,319	120,744	120,888	120,554	106,737	105,048	106,021	106,021	106,021	106,021	106,021
SS		211,663	214,868	188,167	219,991	218,391	195,253	197,061	197,061	197,061	197,061	197,061
BOD		367,652	355,864	335,896	342,961	293,820	294,871	297,760	297,760	297,760	297,760	297,760
Lump Sum		595,000	589,750	587,250	587,000	682,250	714,750	603,000	603,000	603,000	603,000	603,000
Management Fee		173,531	174,363	166,769	172,656	171,234	171,474	158,878	158,878	158,878	158,878	158,878
Total		1,619,618	1,627,387	1,556,508	1,611,460	1,598,183	1,600,427	1,482,863	1,482,863	1,482,863	1,482,863	1,482,863
Bensalem												
Rates												
Volume ($/Mcf)		1.6303	1.7501	1.7675	1.7600	1.3846	1.2958	1.3079	1.3079	1.3079	1.3079	1.3079
Capacity ($/cfs)		12,295	12,654	12,669	12,634	11,186	11,009	11,111	11,111	11,111	11,111	11,111
SS ($/1,000 lbs.)		223.8752	219.5738	216.9025	216.4900	196.8090	195.6866	197.4992	197.4992	197.4992	197.4992	197.4992
BOD ($/1,000 lbs.)		250.2838	250.0185	250.5300	250.7300	222.5118	219.5584	221.7093	221.7093	221.7093	221.7093	221.7093
Annual Lump Sum ($)		91,000	92,500	92,250	92,000	89,000	89,500	90,000	90,000	90,000	90,000	90,000
Management Fee (%)		10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Billing Units												
Volume (Mcf)		172,705	178,629	158,136	145,540	146,385	150,020	150,020	150,020	150,020	150,020	150,020
Capacity (cfs)		11.740	11.740	11.740	11.740	11.740	11.740	11.740	11.740	11.740	11.740	11.740
SS (1,000 lbs.)		2,269	1,666	1,558	1,517	1,628	1,568	1,568	1,568	1,568	1,568	1,568
BOD (1,000 lbs.)		2,756	1,640	1,654	1,574	1,640	1,623	1,623	1,623	1,623	1,623	1,623
Billings												
Volume		281,561	312,619	279,506	256,150	202,685	194,396	196,211	196,211	196,211	196,211	196,211
Capacity		144,343	148,558	148,734	148,323	131,324	129,246	130,443	130,443	130,443	130,443	130,443
SS		507,877	365,724	337,945	328,480	320,492	306,823	309,665	309,665	309,665	309,665	309,665
BOD		689,665	409,993	414,494	394,647	364,926	356,306	359,797	359,797	359,797	359,797	359,797
Lump Sum		91,000	92,500	92,250	92,000	89,000	89,500	90,000	90,000	90,000	90,000	90,000
Management Fee		171,445	132,939	127,293	121,960	110,843	107,627	108,612	108,612	108,612	108,612	108,612
Total		1,885,890	1,462,334	1,400,223	1,341,560	1,219,268	1,183,897	1,194,727	1,194,727	1,194,727	1,194,727	1,194,727

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Sewer - Wholesale												**Customer - 19**
Bucks County												
Rates												
Volume ($/Mcf)		1.6303	1.7501	1.7675	1.7600	1.3846	1.2958	1.3079	1.3079	1.3079	1.3079	1.3079
Capacity ($/cfs)		12,295	12,654	12,669	12,634	11,186	11,009	11,111	11,111	11,111	11,111	11,111
SS ($/1,000 lbs.)		223.8752	219.5738	216.9025	216.4900	196.8090	195.6866	197.4992	197.4992	197.4992	197.4992	197.4992
BOD ($/1,000 lbs.)		250.2838	250.0185	250.5300	250.7300	222.5118	219.5584	221.7093	221.7093	221.7093	221.7093	221.7093
Annual Lump Sum ($)		564,000	439,500	396,500	396,000	766,500	892,250	893,000	893,000	893,000	893,000	893,000
Management Fee (%)		10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Billing Units												
Volume (Mcf)		898,824	1,123,541	876,051	898,599	907,047	893,899	893,899	893,899	893,899	893,899	893,899
Capacity (cfs)		74.260	74.260	74.260	74.260	74.260	74.260	74.260	74.260	74.260	74.260	74.260
SS (1,000 lbs.)		11,232	9,441	12,255	10,402	8,965	10,541	10,541	10,541	10,541	10,541	10,541
BOD (1,000 lbs.)		10,133	9,377	11,667	9,952	9,489	10,369	10,369	10,369	10,369	10,369	10,369
Billings												
Volume		1,465,353	1,966,309	1,548,421	1,581,535	1,255,897	1,158,314	1,169,131	1,169,131	1,169,131	1,169,131	1,169,131
Capacity		913,027	939,686	940,800	938,201	830,672	817,528	825,103	825,103	825,103	825,103	825,103
SS		2,514,481	2,073,007	2,658,218	2,251,827	1,764,336	2,062,641	2,081,747	2,081,747	2,081,747	2,081,747	2,081,747
BOD		2,536,028	2,344,308	2,922,813	2,495,180	2,111,448	2,276,625	2,298,928	2,298,928	2,298,928	2,298,928	2,298,928
Lump Sum		564,000	439,500	396,500	396,000	766,500	892,250	893,000	893,000	893,000	893,000	893,000
Management Fee		799,289	776,281	846,675	766,274	672,885	720,736	726,791	726,791	726,791	726,791	726,791
Total		8,792,178	8,539,092	9,313,427	8,429,017	7,401,738	7,928,095	7,994,699	7,994,699	7,994,699	7,994,699	7,994,699
Cheltenham												
Rates												
Volume ($/Mcf)		1.5290	1.6423	1.6575	1.6500	1.3046	1.2251	1.2370	1.2370	1.2370	1.2370	1.2370
Capacity ($/cfs)		6,696	6,849	6,846	6,828	6,176	6,138	6,198	6,198	6,198	6,198	6,198
SS ($/1,000 lbs.)		223.8752	219.5738	216.9025	216.4900	196.8090	195.6866	197.4992	197.4992	197.4992	197.4992	197.4992
BOD ($/1,000 lbs.)		250.2838	250.0185	250.5300	250.7300	222.5118	219.5584	221.7093	221.7093	221.7093	221.7093	221.7093
Annual Lump Sum ($)		1,495,000	1,491,250	1,490,000	1,490,000	1,856,750	1,979,750	1,678,000	1,678,000	1,678,000	1,678,000	1,678,000
Management Fee (%)		12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units												
Volume (Mcf)		391,871	464,162	446,174	416,915	369,830	410,973	410,973	410,973	410,973	410,973	410,973
Capacity (cfs)		31.750	31.750	31.750	31.750	31.750	31.750	31.750	31.750	31.750	31.750	31.750
SS (1,000 lbs.)		2,985	3,837	3,008	3,137	3,062	3,069	3,069	3,069	3,069	3,069	3,069
BOD (1,000 lbs.)		2,597	3,339	2,616	2,740	2,690	2,682	2,682	2,682	2,682	2,682	2,682
Billings												
Volume		599,171	762,293	739,533	687,909	482,480	503,483	508,374	508,374	508,374	508,374	508,374
Capacity		212,598	217,456	217,361	216,789	196,088	194,882	196,787	196,787	196,787	196,787	196,787
SS		668,285	842,573	652,367	679,038	602,663	600,523	606,086	606,086	606,086	606,086	606,086
BOD		650,097	834,729	655,311	687,058	598,603	588,866	594,635	594,635	594,635	594,635	594,635
Lump Sum		1,495,000	1,491,250	1,490,000	1,490,000	1,856,750	1,979,750	1,678,000	1,678,000	1,678,000	1,678,000	1,678,000
Management Fee		435,018	497,796	450,549	451,295	448,390	464,100	430,066	430,066	430,066	430,066	430,066
Total		4,060,170	4,646,096	4,205,120	4,212,089	4,184,975	4,331,604	4,013,946	4,013,946	4,013,946	4,013,946	4,013,946

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Sewer - Wholesale												**Customer - 19**
Lower Moreland												
Rates												
Volume ($/Mcf)		1.6303	1.7501	1.7675	1.7600	1.3846	1.2958	1.3079	1.3079	1.3079	1.3079	1.3079
Capacity ($/cfs)		12,295	12,654	12,669	12,634	11,186	11,009	11,111	11,111	11,111	11,111	11,111
SS ($/1,000 lbs.)		223.8752	219.5738	216.9025	216.4900	196.8090	195.6866	197.4992	197.4992	197.4992	197.4992	197.4992
BOD ($/1,000 lbs.)		250.2838	250.0185	250.5300	250.7300	222.5118	219.5584	221.7093	221.7093	221.7093	221.7093	221.7093
Annual Lump Sum ($)		307,000	328,750	335,250	335,000	391,250	410,750	343,000	343,000	343,000	343,000	343,000
Management Fee (%)		12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units												
Volume (Mcf)		60,522	70,412	59,180	61,632	64,724	61,845	61,845	61,845	61,845	61,845	61,845
Capacity (cfs)		5.880	5.880	5.880	5.880	5.880	5.880	5.880	5.880	5.880	5.880	5.880
SS (1,000 lbs.)		615	706	600	624	656	626	626	626	626	626	626
BOD (1,000 lbs.)		462	529	450	468	493	470	470	470	470	470	470
Billings												
Volume		98,669	123,228	104,600	108,472	89,616	80,139	80,887	80,887	80,887	80,887	80,887
Capacity		72,295	74,406	74,494	74,288	65,774	64,733	65,333	65,333	65,333	65,333	65,333
SS		137,690	155,006	130,040	134,982	129,024	122,540	123,675	123,675	123,675	123,675	123,675
BOD		115,696	132,382	112,834	117,419	109,592	103,281	104,293	104,293	104,293	104,293	104,293
Lump Sum		307,000	328,750	335,250	335,000	391,250	410,750	343,000	343,000	343,000	343,000	343,000
Management Fee		87,762	97,653	90,866	92,419	94,231	93,773	86,062	86,062	86,062	86,062	86,062
Total		819,112	911,425	848,083	862,581	879,486	875,215	803,250	803,250	803,250	803,250	803,250
Lower Southampton												
Rates												
Volume ($/Mcf)		1.6303	1.7501	1.7675	1.7600	1.3846	1.2958	1.3079	1.3079	1.3079	1.3079	1.3079
Capacity ($/cfs)		12,295	12,654	12,669	12,634	11,186	11,009	11,111	11,111	11,111	11,111	11,111
SS ($/1,000 lbs.)		223.8752	219.5738	216.9025	216.4900	196.8090	195.6866	197.4992	197.4992	197.4992	197.4992	197.4992
BOD ($/1,000 lbs.)		250.2838	250.0185	250.5300	250.7300	222.5118	219.5584	221.7093	221.7093	221.7093	221.7093	221.7093
Annual Lump Sum ($)		1,780,000	1,871,500	1,977,750	2,003,000	2,292,500	2,494,750	2,351,000	2,351,000	2,351,000	2,351,000	2,351,000
Management Fee (%)		12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units												
Volume (Mcf)		255,607	346,766	273,566	271,505	265,335	270,135	270,135	270,135	270,135	270,135	270,135
Capacity (cfs)		15.790	15.790	15.790	15.790	15.790	15.790	15.790	15.790	15.790	15.790	15.790
SS (1,000 lbs.)		2,423	2,464	2,530	2,362	1,001	1,964	1,964	1,964	1,964	1,964	1,964
BOD (1,000 lbs.)		1,830	1,805	1,876	1,922	1,101	1,633	1,633	1,633	1,633	1,633	1,633
Billings												
Volume		416,716	606,875	483,529	477,849	367,383	350,041	353,310	353,310	353,310	353,310	353,310
Capacity		194,138	199,807	200,044	199,491	176,627	173,832	175,443	175,443	175,443	175,443	175,443
SS		542,490	540,986	548,813	511,313	196,907	384,365	387,925	387,925	387,925	387,925	387,925
BOD		457,894	451,311	469,904	481,923	244,876	358,483	361,994	361,994	361,994	361,994	361,994
Lump Sum		1,780,000	1,871,500	1,977,750	2,003,000	2,292,500	2,494,750	2,351,000	2,351,000	2,351,000	2,351,000	2,351,000
Management Fee		406,949	440,457	441,605	440,829	393,395	451,376	435,561	435,561	435,561	435,561	435,561
Total		3,798,186	4,110,936	4,121,644	4,114,405	3,671,689	4,212,847	4,065,233	4,065,233	4,065,233	4,065,233	4,065,233

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Sewer - Wholesale												**Customer - 19**
DELCORA												
Rates												
Volume ($/Mcf)		1.3979	1.5345	1.5650	1.5600	1.4118	1.4017	1.4148	1.4148	1.4148	1.4148	1.4148
Capacity ($/cfs)		6,258	7,074	7,272	7,247	7,221	7,406	7,470	7,470	7,470	7,470	7,470
SS ($/1,000 lbs.)		219.0013	196.5828	187.9175	187.5200	196.8219	205.3746	207.1919	207.1919	207.1919	207.1919	207.1919
BOD ($/1,000 lbs.)		177.8872	185.6368	187.8075	187.6700	194.5720	202.2020	203.9784	203.9784	203.9784	203.9784	203.9784
Annual Lump Sum ($)		892,000	1,105,750	1,177,000	1,177,000	2,379,250	2,780,000	653,000	653,000	653,000	653,000	-
Management Fee (%)		12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units												
Volume (Mcf)		1,044,706	1,360,421	1,090,844	1,161,715	1,007,810	1,086,790	1,086,790	1,086,790	1,086,790	1,086,790	-
Capacity (cfs)		155.000	155.000	155.000	155.000	155.000	155.000	155.000	155.000	155.000	155.000	-
SS (1,000 lbs.)		12,707	14,044	12,008	12,226	11,816	12,017	12,017	12,017	12,017	12,017	-
BOD (1,000 lbs.)		10,952	11,103	9,905	10,233	10,470	10,202	10,202	10,202	10,202	10,202	-
Billings												
Volume		1,460,395	2,087,567	1,707,171	1,812,275	1,422,826	1,523,354	1,537,590	1,537,590	1,537,590	1,537,590	-
Capacity		969,990	1,096,470	1,127,160	1,123,285	1,119,255	1,147,930	1,157,850	1,157,850	1,157,850	1,157,850	-
SS		2,782,887	2,760,713	2,256,455	2,292,561	2,325,683	2,467,888	2,489,726	2,489,726	2,489,726	2,489,726	-
BOD		1,948,286	2,061,203	1,860,222	1,920,405	2,037,097	2,062,963	2,081,086	2,081,086	2,081,086	2,081,086	-
Lump Sum		892,000	1,105,750	1,177,000	1,177,000	2,379,250	2,780,000	653,000	653,000	653,000	653,000	-
Management Fee		966,427	1,093,404	975,361	999,063	1,114,093	1,197,856	950,310	950,310	950,310	950,310	-
Total		9,019,985	10,205,107	9,103,369	9,324,589	10,398,204	11,179,990	8,869,563	8,869,563	8,869,563	8,869,563	-
Lower Merion												
Rates												
Volume ($/Mcf)		1.4455	1.5914	1.6175	1.6100	1.4600	1.4507	1.4642	1.4642	1.4642	1.4642	1.4642
Capacity ($/cfs)		6,401	7,235	7,437	7,412	7,385	7,574	7,640	7,640	7,640	7,640	7,640
SS ($/1,000 lbs.)		223.6185	200.7596	191.9250	191.5200	199.8578	208.1631	210.0051	210.0051	210.0051	210.0051	210.0051
BOD ($/1,000 lbs.)		178.9177	186.7269	188.9175	188.7800	195.1604	202.6277	204.4078	204.4078	204.4078	204.4078	204.4078
Annual Lump Sum ($)		123,000	125,250	124,500	124,000	118,750	120,000	121,000	121,000	121,000	121,000	121,000
Management Fee (%)		10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Billing Units												
Volume (Mcf)		330,636	384,414	315,880	323,284	289,764	309,643	309,643	309,643	309,643	309,643	309,643
Capacity (cfs)		31.570	31.570	31.570	31.570	31.570	31.570	31.570	31.570	31.570	31.570	31.570
SS (1,000 lbs.)		3,443	3,992	3,292	3,363	3,048	3,234	3,234	3,234	3,234	3,234	3,234
BOD (1,000 lbs.)		2,950	3,439	2,814	2,873	2,593	2,760	2,760	2,760	2,760	2,760	2,760
Billings												
Volume		477,934	611,757	510,935	520,488	423,056	449,199	453,379	453,379	453,379	453,379	453,379
Capacity		202,080	228,409	234,786	233,997	233,144	239,111	241,195	241,195	241,195	241,195	241,195
SS		769,811	801,426	631,761	644,089	609,179	673,256	679,213	679,213	679,213	679,213	679,213
BOD		527,857	642,227	531,595	542,444	506,055	559,275	564,189	564,189	564,189	564,189	564,189
Lump Sum		123,000	125,250	124,500	124,000	118,750	120,000	121,000	121,000	121,000	121,000	121,000
Management Fee		210,068	240,907	203,358	206,502	189,018	204,084	205,898	205,898	205,898	205,898	205,898
Total		2,310,750	2,649,976	2,236,935	2,271,520	2,079,202	2,244,926	2,264,874	2,264,874	2,264,874	2,264,874	2,264,874

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Sewer - Wholesale												**Customer - 19**
Springfield (less Wyndmoor)												
Rates												
Volume ($/Mcf)		1.6672	1.8343	1.8750	1.8700	1.5342	1.4629	1.4764	1.4764	1.4764	1.4764	1.4764
Capacity ($/cfs)		11,901	9,839	9,075	9,050	9,216	9,553	9,647	9,647	9,647	9,647	9,647
SS ($/1,000 lbs.)		223.6185	200.7596	191.9250	191.5200	199.8578	208.1631	210.0051	210.0051	210.0051	210.0051	210.0051
BOD ($/1,000 lbs.)		178.9177	186.7269	188.9175	188.7800	195.1604	202.6277	204.4078	204.4078	204.4078	204.4078	204.4078
Annual Lump Sum ($)		703,000	696,250	694,000	694,000	773,500	800,750	681,000	681,000	681,000	681,000	681,000
Management Fee (%)		12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units												
Volume (Mcf)		133,099	122,367	107,722	108,417	112,117	109,419	109,419	109,419	109,419	109,419	109,419
Capacity (cfs)		4.600	4.600	4.600	4.600	4.600	4.600	4.600	4.600	4.600	4.600	4.600
SS (1,000 lbs.)		1,861	2,506	2,544	2,075	1,805	2,141	2,141	2,141	2,141	2,141	2,141
BOD (1,000 lbs.)		2,058	2,441	2,251	2,055	2,041	2,116	2,116	2,116	2,116	2,116	2,116
Billings												
Volume		221,902	224,458	201,978	202,740	172,011	160,069	161,546	161,546	161,546	161,546	161,546
Capacity		54,745	45,259	41,745	41,630	42,394	43,944	44,376	44,376	44,376	44,376	44,376
SS		416,172	503,043	488,274	397,375	360,781	445,756	449,700	449,700	449,700	449,700	449,700
BOD		368,272	455,722	425,163	388,020	398,367	428,703	432,470	432,470	432,470	432,470	432,470
Lump Sum		703,000	696,250	694,000	694,000	773,500	800,750	681,000	681,000	681,000	681,000	681,000
Management Fee		211,691	230,968	222,139	206,852	209,646	225,507	212,291	212,291	212,291	212,291	212,291
Total		1,975,782	2,155,700	2,073,299	1,930,618	1,956,699	2,104,729	1,981,383	1,981,383	1,981,383	1,981,383	1,981,383
Upper Darby												
Rates												
Volume ($/Mcf)		1.4455	1.5914	1.6175	1.6100	1.4600	1.4507	1.4642	1.4642	1.4642	1.4642	1.4642
Capacity ($/cfs)		6,401	7,235	7,437	7,412	7,385	7,574	7,640	7,640	7,640	7,640	7,640
SS ($/1,000 lbs.)		223.6185	200.7596	191.9250	191.5200	199.8578	208.1631	210.0051	210.0051	210.0051	210.0051	210.0051
BOD ($/1,000 lbs.)		178.9177	186.7269	188.9175	188.7800	195.1604	202.6277	204.4078	204.4078	204.4078	204.4078	204.4078
Annual Lump Sum ($)		41,000	42,500	42,250	42,000	39,750	40,500	41,000	41,000	41,000	41,000	41,000
Management Fee (%)		10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Billing Units												
Volume (Mcf)		424,184	554,451	448,654	480,866	424,340	451,287	451,287	451,287	451,287	451,287	451,287
Capacity (cfs)		35.000	35.000	35.000	35.000	35.000	35.000	35.000	35.000	35.000	35.000	35.000
SS (1,000 lbs.)		4,128	5,396	4,367	4,680	4,130	4,392	4,392	4,392	4,392	4,392	4,392
BOD (1,000 lbs.)		3,520	4,601	3,723	3,990	3,521	3,745	3,745	3,745	3,745	3,745	3,745
Billings												
Volume		613,158	882,353	725,698	774,195	619,537	654,682	660,774	660,774	660,774	660,774	660,774
Capacity		224,035	253,225	260,295	259,420	258,475	265,090	267,400	267,400	267,400	267,400	267,400
SS		923,180	1,083,331	838,042	896,314	825,387	914,279	922,369	922,369	922,369	922,369	922,369
BOD		629,735	859,050	703,287	753,234	687,158	758,754	765,420	765,420	765,420	765,420	765,420
Lump Sum		41,000	42,500	42,250	42,000	39,750	40,500	41,000	41,000	41,000	41,000	41,000
Management Fee		243,111	312,046	256,957	272,516	243,031	263,331	265,696	265,696	265,696	265,696	265,696
Total		2,674,218	3,432,505	2,826,530	2,997,679	2,673,337	2,896,636	2,922,660	2,922,660	2,922,660	2,922,660	2,922,660

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Sewer - Wholesale												**Customer - 19**
Springfield (Wyndmoor)												
Rates												
Volume ($/Mcf)		1.9726	2.2557	2.3125	2.3000	2.1338	2.1386	2.1586	2.1586	2.1586	2.1586	2.1586
Capacity ($/cfs)		13,894	15,737	16,169	16,108	16,691	17,383	17,549	17,549	17,549	17,549	17,549
SS ($/1,000 lbs.)		331.3816	297.4204	283.7975	283.0300	300.1639	314.6312	317.5498	317.5498	317.5498	317.5498	317.5498
BOD ($/1,000 lbs.)		114.8652	122.5488	124.5700	124.3900	125.1103	129.3211	130.6447	130.6447	130.6447	130.6447	130.6447
Annual Lump Sum ($)		147,000	139,500	137,000	137,000	134,750	134,000	134,000	134,000	134,000	134,000	134,000
Management Fee (%)		12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Billing Units												
Volume (Mcf)		21,096	23,317	17,264	18,243	17,047	17,518	17,518	17,518	17,518	17,518	17,518
Capacity (cfs)		1.930	1.930	1.930	1.930	1.930	1.930	1.930	1.930	1.930	1.930	1.930
SS (1,000 lbs.)		230	245	204	209	233	215	215	215	215	215	215
BOD (1,000 lbs.)		173	187	149	158	192	166	166	166	166	166	166
Billings												
Volume		41,614	52,595	39,922	41,959	36,374	37,464	37,814	37,814	37,814	37,814	37,814
Capacity		26,815	30,372	31,206	31,088	32,214	33,549	33,870	33,870	33,870	33,870	33,870
SS		76,165	72,889	57,761	59,015	70,013	67,676	68,304	68,304	68,304	68,304	68,304
BOD		19,865	22,874	18,593	19,657	23,966	21,504	21,724	21,724	21,724	21,724	21,724
Lump Sum		147,000	139,500	137,000	137,000	134,750	134,000	134,000	134,000	134,000	134,000	134,000
Management Fee		37,375	38,188	34,138	34,646	35,678	35,303	35,485	35,485	35,485	35,485	35,485
Total		348,834	356,418	318,621	323,366	332,996	329,496	331,197	331,197	331,197	331,197	331,197

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Sewer - Wholesale												**Customer - 19**
Billed Volume Summary (Mcf)												
Abington		94,740	98,164	89,131	95,624	90,821	91,859	91,859	91,859	91,859	91,859	91,859
Bensalem		172,705	178,629	158,136	145,540	146,385	150,020	150,020	150,020	150,020	150,020	150,020
Bucks County		898,824	1,123,541	876,051	898,599	907,047	893,899	893,899	893,899	893,899	893,899	893,899
Cheltenham		391,871	464,162	446,174	416,915	369,830	410,973	410,973	410,973	410,973	410,973	410,973
Lower Moreland		60,522	70,412	59,180	61,632	64,724	61,845	61,845	61,845	61,845	61,845	61,845
Lower Southampton		255,607	346,766	273,566	271,505	265,335	270,135	270,135	270,135	270,135	270,135	270,135
DELCORA		1,044,706	1,360,421	1,090,844	1,161,715	1,007,810	1,086,790	1,086,790	1,086,790	1,086,790	1,086,790	-
Lower Merion		330,636	384,414	315,880	323,284	289,764	309,643	309,643	309,643	309,643	309,643	309,643
Springfield (less Wyndmoor)		133,099	122,367	107,722	108,417	112,117	109,419	109,419	109,419	109,419	109,419	109,419
Upper Darby		424,184	554,451	448,654	480,866	424,340	451,287	451,287	451,287	451,287	451,287	451,287
Springfield (Wyndmoor)		21,096	23,317	17,264	18,243	17,047	17,518	17,518	17,518	17,518	17,518	17,518
Total		3,827,990	4,726,645	3,882,601	3,982,341	3,695,221	3,853,388	3,853,388	3,853,388	3,853,388	3,853,388	2,766,598
By WPCP												
NE WPCP		1,874,270	2,281,674	1,902,239	1,889,815	1,844,142	1,878,731	1,878,731	1,878,731	1,878,731	1,878,731	1,878,731
SW WPCP		1,932,625	2,421,654	1,963,099	2,074,283	1,834,032	1,957,139	1,957,139	1,957,139	1,957,139	1,957,139	870,349
SE WPCP		21,096	23,317	17,264	18,243	17,047	17,518	17,518	17,518	17,518	17,518	17,518
Billings Summary												
Abington		1,326,888	1,669,198	1,308,613	1,576,223	775,431	1,600,427	1,482,863	1,482,863	1,482,863	1,482,863	1,482,863
Bensalem		1,944,698	1,454,357	1,485,080	1,363,835	1,616,590	1,183,897	1,194,727	1,194,727	1,194,727	1,194,727	1,194,727
Bucks County		9,368,448	9,460,173	10,431,371	9,047,916	7,196,688	7,928,095	7,994,699	7,994,699	7,994,699	7,994,699	7,994,699
Cheltenham		4,056,591	4,103,126	4,103,664	4,437,076	3,826,824	4,331,604	4,013,946	4,013,946	4,013,946	4,013,946	4,013,946
Lower Moreland		890,109	896,097	944,498	1,030,403	875,279	875,215	803,250	803,250	803,250	803,250	803,250
Lower Southampton		3,763,178	4,007,035	4,185,601	4,071,888	3,792,389	4,212,847	4,065,233	4,065,233	4,065,233	4,065,233	4,065,233
DELCORA		8,839,578	10,080,694	9,043,034	9,415,281	9,704,255	11,179,990	8,869,563	8,869,563	8,869,563	8,869,563	-
Lower Merion		2,359,459	2,545,595	2,427,412	2,731,477	2,990,169	2,244,926	2,264,874	2,264,874	2,264,874	2,264,874	2,264,874
Springfield (less Wyndmoor)		1,975,879	2,094,415	2,143,149	1,986,188	1,878,184	2,104,729	1,981,383	1,981,383	1,981,383	1,981,383	1,981,383
Upper Darby		2,559,240	2,841,011	2,682,775	3,121,364	3,403,579	2,896,636	2,922,660	2,922,660	2,922,660	2,922,660	2,922,660
Springfield (Wyndmoor)		343,636	363,734	570,499	320,241	279,913	329,496	331,197	331,197	331,197	331,197	331,197
Total		37,427,704	39,515,435	39,325,697	39,101,894	36,339,303	38,887,862	35,924,394	35,924,394	35,924,394	35,924,394	27,054,832
Actual		37,427,704	39,544,742	39,525,059	40,175,961	37,288,690	-	-	-			
Wholesale Billing Summary By WPCP												
NE WPCP		21,349,911	21,589,986	22,458,827	21,527,341	18,083,202	20,132,086	19,554,718	19,554,718	19,554,718	19,554,718	19,554,718
SW WPCP		15,734,157	17,561,715	16,296,370	17,254,311	17,976,188	18,426,280	16,038,479	16,038,479	16,038,479	16,038,479	7,168,916
SE WPCP		343,636	363,734	570,499	320,241	279,913	329,496	331,197	331,197	331,197	331,197	331,197

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Sanitary and Stormwater Sewer - Revenue Summary												**Customer - 20**
Sanitary Sewer Collections												
General Service		245,907	231,260	223,036	217,781	236,010	238,190	242,453	244,801	247,051	246,824	246,300
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
Fire		-	-	-	-	-	3	3	3	3	3	3
Surcharge		5,628	4,699	4,957	5,024	6,082	6,224	6,286	6,286	6,286	6,286	6,286
Wholesale		37,428	39,545	39,525	40,176	37,289	38,888	35,924	35,924	35,924	35,924	27,055
Subtotal		288,962	275,503	267,518	262,981	279,381	283,305	284,667	287,015	289,265	289,037	279,644
Stormwater Collections												
Total		141,217	155,511	155,259	159,024	161,409	188,987	191,970	191,982	191,564	191,109	190,615
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
Subtotal		141,217	155,511	155,259	159,024	161,409	188,987	191,970	191,982	191,564	191,109	190,615
Total		430,179	431,014	422,777	422,005	440,790	472,292	476,637	478,997	480,829	480,147	470,259
General Service - Sanitary Sewer + Stormwater												
Actual			386,771	378,294	376,805	397,419						
Calculated			379,153	389,279	386,199	404,053						
			98.0%	102.9%	102.5%	101.7%						
xxxxxxxxxx - Sanitary Sewer + Stormwater												
Actual			-	-	-	-						
Calculated			-	-	-	-						
			-	-	-	-						
General Service + xxxxxxxxxx - Sanitary Sewer + Stormwater												
Actual			386,771	378,294	376,805	397,419						
Calculated			379,153	389,279	386,199	404,053						
			98.0%	102.9%	102.5%	101.7%						
General Service - Water + Sanitary Sewer + Stormwater												
Actual			648,841	640,442	647,769	672,904				2,609,955		
Calculated			639,306	641,571	633,700	667,174				2,581,752		
			98.5%	100.2%	97.8%	99.1%				98.9%		
xxxxxxxxxx - Water + Sanitary Sewer + Stormwater												
Actual			-	-	-	-						
Calculated			-	-	-	-						
			-	-	-	-						
General Service + xxxxxxxxxx - Water + Sanitary Sewer + Stormwater												
Actual			648,841	640,442	647,769	672,904				2,609,955		
Calculated			639,306	641,571	633,700	667,174				2,581,752		
			98.5%	100.2%	97.8%	99.1%				98.9%		

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Stormwater - Units of Service												**Customer - 21**
Number of Non- Exempt Parcels												
Residential												
Non-Discount												
Water & Sewer	Account - No Growth	427,088	428,118	429,793	431,001	430,782	430,782	430,782	430,782	430,782	430,782	430,782
SW Only	Account - No Growth	7,080	6,477	6,218	5,984	7,139	7,139	7,139	7,139	7,139	7,139	7,139
Discount: Elderly, Education & Charities												
Water & Sewer	Account - No Growth	23,429	23,552	22,580	22,091	21,534	21,534	21,534	21,534	21,534	21,534	21,534
SW Only	Account - No Growth	26	28	17	15	14	14	14	14	14	14	14
Discount PHA												
Water & Sewer	Account - No Growth	4,039	3,999	3,906	3,864	3,796	3,796	3,796	3,796	3,796	3,796	3,796
SW Only	Account - No Growth	213	206	156	164	143	143	143	143	143	143	143
xxxxxxxxxx (Not In Use)												
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Subtotal		461,875	462,380	462,670	463,119	463,408	463,408	463,408	463,408	463,408	463,408	463,408
Non-Residential												
Non-Discount												
Water & Sewer	Account - No Growth	33,006	33,119	33,362	35,314	33,696	33,696	33,696	33,696	33,696	33,696	33,696
SW Only	Account - No Growth	36,144	36,410	36,085	33,629	32,280	32,280	32,280	32,280	32,280	32,280	32,280
Discount: Elderly, Education & Charities (Includes Fairmount Park City Leased Parcels)												
Water & Sewer	Account - No Growth	1,667	1,592	1,441	1,412	1,350	1,350	1,350	1,350	1,350	1,350	1,350
SW Only	Account - No Growth	232	260	187	180	171	171	171	171	171	171	171
Discount PHA												
Water & Sewer	Account - No Growth	215	230	232	235	236	236	236	236	236	236	236
SW Only	Account - No Growth	1,973	1,948	1,967	1,781	1,198	1,198	1,198	1,198	1,198	1,198	1,198
xxxxxxxxxx (Not In Use)												
Water & Sewer												
SW Only												
Subtotal		73,237	73,559	73,274	72,551	68,931	68,931	68,931	68,931	68,931	68,931	68,931
Condominiums												
Non-Discount												
Water & Sewer	Account - No Growth	1,911	2,039	2,088	2,099	2,202	2,202	2,202	2,202	2,202	2,202	2,202
SW Only	Account - No Growth	29	41	50	41	37	37	37	37	37	37	37
Discount: Elderly, Education & Charities												
Water & Sewer	Account - No Growth	44	41	42	42	42	42	42	42	42	42	42
SW Only	Account - No Growth	1	1	-	-	-	-	-	-	-	-	-
Discount PHA												
Water & Sewer	Account - No Growth	1	1	1	1	1	1	1	1	1	1	1
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Subtotal		1,986	2,123	2,181	2,183	2,282	2,282	2,282	2,282	2,282	2,282	2,282
Total		537,098	538,062	538,125	537,853	534,621	534,621	534,621	534,621	534,621	534,621	534,621

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Number of Parcels-Credits												**Customer - 22**
Residential												
Non-Discount												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Discount PHA												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-
Non-Residential												
Non-Discount												
Water & Sewer		610	600	649	668	687	815	853	881	908	935	962
SW Only		281	266	270	280	291	345	361	373	385	396	408
Discount: Elderly, Education & Charities												
Water & Sewer		136	141	128	159	169	200	210	217	223	230	237
SW Only		5	9	7	16	20	24	25	26	26	27	28
Discount PHA												
Water & Sewer		-	-	-	-	1	1	1	1	1	1	1
SW Only		-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		1,032	1,016	1,054	1,123	1,168	1,385	1,450	1,498	1,543	1,589	1,636
Condominiums												
Non-Discount												
Water & Sewer		32	32	33	39	38	45	47	49	50	52	53
SW Only		-	-	2	1	2	2	3	3	3	3	3
Discount: Elderly, Education & Charities												
Water & Sewer		4	3	2	2	2	2	3	3	3	3	3
SW Only		-	-	-	-	-	-	-	-	-	-	-
Discount PHA												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		36	35	37	42	42	50	53	55	56	58	59
Total		1,068	1,051	1,091	1,165	1,210	1,435	1,503	1,553	1,599	1,647	1,695

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Number of Parcels-Appeals (Cumulative Annual Projection)												**Customer - 23**
Residential												
Non-Discount												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Discount PHA												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-
Non-Residential												
Non-Discount												
Water & Sewer		237	216	120	99	116	158	273	345	374	374	374
SW Only		-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Discount PHA												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		237	216	120	99	116	158	273	345	374	374	374
Condominiums												
Non-Discount												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Discount PHA												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-
Total		237	216	120	99	116	158	273	345	374	374	374

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Number of Community Gardens Parcels												**Customer - 24**
Residential												
Non-Discount												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Discount: Elderly, Education & Charities												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Discount PHA												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Subtotal							-	-	-	-	-	-
Non-Residential												
Non-Discount												
Water & Sewer							0	1	1	1	1	2
SW Only							4	9	13	18	22	27
Discount: Elderly, Education & Charities												
Water & Sewer							1	1	2	3	3	4
SW Only							2	5	7	9	11	14
Discount PHA												
Water & Sewer							-	-	-	-	-	-
SW Only							0	1	1	2	2	2
xxxxxxxxxx (Not In Use)												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Subtotal							8	16	24	32	40	48
Condominiums												
Non-Discount												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Discount: Elderly, Education & Charities												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Discount PHA												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Subtotal							-	-	-	-	-	-
Total							8	16	24	32	40	48

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Number of Billable Parcels-After Community Gardens												**Customer - 25**
Residential												
Non-Discount												
Water & Sewer		427,088	428,118	429,793	431,001	430,782	430,782	430,782	430,782	430,782	430,782	430,782
SW Only		7,080	6,477	6,218	5,984	7,139	7,139	7,139	7,139	7,139	7,139	7,139
Discount: Elderly, Education & Charities												
Water & Sewer		23,429	23,552	22,580	22,091	21,534	21,534	21,534	21,534	21,534	21,534	21,534
SW Only		26	28	17	15	14	14	14	14	14	14	14
Discount PHA												
Water & Sewer		4,039	3,999	3,906	3,864	3,796	3,796	3,796	3,796	3,796	3,796	3,796
SW Only		213	206	156	164	143	143	143	143	143	143	143
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		461,875	462,380	462,670	463,119	463,408	463,408	463,408	463,408	463,408	463,408	463,408
Non-Residential												
Non-Discount												
Water & Sewer		33,006	33,119	33,362	35,314	33,696	33,696	33,695	33,695	33,695	33,695	33,694
SW Only		36,144	36,410	36,085	33,629	32,280	32,276	32,271	32,267	32,262	32,258	32,253
Discount: Elderly, Education & Charities												
Water & Sewer		1,667	1,592	1,441	1,412	1,350	1,349	1,349	1,348	1,347	1,347	1,346
SW Only		232	260	187	180	171	169	167	164	162	160	158
Discount PHA												
Water & Sewer		215	230	232	235	236	236	236	236	236	236	236
SW Only		1,973	1,948	1,967	1,781	1,198	1,198	1,197	1,197	1,196	1,196	1,196
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		73,237	73,559	73,274	72,551	68,931	68,923	68,915	68,907	68,899	68,891	68,883
Condominiums												
Non-Discount												
Water & Sewer		1,911	2,039	2,088	2,099	2,202	2,202	2,202	2,202	2,202	2,202	2,202
SW Only		29	41	50	41	37	37	37	37	37	37	37
Discount: Elderly, Education & Charities												
Water & Sewer		44	41	42	42	42	42	42	42	42	42	42
SW Only		1	1	-	-	-	-	-	-	-	-	-
Discount PHA												
Water & Sewer		1	1	1	1	1	1	1	1	1	1	1
SW Only		-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		1,986	2,123	2,181	2,183	2,282	2,282	2,282	2,282	2,282	2,282	2,282
Total		537,098	538,062	538,125	537,853	534,621	534,613	534,605	534,597	534,589	534,581	534,573

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Number of Non-Exempt Accounts												**Customer - 26**
Residential												
Non-Discount												
Water & Sewer	Account - No Growth	428,541	429,696	431,468	433,130	432,724	432,724	432,724	432,724	432,724	432,724	432,724
SW Only	Account - No Growth	7,056	6,481	6,237	6,023	7,175	7,175	7,175	7,175	7,175	7,175	7,175
Discount: Elderly, Education & Charities												
Water & Sewer	Account - No Growth	23,481	23,608	22,622	22,136	21,579	21,579	21,579	21,579	21,579	21,579	21,579
SW Only	Account - No Growth	26	28	17	15	14	14	14	14	14	14	14
Discount PHA												
Water & Sewer	Account - No Growth	4,178	4,153	4,064	4,028	3,965	3,965	3,965	3,965	3,965	3,965	3,965
SW Only	Account - No Growth	213	206	156	164	144	144	144	144	144	144	144
xxxxxxxxxx (Not In Use)												
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Subtotal		463,495	464,172	464,564	465,496	465,601	465,601	465,601	465,601	465,601	465,601	465,601
Non-Residential												
Non-Discount												
Water & Sewer	Account - No Growth	39,166	39,272	39,780	43,049	40,491	40,491	40,491	40,491	40,491	40,491	40,491
SW Only	Account - No Growth	35,755	35,522	35,202	33,781	32,477	32,477	32,477	32,477	32,477	32,477	32,477
Discount: Elderly, Education & Charities												
Water & Sewer	Account - No Growth	2,365	2,283	1,986	1,942	1,841	1,841	1,841	1,841	1,841	1,841	1,841
SW Only	Account - No Growth	232	260	187	180	171	171	171	171	171	171	171
Discount PHA												
Water & Sewer	Account - No Growth	1,193	1,251	1,343	1,433	1,445	1,445	1,445	1,445	1,445	1,445	1,445
SW Only	Account - No Growth	1,974	1,980	1,967	1,782	1,245	1,245	1,245	1,245	1,245	1,245	1,245
xxxxxxxxxx (Not In Use)												
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Subtotal		80,685	80,568	80,465	82,167	77,670	77,670	77,670	77,670	77,670	77,670	77,670
Condominiums												
Non-Discount												
Water & Sewer	Account - No Growth	4,152	4,450	4,536	4,429	4,608	4,608	4,608	4,608	4,608	4,608	4,608
SW Only	Account - No Growth	34	51	66	55	42	42	42	42	42	42	42
Discount: Elderly, Education & Charities												
Water & Sewer	Account - No Growth	482	466	468	610	627	627	627	627	627	627	627
SW Only	Account - No Growth	1	1	-	-	-	-	-	-	-	-	-
Discount PHA												
Water & Sewer	Account - No Growth	-	-	-	1	-	-	-	-	-	-	-
SW Only	Account - No Growth	1	1	1	-	1	1	1	1	1	1	1
xxxxxxxxxx (Not In Use)												
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Subtotal		4,670	4,969	5,071	5,095	5,278	5,278	5,278	5,278	5,278	5,278	5,278
Total		548,850	549,709	550,100	552,758	548,549	548,549	548,549	548,549	548,549	548,549	548,549

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Number of Non-Exempt Accounts												**Customer - 26**
Accounts - Community Gardens												
Residential												
Non-Discount												
Water & Sewer	Account - No Growth						-	-	-	-	-	-
SW Only	Account - No Growth						-	-	-	-	-	-
Discount: Elderly, Education & Charities												
Water & Sewer	Account - No Growth						-	-	-	-	-	-
SW Only	Account - No Growth						-	-	-	-	-	-
Discount PHA												
Water & Sewer	Account - No Growth						-	-	-	-	-	-
SW Only	Account - No Growth						-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer	Account - No Growth						-	-	-	-	-	-
SW Only	Account - No Growth						-	-	-	-	-	-
Subtotal							-	-	-	-	-	-
Non-Residential												
Non-Discount												
Water & Sewer	Account - No Growth						0	1	1	1	1	2
SW Only	Account - No Growth						4	9	13	18	22	27
Discount: Elderly, Education & Charities												
Water & Sewer	Account - No Growth						1	1	2	3	3	4
SW Only	Account - No Growth						2	5	7	9	11	14
Discount PHA												
Water & Sewer	Account - No Growth						-	-	-	-	-	-
SW Only	Account - No Growth						0	1	1	2	2	2
xxxxxxxxxx (Not In Use)												
Water & Sewer	Account - No Growth						-	-	-	-	-	-
SW Only	Account - No Growth						-	-	-	-	-	-
Subtotal							8	16	24	32	40	48
Condominiums												
Non-Discount												
Water & Sewer	Account - No Growth						-	-	-	-	-	-
SW Only	Account - No Growth						-	-	-	-	-	-
Discount: Elderly, Education & Charities												
Water & Sewer	Account - No Growth						-	-	-	-	-	-
SW Only	Account - No Growth						-	-	-	-	-	-
Discount PHA												
Water & Sewer	Account - No Growth						-	-	-	-	-	-
SW Only	Account - No Growth						-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer	Account - No Growth						-	-	-	-	-	-
SW Only	Account - No Growth						-	-	-	-	-	-
Subtotal							-	-	-	-	-	-
Total							8	16	24	32	40	48

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Number of Non-Exempt Accounts												**Customer - 26**
Accounts - After Community Gardens												
Residential												
Non-Discount												
Water & Sewer		428,541	429,696	431,468	433,130	432,724	432,724	432,724	432,724	432,724	432,724	432,724
SW Only		7,056	6,481	6,237	6,023	7,175	7,175	7,175	7,175	7,175	7,175	7,175
Discount: Elderly, Education & Charities												
Water & Sewer		23,481	23,608	22,622	22,136	21,579	21,579	21,579	21,579	21,579	21,579	21,579
SW Only		26	28	17	15	14	14	14	14	14	14	14
Discount PHA												
Water & Sewer		4,178	4,153	4,064	4,028	3,965	3,965	3,965	3,965	3,965	3,965	3,965
SW Only		213	206	156	164	144	144	144	144	144	144	144
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		463,495	464,172	464,564	465,496	465,601	465,601	465,601	465,601	465,601	465,601	465,601
Non-Residential												
Non-Discount												
Water & Sewer		39,166	39,272	39,780	43,049	40,491	40,491	40,490	40,490	40,490	40,490	40,489
SW Only		35,755	35,522	35,202	33,781	32,477	32,473	32,468	32,464	32,459	32,455	32,450
Discount: Elderly, Education & Charities												
Water & Sewer		2,365	2,283	1,986	1,942	1,841	1,840	1,840	1,839	1,838	1,838	1,837
SW Only		232	260	187	180	171	169	167	164	162	160	158
Discount PHA												
Water & Sewer		1,193	1,251	1,343	1,433	1,445	1,445	1,445	1,445	1,445	1,445	1,445
SW Only		1,974	1,980	1,967	1,782	1,245	1,245	1,244	1,244	1,243	1,243	1,243
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		80,685	80,568	80,465	82,167	77,670	77,662	77,654	77,646	77,638	77,630	77,622
Condominiums												
Non-Discount												
Water & Sewer		4,152	4,450	4,536	4,429	4,608	4,608	4,608	4,608	4,608	4,608	4,608
SW Only		34	51	66	55	42	42	42	42	42	42	42
Discount: Elderly, Education & Charities												
Water & Sewer		482	466	468	610	627	627	627	627	627	627	627
SW Only		1	1	-	-	-	-	-	-	-	-	-
Discount PHA												
Water & Sewer		-	-	-	1	-	-	-	-	-	-	-
SW Only		1	1	1	-	1	1	1	1	1	1	1
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		4,670	4,969	5,071	5,095	5,278	5,278	5,278	5,278	5,278	5,278	5,278
Total		548,850	549,709	550,100	552,758	548,549	548,541	548,533	548,525	548,517	548,509	548,501

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Initial Impervious Area												**Customer - 27**
Residential												
Non-Discount												
Water & Sewer		450,009	517,054	518,364	519,115	518,628	512,631	512,631	512,631	512,631	512,631	512,631
SW Only		6,120	6,145	6,022	5,923	7,059	8,495	8,495	8,495	8,495	8,495	8,495
Discount: Elderly, Education & Charities												
Water & Sewer		23,532	26,706	25,619	25,038	24,313	25,625	25,625	25,625	25,625	25,625	25,625
SW Only		50	53	37	36	27	17	17	17	17	17	17
Discount PHA												
Water & Sewer		2,838	3,435	3,362	3,328	3,282	4,517	4,517	4,517	4,517	4,517	4,517
SW Only		137	142	115	120	108	170	170	170	170	170	170
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		482,687	553,534	553,519	553,559	553,417	551,455	551,455	551,455	551,455	551,455	551,455
Non-Residential												
Non-Discount												
Water & Sewer		521,167	521,487	533,527	538,548	549,150	549,150	549,150	549,150	549,150	549,150	549,150
SW Only		91,790	90,544	89,729	88,895	87,989	87,989	87,989	87,989	87,989	87,989	87,989
Discount: Elderly, Education & Charities												
Water & Sewer		82,255	81,359	71,555	71,305	70,308	70,308	70,308	70,308	70,308	70,308	70,308
SW Only		3,305	3,448	2,773	2,657	3,149	3,149	3,149	3,149	3,149	3,149	3,149
Discount PHA												
Water & Sewer		6,579	6,688	6,544	6,565	7,005	7,005	7,005	7,005	7,005	7,005	7,005
SW Only		1,373	1,368	1,344	1,298	1,198	1,198	1,198	1,198	1,198	1,198	1,198
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		706,470	704,894	705,473	709,267	718,798	718,798	718,798	718,798	718,798	718,798	718,798
Condominiums												
Non-Discount												
Water & Sewer		20,824	23,009	24,182	24,054	24,935	24,935	24,935	24,935	24,935	24,935	24,935
SW Only		532	628	214	648	667	667	667	667	667	667	667
Discount: Elderly, Education & Charities												
Water & Sewer		815	788	789	944	969	969	969	969	969	969	969
SW Only		21	21	-	-	-	-	-	-	-	-	-
Discount PHA												
Water & Sewer		6	6	6	6	6	6	6	6	6	6	6
SW Only		-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		22,198	24,452	25,191	25,652	26,577	26,577	26,577	26,577	26,577	26,577	26,577
Total		1,211,354	1,282,881	1,284,184	1,288,478	1,298,791	1,296,830	1,296,830	1,296,830	1,296,830	1,296,830	1,296,830

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Deductions: Impervious Area Credits	Factored by 1000											**Customer - 28**
Residential	ONLY APPLIED BEYOND FY 2029											
Non-Discount												
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities												
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Discount PHA												
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-
Non-Residential												
Non-Discount												
Water & Sewer	Account - No Growth	75,659	75,556	79,850	81,614	90,087	91,380	94,377	97,081	99,360	101,583	104,083
SW Only	Account - No Growth	14,443	14,106	12,890	14,406	15,156	16,130	16,660	17,137	17,539	17,931	18,373
Discount: Elderly, Education & Charities												
Water & Sewer	Account - No Growth	5,223	5,854	5,033	6,937	6,778	7,767	8,022	8,251	8,445	8,634	8,847
SW Only	Account - No Growth	169	151	11	124	520	139	143	148	151	154	158
Discount PHA												
Water & Sewer	Account - No Growth	-	-	-	-	42	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Subtotal		95,494	95,667	97,785	103,081	112,582	115,417	119,202	122,617	125,495	128,303	131,461
Condominiums												
Non-Discount												
Water & Sewer	Account - No Growth	2,775	3,868	4,110	4,513	4,478	5,053	5,219	5,369	5,495	5,618	5,756
SW Only	Account - No Growth	-	-	9	9	20	10	10	10	11	11	11
Discount: Elderly, Education & Charities												
Water & Sewer	Account - No Growth	265	247	206	206	206	231	239	245	251	257	263
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Discount PHA												
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Subtotal		3,040	4,115	4,325	4,728	4,705	5,294	5,468	5,624	5,756	5,885	6,030
Total		98,535	99,782	102,110	107,809	117,287	120,711	124,670	128,241	131,251	134,188	137,491

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Deductions: Impervious Area Appeals	Factored by 1000											**Customer - 29**
Residential												
Non-Discount												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Discount: Elderly, Education & Charities												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Discount PHA												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Subtotal							-	-	-	-	-	-
Non-Residential												
Non-Discount												
Water & Sewer							480	830	1,049	1,137	1,137	1,137
SW Only							-	-	-	-	-	-
Discount: Elderly, Education & Charities												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Discount PHA												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Subtotal							480	830	1,049	1,137	1,137	1,137
Condominiums												
Non-Discount												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Discount: Elderly, Education & Charities												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Discount PHA												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Subtotal							-	-	-	-	-	-
Total							480	830	1,049	1,137	1,137	1,137

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Deductions: IA Community Gardens	Factored by 1000											**Customer - 30**
Residential												
Non-Discount												
Water & Sewer							0.10	0.20	0.31	0.41	0.51	0.61
SW Only							-	-	-	-	-	-
Discount: Elderly, Education & Charities												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Discount PHA												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Subtotal							0	0	0	0	1	1
Non-Residential												
Non-Discount												
Water & Sewer							0	0	1	1	1	1
SW Only							2	4	5	7	9	11
Discount: Elderly, Education & Charities												
Water & Sewer							0	1	1	1	2	2
SW Only							1	1	2	3	4	4
Discount PHA												
Water & Sewer							-	-	-	-	-	-
SW Only							0	1	1	1	1	2
xxxxxxxxxx (Not In Use)												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Subtotal							3	7	10	13	17	20
Condominiums												
Non-Discount												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Discount: Elderly, Education & Charities												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Discount PHA												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Subtotal							-	-	-	-	-	-
Total							3.445	6.889	10	14	17	21

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Final Impervious Area												**Customer - 31**
Residential												
Non-Discount												
Water & Sewer		450,009	517,054	518,364	519,115	518,628	512,631	512,631	512,631	512,631	512,630	512,630
SW Only		6,120	6,145	6,022	5,923	7,059	8,495	8,495	8,495	8,495	8,495	8,495
Discount: Elderly, Education & Charities												
Water & Sewer		23,532	26,706	25,619	25,038	24,313	25,625	25,625	25,625	25,625	25,625	25,625
SW Only		50	53	37	36	27	17	17	17	17	17	17
Discount PHA												
Water & Sewer		2,838	3,435	3,362	3,328	3,282	4,517	4,517	4,517	4,517	4,517	4,517
SW Only		137	142	115	120	108	170	170	170	170	170	170
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		482,687	553,534	553,519	553,559	553,417	551,455	551,455	551,455	551,455	551,454	551,454
Non-Residential												
Non-Discount												
Water & Sewer		445,508	445,931	453,677	456,934	459,064	457,289	453,943	451,020	448,653	446,429	443,929
SW Only		77,346	76,438	76,838	74,489	72,833	71,856	71,325	70,846	70,442	70,048	69,605
Discount: Elderly, Education & Charities												
Water & Sewer		77,032	75,504	66,522	64,368	63,530	62,541	62,286	62,056	61,862	61,672	61,459
SW Only		3,137	3,297	2,762	2,533	2,628	3,009	3,004	2,999	2,995	2,991	2,986
Discount PHA												
Water & Sewer		6,579	6,688	6,544	6,565	6,963	7,005	7,005	7,005	7,005	7,005	7,005
SW Only		1,373	1,368	1,344	1,298	1,198	1,197	1,197	1,197	1,196	1,196	1,196
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		610,975	609,227	607,688	606,186	606,215	602,898	598,759	595,122	592,153	589,341	586,180
Condominiums												
Non-Discount												
Water & Sewer		18,050	19,141	20,072	19,540	20,457	19,882	19,716	19,566	19,440	19,318	19,179
SW Only		532	628	206	640	647	657	657	657	657	656	656
Discount: Elderly, Education & Charities												
Water & Sewer		549	541	583	738	762	738	730	723	717	712	705
SW Only		21	21	-	-	-	-	-	-	-	-	-
Discount PHA												
Water & Sewer		6	6	6	6	6	6	6	6	6	6	6
SW Only		-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		19,158	20,337	20,866	20,924	21,872	21,283	21,109	20,953	20,821	20,692	20,547
Total		1,112,820	1,183,098	1,182,074	1,180,669	1,181,504	1,175,635	1,171,323	1,167,530	1,164,428	1,161,488	1,158,181
Total Adjustments (Final - Initial)						117,287	121,194	125,506	129,300	132,402	135,342	138,648
Annual Change							3,907	4,312	3,794	3,102	2,940	3,306

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Initial Gross Area												**Customer - 32**
Residential												
Non-Discount												
Water & Sewer	Account - No Growth	911,003	912,220	914,735	916,223	915,827	904,642	904,642	904,642	904,642	904,642	904,642
SW Only	Account - No Growth	14,594	14,065	13,649	13,372	15,132	14,992	14,992	14,992	14,992	14,992	14,992
Discount: Elderly, Education & Charities												
Water & Sewer	Account - No Growth	43,521	43,405	41,487	40,519	39,170	45,221	45,221	45,221	45,221	45,221	45,221
SW Only	Account - No Growth	129	153	100	99	87	29	29	29	29	29	29
Discount PHA												
Water & Sewer	Account - No Growth	4,633	4,588	4,498	4,453	4,401	7,972	7,972	7,972	7,972	7,972	7,972
SW Only	Account - No Growth	229	222	176	181	165	300	300	300	300	300	300
xxxxxxx												
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Subtotal		974,110	974,653	974,646	974,847	974,782	973,157	973,157	973,157	973,157	973,157	973,157
Non-Residential												
Non-Discount												
Water & Sewer	Account - No Growth	948,287	947,063	975,757	977,715	977,758	977,758	977,758	977,758	977,758	977,758	977,758
SW Only	Account - No Growth	312,302	311,758	302,710	297,640	296,181	296,181	296,181	296,181	296,181	296,181	296,181
Discount: Elderly, Education & Charities												
Water & Sewer	Account - No Growth	152,608	151,764	133,416	135,078	130,517	130,517	130,517	130,517	130,517	130,517	130,517
SW Only	Account - No Growth	5,324	5,986	5,338	5,215	6,426	6,426	6,426	6,426	6,426	6,426	6,426
Discount PHA												
Water & Sewer	Account - No Growth	12,825	12,961	12,884	12,872	12,971	12,971	12,971	12,971	12,971	12,971	12,971
SW Only	Account - No Growth	5,349	3,925	3,939	3,726	3,278	3,278	3,278	3,278	3,278	3,278	3,278
xxxxxxxxxx (Not In Use)												
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Subtotal		1,436,695	1,433,456	1,434,043	1,432,246	1,427,132	1,427,132	1,427,132	1,427,132	1,427,132	1,427,132	1,427,132
Condominiums												
Non-Discount												
Water & Sewer	Account - No Growth	29,707	32,615	34,083	34,745	35,557	35,557	35,557	35,557	35,557	35,557	35,557
SW Only	Account - No Growth	775	969	1,198	989	1,004	1,004	1,004	1,004	1,004	1,004	1,004
Discount: Elderly, Education & Charities												
Water & Sewer	Account - No Growth	1,768	1,679	1,688	1,852	1,879	1,879	1,879	1,879	1,879	1,879	1,879
SW Only	Account - No Growth	25	25	-	-	-	-	-	-	-	-	-
Discount PHA												
Water & Sewer	Account - No Growth	9	9	9	9	9	9	9	9	9	9	9
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Subtotal		32,284	35,297	36,978	37,595	38,449	38,449	38,449	38,449	38,449	38,449	38,449
Total		2,443,090	2,443,406	2,445,667	2,444,689	2,440,363	2,438,738	2,438,738	2,438,738	2,438,738	2,438,738	2,438,738

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Deductions: Gross Area Credits	Factored by 1000											**Customer - 33**
Residential	ONLY APPLIED BEYOND FY 2029											
Non-Discount												
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Discount: Elderly, Education & Charities												
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Discount PHA												
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-
Non-Residential												
Non-Discount												
Water & Sewer	Account - No Growth	211,988	213,281	223,834	204,218	241,245	188,327	192,331	196,083	199,471	202,811	206,388
SW Only	Account - No Growth	77,287	78,747	73,595	75,160	76,612	69,311	70,785	72,166	73,412	74,642	75,958
Discount: Elderly, Education & Charities												
Water & Sewer	Account - No Growth	27,108	27,535	21,409	26,163	25,270	24,127	24,640	25,121	25,555	25,983	26,441
SW Only	Account - No Growth	359	692	402	573	1,338	528	540	550	560	569	579
Discount PHA												
Water & Sewer	Account - No Growth	-	-	-	-	47	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Subtotal		316,743	320,254	319,240	306,114	344,512	282,294	288,296	293,920	298,997	304,003	309,366
Condominiums												
Non-Discount												
Water & Sewer	Account - No Growth	5,177	6,317	6,744	7,447	7,071	6,868	7,014	7,150	7,274	7,396	7,526
SW Only	Account - No Growth	-	-	282	57	69	52	54	55	56	56	57
Discount: Elderly, Education & Charities												
Water & Sewer	Account - No Growth	484	410	560	560	560	516	527	538	547	556	566
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Discount PHA												
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
SW Only	Account - No Growth	-	-	-	-	-	-	-	-	-	-	-
Subtotal		5,661	6,727	7,587	8,064	7,699	7,436	7,595	7,743	7,876	8,008	8,150
Total		322,404	326,981	326,827	314,178	352,212	289,730	295,890	301,663	306,874	312,012	317,516

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Deductions: Gross Area Appeals (sf)	Factored by 1000											**Customer - 34**
Residential												
Non-Discount												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Discount: Elderly, Education & Charities												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Discount PHA												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Subtotal							-	-	-	-	-	-
Non-Residential												
Non-Discount												
Water & Sewer							413	713	901	977	977	977
SW Only							-	-	-	-	-	-
Discount: Elderly, Education & Charities												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Discount PHA												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Subtotal							413	713	901	977	977	977
Condominiums												
Non-Discount												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Discount: Elderly, Education & Charities												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Discount PHA												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Subtotal							-	-	-	-	-	-
Total							413	713	901	977	977	977

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Deductions: GA Community Gardens	Factored by 1000											**Customer - 35**
Residential												
Non-Discount												
Water & Sewer							0	1	1	1	2	2
SW Only							-	-	-	-	-	-
Discount: Elderly, Education & Charities												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Discount PHA												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Subtotal							0	1	1	1	2	2
Non-Residential												
Non-Discount												
Water & Sewer							9	19	28	38	47	57
SW Only							23	47	70	93	117	140
Discount: Elderly, Education & Charities												
Water & Sewer							34	68	101	135	169	203
SW Only							5	11	16	21	27	32
Discount PHA												
Water & Sewer							-	-	-	-	-	-
SW Only							1	3	4	6	7	9
xxxxxxxxxx (Not In Use)												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Subtotal							73	147	220	293	367	440
Condominiums												
Non-Discount												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Discount: Elderly, Education & Charities												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Discount PHA												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
xxxxxxxxx												
Water & Sewer							-	-	-	-	-	-
SW Only							-	-	-	-	-	-
Subtotal							-	-	-	-	-	-
Total							74	147	221	295	369	442

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Final Gross Area (sf)	Factored by 1000											**Customer - 36**
Residential												
Non-Discount												
Water & Sewer		911,003	912,220	914,735	916,223	915,827	904,642	904,641	904,641	904,641	904,640	904,640
SW Only		14,594	14,065	13,649	13,372	15,132	14,992	14,992	14,992	14,992	14,992	14,992
Discount: Elderly, Education & Charities												
Water & Sewer		43,521	43,405	41,487	40,519	39,170	45,221	45,221	45,221	45,221	45,221	45,221
SW Only		129	153	100	99	87	29	29	29	29	29	29
Discount PHA												
Water & Sewer		4,633	4,588	4,498	4,453	4,401	7,972	7,972	7,972	7,972	7,972	7,972
SW Only		229	222	176	181	165	300	300	300	300	300	300
xxxxxxxxx												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		974,110	974,653	974,646	974,847	974,782	973,156	973,156	973,156	973,155	973,155	973,155
Non-Residential												
Non-Discount												
Water & Sewer		736,299	733,782	751,922	773,496	736,513	789,009	784,695	780,745	777,273	773,924	770,337
SW Only		235,015	233,011	229,114	222,481	219,568	226,846	225,349	223,945	222,675	221,422	220,082
Discount: Elderly, Education & Charities												
Water & Sewer		125,500	124,228	112,007	108,915	105,247	106,356	105,809	105,295	104,827	104,366	103,874
SW Only		4,964	5,294	4,936	4,642	5,089	5,893	5,876	5,860	5,846	5,831	5,815
Discount PHA												
Water & Sewer		12,825	12,961	12,884	12,872	12,924	12,971	12,971	12,971	12,971	12,971	12,971
SW Only		5,349	3,925	3,939	3,726	3,278	3,277	3,275	3,274	3,272	3,271	3,269
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		1,119,952	1,113,201	1,114,803	1,126,133	1,082,620	1,144,352	1,137,977	1,132,091	1,126,864	1,121,785	1,116,349
Condominiums												
Non-Discount												
Water & Sewer		24,530	26,299	27,339	27,298	28,487	28,690	28,544	28,407	28,283	28,161	28,031
SW Only		775	969	916	932	935	951	950	949	948	947	946
Discount: Elderly, Education & Charities												
Water & Sewer		1,284	1,269	1,128	1,292	1,319	1,362	1,351	1,341	1,332	1,322	1,313
SW Only		25	25	-	-	-	-	-	-	-	-	-
Discount PHA												
Water & Sewer		9	9	9	9	9	9	9	9	9	9	9
SW Only		-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		26,623	28,571	29,392	29,531	30,749	31,012	30,854	30,706	30,572	30,441	30,299
Total		2,120,686	2,116,425	2,118,841	2,130,511	2,088,151	2,148,521	2,141,987	2,135,953	2,130,592	2,125,380	2,119,803
Total Adjustments (Final - Initial)						352,212	290,217	296,751	302,785	308,146	313,357	318,935
Annual Change							(61,995)	6,534	6,034	5,361	5,212	5,578

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Stormwater - Existing Rates												**Customer - 37**
Actual Rate												
Service Charge Based Rates ($/bill) [Including Billing & Collection Charge]												
5/8"		-	-	-	-	-	-	-	-	-	-	-
3/4"		-	-	-	-	-	-	-	-	-	-	-
1"		-	-	-	-	-	-	-	-	-	-	-
1 1/4"		-	-	-	-	-	-	-	-	-	-	-
1 1/2"		-	-	-	-	-	-	-	-	-	-	-
2"		-	-	-	-	-	-	-	-	-	-	-
3"		-	-	-	-	-	-	-	-	-	-	-
4"		-	-	-	-	-	-	-	-	-	-	-
6"		-	-	-	-	-	-	-	-	-	-	-
8"		-	-	-	-	-	-	-	-	-	-	-
10"		-	-	-	-	-	-	-	-	-	-	-
12"		-	-	-	-	-	-	-	-	-	-	-
14"		-	-	-	-	-	-	-	-	-	-	-
Parcel Area Based Rates												
Billing & Collection Charge ($/bill)												
Residential		2.22	1.80	1.77	1.77	1.82	1.88	1.88	1.88	1.88	1.88	1.88
Non-Residential		2.89	2.34	2.30	2.30	2.36	2.44	2.44	2.44	2.44	2.44	2.44
Condominium		2.89	2.34	2.30	2.30	2.36	2.44	2.44	2.44	2.44	2.44	2.44
IA/GA Charges												
Residential IA/GA Charge ($/bill)		12.49	13.73	14.03	14.03	15.04	16.17	16.17	16.17	16.17	16.17	16.17
IA Rate ($/500 sf)												
Non-Residential		4.912	5.304	5.410	5.410	5.117	5.492	5.492	5.492	5.492	5.492	5.492
Condominium		4.912	5.304	5.410	5.410	5.117	5.492	5.492	5.492	5.492	5.492	5.492
GA Rate ($/500 sf)												
Non-Residential		0.632	0.701	0.717	0.717	0.724	0.778	0.778	0.778	0.778	0.778	0.778
Condominium		0.632	0.701	0.717	0.717	0.724	0.778	0.778	0.778	0.778	0.778	0.778

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Stormwater - Existing Rates												**Customer - 37**
Effective Rate												
Effective Months												
Service Charge		12.00	10.00	10.00	10.00	10.00	10.00	12.00	12.00	12.00	12.00	12.00
Volume Charge		11.50	9.50	9.50	9.50	9.50	9.50	11.50	11.50	11.50	11.50	11.50
Phase-in												
Meter Based Charges		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Parcel Based Charges		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Service Charge Based Rates ($/bill)												
5/8"		-	-	-	-	-	-	-	-	-	-	-
3/4"		-	-	-	-	-	-	-	-	-	-	-
1"		-	-	-	-	-	-	-	-	-	-	-
1 1/4"		-	-	-	-	-	-	-	-	-	-	-
1 1/2"		-	-	-	-	-	-	-	-	-	-	-
2"		-	-	-	-	-	-	-	-	-	-	-
3"		-	-	-	-	-	-	-	-	-	-	-
4"		-	-	-	-	-	-	-	-	-	-	-
6"		-	-	-	-	-	-	-	-	-	-	-
8"		-	-	-	-	-	-	-	-	-	-	-
10"		-	-	-	-	-	-	-	-	-	-	-
12"		-	-	-	-	-	-	-	-	-	-	-
14"		-	-	-	-	-	-	-	-	-	-	-
Parcel Area Based Rates												
Effective Billing & Collection Charge ($/bill)												
Residential		2.22	1.87	1.77	1.77	1.81	1.87	1.88	1.88	1.88	1.88	1.88
Non-Residential		2.89	2.43	2.30	2.30	2.35	2.43	2.44	2.44	2.44	2.44	2.44
Condominium		2.89	2.43	2.30	2.30	2.35	2.43	2.44	2.44	2.44	2.44	2.44
Effective IA/GA Charges												
Residential IA/GA Charge ($/bill)		12.47	13.47	13.97	14.03	14.83	15.93	16.17	16.17	16.17	16.17	16.17
IA Rate ($/500 sf)												
Non-Residential		4.903	5.222	5.388	5.410	5.178	5.414	5.492	5.492	5.492	5.492	5.492
Condominium		4.903	5.222	5.388	5.410	5.178	5.414	5.492	5.492	5.492	5.492	5.492
GA Rate ($/500 sf)												
Non-Residential		0.631	0.687	0.713	0.717	0.723	0.767	0.778	0.778	0.778	0.778	0.778
Condominium		0.631	0.687	0.713	0.717	0.723	0.767	0.778	0.778	0.778	0.778	0.778

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Stormwater - Calculated Billings (prior to adjustment factor)												**Customer - 38**
Service Charge Based Rates ($/bill)												
Senior Citizens												
5/8" Meter		-	-	-	-	-	-	-	-	-	-	-
> 5/8" Meter		-	-	-	-	-	-	-	-	-	-	-
Total Senior Citizens		-	-	-	-	-	-	-	-	-	-	-
General Service (Excluding Senior Citizens)												
5/8" Meter		-	-	-	-	-	-	-	-	-	-	-
> 5/8" Meter		-	-	-	-	-	-	-	-	-	-	-
Total General Service (excluding SC)		-	-	-	-	-	-	-	-	-	-	-
General Service (Including Senior Citizens)												
5/8" Meter		-	-	-	-	-	-	-	-	-	-	-
> 5/8" Meter		-	-	-	-	-	-	-	-	-	-	-
Total General Service (including SC)		-	-	-	-	-	-	-	-	-	-	-
PHA		-	-	-	-	-	-	-	-	-	-	-
Charities & Schools		-	-	-	-	-	-	-	-	-	-	-
Hospital/University		-	-	-	-	-	-	-	-	-	-	-
Hand Billed		-	-	-	-	-	-	-	-	-	-	-
Scheduled		-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx		-	-	-	-	-	-	-	-	-	-	-
Fire Service		-	-	-	-	-	-	-	-	-	-	-
Sewer Only		-	-	-	-	-	-	-	-	-	-	-
Total		-	-	-	-	-	-	-	-	-	-	-

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Stormwater - Calculated Billings (prior to adjustment factor)												**Customer - 38**
Billing & Collection Charges (Accounts)												
Residential												
Non-Discount												
Water & Sewer		11,416	9,642	9,180	9,198	9,407	9,710	9,762	9,762	9,762	9,762	9,762
SW Only		188	145	133	128	156	161	162	162	162	162	162
Discount: Elderly, Education & Charities												
Water & Sewer		469	397	361	353	352	363	365	365	365	365	365
SW Only		1	0	0	0	0	0	0	0	0	0	0
Discount PHA												
Water & Sewer		106	89	82	81	82	85	85	85	85	85	85
SW Only		5	4	3	3	3	3	3	3	3	3	3
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		12,185	10,279	9,759	9,763	10,000	10,322	10,378	10,378	10,378	10,378	10,378
Non-Residential												
Non-Discount												
Water & Sewer		1,358	1,146	1,100	1,188	1,142	1,179	1,186	1,186	1,186	1,186	1,186
SW Only		1,240	1,037	974	932	916	946	951	951	950	950	950
Discount: Elderly, Education & Charities												
Water & Sewer		62	50	41	40	39	40	40	40	40	40	40
SW Only		6	6	4	4	4	4	4	4	4	4	3
Discount PHA												
Water & Sewer		39	35	35	38	39	40	40	40	40	40	40
SW Only		65	55	52	47	33	34	35	35	35	35	35
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		2,770	2,328	2,206	2,248	2,172	2,243	2,255	2,255	2,255	2,254	2,254
Condominiums												
Non-Discount												
Water & Sewer		144	130	125	122	130	134	135	135	135	135	135
SW Only		1	1	2	2	1	1	1	1	1	1	1
Discount: Elderly, Education & Charities												
Water & Sewer		13	10	10	13	13	14	14	14	14	14	14
SW Only		0	0	-	-	-	-	-	-	-	-	-
Discount PHA												
Water & Sewer		-	-	-	0	-	-	-	-	-	-	-
SW Only		0	0	0	-	0	0	0	0	0	0	0
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		158	142	137	136	144	149	150	150	150	150	150
Total		15,113	12,748	12,102	12,148	12,317	12,714	12,783	12,782	12,782	12,782	12,782

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Stormwater - Calculated Billings (prior to adjustment factor)												**Customer - 38**
GA/IA Charges (Parcels)												
Residential												
Non-Discount												
Water & Sewer		63,888	69,210	72,051	72,567	76,660	82,372	83,589	83,589	83,589	83,589	83,589
SW Only		1,059	1,047	1,042	1,008	1,270	1,365	1,385	1,385	1,385	1,385	1,385
Discount: Elderly, Education & Charities												
Water & Sewer		2,629	2,856	2,839	2,790	2,874	3,088	3,134	3,134	3,134	3,134	3,134
SW Only		3	3	2	2	2	2	2	2	2	2	2
Discount PHA												
Water & Sewer		574	614	622	618	642	690	700	700	700	700	700
SW Only		30	32	25	26	24	26	26	26	26	26	26
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		68,183	73,761	76,582	77,010	81,472	87,543	88,836	88,836	88,836	88,836	88,836
Non-Residential												
Non-Discount												
Water & Sewer		63,574	67,983	71,537	72,637	69,821	73,936	74,485	74,026	73,649	73,294	72,897
SW Only		12,660	13,420	13,858	13,500	12,859	13,511	13,609	13,520	13,443	13,367	13,284
Discount: Elderly, Education & Charities												
Water & Sewer		8,224	8,633	7,890	7,674	7,290	7,562	7,639	7,609	7,583	7,558	7,530
SW Only		333	375	331	307	311	375	379	379	378	377	377
Discount PHA												
Water & Sewer		920	999	1,013	1,020	1,035	1,091	1,107	1,107	1,107	1,107	1,107
SW Only		230	224	229	221	195	205	208	208	208	208	208
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		85,941	91,635	94,859	95,358	91,511	96,681	97,428	96,849	96,368	95,911	95,403
Condominiums												
Non-Discount												
Water & Sewer		2,495	2,832	3,063	3,007	3,036	3,111	3,132	3,109	3,091	3,072	3,051
SW Only		74	95	42	99	97	103	104	104	104	104	104
Discount: Elderly, Education & Charities												
Water & Sewer		63	67	71	88	88	91	91	90	90	89	88
SW Only		2	2	-	-	-	-	-	-	-	-	-
Discount PHA												
Water & Sewer		1	1	1	1	1	1	1	1	1	1	1
SW Only		-	-	-	-	-	-	-	-	-	-	-
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		2,636	2,997	3,178	3,195	3,222	3,306	3,328	3,305	3,285	3,266	3,245
Total		156,760	168,394	174,618	175,563	176,205	187,529	189,592	188,990	188,490	188,014	187,484

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Stormwater - Calculated Billings (prior to adjustment factor)												**Customer - 38**
Parcel Area Based Charges (Billing & Collection + GA/IA)												
Residential												
Non-Discount												
Water & Sewer		75,304	78,852	81,231	81,764	86,067	92,082	93,351	93,351	93,351	93,351	93,351
SW Only		1,247	1,193	1,175	1,135	1,426	1,526	1,547	1,547	1,547	1,547	1,547
Discount: Elderly, Education & Charities												
Water & Sewer		3,098	3,253	3,200	3,142	3,226	3,451	3,499	3,499	3,499	3,499	3,499
SW Only		3	4	2	2	2	2	2	2	2	2	2
Discount PHA												
Water & Sewer		680	703	704	699	724	774	785	785	785	785	785
SW Only		36	36	28	30	27	29	29	29	29	29	29
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		80,368	84,040	86,341	86,773	91,472	97,865	99,214	99,214	99,214	99,214	99,214
Non-Residential												
Non-Discount												
Water & Sewer		64,932	69,129	72,638	73,825	70,963	75,115	75,671	75,212	74,835	74,479	74,083
SW Only		13,900	14,457	14,832	14,432	13,775	14,457	14,560	14,470	14,393	14,318	14,234
Discount: Elderly, Education & Charities												
Water & Sewer		8,285	8,683	7,931	7,714	7,329	7,603	7,679	7,650	7,624	7,599	7,571
SW Only		339	381	335	310	315	378	383	382	381	381	380
Discount PHA												
Water & Sewer		959	1,034	1,049	1,058	1,074	1,131	1,147	1,147	1,147	1,147	1,147
SW Only		295	279	281	268	229	240	243	243	242	242	242
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		88,712	93,963	97,065	97,606	93,684	98,924	99,683	99,103	98,623	98,166	97,657
Condominiums												
Non-Discount												
Water & Sewer		2,639	2,962	3,189	3,129	3,166	3,245	3,267	3,244	3,225	3,207	3,186
SW Only		76	96	44	101	98	104	106	106	105	105	105
Discount: Elderly, Education & Charities												
Water & Sewer		76	77	81	101	101	104	105	104	103	103	102
SW Only		2	2	-	-	-	-	-	-	-	-	-
Discount PHA												
Water & Sewer		1	1	1	1	1	1	1	1	1	1	1
SW Only		0	0	0	-	0	0	0	0	0	0	0
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		2,794	3,138	3,315	3,332	3,366	3,455	3,478	3,455	3,435	3,416	3,395
Total		171,873	181,141	186,720	187,711	188,522	200,244	202,374	201,772	201,272	200,796	200,265

Note - Elderly Discounts refers to Senior Citizen Discount

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Stormwater - Calculated Billings (prior to adjustment factor)												**Customer - 38**
Total Stormwater Charge												
Water & Sewer		155,974	164,693	170,023	171,433	172,651	183,508	185,505	184,993	184,571	184,171	183,725
SW Only		15,899	16,448	16,698	16,278	15,871	16,736	16,870	16,779	16,701	16,625	16,541
Total Stormwater Charge-xxxxxxxxxx												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Total		171,873	181,141	186,720	187,711	188,522	200,244	202,374	201,772	201,272	200,796	200,265
Actual		178,811	187,462	193,104	194,378	194,380						
		96.1%	96.6%	96.7%	96.6%	97.0%						

Description	Escalation	Historical					Study Period					
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Stormwater - Retail - Billings Under Existing Rates (after adjustment factor)												**Customer - 39**
Section provided to allow for actual billings input												
Total Stormwater Charge												
Water & Sewer		155,974	164,693	170,023	171,433	172,651	183,508	185,505	184,993	184,571	184,171	183,725
SW Only		15,899	16,448	16,698	16,278	15,871	16,736	16,870	16,779	16,701	16,625	16,541
Total		171,873	181,141	186,720	187,711	188,522	200,244	202,374	201,772	201,272	200,796	200,265
CAP Reduction												
Water & Sewer		(1,825)	(1,821)	(1,569)	(1,284)	(990)	(916)	(917)	(917)	(917)	(917)	(917)
SW Only		(186)	(182)	(154)	(122)	(91)	(84)	(83)	(83)	(83)	(83)	(83)
Total (a)		(2,011)	(2,003)	(1,723)	(1,406)	(1,081)	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)
Data Source: PWD SWDB												
Total Stormwater Charge												
Water & Sewer		154,149	162,872	168,454	170,149	171,661	182,592	184,588	184,076	183,654	183,253	182,807
SW Only		15,713	16,266	16,544	16,156	15,780	16,652	16,786	16,696	16,618	16,542	16,458
Total		169,862	179,138	184,998	186,305	187,441	199,244	201,374	200,772	200,272	199,796	199,265

(a) Source Data: PWD Assistance Program Data

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Stormwater - Retail - Collections												**Customer - 40**
Total Stormwater Charge												
Water & Sewer		154,149	162,872	168,454	170,149	171,661	182,592	184,588	184,076	183,654	183,253	182,807
SW Only		15,713	16,266	16,544	16,156	15,780	16,652	16,786	16,696	16,618	16,542	16,458
Total Stormwater Charge-xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Total		169,862	179,138	184,998	186,305	187,441	199,244	201,374	200,772	200,272	199,796	199,265
Collection Factors												
Water & Sewer (Excludes AMI Adjustment)												
Current Year		87.89%	86.87%	84.76%	84.62%	84.13%	84.65%	84.65%	84.65%	84.65%	84.65%	84.65%
First Year Prior		8.17%	8.36%	8.89%	8.54%	10.49%	10.29%	10.29%	10.29%	10.29%	10.29%	10.29%
Second Year Prior		1.90%	1.90%	1.94%	1.92%	2.04%	2.04%	2.04%	2.04%	2.04%	2.04%	2.04%
SW Only												
Current Year		67.26%	68.27%	69.19%	66.34%	68.90%	64.20%	64.20%	64.20%	64.20%	64.20%	64.20%
First Year Prior		7.96%	8.22%	8.63%	9.51%	10.52%	8.99%	8.99%	8.99%	8.99%	8.99%	8.99%
Second Year Prior		6.65%	6.65%	6.65%	6.75%	7.23%	7.23%	7.23%	7.23%	7.23%	7.23%	7.23%
Effective												
Current Year			85.18%	83.37%	83.03%	82.85%	82.95%	82.95%	82.95%	82.96%	82.96%	82.97%
First Year Prior			8.35%	8.87%	8.62%	10.49%	10.18%	10.18%	10.18%	10.18%	10.18%	10.19%
Second Year Prior			2.33%	2.36%	2.34%	2.48%	2.47%	2.47%	2.47%	2.47%	2.47%	2.47%
xxxxxxxxxx												
Current Year		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
First Year Prior		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Second Year Prior		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Collections-Total												
Water & Sewer			154,374	160,251	161,493	165,700	175,708	178,554	178,549	178,179	177,786	177,359
Stormwater Only			12,396	13,895	13,389	13,769	13,279	13,416	13,434	13,385	13,323	13,256
Subtotal-Total			166,770	174,147	174,882	179,469	188,987	191,970	191,982	191,564	191,109	190,615
Collections-xxxxxxxxxx (Not in Use)												
Water & Sewer			-	-	-	-	-	-	-	-	-	-
Stormwater Only			-	-	-	-	-	-	-	-	-	-
Subtotal-xxxxxxxxxx			-	-	-	-	-	-	-	-	-	-
Total		-	166,770	174,147	174,882	179,469	188,987	191,970	191,982	191,564	191,109	190,615
Actual-Total												
Water & Sewer		-	-	-	-	-	-					
Stormwater Only		-	-	-	-	-	-					
Actual-xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-					
Stormwater Only		-	-	-	-	-	-					
Actual		141,217	155,511	155,259	159,024	161,409						
Check			107%	112%	110%	111%						

Description	Escalation	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detail Stormwater - Retail - Collections												**Customer - 41**
Residential												
Non-Discount												
Water & Sewer	x	66,185	74,794	77,322	77,640	82,641	88,477	90,258	90,511	90,537	90,537	90,537
SW Only	x	839	917	999	945	1,187	1,190	1,234	1,243	1,244	1,244	1,244
Discount: Elderly, Education & Charities												
Water & Sewer	x	2,723	3,085	3,062	2,995	3,109	3,318	3,383	3,392	3,393	3,393	3,393
SW Only	x	2	3	2	2	2	2	2	2	2	2	2
Discount PHA												
Water & Sewer	x	597	667	673	665	697	744	759	761	761	761	761
SW Only	x	24	28	25	25	24	23	23	24	24	24	24
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		70,370	79,493	82,082	82,272	87,659	93,754	95,658	95,932	95,961	95,961	95,961
Non-Residential												
Non-Discount												
Water & Sewer (adj for CAP)	x	55,465	63,746	67,446	68,746	67,926	71,493	72,346	72,100	71,745	71,396	71,015
SW Only (adj for CAP)	x	9,224	10,873	12,300	11,853	11,995	11,494	11,577	11,578	11,528	11,467	11,401
Discount: Elderly, Education & Charities												
Water & Sewer	x	7,282	8,235	7,655	7,371	7,137	7,348	7,433	7,421	7,398	7,373	7,346
SW Only	x	228	288	287	263	274	294	303	307	307	306	306
Discount PHA												
Water & Sewer	x	843	978	999	1,004	1,036	1,090	1,110	1,112	1,113	1,113	1,113
SW Only	x	199	215	238	223	206	194	194	195	195	195	195
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		73,241	84,336	88,925	89,461	88,573	91,911	92,961	92,714	92,286	91,850	91,376
Condominiums												
Non-Discount												
Water & Sewer	x	2,320	2,794	3,017	2,977	3,057	3,137	3,164	3,149	3,131	3,113	3,093
SW Only	x	51	72	44	77	81	83	84	85	85	85	85
Discount: Elderly, Education & Charities												
Water & Sewer	x	66	73	77	94	98	101	102	101	100	100	99
SW Only	x	1	2	0	0	-	-	-	-	-	-	-
Discount PHA												
Water & Sewer	x	1	1	1	1	1	1	1	1	1	1	1
SW Only	x	0	0	0	0	0	0	0	0	0	0	0
xxxxxxxxxx (Not In Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
SW Only		-	-	-	-	-	-	-	-	-	-	-
Subtotal		2,439	2,941	3,139	3,149	3,237	3,322	3,351	3,336	3,317	3,298	3,278
Total		146,050	166,770	174,147	174,882	179,469	188,987	191,970	191,982	191,564	191,109	190,615
Collections-Total												
Water & Sewer		135,482	154,374	160,251	161,493	165,700	175,708	178,554	178,549	178,179	177,786	177,359
Check			-	-	-	-	-	-	-	-	-	-
Stormwater Only		10,568	12,396	13,895	13,389	13,769	13,279	13,416	13,434	13,385	13,323	13,256
Check			-	-	-	-	-	-	-	-	-	-
Collections-xxxxxxxxxx (Not in Use)												
Water & Sewer		-	-	-	-	-	-	-	-	-	-	-
Check		-	-	-	-	-	-	-	-	-	-	-
Stormwater Only		-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-

Note - Elderly Discounts refers to Senior Citizen Discount

FINPLAN23_24.XLS

BILLTAB

Index	Description	Table

Bill Tab	Bill Tabulation Data Worksheet
Bill Tab - 1	Water Bill Tabulation Data
Bill Tab - 2	Sewer Bill Tabulation Data

Water Bill Tabulation Data

Bill Tab - 1

SELECTED BILL TAB DISTRIBUTION 2022

Description	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Billed	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Private Fire (Unmetered)
Water Accounts											
Meters											
5/8	95.16%	99.95%	92.75%	43.46%	6.52%	3.88%	100.00%	100.00%	100.00%	0.60%	0.68%
3/4	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.28%
1	2.80%	0.05%	0.55%	13.41%	15.94%	3.45%	0.00%	0.00%	0.00%	2.16%	33.39%
1 1/4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1 1/2	0.59%	0.00%	3.37%	6.27%	5.80%	3.88%	0.00%	0.00%	0.00%	2.05%	4.14%
2	0.80%	0.00%	1.92%	11.23%	10.87%	12.50%	0.00%	0.00%	0.00%	41.55%	32.32%
3	0.25%	0.00%	0.65%	10.36%	25.36%	25.86%	0.00%	0.00%	0.00%	2.56%	1.25%
4	0.20%	0.00%	0.46%	13.69%	20.29%	26.29%	0.00%	0.00%	0.00%	17.45%	9.65%
6	0.14%	0.00%	0.21%	1.36%	11.59%	15.09%	0.00%	0.00%	0.00%	24.75%	13.20%
8	0.05%	0.00%	0.09%	0.22%	2.17%	6.03%	0.00%	0.00%	0.00%	7.63%	4.38%
10	0.01%	0.00%	0.00%	0.00%	1.45%	2.16%	0.00%	0.00%	0.00%	1.10%	0.62%
12	0.00%	0.00%	0.00%	0.00%	0.00%	0.86%	0.00%	0.00%	0.00%	0.15%	0.10%
14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Volume											
0 - 2 Mcf	59.18%	86.21%	33.93%	16.38%	2.06%	0.86%	95.60%	100.00%	100.00%	64.95%	
2 - 100 Mcf	31.41%	13.43%	44.19%	75.18%	43.10%	24.09%	4.40%	0.00%	0.00%	35.05%	
100 - 2,000 Mcf	8.90%	0.36%	21.89%	8.33%	52.85%	53.62%	0.00%	0.00%	0.00%	0.00%	
Over 2,000 Mcf	0.30%	0.00%	0.00%	0.11%	1.99%	21.43%	0.00%	0.00%	0.00%	0.00%	
Total	99.79%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	

Water Bill Tabulation Data

Bill Tab - 1a

SELECTED BILL TAB DISTRIBUTION

Year Choose: 2022

Description	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Private Fire (Unmetered)	Total
Water Accounts												
Meters	474,184	22,063	5,666	1,834	138	232	6	-	-	6,837	11,389	
5/8	451,238	22,052	5,255	797	9	9	6	-	-	41	77	479,484
3/4	76	-	-	-	-	-	-	-	-	-	32	108
1	13,254	11	31	246	22	8	-	-	-	148	3,803	17,523
1 1/4	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2	2,783	-	191	115	8	9	-	-	-	140	471	3,717
2	3,809	-	109	206	15	29	-	-	-	2,841	3,681	10,690
3	1,186	-	37	190	35	60	-	-	-	175	142	1,825
4	928	-	26	251	28	61	-	-	-	1,193	1,099	3,586
6	647	-	12	25	16	35	-	-	-	1,692	1,503	3,930
8	218	-	5	4	3	14	-	-	-	522	499	1,265
10	39	-	-	-	2	5	-	-	-	75	70	191
12	6	-	-	-	-	2	-	-	-	10	12	30
14	-	-	-	-	-	-	-	-	-	-	-	-
Total	474,184	22,063	5,666	1,834	138	232	6	-	-	6,837	11,389	522,349
Volume	4,815,122	123,911	154,693	137,520	104,294	484,406	32	-	-	197		
0 - 2 Mcf	2,849,565	106,819	52,480	22,529	2,153	4,179	30	-	-	128		3,037,884
2 - 100 Mcf	1,512,298	16,642	68,357	103,389	44,950	116,680	1	-	-	69		1,862,387
100 - 2,000 Mcf	428,514	450	33,856	11,454	55,115	259,722	-	-	-	-		789,110
Over 2,000 Mcf	14,536	-	-	147	2,077	103,824	-	-	-	-		120,584
Total	4,804,912	123,911	154,693	137,520	104,294	484,406	32	-	-	197		5,809,965

Water

Bill Tab - 1b

SELECTED BILL TAB DISTRIBUTION Year Choose: 2022

Description	Residential	Commercial	Industrial	Public Utilities	Residential	Commercial	Industrial	Public Utilities	Total
						Year Choose:	2022		
Meters	91.77%	7.96%	0.22%	0.04%	435,172	37,757	1,057	198	474,184
5/8	97.12%	74.23%	47.40%	39.90%	422,630	28,028	501	79	451,238
3/4	0.02%	0.02%	0.00%	0.00%	67	9	-	-	76
1	2.20%	9.06%	22.04%	19.19%	9,563	3,420	233	38	13,254
1 1/4	0.00%	0.00%	0.00%	0.00%	-	-	-	-	-
1 1/2	0.26%	4.12%	7.76%	7.58%	1,129	1,557	82	15	2,783
2	0.30%	6.19%	11.54%	14.65%	1,319	2,339	122	29	3,809
3	0.04%	2.47%	6.05%	10.10%	170	932	64	20	1,186
4	0.03%	2.03%	2.08%	4.55%	129	768	22	9	928
6	0.03%	1.32%	2.08%	2.53%	120	500	22	5	647
8	0.01%	0.44%	0.85%	1.01%	41	166	9	2	218
10	0.00%	0.09%	0.19%	0.00%	3	34	2	-	39
12	0.00%	0.01%	0.00%	0.51%	1	4	-	1	6
14	0.00%	0.00%	0.00%	0.00%	-	-	-	-	-
Total	100.00%	100.00%	100.00%	100.00%	435,172	37,757	1,057	198	474,184
Volume	62.68%	35.32%	1.79%	0.21%	3,017,917	1,700,832	86,162	10,210	4,815,122
0 - 2 Mcf	83.04%	19.55%	12.79%	15.46%	2,506,020	332,524	11,020	1,578	2,851,143
2 - 100 Mcf	15.99%	57.68%	56.44%	74.18%	482,604	981,062	48,632	7,573	1,519,871
100 - 2,000 Mcf	0.97%	21.91%	30.77%	10.36%	29,293	372,711	26,510	1,058	429,572
Over 2,000 Mcf	0.00%	0.85%	0.00%	0.00%	-	14,536	-	-	14,536
Total	100.00%	100.00%	100.00%	100.00%	3,017,917	1,700,832	86,162	10,210	4,815,122

Water Bill Tabulation Data

Bill Tab - 1

2022 Data

Description	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Billed	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Private Fire (Unmetered)
Water Accounts											
Meters											
5/8	95.16%	99.95%	92.75%	43.46%	6.52%	3.88%	100.00%	100.00%	100.00%	0.60%	0.68%
3/4	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.28%
1	2.80%	0.05%	0.55%	13.41%	15.94%	3.45%	0.00%	0.00%	0.00%	2.16%	33.39%
1 1/4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1 1/2	0.59%	0.00%	3.37%	6.27%	5.80%	3.88%	0.00%	0.00%	0.00%	2.05%	4.14%
2	0.80%	0.00%	1.92%	11.23%	10.87%	12.50%	0.00%	0.00%	0.00%	41.55%	32.32%
3	0.25%	0.00%	0.65%	10.36%	25.36%	25.86%	0.00%	0.00%	0.00%	2.56%	1.25%
4	0.20%	0.00%	0.46%	13.69%	20.29%	26.29%	0.00%	0.00%	0.00%	17.45%	9.65%
6	0.14%	0.00%	0.21%	1.36%	11.59%	15.09%	0.00%	0.00%	0.00%	24.75%	13.20%
8	0.05%	0.00%	0.09%	0.22%	2.17%	6.03%	0.00%	0.00%	0.00%	7.63%	4.38%
10	0.01%	0.00%	0.00%	0.00%	1.45%	2.16%	0.00%	0.00%	0.00%	1.10%	0.62%
12	0.00%	0.00%	0.00%	0.00%	0.00%	0.86%	0.00%	0.00%	0.00%	0.15%	0.10%
14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Volume											
0 - 2 Mcf	59.21%	86.21%	33.93%	16.38%	2.06%	0.86%	95.60%	100.00%	100.00%	64.95%	
2 - 100 Mcf	31.56%	13.43%	44.19%	75.18%	43.10%	24.09%	4.40%	0.00%	0.00%	35.05%	
100 - 2,000 Mcf	8.92%	0.00362778	21.89%	8.33%	52.85%	53.62%	0.00%	0.00%	0.00%	0.00%	
Over 2,000 Mcf	0.30%	0.00%	0.00%	0.11%	1.99%	21.43%	0.00%	0.00%	0.00%	0.00%	
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	

Water Bill Tabulation Data

Bill Tab - 1a

2022 Data

Description	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Private Fire (Unmetered)	Total
Water Accounts		Fiscal Year	2022									
Meters												
5/8	451,238	22,052	5,255	797	9	9	6	0	0	41	1,471	480,878
3/4	76	0	0	0	0	0	0			0	602	678
1	13,254	11	31	246	22	8	0			148	72,206	85,926
1 1/4	-	0	0	0	0	0	0			0	0	-
1 1/2	2,783	0	191	115	8	9	0			140	8,948	12,194
2	3,809	0	109	206	15	29	0			2,841	69,879	76,888
3	1,186	0	37	190	35	60	0			175	2,696	4,379
4	928	0	26	251	28	61	0			1,193	20,858	23,345
6	647	0	12	25	16	35	0			1,692	28,533	30,960
8	218	0	5	4	3	14	0			522	9,474	10,240
10	39	0	0	0	2	5	0			75	1,331	1,452
12	6	0	0	0	0	2	0			10	225	243
14	-	0	0	0	0	0	0			0	0	-
Total	474,184	22,063	5,666	1,834	138	232	6	0	0	6,837	216,223	727,183
Volume												
0 - 2 Mcf	2,879,578	107,384	53,468	23,166	2,133	4,346	30	0	0	118		3,070,222
2 - 100 Mcf	1,535,029	16,730	69,643	106,311	44,525	121,320	1			63		1,893,623
100 - 2,000 Mcf	433,856	452	34,493	11,777	54,594	270,052	0			0		805,224
Over 2,000 Mcf	14,681	0	0	152	2,058	107,953	0			0		124,842
Total	4,863,143	124,567	157,604	141,405	103,310	503,670	32	0	0	181		5,893,911

Water

Bill Tab - 1b

2022 Data

Description	Residential	Commercial	Industrial	Public Utilities	Residential	Commercial	Industrial	Public Utilities	Total
						Fiscal Year	2022		
Meters	91.77%	7.96%	0.22%	0.04%					
5/8	97.12%	74.23%	47.40%	39.90%	422,630	28,028	501	79	451,238
3/4	0.02%	0.02%	0.00%	0.00%	67	9	0	0	76
1	2.20%	9.06%	22.04%	19.19%	9,563	3,420	233	38	13,254
1 1/4	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
1 1/2	0.26%	4.12%	7.76%	7.58%	1,129	1,557	82	15	2,783
2	0.30%	6.19%	11.54%	14.65%	1,319	2,339	122	29	3,809
3	0.04%	2.47%	6.05%	10.10%	170	932	64	20	1,186
4	0.03%	2.03%	2.08%	4.55%	129	768	22	9	928
6	0.03%	1.32%	2.08%	2.53%	120	500	22	5	647
8	0.01%	0.44%	0.85%	1.01%	41	166	9	2	218
10	0.00%	0.09%	0.19%	0.00%	3	34	2	0	39
12	0.00%	0.01%	0.00%	0.51%	1	4	0	1	6
14	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	100.00%	100.00%	100.00%	100.00%	435,172	37,757	1,057	198	474,184
Volume	62.68%	35.32%	1.79%	0.21%					
0 - 2 Mcf	83.04%	19.55%	12.79%	15.46%	2,531,013	335,841	11,130	1,594	2,879,578
2 - 100 Mcf	15.99%	57.68%	56.44%	74.18%	487,418	990,846	49,117	7,649	1,535,029
100 - 2,000 Mcf	0.97%	21.91%	30.77%	10.36%	29,585	376,428	26,775	1,069	433,856
Over 2,000 Mcf	0.00%	0.85%	0.00%	0.00%	0	14,681	0	0	14,681
Total	100.00%	100.00%	100.00%	100.00%	3,048,015	1,717,795	87,021	10,312	4,863,143

Water Bill Tabulation Data

Bill Tab - 1

2021 Data

Description	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Billed	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Private Fire (Unmetered)
Water Accounts											
Meters											
5/8	95.58%	99.96%	92.92%	44.13%	6.43%	4.35%	100.00%	100.00%	100.00%	1.77%	0.69%
3/4	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.31%
1	2.51%	0.04%	0.52%	13.35%	15.71%	3.48%	0.00%	0.00%	0.00%	2.68%	31.80%
1 1/4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1 1/2	0.54%	0.00%	3.32%	6.24%	5.71%	3.91%	0.00%	0.00%	0.00%	2.32%	4.27%
2	0.76%	0.00%	1.87%	11.14%	11.43%	13.48%	0.00%	0.00%	0.00%	39.47%	31.51%
3	0.24%	0.00%	0.63%	10.23%	25.00%	25.65%	0.00%	0.00%	0.00%	2.53%	1.39%
4	0.18%	0.00%	0.44%	13.35%	20.00%	26.09%	0.00%	0.00%	0.00%	17.32%	10.18%
6	0.12%	0.00%	0.21%	1.35%	12.14%	14.35%	0.00%	0.00%	0.00%	24.78%	14.31%
8	0.04%	0.00%	0.09%	0.22%	2.14%	5.65%	0.00%	0.00%	0.00%	7.87%	4.79%
10	0.01%	0.00%	0.00%	0.00%	1.43%	2.17%	0.00%	0.00%	0.00%	1.13%	0.63%
12	0.00%	0.00%	0.00%	0.00%	0.00%	0.87%	0.00%	0.00%	0.00%	0.14%	0.11%
14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Volume											
0 - 2 Mcf	61.63%	88.18%	36.40%	18.39%	2.26%	0.86%	100.00%	100.00%	100.00%	13.13%	
2 - 100 Mcf	29.84%	11.82%	43.98%	73.75%	44.47%	23.20%	0.00%	0.00%	0.00%	58.49%	
100 - 2,000 Mcf	8.32%	0.00%	19.62%	7.86%	49.30%	52.71%	0.00%	0.00%	0.00%	28.38%	
Over 2,000 Mcf	0.21%	0.00%	0.00%	0.00%	3.97%	23.23%	0.00%	0.00%	0.00%	0.00%	
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	

Water Bill Tabulation Data

Bill Tab - 1a

2021 Data

Description	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Private Fire (Unmetered)	Total
Water Accounts		Fiscal Year	2021									
Meters												
5/8	449,174	22,215	5,313	820	9	10	5	0	0	104	1,339	478,989
3/4	77	0	0	0	0	0	0			0	600	677
1	11,804	8	30	248	22	8	0			157	61,636	73,913
1 1/4	-	0	0	0	0	0	0			0	0	-
1 1/2	2,542	0	190	116	8	9	0			136	8,277	11,278
2	3,571	0	107	207	16	31	0			2,313	61,069	67,314
3	1,125	0	36	190	35	59	0			148	2,695	4,288
4	857	0	25	248	28	60	0			1,015	19,735	21,968
6	576	0	12	25	17	33	0			1,452	27,746	29,861
8	192	0	5	4	3	13	0			461	9,294	9,972
10	37	0	0	0	2	5	0			66	1,224	1,334
12	7	0	0	0	0	2	0			8	216	233
14	-	0	0	0	0	0	0			0	0	-
Total	469,962	22,223	5,718	1,858	140	230	5	0	0	5,860	193,831	699,827
Volume												
0 - 2 Mcf	2,929,016	112,099	53,836	21,101	2,361	4,353	38	0	0	1,299		3,124,103
2 - 100 Mcf	1,418,125	15,029	65,049	84,631	46,495	117,102	0	0	0	5,788		1,752,219
100 - 2,000 Mcf	395,552	0	29,024	9,023	51,536	266,119	0	0	0	2,809		754,062
Over 2,000 Mcf	9,875	0	0	0	4,153	117,261	0	0	0	0		131,288
Total	4,752,567	127,129	147,909	114,755	104,543	504,835	38	0	0	9,896		5,761,671

Water

Bill Tab - 1b

2021 Data

Description	Residential	Commercial	Industrial	Public Utilities	Residential Fiscal Year	Commercial	Industrial 2021	Public Utilities	Total
Meters	91.81%	7.93%	0.22%	0.04%					
5/8	97.46%	75.36%	48.38%	41.44%	420,516	28,074	509	75	449,174
3/4	0.02%	0.03%	0.00%	0.00%	67	10	0	0	77
1	1.92%	8.79%	22.05%	18.78%	8,265	3,273	232	34	11,804
1 1/4	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
1 1/2	0.23%	3.90%	7.60%	6.63%	999	1,451	80	12	2,542
2	0.28%	5.94%	11.41%	16.02%	1,208	2,214	120	29	3,571
3	0.04%	2.37%	5.89%	9.39%	162	884	62	17	1,125
4	0.03%	1.92%	1.81%	3.87%	117	714	19	7	857
6	0.02%	1.20%	1.90%	2.76%	103	448	20	5	576
8	0.01%	0.40%	0.76%	0.55%	35	148	8	1	192
10	0.00%	0.08%	0.19%	0.00%	5	30	2	0	37
12	0.00%	0.01%	0.00%	0.55%	1	5	0	1	7
14	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	100.00%	100.00%	100.00%	100.00%	431,478	37,251	1,052	181	469,962
Volume	64.90%	33.11%	1.80%	0.19%					
0 - 2 Mcf	84.02%	20.67%	12.73%	16.49%	2,591,376	325,266	10,903	1,470	2,929,016
2 - 100 Mcf	15.01%	57.34%	54.32%	71.69%	462,886	902,320	46,527	6,392	1,418,125
100 - 2,000 Mcf	0.98%	21.36%	32.95%	11.82%	30,085	336,188	28,225	1,054	395,552
Over 2,000 Mcf	0.00%	0.63%	0.00%	0.00%	0	9,875	0	0	9,875
Total	100.00%	100.00%	100.00%	100.00%	3,084,347	1,573,649	85,655	8,916	4,752,567

Water Bill Tabulation Data

Bill Tab - 1

2020 Data

Description	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Billed	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Private Fire (Unmetered)
Water Accounts											
Meters											
5/8	95.81%	99.96%	93.37%	46.02%	8.90%	4.29%	100.00%	100.00%	100.00%	1.82%	0.72%
3/4	0.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.33%
1	2.29%	0.04%	0.59%	12.85%	9.59%	3.43%	0.00%	0.00%	0.00%	2.80%	29.74%
1 1/4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1 1/2	0.53%	0.00%	2.96%	6.07%	3.77%	3.86%	0.00%	0.00%	0.00%	2.37%	4.20%
2	0.73%	0.00%	1.73%	10.69%	13.01%	12.88%	0.00%	0.00%	0.00%	36.91%	31.21%
3	0.22%	0.00%	0.63%	10.08%	23.63%	27.04%	0.00%	0.00%	0.00%	2.68%	1.53%
4	0.17%	0.00%	0.44%	12.70%	23.63%	26.18%	0.00%	0.00%	0.00%	17.82%	10.78%
6	0.12%	0.00%	0.19%	1.39%	14.04%	14.16%	0.00%	0.00%	0.00%	25.90%	15.46%
8	0.04%	0.00%	0.09%	0.21%	2.74%	5.58%	0.00%	0.00%	0.00%	8.40%	5.25%
10	0.01%	0.00%	0.00%	0.00%	0.68%	2.15%	0.00%	0.00%	0.00%	1.16%	0.67%
12	0.00%	0.00%	0.00%	0.00%	0.00%	0.43%	0.00%	0.00%	0.00%	0.14%	0.12%
14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Volume											
0 - 2 Mcf	59.97%	89.51%	36.95%	16.94%	2.09%	0.84%	97.80%	100.00%	100.00%	12.65%	
2 - 100 Mcf	29.24%	10.49%	41.43%	71.81%	43.79%	23.89%	2.20%	0.00%	0.00%	61.05%	
100 - 2,000 Mcf	9.58%	0.00%	20.99%	9.87%	53.13%	55.56%	0.00%	0.00%	0.00%	26.30%	
Over 2,000 Mcf	1.21%	0.00%	0.62%	1.38%	0.99%	19.72%	0.00%	0.00%	0.00%	0.00%	
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	

Water Bill Tabulation Data

Bill Tab - 1a

2020 Data

Description	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Private Fire (Unmetered)	Total
Water Accounts		Fiscal Year	2020									
Meters												
5/8	440,262	22,738	5,336	895	26	10	3	0	0	102	1,292	470,664
3/4	345	0	0	0	0	0	0			0	596	941
1	10,531	8	34	250	28	8	0			157	53,126	64,142
1 1/4	-	0	0	0	0	0	0			0		-
1 1/2	2,449	0	169	118	11	9	0			133	7,495	10,384
2	3,371	0	99	208	38	30	0			2,069	55,741	61,556
3	995	0	36	196	69	63	0			150	2,728	4,237
4	791	0	25	247	69	61	0			999	19,252	21,444
6	531	0	11	27	41	33	0			1,452	27,616	29,711
8	179	0	5	4	8	13	0			471	9,373	10,053
10	34	0	0	0	2	5	0			65	1,192	1,298
12	6	0	0	0	0	1	0			8	215	230
14	-	0	0	0	0	0	0			0	0	-
Total	459,494	22,746	5,715	1,945	292	233	3	0	0	5,606	178,626	674,660
Volume												
0 - 2 Mcf	2,954,280	118,426	53,769	24,645	2,543	4,486	36	0	0	1,183		3,159,367
2 - 100 Mcf	1,440,316	13,877	60,292	104,492	53,242	128,255	1			5,708		1,806,183
100 - 2,000 Mcf	472,120	0	30,544	14,357	64,601	298,254	0			2,460		882,336
Over 2,000 Mcf	59,786	0	905	2,014	1,198	105,853	0			0		169,756
Total	4,926,503	132,303	145,510	145,507	121,584	536,848	36	0	0	9,351		6,017,642

Water

Bill Tab - 1b

2020 Data

Description	Residential	Commercial	Industrial	Public Utilities	Residential Fiscal Year	Commercial	Industrial 2020	Public Utilities	Total
Meters	91.78%	7.95%	0.23%	0.04%					
5/8	97.66%	76.10%	48.01%	41.62%	411,877	27,807	506	72	440,262
3/4	0.02%	0.03%	22.49%	18.50%	65	11	237	32	345
1	1.73%	8.65%	7.78%	6.94%	7,277	3,160	82	12	10,531
1 1/4	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
1 1/2	0.22%	3.80%	11.48%	15.61%	914	1,387	121	27	2,449
2	0.28%	5.80%	5.41%	9.25%	1,180	2,118	57	16	3,371
3	0.04%	2.21%	1.90%	3.47%	160	809	20	6	995
4	0.03%	1.78%	1.99%	2.89%	114	651	21	5	791
6	0.02%	1.15%	0.76%	1.16%	102	419	8	2	531
8	0.01%	0.39%	0.19%	0.58%	34	142	2	1	179
10	0.00%	0.08%	0.00%	0.00%	4	30	0	0	34
12	0.00%	0.01%	0.00%	0.00%	1	5	0	0	6
14	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	100.00%	100.00%	100.00%	100.00%	421,728	36,539	1,054	173	459,494
Volume	62.57%	35.38%	1.85%	0.20%					
0 - 2 Mcf	84.71%	18.95%	12.18%	14.43%	2,611,427	330,322	11,107	1,424	2,954,280
2 - 100 Mcf	14.22%	54.33%	52.48%	73.06%	438,345	946,918	47,841	7,212	1,440,316
100 - 2,000 Mcf	1.07%	23.28%	35.34%	12.51%	32,849	405,822	32,214	1,235	472,120
Over 2,000 Mcf	0.00%	3.43%	0.00%	0.00%	0	59,786	0	0	59,786
Total	100.00%	100.00%	100.00%	100.00%	3,082,621	1,742,848	91,162	9,871	4,926,503

Water Bill Tabulation Data

Bill Tab - 1

2019 Data

Description	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Billed	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Private Fire (Unmetered)
Water Accounts											
Meters											
5/8	96.06%	99.96%	92.92%	45.63%	7.65%	4.15%	100.00%	100.00%	100.00%	1.77%	0.79%
3/4	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.38%
1	2.11%	0.03%	1.55%	11.97%	6.91%	3.32%	0.00%	0.00%	0.00%	1.90%	27.57%
1 1/4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1 1/2	0.50%	0.00%	2.14%	5.83%	2.72%	4.15%	0.00%	0.00%	0.00%	2.42%	4.08%
2	0.75%	0.01%	1.70%	10.08%	13.09%	13.28%	0.00%	0.00%	0.00%	34.51%	30.17%
3	0.22%	0.00%	0.65%	9.75%	21.73%	26.97%	0.00%	0.00%	0.00%	3.02%	1.71%
4	0.17%	0.00%	0.51%	12.58%	23.70%	26.97%	0.00%	0.00%	0.00%	18.94%	11.64%
6	0.12%	0.00%	0.41%	3.33%	19.01%	14.52%	0.00%	0.00%	0.00%	27.30%	17.04%
8	0.04%	0.00%	0.12%	0.74%	4.20%	5.39%	0.00%	0.00%	0.00%	8.81%	5.75%
10	0.01%	0.00%	0.00%	0.09%	0.99%	1.24%	0.00%	0.00%	0.00%	1.17%	0.74%
12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.16%	0.14%
14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Volume											
0 - 2 Mcf	61.26%	91.46%	35.16%	18.07%	2.27%	1.05%	100.00%	100.00%	100.00%	13.69%	
2 - 100 Mcf	29.05%	8.45%	41.12%	72.74%	45.41%	30.12%	0.00%	0.00%	0.00%	66.19%	
100 - 2,000 Mcf	8.51%	0.10%	21.35%	9.20%	51.37%	55.83%	0.00%	0.00%	0.00%	20.12%	
Over 2,000 Mcf	1.17%	0.00%	2.37%	0.00%	0.95%	13.00%	0.00%	0.00%	0.00%	0.00%	
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	

Water Bill Tabulation Data

Bill Tab - 1a

2019 Data

Description	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Private Fire (Unmetered)	Total
Water Accounts		Fiscal Year	2019									
Meters												
5/8	442,212	23,460	5,461	987	31	10	3	0	0	98	104	472,366
3/4	76	0	0	0	0	0	0			0	50	126
1	9,704	6	91	259	28	8	0			105	3,640	13,841
1 1/4	-	0	0	0	0	0	0			0	0	-
1 1/2	2,316	1	126	126	11	10	0			134	538	3,262
2	3,437	2	100	218	53	32	0			1,911	3,984	9,737
3	1,013	0	38	211	88	65	0			167	226	1,808
4	783	0	30	272	96	65	0			1,049	1,537	3,832
6	568	0	24	72	77	35	0			1,512	2,250	4,538
8	196	0	7	16	17	13	0			488	760	1,497
10	38	0	0	2	4	3	0			65	98	210
12	8	0	0	0	0	0	0			9	18	35
14	-	0	0	0	0	0	0			0	0	-
Total	460,351	23,469	5,877	2,163	405	241	3	0	0	5,538	13,204	511,251
Volume												
0 - 2 Mcf	2,900,037	120,174	55,421	28,049	6,907	4,692	13	0	0	1,150		3,116,442
2 - 100 Mcf	1,375,320	11,098	64,826	112,935	137,981	134,831	0			5,560		1,842,551
100 - 2,000 Mcf	402,983	129	33,649	14,278	156,115	249,922	0			1,690		858,766
Over 2,000 Mcf	55,533	0	3,738	0	2,883	58,181	0			0		120,334
Total	4,733,872	131,401	157,633	155,262	303,885	447,626	13	0	0	8,400		5,938,092

Water

Bill Tab - 1b

2019 Data

Description	Residential	Commercial	Industrial	Public Utilities	Residential Fiscal Year	Commercial	Industrial 2019	Public Utilities	Total
Meters	91.75%	7.98%	0.23%	0.04%					
5/8	97.90%	76.58%	48.31%	42.77%	413,482	28,142	514	74	442,212
3/4	0.02%	0.03%	0.00%	0.00%	65	11	0	0	76
1	1.49%	8.52%	22.56%	17.92%	6,303	3,130	240	31	9,704
1 1/4	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
1 1/2	0.21%	3.69%	7.71%	6.94%	866	1,356	82	12	2,316
2	0.29%	5.63%	11.37%	15.03%	1,220	2,070	121	26	3,437
3	0.04%	2.13%	5.08%	9.25%	161	782	54	16	1,013
4	0.03%	1.74%	1.79%	3.47%	117	641	19	6	783
6	0.03%	1.17%	2.07%	2.89%	111	430	22	5	568
8	0.01%	0.40%	0.85%	1.16%	37	148	9	2	196
10	0.00%	0.08%	0.28%	0.58%	4	30	3	1	38
12	0.00%	0.02%	0.00%	0.00%	1	7	0	0	8
14	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	100.00%	100.00%	100.00%	100.00%	422,367	36,747	1,064	173	460,351
Volume	63.32%	33.23%	3.26%	0.19%					
0 - 2 Mcf	84.98%	21.59%	7.47%	15.62%	2,547,456	339,658	11,511	1,412	2,900,037
2 - 100 Mcf	14.11%	56.91%	32.44%	78.17%	423,042	895,202	50,008	7,067	1,375,320
100 - 2,000 Mcf	0.91%	19.90%	40.38%	6.21%	27,225	312,941	62,255	562	402,983
Over 2,000 Mcf	0.00%	1.60%	19.72%	0.00%	0	25,138	30,395	0	55,533
Total	100.00%	100.00%	100.00%	100.00%	2,997,723	1,572,938	154,169	9,041	4,733,872

Water Bill Tabulation Data

Bill Tab - 1

2018 Data

Description	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Billed	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Fire Hydrants
Water Accounts											
Meters											
5/8	96.42%	99.97%	94.13%	46.75%	7.43%	4.15%	100.00%	100.00%	100.00%	1.95%	0.62%
3/4	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.46%
1	1.85%	0.02%	1.34%	11.69%	6.86%	3.73%	0.00%	0.00%	0.00%	1.86%	26.03%
1 1/4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1 1/2	0.48%	0.00%	1.54%	5.82%	2.57%	4.15%	0.00%	0.00%	0.00%	2.21%	3.92%
2	0.70%	0.01%	1.30%	9.99%	14.29%	13.28%	0.00%	0.00%	0.00%	30.36%	29.04%
3	0.21%	0.00%	0.64%	9.45%	22.57%	26.97%	0.00%	0.00%	0.00%	3.29%	1.88%
4	0.16%	0.00%	0.51%	12.40%	22.29%	26.97%	0.00%	0.00%	0.00%	20.01%	12.36%
6	0.11%	0.00%	0.42%	3.13%	18.86%	14.11%	0.00%	0.00%	0.00%	29.40%	18.54%
8	0.04%	0.00%	0.12%	0.67%	4.29%	4.98%	0.00%	0.00%	0.00%	9.40%	6.20%
10	0.01%	0.00%	0.00%	0.09%	0.86%	1.66%	0.00%	0.00%	0.00%	1.29%	0.81%
12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.22%	0.15%
14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Volume											
0 - 2 Mcf	62.56%	92.65%	34.15%	18.35%	2.25%	0.98%	100.00%	100.00%	100.00%	7.13%	
2 - 100 Mcf	29.27%	7.32%	40.90%	74.62%	44.97%	28.21%	0.00%	0.00%	0.00%	37.07%	
100 - 2,000 Mcf	7.59%	0.03%	24.61%	7.03%	48.24%	53.16%	0.00%	0.00%	0.00%	55.80%	
Over 2,000 Mcf	0.38%	0.00%	0.33%	0.00%	4.54%	17.65%	0.00%	0.00%	0.00%	0.00%	
Total	99.80%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	

Water Bill Tabulation Data

Bill Tab - 1a

2018 Data

Description	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Private Fire (Unmetered)	Total
Water Accounts		Fiscal Year	2018									
Meters												
5/8	447,651	22,994	5,564	1,044	26	10	4	0	0	89	68	477,450
3/4	72	0	0	0	0	0	0			0	50	122
1	8,610	4	79	261	24	9	0			85	2,859	11,931
1 1/4	14	0	0	0	0	0	0			0	0	14
1 1/2	2,210	1	91	130	9	10	0			101	431	2,983
2	3,251	2	77	223	50	32	0			1,385	3,189	8,209
3	992	0	38	211	79	65	0			150	206	1,741
4	742	0	30	277	78	65	0			913	1,357	3,462
6	526	0	25	70	66	34	0			1,341	2,036	4,098
8	175	0	7	15	15	12	0			429	681	1,334
10	33	0	0	2	3	4	0			59	89	190
12	6	0	0	0	0	0	0			10	17	33
14	-	0	0	0	0	0	0			0	0	-
Total	464,282	23,001	5,911	2,233	350	241	4	0	0	4,562	10,983	511,567
Volume												
0 - 2 Mcf	2,947,250	119,753	55,989	29,626	6,592	4,759	13	0	0	1,122		3,165,105
2 - 100 Mcf	1,385,406	9,460	67,048	120,454	131,785	136,868	0			5,831		1,856,851
100 - 2,000 Mcf	358,245	42	40,344	11,348	141,348	257,940	0			8,778		818,045
Over 2,000 Mcf	17,890	0	548	0	13,305	85,626	0			0		117,369
Total	4,708,791	129,255	163,929	161,428	293,031	485,193	13	0	0	15,730		5,957,370

Water

Bill Tab - 1b

2018 Data

Description	Residential	Commercial	Industrial	Public Utilities	Residential Fiscal Year	Commercial	Industrial 2018	Public Utilities	Total
Meters	91.86%	7.87%	0.23%	0.04%					
5/8	98.20%	77.30%	48.74%	40.00%	418,816	28,246	523	66	447,651
3/4	0.02%	0.02%	0.00%	0.00%	64	8	0	0	72
1	1.24%	8.31%	22.55%	18.18%	5,303	3,035	242	30	8,610
1 1/4	0.00%	0.00%	0.00%	8.48%	0	0	0	14	14
1 1/2	0.19%	3.58%	7.55%	0.00%	820	1,309	81	0	2,210
2	0.26%	5.48%	11.28%	15.15%	1,104	2,001	121	25	3,251
3	0.04%	2.08%	5.22%	9.70%	160	760	56	16	992
4	0.02%	1.67%	1.77%	4.24%	104	612	19	7	742
6	0.02%	1.10%	1.96%	3.03%	97	403	21	5	526
8	0.01%	0.37%	0.75%	0.61%	31	135	8	1	175
10	0.00%	0.07%	0.19%	0.00%	4	27	2	0	33
12	0.00%	0.01%	0.00%	0.61%	1	4	0	1	6
14	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	100.00%	100.00%	100.00%	100.00%	426,504	36,540	1,073	165	464,282
Volume	64.84%	32.87%	2.09%	0.00%					
0 - 2 Mcf	84.90%	22.09%	11.87%	15.83%	2,592,244	341,820	11,690	1,497	2,947,250
2 - 100 Mcf	14.29%	57.78%	48.72%	74.17%	436,161	894,234	47,997	7,014	1,385,406
100 - 2,000 Mcf	0.81%	19.48%	31.39%	10.00%	24,846	301,534	30,920	945	358,245
Over 2,000 Mcf	0.00%	0.64%	8.03%	0.00%	0	9,980	7,910	0	17,890
Total	100.00%	100.00%	100.00%	100.00%	3,053,251	1,547,567	98,516	9,457	4,708,791

Sewer Bill Tabulation Data

Bill Tab - 2

SELECTED BILL TAB DISTRIBUTION 2022

	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Billed	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Sewer Only
Sewer Accounts											
Meters											
5/8	95.57%	99.95%	92.76%	42.98%	4.44%	7.76%	100.00%	100.00%	100.00%	100.00%	73.02%
3/4	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.59%
1	2.77%	0.05%	0.55%	13.49%	16.30%	3.65%	0.00%	0.00%	0.00%	0.00%	7.94%
1 1/4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1 1/2	0.58%	0.00%	3.37%	6.24%	5.93%	4.11%	0.00%	0.00%	0.00%	0.00%	0.00%
2	0.63%	0.00%	1.91%	11.15%	11.11%	13.70%	0.00%	0.00%	0.00%	0.00%	6.35%
3	0.24%	0.00%	0.65%	10.59%	25.93%	27.40%	0.00%	0.00%	0.00%	0.00%	0.00%
4	0.13%	0.00%	0.46%	13.94%	20.74%	27.40%	0.00%	0.00%	0.00%	0.00%	4.76%
6	0.05%	0.00%	0.21%	1.39%	11.85%	11.42%	0.00%	0.00%	0.00%	0.00%	3.17%
8	0.01%	0.00%	0.09%	0.22%	2.22%	2.74%	0.00%	0.00%	0.00%	0.00%	1.59%
10	0.00%	0.00%	0.00%	0.00%	1.48%	1.83%	0.00%	0.00%	0.00%	0.00%	1.59%
12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Volume											
0 - 2 Mcf	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
2 - 100 Mcf	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
100 - 2,000 Mcf	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Over 2,000 Mcf	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Sewer Bill Tabulation Data

Bill Tab - 2a

SELECTED BILL TAB DISTRIBUTION

Year Choose: 2022

	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Billed	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Sewer Only	Total
Sewer Accounts												
Meters	470,750	22,043	5,665	1,793	135	205	6	-	-	-	63	4,815,122
5/8	449,891	22,032	5,255	771	6	16	6	-	-	-	46	478,022
3/4	75	-	-	-	-	-	-	-	-	-	1	76
1	13,024	11	31	242	22	7	-	-	-	-	5	13,342
1 1/4	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2	2,718	-	191	112	8	8	-	-	-	-	-	3,037
2	2,983	-	108	200	15	28	-	-	-	-	4	3,338
3	1,138	-	37	190	35	56	-	-	-	-	-	1,456
4	628	-	26	250	28	56	-	-	-	-	3	991
6	221	-	12	25	16	23	-	-	-	-	2	299
8	54	-	5	4	3	6	-	-	-	-	1	73
10	19	-	-	-	2	4	-	-	-	-	1	26
12	-	-	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-	-	-
Total	470,750	22,043	5,665	1,793	135	205	6	-	-	-	63	500,660
Volume	4,784,222	123,777	154,628	136,828	104,226	387,193	32	-	-	98	64,606	
0 - 2 Mcf	4,815,122	123,777	154,628	136,828	104,226	387,193	32	-	-	98	64,606	5,786,509
2 - 100 Mcf	-	-	-	-	-	-	-	-	-	-	-	-
100 - 2,000 Mcf	-	-	-	-	-	-	-	-	-	-	-	-
Over 2,000 Mcf	-	-	-	-	-	-	-	-	-	-	-	-
Total	4,815,122	123,777	154,628	136,828	104,226	387,193	32	-	-	98	64,606	5,786,509

Sewer

Bill Tab - 2b

SELECTED BILL TAB DISTRIBUTION Year Choose: 2022

	Residential	Commercial	Industrial	Public Utilities	Residential	Commercial	Industrial	Public Utilities	Total
						Year Choose:	2022		
Meters	91.94%	7.81%	0.21%	0.04%	432,798	36,748	1,011	193	470,750
5/8	97.37%	75.97%	49.26%	40.72%	421,395	27,919	498	79	449,891
3/4	0.02%	0.02%	0.00%	0.00%	66	9	-	-	75
1	2.16%	9.22%	22.85%	19.59%	9,367	3,388	231	38	13,024
1 1/4	0.00%	0.00%	0.00%	0.00%	-	-	-	-	-
1 1/2	0.25%	4.17%	8.01%	7.73%	1,091	1,531	81	15	2,718
2	0.15%	5.92%	11.47%	14.43%	665	2,174	116	28	2,983
3	0.03%	2.48%	6.13%	9.79%	147	910	62	19	1,138
4	0.01%	1.50%	1.58%	4.12%	51	553	16	8	628
6	0.00%	0.54%	0.69%	2.58%	12	197	7	5	221
8	0.00%	0.13%	0.00%	1.03%	3	49	-	2	54
10	0.00%	0.05%	0.00%	0.00%	1	18	-	-	19
12	0.00%	0.00%	0.00%	0.00%	-	-	-	-	-
14	0.00%	0.00%	0.00%	0.00%	-	-	-	-	-
Total	100.00%	100.00%	100.00%	100.00%	432,798	36,748	1,011	193	470,750
Volume	25.00%	25.00%	25.00%	25.00%	1,196,056	1,196,056	1,196,056	1,196,056	4,784,222
0 - 2 Mcf	100.00%	100.00%	100.00%	100.00%	3,017,917	1,700,832	86,162	10,210	4,815,122
2 - 100 Mcf	0.00%	0.00%	0.00%	0.00%	-	-	-	-	-
100 - 2,000 Mcf	0.00%	0.00%	0.00%	0.00%	-	-	-	-	-
Over 2,000 Mcf	0.00%	0.00%	0.00%	0.00%	-	-	-	-	-
Total	100.00%	100.00%	100.00%	100.00%	3,017,917	1,700,832	86,162	10,210	4,815,122

Sewer Bill Tabulation Data

Bill Tab - 2

2022 Data

Sewer Accounts	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Billed	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Sewer Only
Meters											
5/8	95.57%	99.95%	92.76%	42.98%	4.44%	7.76%	100.00%	100.00%	100.00%	100.00%	73.02%
3/4	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.59%
1	2.77%	0.05%	0.55%	13.49%	16.30%	3.65%	0.00%	0.00%	0.00%	0.00%	7.94%
1 1/4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1 1/2	0.58%	0.00%	3.37%	6.24%	5.93%	4.11%	0.00%	0.00%	0.00%	0.00%	0.00%
2	0.63%	0.00%	1.91%	11.15%	11.11%	13.70%	0.00%	0.00%	0.00%	0.00%	6.35%
3	0.24%	0.00%	0.65%	10.59%	25.93%	27.40%	0.00%	0.00%	0.00%	0.00%	0.00%
4	0.13%	0.00%	0.46%	13.94%	20.74%	27.40%	0.00%	0.00%	0.00%	0.00%	4.76%
6	0.05%	0.00%	0.21%	1.39%	11.85%	11.42%	0.00%	0.00%	0.00%	0.00%	3.17%
8	0.01%	0.00%	0.09%	0.22%	2.22%	2.74%	0.00%	0.00%	0.00%	0.00%	1.59%
10	0.00%	0.00%	0.00%	0.00%	1.48%	1.83%	0.00%	0.00%	0.00%	0.00%	1.59%
12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Volume											
All Usage	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Sewer Bill Tabulation Data

Bill Tab - 2a

2022 Data

Sewer Accounts	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Sewer Only	Total
	Fiscal Year:	2022										
Meters												
5/8	449,919	22,033	5,255	771	6	17	6	0	0	0	46	478,053
3/4	75	0	0	0	0	0	0			0	1	76
1	13,025	11	31	242	22	8	0			0	5	13,344
1 1/4	-	0	0	0	0	0	0			0	0	-
1 1/2	2,718	0	191	112	8	9	0			0	0	3,038
2	2,983	0	108	200	15	30	0			0	4	3,340
3	1,138	0	37	190	35	60	0			0	0	1,460
4	628	0	26	250	28	60	0			0	3	995
6	221	0	12	25	16	25	0			0	2	301
8	54	0	5	4	3	6	0			0	1	73
10	19	0	0	0	2	4	0			0	1	26
12	-	0	0	0	0	0	0			0	0	-
14	-	0	0	0	0	0	0			0	0	-
Total	470,780	22,044	5,665	1,794	135	219	6	0	0	0	63	500,706
Volume	Volume Distribution not required for Sanitary Sewer											
All Usage	400	100	100	100	100	100	100	100	100	100	100	1,400
xxxxxx	-	0	0	0	0	0	0	0	0	0	0	-
xxxxxx	-	0	0	0	0	0	0	0	0	0	0	-
xxxxxx	-	0	0	0	0	0	0	0	0	0	0	-
Total	400	100	100	100	100	100	100	100	100	100	100	1,400

Sewer

Bill Tab - 2b

2022 Data

	Residential	Commercial	Industrial	Public Utilities	Residential	Commercial	Industrial	Public Utilities	Total
					Fiscal Year:		2022		
Meters	91.94%	7.81%	0.21%	0.04%					
5/8	97.37%	75.97%	49.26%	40.72%	421,422	27,920	498	79	449,919
3/4	0.02%	0.02%	0.00%	0.00%	66	9	0	0	75
1	2.16%	9.22%	22.85%	19.59%	9,368	3,388	231	38	13,025
1 1/4	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
1 1/2	0.25%	4.17%	8.01%	7.73%	1,091	1,531	81	15	2,718
2	0.15%	5.92%	11.47%	14.43%	665	2,174	116	28	2,983
3	0.03%	2.48%	6.13%	9.79%	147	910	62	19	1,138
4	0.01%	1.50%	1.58%	4.12%	51	553	16	8	628
6	0.00%	0.54%	0.69%	2.58%	12	197	7	5	221
8	0.00%	0.13%	0.00%	1.03%	3	49	0	2	54
10	0.00%	0.05%	0.00%	0.00%	1	18	0	0	19
12	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
14	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	100.00%	100.00%	100.00%	100.00%	432,826	36,749	1,011	194	470,780
Volume	25.00%	25.00%	25.00%	25.00%					
All Usage	100.00%	100.00%	100.00%	100.00%	100	100	100	100	400
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	100.00%	100.00%	100.00%	100.00%	100	100	100	100	400

Sewer Bill Tabulation Data

Bill Tab - 2

2021 Data

	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Billed	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Sewer Only
Sewer Accounts											
Meters											
5/8	95.95%	99.96%	92.93%	43.68%	4.38%	8.22%	100.00%	100.00%	100.00%	52.38%	72.58%
3/4	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.61%
1	2.48%	0.04%	0.52%	13.41%	16.06%	3.65%	0.00%	0.00%	0.00%	19.05%	6.45%
1 1/4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1 1/2	0.53%	0.00%	3.32%	6.21%	5.84%	4.11%	0.00%	0.00%	0.00%	10.32%	0.00%
2	0.61%	0.00%	1.85%	11.10%	11.68%	14.61%	0.00%	0.00%	0.00%	11.11%	8.06%
3	0.23%	0.00%	0.63%	10.44%	25.55%	26.94%	0.00%	0.00%	0.00%	0.79%	0.00%
4	0.13%	0.00%	0.44%	13.57%	20.44%	26.94%	0.00%	0.00%	0.00%	4.76%	4.84%
6	0.04%	0.00%	0.21%	1.37%	12.41%	10.96%	0.00%	0.00%	0.00%	1.59%	3.23%
8	0.01%	0.00%	0.09%	0.22%	2.19%	2.74%	0.00%	0.00%	0.00%	0.00%	1.61%
10	0.00%	0.00%	0.00%	0.00%	1.46%	1.83%	0.00%	0.00%	0.00%	0.00%	1.61%
12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Volume											
All Usage	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Sewer Bill Tabulation Data

Bill Tab - 2a

2021 Data

Sewer Accounts	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Sewer Only	Total
	Fiscal Year:	2021										
Meters												
5/8	447,858	22,195	5,313	795	6	18	5	0	0	66	45	476,301
3/4	76	0	0	0	0	0	0			0	1	77
1	11,567	8	30	244	22	8	0			24	4	11,907
1 1/4	-	0	0	0	0	0	0			0	0	-
1 1/2	2,481	0	190	113	8	9	0			13	0	2,814
2	2,837	0	106	202	16	32	0			14	5	3,212
3	1,082	0	36	190	35	59	0			1	0	1,403
4	594	0	25	247	28	59	0			6	3	962
6	205	0	12	25	17	24	0			2	2	287
8	49	0	5	4	3	6	0			0	1	68
10	19	0	0	0	2	4	0			0	1	26
12	-	0	0	0	0	0	0			0	0	-
14	-	0	0	0	0	0	0			0	0	-
Total	466,768	22,203	5,717	1,820	137	219	5	0	0	126	62	497,057
Volume	Volume Distribution not required for Sanitary Sewer											
All Usage	400	100	100	100	100	100	100	100	100	100	100	1,400
xxxxxx	-	0	0	0	0	0	0	0	0	0	0	-
xxxxxx	-	0	0	0	0	0	0	0	0	0	0	-
xxxxxx	-	0	0	0	0	0	0	0	0	0	0	-
Total	400	100	100	100	100	100	100	100	100	100	100	1,400

Sewer

Bill Tab - 2b

2021 Data

	Residential	Commercial	Industrial	Public Utilities	Residential	Commercial	Industrial	Public Utilities	Total
					Fiscal Year:	2021			
Meters	91.96%	7.79%	0.22%	0.04%					
5/8	97.69%	76.96%	50.10%	41.90%	419,309	27,968	506	75	447,858
3/4	0.02%	0.03%	0.00%	0.00%	66	10	0	0	76
1	1.88%	8.91%	22.77%	18.99%	8,064	3,239	230	34	11,567
1 1/4	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
1 1/2	0.22%	3.92%	7.82%	6.70%	964	1,426	79	12	2,481
2	0.15%	5.69%	11.29%	15.64%	627	2,068	114	28	2,837
3	0.03%	2.37%	5.94%	9.50%	142	863	60	17	1,082
4	0.01%	1.44%	1.39%	3.91%	49	524	14	7	594
6	0.00%	0.50%	0.69%	2.79%	12	181	7	5	205
8	0.00%	0.12%	0.00%	0.56%	3	45	0	1	49
10	0.00%	0.05%	0.00%	0.00%	2	17	0	0	19
12	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
14	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	100.00%	100.00%	100.00%	100.00%	429,238	36,341	1,010	179	466,768
Volume	25.00%	25.00%	25.00%	25.00%					
All Usage	100.00%	100.00%	100.00%	100.00%	100	100	100	100	400
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	100.00%	100.00%	100.00%	100.00%	100	100	100	100	400

Sewer Bill Tabulation Data

Bill Tab - 2

2020 Data

	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Billed	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Sewer Only
Sewer Accounts											
Meters											
5/8	96.19%	99.96%	93.40%	45.65%	7.77%	8.07%	100.00%	100.00%	100.00%	55.46%	71.67%
3/4	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.67%
1	2.30%	0.04%	0.60%	12.89%	9.89%	3.59%	0.00%	0.00%	0.00%	17.65%	5.00%
1 1/4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	10.08%	0.00%
1 1/2	0.51%	0.00%	2.94%	6.03%	3.89%	4.04%	0.00%	0.00%	0.00%	10.08%	0.00%
2	0.60%	0.00%	1.72%	10.69%	13.43%	13.90%	0.00%	0.00%	0.00%	0.84%	10.00%
3	0.22%	0.00%	0.63%	10.27%	24.38%	28.25%	0.00%	0.00%	0.00%	4.20%	1.67%
4	0.12%	0.00%	0.44%	12.89%	24.03%	26.91%	0.00%	0.00%	0.00%	1.68%	3.33%
6	0.04%	0.00%	0.19%	1.36%	13.43%	10.76%	0.00%	0.00%	0.00%	0.00%	3.33%
8	0.01%	0.00%	0.09%	0.21%	2.47%	2.69%	0.00%	0.00%	0.00%	0.00%	1.67%
10	0.00%	0.00%	0.00%	0.00%	0.71%	1.79%	0.00%	0.00%	0.00%	0.00%	1.67%
12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Volume											
All Usage	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Sewer Bill Tabulation Data

Bill Tab - 2a

2020 Data

Sewer Accounts	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Sewer Only	Total
	Fiscal Year:	2020										
Meters												
5/8	438,948	22,718	5,336	871	22	18	3	0	0	66	43	468,025
3/4	75	0	0	0	0	0	0			0	1	76
1	10,478	8	34	246	28	8	0			21	3	10,826
1 1/4	-	0	0	0	0	0	0			12	0	12
1 1/2	2,334	0	168	115	11	9	0			12	0	2,649
2	2,724	0	98	204	38	31	0			1	6	3,102
3	1,000	0	36	196	69	63	0			5	1	1,370
4	534	0	25	246	68	60	0			2	2	937
6	179	0	11	26	38	24	0			0	2	280
8	43	0	5	4	7	6	0			0	1	66
10	19	0	0	0	2	4	0			0	1	26
12	-	0	0	0	0	0	0			0	0	-
14	-	0	0	0	0	0	0			0	0	-
Total	456,334	22,726	5,713	1,908	283	223	3	0	0	119	60	487,369
Volume												
All Usage	400	100	100	100	100	100	100	100	100	100	100	1,400
xxxxxx	-	0	0	0	0	0	0	0	0	0	0	-
xxxxxx	-	0	0	0	0	0	0	0	0	0	0	-
xxxxxx	-	0	0	0	0	0	0	0	0	0	0	-
Total	400	100	100	100	100	100	100	100	100	100	100	1,400

Sewer

Bill Tab - 2b

2020 Data

	Residential	Commercial	Industrial	Public Utilities	Residential	Commercial	Industrial	Public Utilities	Total
					Fiscal Year:	2020			
Meters	91.93%	7.81%	0.22%	0.04%					
5/8	97.89%	77.73%	49.75%	42.11%	410,671	27,702	503	72	438,948
3/4	0.02%	0.03%	0.00%	0.00%	64	11	0		75
1	1.69%	8.77%	23.24%	18.71%	7,086	3,125	235	32	10,478
1 1/4	0.00%	0.00%	0.00%	0.00%					-
1 1/2	0.21%	3.82%	8.01%	7.02%	879	1,362	81	12	2,334
2	0.14%	5.55%	11.37%	15.20%	605	1,978	115	26	2,724
3	0.03%	2.21%	5.44%	9.36%	141	788	55	16	1,000
4	0.01%	1.30%	1.38%	3.51%	49	465	14	6	534
6	0.00%	0.43%	0.79%	2.92%	12	154	8	5	179
8	0.00%	0.11%	0.00%	1.17%	3	38		2	43
10	0.00%	0.05%	0.00%	0.00%	1	18	0		19
12	0.00%	0.00%	0.00%	0.00%	0	0	0		-
14	0.00%	0.00%	0.00%	0.00%	0	0	0		-
Total	100.00%	100.00%	100.00%	100.00%	419,511	35,641	1,011	171	456,334
Volume	25.00%	25.00%	25.00%	25.00%					
All Usage	100.00%	100.00%	100.00%	100.00%	100	100	100	100	400
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	100.00%	100.00%	100.00%	100.00%	100	100	100	100	400

Sewer Bill Tabulation Data

Bill Tab - 2

2019 Data

	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Billed	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Sewer Only
Sewer Accounts											
Meters											
5/8	96.46%	99.97%	95.10%	46.95%	8.22%	4.15%	100.00%	100.00%	100.00%	56.25%	72.88%
3/4	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1	2.07%	0.03%	0.52%	12.38%	7.93%	3.69%	0.00%	0.00%	0.00%	16.96%	3.39%
1 1/4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1 1/2	0.49%	0.00%	2.18%	6.00%	3.12%	4.61%	0.00%	0.00%	0.00%	8.93%	0.00%
2	0.59%	0.00%	0.80%	10.34%	15.01%	14.75%	0.00%	0.00%	0.00%	10.71%	10.17%
3	0.21%	0.00%	0.66%	10.14%	24.93%	29.49%	0.00%	0.00%	0.00%	0.89%	1.69%
4	0.11%	0.00%	0.42%	12.68%	24.08%	29.49%	0.00%	0.00%	0.00%	4.46%	5.08%
6	0.04%	0.00%	0.23%	1.37%	13.60%	10.60%	0.00%	0.00%	0.00%	1.79%	3.39%
8	0.01%	0.00%	0.09%	0.15%	2.55%	2.30%	0.00%	0.00%	0.00%	0.00%	1.69%
10	0.00%	0.00%	0.00%	0.00%	0.57%	0.92%	0.00%	0.00%	0.00%	0.00%	1.69%
12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Volume											
All Usage	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Sewer Bill Tabulation Data

Bill Tab - 2a

2019 Data

Sewer Accounts	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Sewer Only	Total
	Fiscal Year:	2019										
Meters												
5/8	440,839	23,440	5,456	963	29	9	3	0	0	63	43	470,845
3/4	75	0	0	0	0	0	0			0	0	75
1	9,471	6	30	254	28	8	0			19	2	9,818
1 1/4	-	0	0	0	0	0	0			0	0	-
1 1/2	2,251	1	125	123	11	10	0			10	0	2,531
2	2,680	0	46	212	53	32	0			12	6	3,041
3	972	0	38	208	88	64	0			1	1	1,372
4	510	0	24	260	85	64	0			5	3	951
6	169	0	13	28	48	23	0			2	2	285
8	43	0	5	3	9	5	0			0	1	66
10	18	0	0	0	2	2	0			0	1	23
12	-	0	0	0	0	0	0			0	0	-
14	-	0	0	0	0	0	0			0	0	-
Total	457,028	23,447	5,737	2,051	353	217	3	0	0	112	59	489,007
Volume												
All Usage	400	100	100	100	100	100	100	100	100	100	100	1,400
xxxxxx	-	0	0	0	0	0	0	0	0	0	0	-
xxxxxx	-	0	0	0	0	0	0	0	0	0	0	-
xxxxxx	-	0	0	0	0	0	0	0	0	0	0	-
Total	400	100	100	100	100	100	100	100	100	100	100	1,400

Sewer

Bill Tab - 2b

2019 Data

	Residential	Commercial	Industrial	Public Utilities	Residential	Commercial	Industrial	Public Utilities	Total
					Fiscal Year:	2019			
Meters	91.91%	7.83%	0.22%	0.04%					
5/8	98.14%	78.29%	50.10%	43.53%	412,223	28,031	511	74	440,839
3/4	0.02%	0.03%	0.00%	0.00%	64	11	0	0	75
1	1.45%	8.64%	23.33%	17.65%	6,109	3,094	238	30	9,471
1 1/4	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
1 1/2	0.20%	3.71%	7.94%	7.06%	828	1,330	81	12	2,251
2	0.14%	5.40%	11.27%	14.71%	606	1,934	115	25	2,680
3	0.03%	2.13%	5.20%	9.41%	141	762	53	16	972
4	0.01%	1.24%	1.27%	3.53%	47	444	13	6	510
6	0.00%	0.40%	0.78%	2.94%	12	144	8	5	169
8	0.00%	0.10%	0.10%	1.18%	3	37	1	2	43
10	0.00%	0.05%	0.00%	0.00%	1	17	0	0	18
12	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
14	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	100.00%	100.00%	100.00%	100.00%	420,034	35,804	1,020	170	457,028
Volume	25.00%	25.00%	25.00%	25.00%					
All Usage	100.00%	100.00%	100.00%	100.00%	100	100	100	100	400
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	100.00%	100.00%	100.00%	100.00%	100	100	100	100	400

Sewer Bill Tabulation Data

Bill Tab - 2

2018 Data

	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Billed	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Sewer Only
Sewer Accounts											
Meters											
5/8	96.76%	99.98%	96.18%	48.19%	7.87%	4.11%	100.00%	100.00%	100.00%	57.14%	69.84%
3/4	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.59%
1	1.82%	0.02%	0.40%	12.04%	7.87%	4.11%	0.00%	0.00%	0.00%	16.19%	3.17%
1 1/4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1 1/2	0.47%	0.00%	1.57%	5.92%	2.95%	4.57%	0.00%	0.00%	0.00%	7.62%	0.00%
2	0.57%	0.00%	0.47%	10.20%	16.39%	14.61%	0.00%	0.00%	0.00%	11.43%	11.11%
3	0.21%	0.00%	0.66%	9.78%	25.90%	29.22%	0.00%	0.00%	0.00%	0.95%	3.17%
4	0.11%	0.00%	0.42%	12.46%	22.62%	29.22%	0.00%	0.00%	0.00%	4.76%	4.76%
6	0.04%	0.00%	0.22%	1.32%	13.11%	10.50%	0.00%	0.00%	0.00%	1.90%	3.17%
8	0.01%	0.00%	0.09%	0.09%	2.95%	2.74%	0.00%	0.00%	0.00%	0.00%	1.59%
10	0.00%	0.00%	0.00%	0.00%	0.33%	0.91%	0.00%	0.00%	0.00%	0.00%	1.59%
12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Volume											
All Usage	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
xxxxxx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Sewer Bill Tabulation Data

Bill Tab - 2a

2018 Data

Sewer Accounts	General Service	Senior Citizens	PHA	Charity and Schools	Hospital/University	Hand Bill	Scheduled	xxxxxxxxxx	xxxxxxxxxx	Fire Service	Sewer Only	Total
	Fiscal Year:	2018										
Meters												
5/8	446,280	22,974	5,560	1,025	24	9	4	0	0	60	44	475,980
3/4	71	0	0	0	0	0	0			0	1	72
1	8,373	4	23	256	24	9	0			17	2	8,708
1 1/4	-	0	0	0	0	0	0			0	0	-
1 1/2	2,164	1	91	126	9	10	0			8	0	2,409
2	2,631	0	27	217	50	32	0			12	7	2,976
3	953	0	38	208	79	64	0			1	2	1,345
4	508	0	24	265	69	64	0			5	3	938
6	172	0	13	28	40	23	0			2	2	280
8	40	0	5	2	9	6	0			0	1	63
10	16	0	0	0	1	2	0			0	1	20
12	-	0	0	0	0	0	0			0	0	-
14	-	0	0	0	0	0	0			0	0	-
Total	461,208	22,979	5,781	2,127	305	219	4	0	0	105	63	492,791
Volume												
All Usage	400	100	100	100	100	100	100	100	100	100	100	1,400
xxxxxx	-	0	0	0	0	0	0	0	0	0	0	-
xxxxxx	-	0	0	0	0	0	0	0	0	0	0	-
xxxxxx	-	0	0	0	0	0	0	0	0	0	0	-
Total	400	100	100	100	100	100	100	100	100	100	100	1,400

Sewer

Bill Tab - 2b

2018 Data

	Residential	Commercial	Industrial	Public Utilities	Residential	Commercial	Industrial	Public Utilities	Total
					Fiscal Year:	2018			
Meters	92.00%	7.74%	0.22%	0.04%					
5/8	98.41%	78.82%	50.44%	40.74%	417,556	28,138	520	66	446,280
3/4	0.01%	0.02%	0.00%	0.00%	63	8	0	0	71
1	1.20%	8.40%	23.28%	17.90%	5,105	2,999	240	29	8,373
1 1/4	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
1 1/2	0.19%	3.60%	7.76%	8.64%	785	1,285	80	14	2,164
2	0.14%	5.28%	11.15%	14.81%	606	1,886	115	24	2,631
3	0.03%	2.07%	5.33%	9.88%	142	740	55	16	953
4	0.01%	1.25%	1.26%	4.32%	43	445	13	7	508
6	0.00%	0.41%	0.78%	3.09%	11	148	8	5	172
8	0.00%	0.10%	0.00%	0.62%	3	36	0	1	40
10	0.00%	0.04%	0.00%	0.00%	1	15	0	0	16
12	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
14	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	100.00%	100.00%	100.00%	100.00%	424,315	35,700	1,031	162	461,208
Volume	25.00%	25.00%	25.00%	25.00%					
All Usage	100.00%	100.00%	100.00%	100.00%	100	100	100	100	400
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
xxxxxx	0.00%	0.00%	0.00%	0.00%	0	0	0	0	-
Total	100.00%	100.00%	100.00%	100.00%	100	100	100	100	400

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OTHER REVENUE

Index	Description	Table
Other Revenue	**Other Revenue Worksheet**	
Other Revenue - 1	Water System Other Revenue	Schedule BV-2: Table 3-7 and Table 3-8
Other Revenue - 2	Sewer System Other Revenue	Schedule BV-2: Table 6-15
Other Revenue - 3	Combined System Other Revenue	Schedule BV-2: Table 1-5, Table 2-1

Description	Historical					Study Period					
	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Water System Other Revenue											Other Revenue - 1
Penalties - Percentage of Billings	1.48%	1.55%	1.38%	0.50%	1.21%	1.30%	1.30%	1.30%	1.30%	1.30%	1.30%
Penalties	3,953	4,069	3,585	1,286	3,287	3,779	3,774	3,805	3,838	3,827	3,817
Misc City Revenues	667	483	619	832	609	719	719	719	719	719	719
Other	4,697	4,450	5,513	5,020	4,039	4,530	4,530	4,530	4,530	4,530	4,530
State & Federal Grants	569	698	860	669	464	567	567	567	567	567	567
Permits Issued by L&I (L&I)	2,760	3,243	2,517	3,993	3,599	3,796	3,796	3,796	3,796	3,796	3,796
Miscellaneous (Procurement)	228	206	182	181	153	167	167	167	167	167	167
City & UESF Grants	-	-	-	-	-	-	-	-	-	-	-
Affordability Program Discount Adjustment	(1,317)	(3,769)	(3,776)	(3,776)	-	-	-	-	-	-	-
Release from Debt Service Reserve	-	-	-	-	-	-	-	-	-	-	-
Total	11,557	9,380	9,500	8,206	12,151	13,558	13,554	13,584	13,617	13,607	13,596

Notes: See Assumptions-3

Description	Historical					Study Period					
	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Sewer System Other Revenue											Other Revenue - 2
Penalties - Percentage of Billings	1.48%	1.55%	1.38%	0.51%	1.24%	1.30%	1.30%	1.30%	1.30%	1.30%	1.30%
Penalties	6,115	6,269	5,586	2,080	5,178	5,809	5,877	5,896	5,919	5,905	5,891
Misc City Revenues	1,333	966	1,239	1,663	1,217	1,441	1,441	1,441	1,441	1,441	1,441
Other	4,698	4,450	5,512	5,021	4,039	4,530	4,530	4,530	4,530	4,530	4,530
State & Federal Grants	-	-	-	-	-	-	-	-	-	-	-
Permits Issued by L&I (L&I)	2,760	3,243	2,516	3,993	3,599	3,796	3,796	3,796	3,796	3,796	3,796
Miscellaneous (Procurement)	227	207	181	182	154	167	167	167	167	167	167
City & UESF Grants	-	-	-	-	-	300	300	300	300	300	300
Affordability Program Discount Adjustment	(1,610)	(5,424)	(4,752)	(3,501)	(9,506)	-	-	-	-	-	-
Release from Debt Service Reserve	-	-	-	-	-	-	-	-	-	-	-
Total	13,523	9,710	10,282	9,438	4,681	16,043	16,111	16,130	16,153	16,139	16,125

Notes: See Assumptions-3

Description	Historical					Study Period					
	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Combined System Other Revenue											Other Revenue - 3
Penalties - Percentage of Billings	1.48%	1.55%	1.38%	0.51%	1.25%	1.30%	1.30%	1.30%	1.30%	1.30%	1.30%
Penalties	10,068	10,338	9,171	3,366	8,465	9,588	9,651	9,700	9,758	9,733	9,707
Misc City Revenues	2,000	1,449	1,858	2,495	1,826	2,160	2,160	2,160	2,160	2,160	2,160
Other	9,395	8,900	11,025	10,041	8,078	9,059	9,059	9,059	9,059	9,059	9,059
State & Federal Grants	569	698	860	669	464	567	567	567	567	567	567
Permits Issued by L&I (L&I)	5,520	6,486	5,033	7,986	7,198	7,592	7,592	7,592	7,592	7,592	7,592
Miscellaneous (Employee Benefit + Procurement)	455	413	363	363	307	335	335	335	335	335	335
City & UESF Grants	-	-	-	-	-	300	300	300	300	300	300
Affordability Program Discount Adjustment	(2,927)	(9,193)	(8,528)	(7,277)	(9,506)	-	-	-	-	-	-
Release from Debt Service Reserve	19,000	4,819	12,000	-	-	-	-	-	-	-	-
Total	44,081	23,910	31,783	17,643	16,832	29,601	29,664	29,713	29,771	29,746	29,720

Notes: See Assumptions - 3 and (Cumulative Revenue Bond Debt Service - Excluding WIFIA)

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DIRECT O&M

Index	Description	Table
Direct O&M	**Direct Water Department O&M Worksheet**	
Direct O&M - 1	PWD Direct O&M	
Direct O&M - 2	PWD O&M Adjustments	
Direct O&M - 3	PWD Adjusted O&M	Schedule BV-1: Table C-6 Schedule BV-2: Table 2-3
Direct O&M - 4	Water System O&M	Schedule BV-2: Table 3-9
Direct O&M - 5	Wastewater System O&M	Schedule BV-2: Table 6-16
Direct O&M - 6	Liquidated Encumbrances	Schedule BV-1: Table C-6 Schedule BV-2: Table 3-9 and Table 6-16
Direct O&M - 7	Detailed Allocation Finance & Admin	
Direct O&M - 8	Detailed Allocation of Operations Class 100	
Direct O&M - 9A	Detailed Allocation of Operations Power	
Direct O&M - 9B	Detailed Allocation of Operations Gas	
Direct O&M - 10	Detailed Allocation of Operations Class 200 Excl. Power and Gas	
Direct O&M - 11	Detailed Allocation of Operations Chemicals	
Direct O&M - 12	Detailed Allocation of Operations Class 300 Excl. Chemicals	
Direct O&M - 13	Detailed Allocation of Operations Class 400	
Direct O&M - 14	PWD Projected Direct O&M Budget	

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
PWD Direct O&M													Direct O&M - 1
Human Resources and Administration													
100	Salaries & Wages	Labor	$ 8,707,658	$ 9,009,476	$ 9,673,937	$ 9,370,164	$ 9,951,298	$ 12,923,806	$ 13,343,830	$ 13,744,145	$ 14,156,469	$ 14,581,163	$ 15,018,598
200	Services	Other 200	3,228,503	2,997,589	2,516,056	3,241,468	3,126,084	3,543,881	3,819,241	4,075,130	4,266,253	4,466,341	4,675,812
300	Materials and Supplies	Other 300	859,256	899,390	631,090	687,442	705,328	747,356	805,426	859,389	899,695	941,890	986,065
400	Equipment	Other 400	475,462	214,297	55,271	331,348	201,305	375,034	412,988	451,850	481,808	513,752	547,813
500	Indemnities	Indemnities	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-
Subtotal Human Resources and Administration			$ 13,270,879	$ 13,120,752	$ 12,876,354	$ 13,630,422	$ 13,984,015	$ 17,590,078	$ 18,381,484	$ 19,130,514	$ 19,804,225	$ 20,503,146	$ 21,228,288
Finance													
100	Salaries & Wages	Labor	$ 3,012,527	$ 3,193,307	$ 5,456,616	$ 5,450,152	$ 5,784,838	$ 6,805,987	$ 7,027,182	$ 7,237,997	$ 7,455,137	$ 7,678,791	$ 7,909,155
200	Services	Other 200	7,882,538	7,328,266	7,312,002	9,271,497	8,568,116	9,351,000	10,077,573	10,752,770	11,257,075	11,785,032	12,337,750
2xx	SMIP/GARP	Constant	26,900,000	25,000,000	25,000,000	31,932,618	20,125,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
300	Materials and Supplies	Other 300	52,064	46,807	3,459	56,931	733	17,274	18,616	19,863	20,795	21,770	22,791
400	Equipment	Other 400	18,309	26,798	14,398	-	-	122	134	147	157	167	178
500	Indemnities	Indemnities	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	7,319,325	8,052,752	4,423,296	7,838,707	6,489,730	6,250,578	6,736,248	7,187,576	7,524,673	7,877,581	8,247,039
Subtotal Finance			$ 45,184,763	$ 43,647,930	$ 42,209,771	$ 54,549,905	$ 40,968,417	$ 47,424,961	$ 48,859,752	$ 50,198,354	$ 51,257,837	$ 52,363,341	$ 53,516,913
Construction and Engineering													
100	Salaries & Wages	Labor	$ 1,513,130	$ 2,225,368	$ 4,214,474	$ 4,576,001	$ 5,587,116	$ 7,667,490	$ 7,916,684	$ 8,154,184	$ 8,398,810	$ 8,650,774	$ 8,910,297
200	Services	Other 200	799,991	1,141,400	1,021,702	1,240,537	1,232,124	1,365,631	1,471,740	1,570,347	1,643,996	1,721,099	1,801,819
300	Materials and Supplies	Other 300	73,576	63,643	61,791	23,587	25,933	38,686	41,692	44,486	46,572	48,756	51,043
400	Equipment	Other 400	6,486	15,632	193,259	660	-	66,238	72,941	79,805	85,096	90,738	96,754
500	Indemnities	Indemnities	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-
Subtotal Construction and Engineering			$ 2,393,183	$ 3,446,043	$ 5,491,226	$ 5,840,785	$ 6,845,173	$ 9,138,045	$ 9,503,058	$ 9,848,822	$ 10,174,474	$ 10,511,368	$ 10,859,913
Operations													
100	Salaries & Wages	Labor	$ 79,570,651	$ 80,747,114	$ 85,482,469	$ 82,941,746	$ 88,799,038	$ 93,409,889	$ 96,445,710	$ 99,339,082	$ 102,319,254	$ 105,388,832	$ 108,550,497
200	Services	Other 200	67,977,576	76,327,780	77,776,273	81,249,860	88,611,437	88,579,096	95,461,692	101,857,625	106,634,748	111,635,917	116,871,642
220	Power	Energy	15,002,114	13,854,363	15,046,774	15,737,655	14,915,470	17,993,083	17,993,083	17,993,083	18,262,980	18,536,924	18,814,978
221	Gas	Gas	3,855,757	4,652,000	3,991,800	3,870,000	4,363,923	6,934,016	6,934,016	6,934,016	7,038,026	7,143,597	7,250,751
300	Materials and Supplies	Other 300	16,189,484	16,573,700	17,381,434	15,618,059	16,067,708	17,128,256	18,459,122	19,695,883	20,619,620	21,586,680	22,599,096
307	Chemicals	Chemicals	21,771,176	22,115,310	22,886,203	23,842,156	29,339,822	36,925,830	36,925,830	45,721,563	50,947,537	56,770,841	63,259,748
400	Equipment	Other 400	1,845,043	4,195,679	5,098,204	1,860,257	6,010,373	3,069,162	3,379,761	3,697,796	3,942,960	4,204,378	4,483,129
500	Indemnities	Indemnities	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-
Subtotal Operations			$ 206,211,801	$ 218,465,946	$ 227,663,158	$ 225,119,733	$ 248,107,771	$ 264,039,332	$ 275,599,214	$ 295,239,048	$ 309,765,125	$ 325,267,169	$ 341,829,839
Planning & Environmental Services													
100	Salaries & Wages	Labor	$ 13,558,767	$ 14,956,269	$ 16,906,060	$ 17,273,380	$ 19,744,663	$ 21,167,692	$ 21,855,642	$ 22,511,311	$ 23,186,650	$ 23,882,250	$ 24,598,717
200	Services	Other 200	16,333,568	19,507,659	17,460,836	15,957,673	15,260,309	17,498,886	18,858,549	20,122,072	21,065,797	22,053,783	23,088,105
300	Materials and Supplies	Other 300	1,200,234	1,680,851	1,405,580	1,425,909	1,477,792	1,608,317	1,733,283	1,849,413	1,936,150	2,026,956	2,122,020
400	Equipment	Other 400	746,607	385,416	333,419	470,365	479,539	776,154	854,701	935,128	997,127	1,063,237	1,133,729
500	Indemnities	Indemnities	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-
Subtotal Planning & Environmental Services			$ 31,839,176	$ 36,530,195	$ 36,105,895	$ 35,127,327	$ 36,962,303	$ 41,051,048	$ 43,302,174	$ 45,417,924	$ 47,185,725	$ 49,026,225	$ 50,942,572

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
PWD Direct O&M													Direct O&M - 1
Public Affairs													
100	Salaries & Wages	Labor	$ 4,390,923	$ 4,922,385	$ 5,244,307	$ 5,464,005	$ 5,644,716	$ 6,010,874	$ 6,206,228	$ 6,392,415	$ 6,584,187	$ 6,781,713	$ 6,985,164
200	Services	Other 200	8,700,798	8,327,583	7,662,337	5,949,469	6,257,065	7,052,886	7,600,895	8,110,155	8,490,522	8,888,727	9,305,608
300	Materials and Supplies	Other 300	401,159	432,412	359,005	258,613	258,576	325,794	351,109	374,633	392,203	410,598	429,855
400	Equipment	Other 400	2,966	1,562	1,220	9,135	8,915	5,101	5,617	6,146	6,553	6,987	7,451
500	Indemnities	Indemnities	500,000	500,000	500,000	500,000	500,000	498,339	498,339	498,339	498,339	498,339	498,339
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-
Subtotal Public Affairs			$ 13,995,846	$ 14,183,942	$ 13,766,869	$ 12,181,222	$ 12,669,272	$ 13,892,995	$ 14,662,188	$ 15,381,687	$ 15,971,804	$ 16,586,364	$ 17,226,417
PWD Operating and Maintenance Expenses Summary													
100	Salaries & Wages		$ 110,753,656	$ 115,053,919	$ 126,977,863	$ 125,075,448	$ 135,511,669	$ 147,985,739	$ 152,795,275	$ 157,379,134	$ 162,100,508	$ 166,963,523	$ 171,972,428
200	Services		104,922,974	115,630,277	113,749,206	116,910,504	123,055,135	127,391,379	137,289,690	146,488,099	153,358,391	160,550,899	168,080,736
220	Power		15,002,114	13,854,363	15,046,774	15,737,655	14,915,470	17,993,083	17,993,083	17,993,083	18,262,980	18,536,924	18,814,978
221	Gas		3,855,757	4,652,000	3,991,800	3,870,000	4,363,923	6,934,016	6,934,016	6,934,016	7,038,026	7,143,597	7,250,751
2xx	SMIP/GARP		26,900,000	25,000,000	25,000,000	31,932,618	20,125,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
300	Materials and Supplies		18,775,773	19,696,803	19,842,359	18,070,541	18,536,070	19,865,684	21,409,247	22,843,667	23,915,035	25,036,650	26,210,869
307	Chemicals		21,771,176	22,115,310	22,886,203	23,842,156	29,339,822	36,925,830	36,925,830	45,721,563	50,947,537	56,770,841	63,259,748
400	Equipment		3,094,873	4,839,384	5,695,771	2,671,765	6,700,132	4,291,811	4,726,142	5,170,872	5,513,701	5,879,259	6,269,054
500	Indemnities		500,000	500,000	500,000	500,000	500,000	498,339	498,339	498,339	498,339	498,339	498,339
800	Transfers		7,319,325	8,052,752	4,423,296	7,838,707	6,489,730	6,250,578	6,736,248	7,187,576	7,524,673	7,877,581	8,247,039
Total PWD Operating and Maintenance Expenses Summary			**$ 312,895,648**	**$ 329,394,808**	**$ 338,113,272**	**$ 346,449,394**	**$ 359,536,951**	**$ 393,136,459**	**$ 410,307,870**	**$ 435,216,349**	**$ 454,159,190**	**$ 474,257,613**	**$ 495,603,943**
CHECK			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
PWD Operating and Maintenance Expenses Summary - Annual Increase													
100	Salaries & Wages		7.86%	3.88%	10.36%	-1.50%	8.34%	9.21%	3.25%	3.00%	3.00%	3.00%	3.00%
200	Services		-2.76%	10.20%	-1.63%	2.78%	5.26%	3.52%	7.77%	6.70%	4.69%	4.69%	4.69%
220	Power		-17.81%	-7.65%	8.61%	4.59%	-5.22%	20.63%	0.00%	0.00%	1.50%	1.50%	1.50%
221	Gas		0.00%	20.65%	-14.19%	-3.05%	12.76%	58.89%	0.00%	0.00%	1.50%	1.50%	1.50%
2xx	SMIP/GARP		79.33%	-7.06%	0.00%	27.73%	-36.98%	24.22%	0.00%	0.00%	0.00%	0.00%	0.00%
300	Materials and Supplies		-5.45%	4.91%	0.74%	-8.93%	2.58%	7.17%	7.77%	6.70%	4.69%	4.69%	4.69%
307	Chemicals		16.25%	1.58%	3.49%	4.18%	23.06%	25.86%	0.00%	23.82%	11.43%	11.43%	11.43%
400	Equipment		45.97%	56.37%	17.70%	-53.09%	150.78%	-35.94%	10.12%	9.41%	6.63%	6.63%	6.63%
500	Indemnities		25.00%	0.00%	0.00%	0.00%	0.00%	-0.33%	0.00%	0.00%	0.00%	0.00%	0.00%
800	Transfers		-39.50%	10.02%	-45.07%	77.21%	-17.21%	-3.69%	7.77%	6.70%	4.69%	4.69%	4.69%
Total PWD Operating and Maintenance Expenses Summary - Annual Increase			4.22%	5.27%	2.65%	2.47%	3.78%	9.35%	4.37%	6.07%	4.35%	4.43%	4.50%
PWD Operating and Maintenance Expenses Summary - 2 Year Average Increase													
100	Salaries & Wages				7.07%	4.26%	3.31%	8.77%	6.19%	3.12%	3.00%	3.00%	3.00%
200	Services				4.12%	0.55%	4.01%	4.39%	5.63%	7.23%	5.69%	4.69%	4.69%
220	Power				0.15%	6.58%	-0.44%	6.93%	9.83%	0.00%	0.75%	1.50%	1.50%
221	Gas				1.75%	-8.79%	4.56%	33.86%	26.05%	0.00%	0.75%	1.50%	1.50%
2xx	SMIP/GARP				-3.60%	13.02%	-10.28%	-11.52%	11.46%	0.00%	0.00%	0.00%	0.00%
300	Materials and Supplies				2.80%	-4.22%	-3.35%	4.85%	7.47%	7.23%	5.69%	4.69%	4.69%
307	Chemicals				2.53%	3.83%	13.22%	24.45%	12.19%	11.27%	17.46%	11.43%	11.43%
400	Equipment				35.66%	-25.70%	8.46%	26.74%	-16.01%	9.76%	8.01%	6.63%	6.63%
500	Indemnities				0.00%	0.00%	0.00%	-0.17%	-0.17%	0.00%	0.00%	0.00%	0.00%
800	Transfers				-22.26%	-1.34%	21.13%	-10.70%	1.88%	7.23%	5.69%	4.69%	4.69%
Total PWD Operating and Maintenance Expenses Summary - 2 Year Average Increase					3.95%	2.56%	3.12%	6.53%	6.83%	5.22%	5.21%	4.39%	4.46%

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
PWD O&M Adjustments													Direct O&M - 2
Human Resources and Administration													
100	Salaries & Wages							$ -	$ 70,736	$ 291,430	$ 300,173	$ 309,178	$ 318,453
200	Services							-	753,836	804,343	842,067	881,560	922,905
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	223,593	244,634	260,853	278,147	296,589
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Human Resources and Administration								$ -	$ 1,048,165	$ 1,340,406	$ 1,403,092	$ 1,468,885	$ 1,537,947
Finance													
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -
200	Services							-	1,147,000	1,223,849	1,281,248	1,341,338	1,404,247
2xx	SMIP/GARP							-	(5,000,000)	(5,000,000)	-	-	-
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Finance								$ -	$ (3,853,000)	$ (3,776,151)	$ 1,281,248	$ 1,341,338	$ 1,404,247
Construction and Engineering													
100	Salaries & Wages							$ -	$ 850,271	$ 2,082,091	$ 2,876,382	$ 3,716,457	$ 4,604,347
200	Services							-	1,299,872	1,386,964	1,452,013	1,520,112	1,591,405
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Construction and Engineering								$ -	$ 2,150,144	$ 3,469,055	$ 4,328,394	$ 5,236,568	$ 6,195,752
Operations													
100	Salaries & Wages							$ -	$ 898,904	$ 4,274,452	$ 6,303,317	$ 7,270,037	$ 8,956,292
200	Services							-	2,040,741	2,177,470	2,279,594	2,386,507	2,498,434
220	Power							-	1,933,476	1,933,476	1,962,479	1,991,916	2,021,794
221	Gas							-	1,316,166	1,316,166	1,335,908	1,355,947	1,376,286
300	Materials and Supplies							-	-	-	-	-	-
307	Chemicals							-	15,752,865	19,505,197	21,734,642	24,218,911	26,987,133
400	Equipment							-	498,726	545,656	581,833	620,409	661,542
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Operations								$ -	$ 22,440,878	$ 29,752,418	$ 34,197,773	$ 37,843,726	$ 42,501,481
Planning & Environmental Services													
100	Salaries & Wages							$ -	$ 811,251	$ 2,394,248	$ 2,954,351	$ 3,545,905	$ 4,170,294
200	Services							-	3,370,241	2,576,759	2,697,609	2,824,127	2,956,579
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	393,765	430,818	459,381	489,838	522,314
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Planning & Environmental Services								$ -	$ 4,575,257	$ 5,401,825	$ 6,111,341	$ 6,859,871	$ 7,649,187

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
PWD O&M Adjustments													Direct O&M - 2
Public Affairs													
100	Salaries & Wages							$ -	$ 212,246	$ 874,455	$ 900,689	$ 927,709	$ 955,541
200	Services							-	264,754	282,492	295,741	309,612	324,132
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Public Affairs								$ -	$ 477,000	$ 1,156,947	$ 1,196,430	$ 1,237,321	$ 1,279,673
PWD Operating and Maintenance Expenses Adjustments Summary													
100	Salaries & Wages							$ -	$ 2,843,408	$ 9,916,676	$ 13,334,911	$ 15,769,286	$ 19,004,927
200	Services							-	8,876,444	8,451,878	8,848,271	9,263,255	9,697,701
220	Power							-	1,933,476	1,933,476	1,962,479	1,991,916	2,021,794
221	Gas							-	1,316,166	1,316,166	1,335,908	1,355,947	1,376,286
2xx	SMIP/GARP							-	(5,000,000)	(5,000,000)	-	-	-
300	Materials and Supplies							-	-	-	-	-	-
307	Chemicals							-	15,752,865	19,505,197	21,734,642	24,218,911	26,987,133
400	Equipment							-	1,116,084	1,221,108	1,302,068	1,388,395	1,480,445
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Total PWD Operating and Maintenance Expenses Adjustments Summary								**$ -**	**$ 26,838,444**	**$ 37,344,501**	**$ 48,518,278**	**$ 53,987,709**	**$ 60,568,286**
CHECK								**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
PWD Adjusted O&M													Direct O&M - 3
Human Resources and Administration													
100	Salaries & Wages		$ 8,707,658	$ 9,009,476	$ 9,673,937	$ 9,370,164	$ 9,951,298	$ 12,923,806	$ 13,414,565	$ 14,035,574	$ 14,456,642	$ 14,890,341	$ 15,337,051
200	Services		3,228,503	2,997,589	2,516,056	3,241,468	3,126,084	3,543,881	4,573,077	4,879,473	5,108,320	5,347,900	5,598,717
300	Materials and Supplies		859,256	899,390	631,090	687,442	705,328	747,356	805,426	859,389	899,695	941,890	986,065
400	Equipment		475,462	214,297	55,271	331,348	201,305	375,034	636,581	696,484	742,661	791,899	844,402
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-
Subtotal Human Resources and Administration			$ 13,270,879	$ 13,120,752	$ 12,876,354	$ 13,630,422	$ 13,984,015	$ 17,590,078	$ 19,429,649	$ 20,470,920	$ 21,207,317	$ 21,972,031	$ 22,766,235
Finance													
100	Salaries & Wages		$ 3,012,527	$ 3,193,307	$ 5,456,616	$ 5,450,152	$ 5,784,838	$ 6,805,987	$ 7,027,182	$ 7,237,997	$ 7,455,137	$ 7,678,791	$ 7,909,155
200	Services		7,882,538	7,328,266	7,312,002	9,271,497	8,568,116	9,351,000	11,224,573	11,976,619	12,538,323	13,126,370	13,741,997
2xx	SMIP/GARP		26,900,000	25,000,000	25,000,000	31,932,618	20,125,000	25,000,000	20,000,000	20,000,000	25,000,000	25,000,000	25,000,000
300	Materials and Supplies		52,064	46,807	3,459	56,931	733	17,274	18,616	19,863	20,795	21,770	22,791
400	Equipment		18,309	26,798	14,398	-	-	122	134	147	157	167	178
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-
800	Transfers		7,319,325	8,052,752	4,423,296	7,838,707	6,489,730	6,250,578	6,736,248	7,187,576	7,524,673	7,877,581	8,247,039
Subtotal Finance			$ 45,184,763	$ 43,647,930	$ 42,209,771	$ 54,549,905	$ 40,968,417	$ 47,424,961	$ 45,006,752	$ 46,422,203	$ 52,539,085	$ 53,704,679	$ 54,921,160
Construction and Engineering													
100	Salaries & Wages		$ 1,513,130	$ 2,225,368	$ 4,214,474	$ 4,576,001	$ 5,587,116	$ 7,667,490	$ 8,766,955	$ 10,236,275	$ 11,275,191	$ 12,367,231	$ 13,514,644
200	Services		799,991	1,141,400	1,021,702	1,240,537	1,232,124	1,365,631	2,771,613	2,957,311	3,096,009	3,241,211	3,393,224
300	Materials and Supplies		73,576	63,643	61,791	23,587	25,933	38,686	41,692	44,486	46,572	48,756	51,043
400	Equipment		6,486	15,632	193,259	660	-	66,238	72,941	79,805	85,096	90,738	96,754
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-
Subtotal Construction and Engineering			$ 2,393,183	$ 3,446,043	$ 5,491,226	$ 5,840,785	$ 6,845,173	$ 9,138,045	$ 11,653,201	$ 13,317,877	$ 14,502,868	$ 15,747,936	$ 17,055,666
Operations													
100	Salaries & Wages		$ 79,570,651	$ 80,747,114	$ 85,482,469	$ 82,941,746	$ 88,799,038	$ 93,409,889	$ 97,344,614	$ 103,613,534	$ 108,622,572	$ 112,658,869	$ 117,506,789
200	Services		67,977,576	76,327,780	77,776,273	81,249,860	88,611,437	88,579,096	97,502,432	104,035,095	108,914,341	114,022,424	119,370,075
220	Power		15,002,114	13,854,363	15,046,774	15,737,655	14,915,470	17,993,083	19,926,560	19,926,560	20,225,458	20,528,840	20,836,773
221	Gas		3,855,757	4,652,000	3,991,800	3,870,000	4,363,923	6,934,016	8,250,182	8,250,182	8,373,934	8,499,544	8,627,037
300	Materials and Supplies		16,189,484	16,573,700	17,381,434	15,618,059	16,067,708	17,128,256	18,459,122	19,695,883	20,619,620	21,586,680	22,599,096
307	Chemicals		21,771,176	22,115,310	22,886,203	23,842,156	29,339,822	36,925,830	52,678,695	65,226,760	72,682,179	80,989,752	90,246,881
400	Equipment		1,845,043	4,195,679	5,098,204	1,860,257	6,010,373	3,069,162	3,878,487	4,243,453	4,524,794	4,824,787	5,144,671
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-
Subtotal Operations			$ 206,211,801	$ 218,465,946	$ 227,663,158	$ 225,119,733	$ 248,107,771	$ 264,039,332	$ 298,040,092	$ 324,991,466	$ 343,962,898	$ 363,110,895	$ 384,331,320
Planning & Environmental Services													
100	Salaries & Wages		$ 13,558,767	$ 14,956,269	$ 16,906,060	$ 17,273,380	$ 19,744,663	$ 21,167,692	$ 22,666,893	$ 24,905,559	$ 26,141,001	$ 27,428,155	$ 28,769,011
200	Services		16,333,568	19,507,659	17,460,836	15,957,673	15,260,309	17,498,886	22,228,790	22,698,831	23,763,406	24,877,910	26,044,684
300	Materials and Supplies		1,200,234	1,680,851	1,405,580	1,425,909	1,477,792	1,608,317	1,733,283	1,849,413	1,936,150	2,026,956	2,122,020
400	Equipment		746,607	385,416	333,419	470,365	479,539	776,154	1,248,466	1,365,946	1,456,508	1,553,075	1,656,044
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-
Subtotal Planning & Environmental Services			$ 31,839,176	$ 36,530,195	$ 36,105,895	$ 35,127,327	$ 36,962,303	$ 41,051,048	$ 47,877,431	$ 50,819,749	$ 53,297,066	$ 55,886,096	$ 58,591,758

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
PWD Adjusted O&M													Direct O&M - 3
Public Affairs													
100	Salaries & Wages		$ 4,390,923	$ 4,922,385	$ 5,244,307	$ 5,464,005	$ 5,644,716	$ 6,010,874	$ 6,418,474	$ 7,266,870	$ 7,484,876	$ 7,709,422	$ 7,940,705
200	Services		8,700,798	8,327,583	7,662,337	5,949,469	6,257,065	7,052,886	7,865,649	8,392,648	8,786,263	9,198,339	9,629,741
300	Materials and Supplies		401,159	432,412	359,005	258,613	258,576	325,794	351,109	374,633	392,203	410,598	429,855
400	Equipment		2,966	1,562	1,220	9,135	8,915	5,101	5,617	6,146	6,553	6,987	7,451
500	Indemnities		500,000	500,000	500,000	500,000	500,000	498,339	498,339	498,339	498,339	498,339	498,339
800	Transfers		-	-	-	-	-	-	-	-	-	-	-
Subtotal Public Affairs			$ 13,995,846	$ 14,183,942	$ 13,766,869	$ 12,181,222	$ 12,669,272	$ 13,892,995	$ 15,139,188	$ 16,538,635	$ 17,168,234	$ 17,823,685	$ 18,506,090
PWD Operating and Maintenance Expenses Summary													
100	Salaries & Wages		$ 110,753,656	$ 115,053,919	$ 126,977,863	$ 125,075,448	$ 135,511,669	$ 147,985,739	$ 155,638,684	$ 167,295,809	$ 175,435,419	$ 182,732,809	$ 190,977,355
200	Services		104,922,974	115,630,277	113,749,206	116,910,504	123,055,135	127,391,379	146,166,133	154,939,977	162,206,661	169,814,154	177,778,438
220	Power		15,002,114	13,854,363	15,046,774	15,737,655	14,915,470	17,993,083	19,926,560	19,926,560	20,225,458	20,528,840	20,836,773
221	Gas		3,855,757	4,652,000	3,991,800	3,870,000	4,363,923	6,934,016	8,250,182	8,250,182	8,373,934	8,499,544	8,627,037
2xx	SMIP/GARP		26,900,000	25,000,000	25,000,000	31,932,618	20,125,000	25,000,000	20,000,000	20,000,000	25,000,000	25,000,000	25,000,000
300	Materials and Supplies		18,775,773	19,696,803	19,842,359	18,070,541	18,536,070	19,865,684	21,409,247	22,843,667	23,915,035	25,036,650	26,210,869
307	Chemicals		21,771,176	22,115,310	22,886,203	23,842,156	29,339,822	36,925,830	52,678,695	65,226,760	72,682,179	80,989,752	90,246,881
400	Equipment		3,094,873	4,839,384	5,695,771	2,671,765	6,700,132	4,291,811	5,842,227	6,391,980	6,815,769	7,267,654	7,749,500
500	Indemnities		500,000	500,000	500,000	500,000	500,000	498,339	498,339	498,339	498,339	498,339	498,339
800	Transfers		7,319,325	8,052,752	4,423,296	7,838,707	6,489,730	6,250,578	6,736,248	7,187,576	7,524,673	7,877,581	8,247,039
Total PWD Operating and Maintenance Expenses Summary			**$ 312,895,648**	**$ 329,394,808**	**$ 338,113,272**	**$ 346,449,394**	**$ 359,536,951**	**$ 393,136,459**	**$ 437,146,314**	**$ 472,560,850**	**$ 502,677,467**	**$ 528,245,322**	**$ 556,172,229**
									91.5%				
CHECK			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
PWD Operating and Maintenance Expenses Summary - Annual Increase													
100	Salaries & Wages			3.88%	10.36%	-1.50%	8.34%	9.21%	5.17%	7.49%	4.87%	4.16%	4.51%
200	Services			10.20%	-1.63%	2.78%	5.26%	3.52%	14.74%	6.00%	4.69%	4.69%	4.69%
220	Power			-7.65%	8.61%	4.59%	-5.22%	20.63%	10.75%	0.00%	1.50%	1.50%	1.50%
221	Gas			20.65%	-14.19%	-3.05%	12.76%	58.89%	18.98%	0.00%	1.50%	1.50%	1.50%
2xx	SMIP/GARP			-7.06%	0.00%	27.73%	-36.98%	24.22%	-20.00%	0.00%	25.00%	0.00%	0.00%
300	Materials and Supplies			4.91%	0.74%	-8.93%	2.58%	7.17%	7.77%	6.70%	4.69%	4.69%	4.69%
307	Chemicals			1.58%	3.49%	4.18%	23.06%	25.86%	42.66%	23.82%	11.43%	11.43%	11.43%
400	Equipment			56.37%	17.70%	-53.09%	150.78%	-35.94%	36.12%	9.41%	6.63%	6.63%	6.63%
500	Indemnities			0.00%	0.00%	0.00%	0.00%	-0.33%	0.00%	0.00%	0.00%	0.00%	0.00%
800	Transfers			10.02%	-45.07%	77.21%	-17.21%	-3.69%	7.77%	6.70%	4.69%	4.69%	4.69%
Total PWD Operating and Maintenance Expenses Summary - Annual Increase				5.27%	2.65%	2.47%	3.78%	9.35%	11.19%	8.10%	6.37%	5.09%	5.29%
PWD Operating and Maintenance Expenses Summary - 2 Year Average Increase													
100	Salaries & Wages				7.07%	4.26%	3.31%	8.77%	7.17%	6.32%	6.17%	4.51%	4.34%
200	Services				4.12%	0.55%	4.01%	4.39%	8.99%	10.28%	5.34%	4.69%	4.69%
220	Power				0.15%	6.58%	-0.44%	6.93%	15.58%	5.24%	0.75%	1.50%	1.50%
221	Gas				1.75%	-8.79%	4.56%	33.86%	37.50%	9.08%	0.75%	1.50%	1.50%
2xx	SMIP/GARP				-3.60%	13.02%	-10.28%	-11.52%	-0.31%	-10.56%	11.80%	11.80%	0.00%
300	Materials and Supplies				2.80%	-4.22%	-3.35%	4.85%	7.47%	7.23%	5.69%	4.69%	4.69%
307	Chemicals				2.53%	3.83%	13.22%	24.45%	34.00%	32.91%	17.46%	11.43%	11.43%
400	Equipment				35.66%	-25.70%	8.46%	26.74%	-6.62%	22.04%	8.01%	6.63%	6.63%
500	Indemnities					0.00%	0.00%	-0.17%	-0.17%	0.00%	0.00%	0.00%	0.00%
800	Transfers				-22.26%	-1.34%	21.13%	-10.70%	1.88%	7.23%	5.69%	4.69%	4.69%
Total PWD Operating and Maintenance Expenses Summary - 2 Year Average Increase					3.95%	2.56%	3.12%	6.53%	10.27%	9.64%	7.23%	5.73%	5.19%

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water System O&M													Direct O&M - 4
Human Resources and Administration													
100	Salaries & Wages							$ 4,006,380	$ 4,158,515	$ 4,351,028	$ 4,481,559	$ 4,616,006	$ 4,754,486
200	Services							1,098,603	1,417,654	1,512,637	1,583,579	1,657,849	1,735,602
300	Materials and Supplies							231,680	249,682	266,411	278,905	291,986	305,680
400	Equipment							116,261	197,340	215,910	230,225	245,489	261,765
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Human Resources and Administration								$ 5,452,924	$ 6,023,191	$ 6,345,986	$ 6,574,268	$ 6,811,330	$ 7,057,533
Finance													
100	Salaries & Wages							$ 4,617,728	$ 4,767,804	$ 4,910,838	$ 5,058,163	$ 5,209,908	$ 5,366,205
200	Services							3,373,580	4,049,513	4,320,830	4,523,477	4,735,628	4,957,729
2xx	SMIP & GARP							-	-	-	-	-	-
300	Materials and Supplies							6,564	7,074	7,548	7,902	8,273	8,661
400	Equipment							46	51	56	60	64	68
500	Indemnities							-	-	-	-	-	-
800	Transfers							2,250,208	2,425,049	2,587,527	2,708,882	2,835,929	2,968,934
Subtotal Finance								$ 10,248,126	$ 11,249,491	$ 11,826,799	$ 12,298,484	$ 12,789,802	$ 13,301,597
Construction and Engineering													
100	Salaries & Wages							$ 3,066,996	$ 3,506,782	$ 4,094,510	$ 4,510,077	$ 4,946,892	$ 5,405,858
200	Services							546,252	1,108,645	1,182,924	1,238,403	1,296,485	1,357,290
300	Materials and Supplies							15,475	16,677	17,794	18,629	19,502	20,417
400	Equipment							26,495	29,177	31,922	34,039	36,295	38,702
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Construction and Engineering								$ 3,655,218	$ 4,661,281	$ 5,327,150	$ 5,801,148	$ 6,299,174	$ 6,822,267
Operations													
100	Salaries & Wages							$ 39,972,954	$ 41,570,062	$ 43,739,142	$ 45,049,776	$ 46,401,269	$ 47,793,307
200	Services							20,508,179	22,574,145	24,086,613	25,216,275	26,398,918	27,637,028
220	Power							9,374,396	10,381,738	10,381,738	10,537,464	10,695,526	10,855,958
221	Gas							946,493	1,126,150	1,126,150	1,143,042	1,160,188	1,177,590
300	Materials and Supplies							6,958,366	7,499,031	8,001,466	8,376,735	8,769,604	9,180,898
307	Chemicals							19,342,740	27,594,513	34,167,526	38,072,874	42,424,604	47,273,736
400	Equipment							1,494,516	1,888,614	2,066,332	2,203,330	2,349,411	2,505,177
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Operations								$ 98,597,644	$ 112,634,253	$ 123,568,967	$ 130,599,496	$ 138,199,520	$ 146,423,694
Planning & Environmental Services													
100	Salaries & Wages							$ 4,978,354	$ 5,330,946	$ 5,857,450	$ 6,148,009	$ 6,450,730	$ 6,766,081
200	Services							6,044,653	7,678,507	7,840,874	8,208,610	8,593,594	8,996,634
300	Materials and Supplies							626,870	675,578	720,841	754,649	790,042	827,095
400	Equipment							302,280	486,226	531,980	567,251	604,859	644,962
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Planning & Environmental Services								$ 11,952,157	$ 14,171,257	$ 14,951,145	$ 15,678,519	$ 16,439,225	$ 17,234,772

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water System O&M													Direct O&M - 4
Public Affairs													
100	Salaries & Wages							$ 3,005,437	$ 3,209,237	$ 3,633,435	$ 3,742,438	$ 3,854,711	$ 3,970,352
200	Services							3,526,443	3,932,825	4,196,324	4,393,131	4,599,169	4,814,870
300	Materials and Supplies							162,897	175,554	187,316	196,102	205,299	214,927
400	Equipment							2,550	2,808	3,073	3,276	3,494	3,725
500	Indemnities							249,169	249,169	249,169	249,169	249,169	249,169
800	Transfers							-	-	-	-	-	-
Subtotal Public Affairs								$ 6,946,496	$ 7,569,593	$ 8,269,317	$ 8,584,116	$ 8,911,842	$ 9,253,043
Water System Operating and Maintenance Expenses Summary													
100	Salaries & Wages							$ 59,647,849	$ 62,543,346	$ 66,586,403	$ 68,990,022	$ 71,479,516	$ 74,056,289
200	Services							35,097,710	40,761,289	43,140,202	45,163,475	47,281,643	49,499,153
220	Power							9,374,396	10,381,738	10,381,738	10,537,464	10,695,526	10,855,958
221	Gas							946,493	1,126,150	1,126,150	1,143,042	1,160,188	1,177,590
2xx	SMIP/GARP							-	-	-	-	-	-
300	Materials and Supplies							8,001,852	8,623,596	9,201,376	9,632,922	10,084,706	10,557,678
307	Chemicals							19,342,740	27,594,513	34,167,526	38,072,874	42,424,604	47,273,736
400	Equipment							1,942,148	2,604,216	2,849,273	3,038,181	3,239,612	3,454,399
500	Indemnities							249,169	249,169	249,169	249,169	249,169	249,169
800	Transfers							2,250,208	2,425,049	2,587,527	2,708,882	2,835,929	2,968,934
Total Water System Operating and Maintenance Expenses Summary								**$ 136,852,565**	**$ 156,309,066**	**$ 170,289,364**	**$ 179,536,031**	**$ 189,450,893**	**$ 200,092,906**
CHECK								**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Wastewater System O&M													Direct O&M - 5
Human Resources and Administration													
100	Salaries & Wages							$ 8,917,426	$ 9,256,050	$ 9,684,546	$ 9,975,083	$ 10,274,335	$ 10,582,565
200	Services							2,445,278	3,155,423	3,366,836	3,524,741	3,690,051	3,863,115
300	Materials and Supplies							515,676	555,744	592,978	620,790	649,904	680,385
400	Equipment							258,773	439,241	480,574	512,436	546,410	582,637
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Human Resources and Administration								$ 12,137,154	$ 13,406,458	$ 14,124,934	$ 14,633,049	$ 15,160,701	$ 15,708,702
Finance													
100	Salaries & Wages							$ 2,188,259	$ 2,259,378	$ 2,327,159	$ 2,396,974	$ 2,468,883	$ 2,542,950
200	Services							5,977,420	7,175,060	7,655,789	8,014,846	8,390,742	8,784,268
2xx	SMIP & GARP							25,000,000	20,000,000	20,000,000	25,000,000	25,000,000	25,000,000
300	Materials and Supplies							10,710	11,542	12,315	12,893	13,497	14,130
400	Equipment							76	83	91	97	103	110
500	Indemnities							-	-	-	-	-	-
800	Transfers							4,000,370	4,311,199	4,600,049	4,815,791	5,041,652	5,278,105
Subtotal Finance								$ 37,176,835	$ 33,757,261	$ 34,595,404	$ 40,240,601	$ 40,914,877	$ 41,619,563
Construction and Engineering													
100	Salaries & Wages							$ 4,600,494	$ 5,260,173	$ 6,141,765	$ 6,765,114	$ 7,420,339	$ 8,108,786
200	Services							819,379	1,662,968	1,774,387	1,857,606	1,944,726	2,035,934
300	Materials and Supplies							23,211	25,015	26,692	27,943	29,254	30,626
400	Equipment							39,743	43,764	47,883	51,057	54,443	58,052
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Construction and Engineering								$ 5,482,827	$ 6,991,920	$ 7,990,727	$ 8,701,720	$ 9,448,762	$ 10,233,399
Operations													
100	Salaries & Wages							$ 53,436,935	$ 55,774,552	$ 59,874,392	$ 63,572,796	$ 66,257,600	$ 69,713,482
200	Services							68,070,917	74,928,287	79,948,482	83,698,066	87,623,506	91,733,047
220	Power							8,618,687	9,544,822	9,544,822	9,687,994	9,833,314	9,980,815
221	Gas							5,987,523	7,124,032	7,124,032	7,230,892	7,339,356	7,449,447
300	Materials and Supplies							10,169,890	10,960,091	11,694,417	12,242,885	12,817,076	13,418,198
307	Chemicals							17,583,090	25,084,182	31,059,234	34,609,305	38,565,148	42,973,145
400	Equipment							1,574,646	1,989,873	2,177,121	2,321,464	2,475,376	2,639,494
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Operations								$ 165,441,688	$ 185,405,839	$ 201,422,499	$ 213,363,402	$ 224,911,375	$ 237,907,626
Planning & Environmental Services													
100	Salaries & Wages							$ 16,189,338	$ 17,335,947	$ 19,048,109	$ 19,992,992	$ 20,977,425	$ 22,002,930
200	Services							11,454,233	14,550,283	14,857,957	15,554,796	16,284,316	17,048,050
300	Materials and Supplies							981,447	1,057,705	1,128,572	1,181,501	1,236,914	1,294,925
400	Equipment							473,874	762,240	833,966	889,257	948,216	1,011,082
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Planning & Environmental Services								$ 29,098,891	$ 33,706,174	$ 35,868,604	$ 37,618,547	$ 39,446,871	$ 41,356,986

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Wastewater System O&M													Direct O&M - 5
Public Affairs													
100	Salaries & Wages							$ 3,005,437	$ 3,209,237	$ 3,633,435	$ 3,742,438	$ 3,854,711	$ 3,970,353
200	Services							3,526,443	3,932,824	4,196,324	4,393,132	4,599,170	4,814,871
300	Materials and Supplies							162,897	175,555	187,317	196,101	205,299	214,928
400	Equipment							2,551	2,809	3,073	3,277	3,493	3,726
500	Indemnities							249,170	249,170	249,170	249,170	249,170	249,170
800	Transfers							-	-	-	-	-	-
Subtotal Public Affairs								$ 6,946,499	$ 7,569,595	$ 8,269,318	$ 8,584,118	$ 8,911,843	$ 9,253,047
Wastewater System Operating and Maintenance Expenses Summary													
100	Salaries & Wages							$ 88,337,890	$ 93,095,338	$ 100,709,406	$ 106,445,397	$ 111,253,293	$ 116,921,066
200	Services							92,293,669	105,404,844	111,799,775	117,043,186	122,532,511	128,279,285
220	Power							8,618,687	9,544,822	9,544,822	9,687,994	9,833,314	9,980,815
221	Gas							5,987,523	7,124,032	7,124,032	7,230,892	7,339,356	7,449,447
2xx	SMIP/GARP							25,000,000	20,000,000	20,000,000	25,000,000	25,000,000	25,000,000
300	Materials and Supplies							11,863,832	12,785,651	13,642,291	14,282,113	14,951,944	15,653,191
307	Chemicals							17,583,090	25,084,182	31,059,234	34,609,305	38,565,148	42,973,145
400	Equipment							2,349,663	3,238,011	3,542,707	3,777,588	4,028,042	4,295,101
500	Indemnities							249,170	249,170	249,170	249,170	249,170	249,170
800	Transfers							4,000,370	4,311,199	4,600,049	4,815,791	5,041,652	5,278,105
Total Wastewater System Operating and Maintenance Expenses Summary								**$ 256,283,894**	**$ 280,837,248**	**$ 302,271,486**	**$ 323,141,436**	**$ 338,794,429**	**$ 356,079,323**
CHECK								**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CHECK - Water & Sewer								**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Allocation of Wastewater Costs to WTP Sludge (Linked to SCOS Model)								$ 14,570,012	$ 16,592,337	$ 18,043,183	$ 20,080,960	$ 21,490,504	$ 22,989,007
Annual Increase									13.88%	8.74%	11.29%	7.02%	6.97%
Wastewater - Operations O&M Growth									12.07%	8.64%	5.93%	5.41%	5.78%
Wastewater O&M Growth									9.58%	7.63%	6.90%	4.84%	5.10%

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Liquidated Encumbrances												**Direct O&M - 6**
Class 200 (Excluding SMIP/GARP) & Class 300 Costs		$ 164,327,794	$ 175,948,753	$ 175,516,342	$ 178,430,856	$ 190,210,420	$ 209,109,993	$ 248,430,817	$ 271,187,145	$ 287,403,268	$ 304,868,939	$ 323,699,996
Water							$ 72,763,191	$ 88,487,286	$ 98,016,992	$ 104,549,777	$ 111,646,667	$ 119,364,115
Sewer							$ 136,346,802	$ 159,943,531	$ 173,170,153	$ 182,853,491	$ 193,222,272	$ 204,335,881
Liquidated Encumbrances		32,413,214	30,716,786	26,861,077	23,992,624	36,805,325	33,685,788	40,020,029	43,685,874	46,298,149	49,111,716	52,145,234
Water Allocation							11,721,513	14,254,527	15,789,679	16,842,053	17,985,300	19,228,513
Sewer Allocation							21,964,275	25,765,502	27,896,195	29,456,096	31,126,416	32,916,721
Direct Expenses Net of Liquidated Encumbrances		280,482,434	298,678,022	311,252,195	322,456,770	322,731,626	359,450,671	397,126,285	428,874,976	456,379,318	479,133,606	504,026,995
Water Allocation							125,131,052	142,054,539	154,499,685	162,693,978	171,465,593	180,864,393
Sewer Allocation							234,319,619	255,071,746	274,375,291	293,685,340	307,668,013	323,162,602
Net Expense Ratio												
Water							83.9%	83.9%	83.9%	83.9%	83.9%	83.9%
Sewer							83.9%	83.9%	83.9%	83.9%	83.9%	83.9%

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation Finance & Admin												**Direct O&M - 7**
Projected O&M Prior to Adjustments												
Class 100 - xxxxxxxxxx	48.14%						$ 3,276,536	$ 3,383,024	$ 3,484,514	$ 3,589,050	$ 3,696,721	$ 3,807,623
Class 100 - All Other	51.86%						3,529,451	3,644,158	3,753,483	3,866,088	3,982,070	4,101,532
Class 100 - Total	100.00%						6,805,987	7,027,182	7,237,997	7,455,137	7,678,791	7,909,155
Class 200 - Residential Stormwater Program	0.00%						-	-	-	-	-	-
Class 200 - Non-Res Stormwater Program	0.00%						-	-	-	-	-	-
Class 200 - Wastewater Collection Mains	0.00%						-	-	-	-	-	-
Class 200 - Green Initiatives (LTCP)	0.00%						-	-	-	-	-	-
Class 200 - Customer (Grants)	3.64%						340,000	366,418	390,968	409,304	428,501	448,597
Class 200 - Customer (Basis2)	11.76%						1,100,000	1,185,470	1,264,896	1,324,220	1,386,326	1,451,345
Class 200 - All Other	84.60%						7,911,000	8,525,685	9,096,906	9,523,550	9,970,205	10,437,808
Class 200 - Total	100.00%						9,351,000	10,077,573	10,752,770	11,257,075	11,785,032	12,337,750
Class 2xx - SMIP/GARP (Wastewater Collection)	100.00%						25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
Class 2xx - All Other	0.00%						-	-	-	-	-	-
Class 2xx - Total (SMIP & GARP)	100.00%						25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
Class 300 - xxxxxxxxxx	0.00%						-	-	-	-	-	-
Class 300 - All Other	100.00%						17,274	18,616	19,863	20,795	21,770	22,791
Class 300 - Total	100.00%						17,274	18,616	19,863	20,795	21,770	22,791
Class 400 - xxxxxxxxxx	0.00%						-	-	-	-	-	-
Class 400 - All Other	100.00%						122	134	147	157	167	178
Class 400 - Total	100.00%						122	134	147	157	167	178
Class 500 - xxxxxxxxxx	0.00%						-	-	-	-	-	-
Class 500 - All Other	0.00%						-	-	-	-	-	-
Class 500 - Total	0.00%						-	-	-	-	-	-
Class 800 - xxxxxxxxxx	0.00%						-	-	-	-	-	-
Class 800 - All Other	100.00%						6,250,578	6,736,248	7,187,576	7,524,673	7,877,581	8,247,039
Class 800 - Total	100.00%						6,250,578	6,736,248	7,187,576	7,524,673	7,877,581	8,247,039
Subtotal Projected O&M Prior to Adjustments							$ 47,424,961	$ 48,859,752	$ 50,198,354	$ 51,257,837	$ 52,363,341	$ 53,516,913

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation Finance & Admin												**Direct O&M - 7**
Adjustments												
Class 100 - xxxxxxxxxx												
Class 100 - All Other												
Class 100 - Total							-	-	-	-	-	-
Class 200 - Residential Stormwater Program												
Class 200 - Non-Res Stormwater Program												
Class 200 - Wastewater Collection Mains												
Class 200 - Green Initiatives (LTCP)												
Class 200 - Customer (Grants)												
Class 200 - Customer (Basis2)												
Class 200 - All Other												
Class 200 - Total							-	-	-	-	-	-
Class 2xx - SMIP/GARP (Wastewater Collection)								(5,000,000)	(5,000,000)	-	-	-
Class 2xx - All Other												
Class 2xx - Total (SMIP & GARP)							-	(5,000,000)	(5,000,000)	-	-	-
Class 300 - xxxxxxxxxx												
Class 300 - All Other												
Class 300 - Total							-	-	-	-	-	-
Class 400 - xxxxxxxxxx												
Class 400 - All Other												
Class 400 - Total							-	-	-	-	-	-
Class 500 - xxxxxxxxxx												
Class 500 - All Other												
Class 500 - Total							-	-	-	-	-	-
Class 800 - Fire Dept Hydrant Maint												
Class 800 - All Other												
Class 800 - Total							-	-	-	-	-	-
Subtotal Adjustments							$ -	$ (5,000,000)	$ (5,000,000)	$ -	$ -	$ -

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation Finance & Admin												**Direct O&M - 7**
Projected O&M												
Class 100 - xxxxxxxxxx							$ 3,276,536	$ 3,383,024	$ 3,484,514	$ 3,589,050	$ 3,696,721	$ 3,807,623
Class 100 - All Other							3,529,451	3,644,158	3,753,483	3,866,088	3,982,070	4,101,532
Class 100 - Total							6,805,987	7,027,182	7,237,997	7,455,137	7,678,791	7,909,155
Class 200 - Residential Stormwater Program							-	-	-	-	-	-
Class 200 - Non-Res Stormwater Program							-	-	-	-	-	-
Class 200 - Wastewater Collection Mains							-	-	-	-	-	-
Class 200 - Green Initiatives (LTCP)							-	-	-	-	-	-
Class 200 - Customer (Grants)							340,000	366,418	390,968	409,304	428,501	448,597
Class 200 - Customer (Basis2)							1,100,000	1,185,470	1,264,896	1,324,220	1,386,326	1,451,345
Class 200 - All Other							7,911,000	8,525,685	9,096,906	9,523,550	9,970,205	10,437,808
Class 200 - Total							9,351,000	10,077,573	10,752,770	11,257,075	11,785,032	12,337,750
Class 2xx - xxxxxxxxxx							25,000,000	20,000,000	20,000,000	25,000,000	25,000,000	25,000,000
Class 2xx - All Other							-	-	-	-	-	-
Class 2xx - Total (SMIP & GARP)							25,000,000	20,000,000	20,000,000	25,000,000	25,000,000	25,000,000
Class 300 - xxxxxxxxxx							-	-	-	-	-	-
Class 300 - All Other							17,274	18,616	19,863	20,795	21,770	22,791
Class 300 - Total							17,274	18,616	19,863	20,795	21,770	22,791
Class 400 - xxxxxxxxxx							-	-	-	-	-	-
Class 400 - All Other							122	134	147	157	167	178
Class 400 - Total							122	134	147	157	167	178
Class 500 - xxxxxxxxxx							-	-	-	-	-	-
Class 500 - All Other							-	-	-	-	-	-
Class 500 - Total							-	-	-	-	-	-
Class 800 - xxxxxxxxxx							-	-	-	-	-	-
Class 800 - All Other							6,250,578	6,736,248	7,187,576	7,524,673	7,877,581	8,247,039
Class 800 - Total							6,250,578	6,736,248	7,187,576	7,524,673	7,877,581	8,247,039
Subtotal Projected O&M							$ 47,424,961	$ 43,859,752	$ 45,198,354	$ 51,257,837	$ 52,363,341	$ 53,516,913

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation Finance & Admin												**Direct O&M - 7**
Finance												
Class 100 - xxxxxxxxxx							48.14%	48.14%	48.14%	48.14%	48.14%	48.14%
Class 100 - All Other							51.86%	51.86%	51.86%	51.86%	51.86%	51.86%
Class 100 - Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Class 200 - Residential Stormwater Program							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 200 - Non-Res Stormwater Program							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 200 - Wastewater Collection Mains							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 200 - Green Initiatives (LTCP)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 200 - Customer (Grants)							3.64%	3.64%	3.64%	3.64%	3.64%	3.64%
Class 200 - Customer (Basis2)							11.76%	11.76%	11.76%	11.76%	11.76%	11.76%
Class 200 - All Other							84.60%	84.60%	84.60%	84.60%	84.60%	84.60%
Class 200 - Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Class 2xx - xxxxxxxxxx							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Class 2xx - All Other							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 2xx - Total (SMIP & GARP)							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Class 300 - xxxxxxxxxx							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 300 - All Other							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Class 300 - Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Class 400 - xxxxxxxxxx							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 400 - All Other							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Class 400 - Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Class 500 - xxxxxxxxxx							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 500 - All Other							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 500 - Total							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 800 - Fire Dept Hydrant Maint							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Class 800 - All Other							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Class 800 - Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Class 100												**Direct O&M - 8**
Projected O&M Prior to Adjustments												
Water Direct Costs												
Baxter Treatment Plant	4.05%						$ 3,787,216	$ 3,910,300	$ 4,027,609	$ 4,148,438	$ 4,272,891	$ 4,401,078
Queen Lane Treatment Plant	3.73%						3,487,010	3,600,338	3,708,348	3,819,598	3,934,186	4,052,212
Belmont Treatment Plant	3.83%						3,575,138	3,691,330	3,802,070	3,916,132	4,033,616	4,154,624
Conveyance Headquarters	0.00%						-	-	-	-	-	-
Load Control	2.10%						1,964,112	2,027,946	2,088,784	2,151,447	2,215,991	2,282,471
Distribution	18.72%						17,490,074	18,058,501	18,600,256	19,158,264	19,733,012	20,325,002
Pumping (b)	3.23%						3,021,063	3,119,247	3,212,825	3,309,210	3,408,486	3,510,741
Emergency & Support Services	0.00%						-	-	-	-	-	-
Sewer Direct Costs												
Biosolids Engr Services	0.00%						-	-	-	-	-	-
Biosolids Utilization	0.00%						-	-	-	-	-	-
Biosolids Processing	0.00%						-	-	-	-	-	-
NEWPCP	8.16%						7,625,675	7,873,509	8,109,715	8,353,006	8,603,596	8,861,704
SWWPCP	8.01%						7,486,290	7,729,594	7,961,482	8,200,327	8,446,336	8,699,726
SEWPCP	4.79%						4,470,710	4,616,008	4,754,488	4,897,123	5,044,037	5,195,358
Industrial Waste	2.08%						1,940,230	2,003,287	2,063,386	2,125,288	2,189,046	2,254,718
Sewer Maintenance	12.08%						11,285,638	11,652,421	12,001,994	12,362,053	12,732,915	13,114,902
Inlet Cleaning	6.34%						5,922,946	6,115,442	6,298,905	6,487,872	6,682,508	6,882,983
Interceptors/Flow Control	5.60%						5,226,618	5,396,483	5,558,377	5,725,129	5,896,883	6,073,789
GSI Maintenance	1.95%						1,820,329	1,879,490	1,935,874	1,993,951	2,053,769	2,115,382
Collector System Support	1.08%						1,010,158	1,042,988	1,074,278	1,106,506	1,139,701	1,173,892
Allocated Costs												
Treatment Headquarters (50/50)	0.68%						631,145	651,657	671,207	691,343	712,083	733,446
Machine Shops (50/50)	0.00%						-	-	-	-	-	-
Building Maintenance (50/50)	0.00%						-	-	-	-	-	-
Security (50/50)	0.00%						-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)	6.52%						6,086,534	6,284,346	6,472,877	6,667,063	6,867,075	7,073,087
Materials Management (50/50)	2.18%						2,036,018	2,102,189	2,165,254	2,230,212	2,297,118	2,366,032
Customer Service (50/50)	1.96%						1,835,334	1,894,982	1,951,832	2,010,387	2,070,698	2,132,819
Warranty Program	0.00%						-	-	-	-	-	-
Meter Shop (50/50)	2.90%						2,707,653	2,795,652	2,879,521	2,965,907	3,054,884	3,146,531
Automotive Maintenance (35/65)	0.00%						-	-	-	-	-	-
Total	100.00%						$ 93,409,889	$ 96,445,710	$ 99,339,082	$ 102,319,254	$ 105,388,832	$ 108,550,497

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Class 100													**Direct O&M - 8**
Adjustments													
Water Direct Costs													
Baxter Treatment Plant	3,787,216												
Queen Lane Treatment Plant	3,487,010												
Belmont Treatment Plant	3,575,138												
Conveyance Headquarters	-												
Load Control	1,964,112												
Distribution	17,490,074							-	251,693	1,038,692	1,066,888	1,098,895	1,131,862
Pumping (b)	3,021,063												
Emergency & Support Services	-												
Sewer Direct Costs													
Biosolids Engr Services	-												
Biosolids Utilization	-												
Biosolids Processing	-												
NEWPCP	7,625,675												
SWWPCP	7,486,290												
SEWPCP	4,470,710												
Industrial Waste	1,940,230												
Sewer Maintenance	11,285,638												
Inlet Cleaning	5,922,946												
Interceptors/Flow Control	5,226,618												
GSI Maintenance	1,820,329							-	554,624	2,855,334	4,841,742	5,764,615	7,405,707
Collector System Support	1,010,158												
Allocated Costs													
Treatment Headquarters (50/50)	631,145							-	92,587	380,426	394,687	406,528	418,723
Machine Shops (50/50)	-												
Building Maintenance (50/50)	-												
Security (50/50)	-												
Operations Admin/Delinquencies	6,086,534												
Materials Management (50/50)	2,036,018												
Customer Service (50/50)	1,835,334												
Warranty Program	-												
Meter Shop (50/50)	2,707,653												
Automotive Maintenance (35/65)	-												
Total	93,409,891							-	898,904	4,274,452	6,303,317	7,270,037	8,956,292

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Class 100												**Direct O&M - 8**
Projected O&M												
Water Direct Costs												
Baxter Treatment Plant							$ 3,787,216	$ 3,910,300	$ 4,027,609	$ 4,148,438	$ 4,272,891	$ 4,401,078
Queen Lane Treatment Plant							3,487,010	3,600,338	3,708,348	3,819,598	3,934,186	4,052,212
Belmont Treatment Plant							3,575,138	3,691,330	3,802,070	3,916,132	4,033,616	4,154,624
Conveyance Headquarters							-	-	-	-	-	-
Load Control							1,964,112	2,027,946	2,088,784	2,151,447	2,215,991	2,282,471
Distribution							17,490,074	18,310,194	19,638,948	20,225,152	20,831,906	21,456,864
Pumping (b)							3,021,063	3,119,247	3,212,825	3,309,210	3,408,486	3,510,741
Emergency & Support Services							-	-	-	-	-	-
Sewer Direct Costs												
Biosolids Engr Services							-	-	-	-	-	-
Biosolids Utilization							-	-	-	-	-	-
Biosolids Processing							-	-	-	-	-	-
NEWPCP							7,625,675	7,873,509	8,109,715	8,353,006	8,603,596	8,861,704
SWWPCP							7,486,290	7,729,594	7,961,482	8,200,327	8,446,336	8,699,726
SEWPCP							4,470,710	4,616,008	4,754,488	4,897,123	5,044,037	5,195,358
Industrial Waste							1,940,230	2,003,287	2,063,386	2,125,288	2,189,046	2,254,718
Sewer Maintenance							11,285,638	11,652,421	12,001,994	12,362,053	12,732,915	13,114,902
Inlet Cleaning							5,922,946	6,115,442	6,298,905	6,487,872	6,682,508	6,882,983
Interceptors/Flow Control							5,226,618	5,396,483	5,558,377	5,725,129	5,896,883	6,073,789
GSI Maintenance							1,820,329	2,434,113	4,791,208	6,835,693	7,818,384	9,521,089
Collector System Support							1,010,158	1,042,988	1,074,278	1,106,506	1,139,701	1,173,892
Allocated Costs												
Treatment Headquarters (50/50)							631,145	744,244	1,051,633	1,086,030	1,118,611	1,152,169
Machine Shops (50/50)							-	-	-	-	-	-
Building Maintenance (50/50)							-	-	-	-	-	-
Security (50/50)							-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							6,086,534	6,284,346	6,472,877	6,667,063	6,867,075	7,073,087
Materials Management (50/50)							2,036,018	2,102,189	2,165,254	2,230,212	2,297,118	2,366,032
Customer Service (50/50)							1,835,334	1,894,982	1,951,832	2,010,387	2,070,698	2,132,819
Warranty Program							-	-	-	-	-	-
Meter Shop (50/50)							2,707,653	2,795,652	2,879,521	2,965,907	3,054,884	3,146,531
Automotive Maintenance (35/65)							-	-	-	-	-	-
Total							$ 93,409,889	$ 97,344,614	$ 103,613,534	$ 108,622,572	$ 112,658,869	$ 117,506,789

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Class 100												**Direct O&M - 8**
Distribution												
Water Direct Costs												
Baxter Treatment Plant							4.05%	4.02%	3.89%	3.82%	3.79%	3.75%
Queen Lane Treatment Plant							3.73%	3.70%	3.58%	3.52%	3.49%	3.45%
Belmont Treatment Plant							3.83%	3.79%	3.67%	3.61%	3.58%	3.54%
Conveyance Headquarters							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Load Control							2.10%	2.08%	2.02%	1.98%	1.97%	1.94%
Distribution							18.72%	18.81%	18.95%	18.62%	18.49%	18.26%
Pumping (b)							3.23%	3.20%	3.10%	3.05%	3.03%	2.99%
Emergency & Support Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Direct Costs												
Biosolids Engr Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Utilization							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Processing							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
NEWPCP							8.16%	8.09%	7.83%	7.69%	7.64%	7.54%
SWWPCP							8.01%	7.94%	7.68%	7.55%	7.50%	7.40%
SEWPCP							4.79%	4.74%	4.59%	4.51%	4.48%	4.42%
Industrial Waste							2.08%	2.06%	1.99%	1.96%	1.94%	1.92%
Sewer Maintenance							12.08%	11.97%	11.58%	11.38%	11.30%	11.16%
Inlet Cleaning							6.34%	6.28%	6.08%	5.97%	5.93%	5.86%
Interceptors/Flow Control							5.60%	5.54%	5.36%	5.27%	5.23%	5.17%
GSI Maintenance							1.95%	2.50%	4.62%	6.29%	6.94%	8.10%
Collector System Support							1.08%	1.07%	1.04%	1.02%	1.01%	1.00%
Allocated Costs												
Treatment Headquarters (50/50)							0.68%	0.76%	1.01%	1.00%	0.99%	0.98%
Machine Shops (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Building Maintenance (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Security (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							6.52%	6.46%	6.25%	6.14%	6.10%	6.02%
Materials Management (50/50)							2.18%	2.16%	2.09%	2.05%	2.04%	2.01%
Customer Service (50/50)							1.96%	1.95%	1.88%	1.85%	1.84%	1.82%
Warranty Program							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meter Shop (50/50)							2.90%	2.87%	2.78%	2.73%	2.71%	2.68%
Automotive Maintenance (35/65)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Power												**Direct O&M - 9A**
Projected O&M Prior to Adjustments												
Water Direct Costs												
Baxter Treatment Plant	0.00%						$ -	$ -	$ -	$ -	$ -	$ -
Queen Lane Treatment Plant	0.00%						-	-	-	-	-	-
Belmont Treatment Plant	0.00%						-	-	-	-	-	-
Conveyance Headquarters	0.00%						-	-	-	-	-	-
Load Control	51.60%						9,284,431	9,284,431	9,284,431	9,423,698	9,565,053	9,708,529
Distribution	0.50%						89,965	89,965	89,965	91,314	92,684	94,074
Pumping (b)	0.00%						-	-	-	-	-	-
Emergency & Support Services	0.00%						-	-	-	-	-	-
Sewer Direct Costs												
Biosolids Engr Services	0.00%						-	-	-	-	-	-
Biosolids Utilization	0.00%						-	-	-	-	-	-
Biosolids Processing	0.00%						-	-	-	-	-	-
NEWPCP	8.90%						1,601,384	1,601,384	1,601,384	1,625,405	1,649,786	1,674,533
SWWPCP	27.10%						4,876,126	4,876,126	4,876,126	4,949,268	5,023,507	5,098,860
SEWPCP	7.90%						1,421,454	1,421,454	1,421,454	1,442,776	1,464,417	1,486,384
Industrial Waste	0.00%						-	-	-	-	-	-
Sewer Maintenance	0.00%						-	-	-	-	-	-
Inlet Cleaning	0.00%						-	-	-	-	-	-
Interceptors/Flow Control	4.00%						719,723	719,723	719,723	730,519	741,477	752,599
GSI Maintenance	0.00%						-	-	-	-	-	-
Collector System Support	0.00%						-	-	-	-	-	-
Allocated Costs												
Treatment Headquarters (50/50)	0.00%						-	-	-	-	-	-
Machine Shops (50/50)	0.00%						-	-	-	-	-	-
Building Maintenance (50/50)	0.00%						-	-	-	-	-	-
Security (50/50)	0.00%						-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)	0.00%						-	-	-	-	-	-
Materials Management (50/50)	0.00%						-	-	-	-	-	-
Customer Service (50/50)	0.00%						-	-	-	-	-	-
Warranty Program	0.00%						-	-	-	-	-	-
Meter Shop (50/50)	0.00%						-	-	-	-	-	-
Automotive Maintenance (35/65)	0.00%						-	-	-	-	-	-
Total	100.00%						$ 17,993,083	$ 17,993,083	$ 17,993,083	$ 18,262,980	$ 18,536,924	$ 18,814,978

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Power													**Direct O&M - 9A**
Adjustments													
Water Direct Costs													
Baxter Treatment Plant	-												
Queen Lane Treatment Plant	-												
Belmont Treatment Plant	-												
Conveyance Headquarters	-												
Load Control	9,284,431												
Distribution	89,965												
Pumping (b)	-												
Emergency & Support Services	-												
Sewer Direct Costs													
Biosolids Engr Services	-												
Biosolids Utilization	-												
Biosolids Processing	-												
NEWPCP	1,601,384												
SWWPCP	4,876,126												
SEWPCP	1,421,454												
Industrial Waste	-												
Sewer Maintenance	-												
Inlet Cleaning	-												
Interceptors/Flow Control	719,723												
GSI Maintenance	-												
Collector System Support	-												
Allocated Costs													
Treatment Headquarters (50/50)	-												
Machine Shops (50/50)	-												
Building Maintenance (50/50)	-												
Security (50/50)	-												
Operations Admin/Delinquencies	-												
Materials Management (50/50)	-												
Customer Service (50/50)	-												
Warranty Program	-												
Meter Shop (50/50)	-												
Automotive Maintenance (35/65)	-												
Total	17,993,083							-	-	-	-	-	-

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Power												**Direct O&M - 9A**
Projected O&M												
Water Direct Costs												
Baxter Treatment Plant							$ -	$ -	$ -	$ -	$ -	$ -
Queen Lane Treatment Plant							-	-	-	-	-	-
Belmont Treatment Plant							-	-	-	-	-	-
Conveyance Headquarters							-	-	-	-	-	-
Load Control							9,284,431	9,284,431	9,284,431	9,423,698	9,565,053	9,708,529
Distribution							89,965	89,965	89,965	91,314	92,684	94,074
Pumping (b)							-	-	-	-	-	-
Emergency & Support Services							-	-	-	-	-	-
Sewer Direct Costs												
Biosolids Engr Services							-	-	-	-	-	-
Biosolids Utilization							-	-	-	-	-	-
Biosolids Processing							-	-	-	-	-	-
NEWPCP							1,601,384	1,601,384	1,601,384	1,625,405	1,649,786	1,674,533
SWWPCP							4,876,126	4,876,126	4,876,126	4,949,268	5,023,507	5,098,860
SEWPCP							1,421,454	1,421,454	1,421,454	1,442,776	1,464,417	1,486,384
Industrial Waste							-	-	-	-	-	-
Sewer Maintenance							-	-	-	-	-	-
Inlet Cleaning							-	-	-	-	-	-
Interceptors/Flow Control							719,723	719,723	719,723	730,519	741,477	752,599
GSI Maintenance							-	-	-	-	-	-
Collector System Support							-	-	-	-	-	-
Allocated Costs												
Treatment Headquarters (50/50)							-	-	-	-	-	-
Machine Shops (50/50)							-	-	-	-	-	-
Building Maintenance (50/50)							-	-	-	-	-	-
Security (50/50)							-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							-	-	-	-	-	-
Materials Management (50/50)							-	-	-	-	-	-
Customer Service (50/50)							-	-	-	-	-	-
Warranty Program							-	-	-	-	-	-
Meter Shop (50/50)							-	-	-	-	-	-
Automotive Maintenance (35/65)							-	-	-	-	-	-
Total							$ 17,993,083	$ 17,993,083	$ 17,993,083	$ 18,262,980	$ 18,536,924	$ 18,814,978

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Power												**Direct O&M - 9A**
Distribution												
Water Direct Costs												
Baxter Treatment Plant							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Queen Lane Treatment Plant							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Belmont Treatment Plant							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Conveyance Headquarters							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Load Control							51.60%	51.60%	51.60%	51.60%	51.60%	51.60%
Distribution							0.50%	0.50%	0.50%	0.50%	0.50%	0.50%
Pumping (b)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Emergency & Support Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Direct Costs												
Biosolids Engr Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Utilization							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Processing							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
NEWPCP							8.90%	8.90%	8.90%	8.90%	8.90%	8.90%
SWWPCP							27.10%	27.10%	27.10%	27.10%	27.10%	27.10%
SEWPCP							7.90%	7.90%	7.90%	7.90%	7.90%	7.90%
Industrial Waste							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Maintenance							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Inlet Cleaning							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Interceptors/Flow Control							4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
GSI Maintenance							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Collector System Support							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Allocated Costs												
Treatment Headquarters (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Machine Shops (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Building Maintenance (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Security (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Materials Management (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Customer Service (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Warranty Program							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meter Shop (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Automotive Maintenance (35/65)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Gas												**Direct O&M - 9B**
Projected O&M Prior to Adjustments												
Water Direct Costs												
Baxter Treatment Plant	0.00%						$ -	$ -	$ -	$ -	$ -	$ -
Queen Lane Treatment Plant	0.00%						-	-	-	-	-	-
Belmont Treatment Plant	0.00%						-	-	-	-	-	-
Conveyance Headquarters	0.00%						-	-	-	-	-	-
Load Control	10.90%						755,808	755,808	755,808	767,145	778,652	790,332
Distribution	2.10%						145,614	145,614	145,614	147,798	150,015	152,265
Pumping (b)	0.00%						-	-	-	-	-	-
Emergency & Support Services	0.00%						-	-	-	-	-	-
Sewer Direct Costs												
Biosolids Engr Services	0.00%						-	-	-	-	-	-
Biosolids Utilization	0.00%						-	-	-	-	-	-
Biosolids Processing	53.40%						3,702,765	3,702,765	3,702,765	3,758,306	3,814,681	3,871,901
NEWPCP	26.70%						1,851,382	1,851,382	1,851,382	1,879,153	1,907,340	1,935,950
SWWPCP	0.00%						-	-	-	-	-	-
SEWPCP	3.80%						263,493	263,493	263,493	267,445	271,457	275,529
Industrial Waste	0.00%						-	-	-	-	-	-
Sewer Maintenance	0.00%						-	-	-	-	-	-
Inlet Cleaning	0.00%						-	-	-	-	-	-
Interceptors/Flow Control	0.00%						-	-	-	-	-	-
GSI Maintenance	0.00%						-	-	-	-	-	-
Collector System Support	1.80%						124,812	124,812	124,812	126,684	128,584	130,513
Allocated Costs												
Treatment Headquarters (50/50)	1.30%						90,142	90,142	90,142	91,494	92,867	94,260
Machine Shops (50/50)	0.00%						-	-	-	-	-	-
Building Maintenance (50/50)	0.00%						-	-	-	-	-	-
Security (50/50)	0.00%						-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)	0.00%						-	-	-	-	-	-
Materials Management (50/50)	0.00%						-	-	-	-	-	-
Customer Service (50/50)	0.00%						-	-	-	-	-	-
Warranty Program	0.00%						-	-	-	-	-	-
Meter Shop (50/50)	0.00%						-	-	-	-	-	-
Automotive Maintenance (35/65)	0.00%						-	-	-	-	-	-
Total	100.00%						$ 6,934,016	$ 6,934,016	$ 6,934,016	$ 7,038,026	$ 7,143,597	$ 7,250,751

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Gas													**Direct O&M - 9B**
Adjustments													
Water Direct Costs													
Baxter Treatment Plant	-												
Queen Lane Treatment Plant	-												
Belmont Treatment Plant	-												
Conveyance Headquarters	-												
Load Control	755,808												
Distribution	145,614												
Pumping (b)	-												
Emergency & Support Services	-												
Sewer Direct Costs													
Biosolids Engr Services	-												
Biosolids Utilization	-												
Biosolids Processing	3,702,765												
NEWPCP	1,851,382												
SWWPCP	-												
SEWPCP	263,493												
Industrial Waste	-												
Sewer Maintenance	-												
Inlet Cleaning	-												
Interceptors/Flow Control	-												
GSI Maintenance	-												
Collector System Support	124,812												
Allocated Costs													
Treatment Headquarters (50/50)	90,142												
Machine Shops (50/50)	-												
Building Maintenance (50/50)	-												
Security (50/50)	-												
Operations Admin/Delinquencies	-												
Materials Management (50/50)	-												
Customer Service (50/50)	-												
Warranty Program	-												
Meter Shop (50/50)	-												
Automotive Maintenance (35/65)	-												
Total	6,934,016							-	-	-	-	-	-

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Gas												**Direct O&M - 9B**
Projected O&M												
Water Direct Costs												
Baxter Treatment Plant							$ -	$ -	$ -	$ -	$ -	$ -
Queen Lane Treatment Plant							-	-	-	-	-	-
Belmont Treatment Plant							-	-	-	-	-	-
Conveyance Headquarters							-	-	-	-	-	-
Load Control							755,808	755,808	755,808	767,145	778,652	790,332
Distribution							145,614	145,614	145,614	147,798	150,015	152,265
Pumping (b)							-	-	-	-	-	-
Emergency & Support Services							-	-	-	-	-	-
Sewer Direct Costs												
Biosolids Engr Services							-	-	-	-	-	-
Biosolids Utilization							-	-	-	-	-	-
Biosolids Processing							3,702,765	3,702,765	3,702,765	3,758,306	3,814,681	3,871,901
NEWPCP							1,851,382	1,851,382	1,851,382	1,879,153	1,907,340	1,935,950
SWWPCP							-	-	-	-	-	-
SEWPCP							263,493	263,493	263,493	267,445	271,457	275,529
Industrial Waste							-	-	-	-	-	-
Sewer Maintenance							-	-	-	-	-	-
Inlet Cleaning							-	-	-	-	-	-
Interceptors/Flow Control							-	-	-	-	-	-
GSI Maintenance							-	-	-	-	-	-
Collector System Support							124,812	124,812	124,812	126,684	128,584	130,513
Allocated Costs												
Treatment Headquarters (50/50)							90,142	90,142	90,142	91,494	92,867	94,260
Machine Shops (50/50)							-	-	-	-	-	-
Building Maintenance (50/50)							-	-	-	-	-	-
Security (50/50)							-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							-	-	-	-	-	-
Materials Management (50/50)							-	-	-	-	-	-
Customer Service (50/50)							-	-	-	-	-	-
Warranty Program							-	-	-	-	-	-
Meter Shop (50/50)							-	-	-	-	-	-
Automotive Maintenance (35/65)							-	-	-	-	-	-
Total							$ 6,934,016	$ 6,934,016	$ 6,934,016	$ 7,038,026	$ 7,143,597	$ 7,250,751

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Gas												**Direct O&M - 9B**
Distribution							Distribution based on Adjusted Costs					
Water Direct Costs												
Baxter Treatment Plant							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Queen Lane Treatment Plant							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Belmont Treatment Plant							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Conveyance Headquarters							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Load Control							10.90%	10.90%	10.90%	10.90%	10.90%	10.90%
Distribution							2.10%	2.10%	2.10%	2.10%	2.10%	2.10%
Pumping (b)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Emergency & Support Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Direct Costs												
Biosolids Engr Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Utilization							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Processing							53.40%	53.40%	53.40%	53.40%	53.40%	53.40%
NEWPCP							26.70%	26.70%	26.70%	26.70%	26.70%	26.70%
SWWPCP							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
SEWPCP							3.80%	3.80%	3.80%	3.80%	3.80%	3.80%
Industrial Waste							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Maintenance							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Inlet Cleaning							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Interceptors/Flow Control							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
GSI Maintenance							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Collector System Support							1.80%	1.80%	1.80%	1.80%	1.80%	1.80%
Allocated Costs												
Treatment Headquarters (50/50)							1.30%	1.30%	1.30%	1.30%	1.30%	1.30%
Machine Shops (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Building Maintenance (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Security (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Materials Management (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Customer Service (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Warranty Program							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meter Shop (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Automotive Maintenance (35/65)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Class 200 Excl. Power and Gas												**Direct O&M - 10**
Projected O&M Prior to Adjustments												
Water Direct Costs												
Baxter Treatment Plant	0.77%						$ 680,813	$ 733,712	$ 782,871	$ 819,588	$ 858,026	$ 898,268
Queen Lane Treatment Plant	1.36%						1,204,580	1,298,176	1,385,154	1,450,117	1,518,128	1,589,328
Belmont Treatment Plant	0.51%						455,007	490,361	523,215	547,754	573,444	600,338
Conveyance Headquarters	0.00%						-	-	-	-	-	-
Load Control	1.88%						1,663,129	1,792,354	1,912,442	2,002,135	2,096,036	2,194,340
Distribution	3.16%						2,803,047	3,020,844	3,223,240	3,374,410	3,532,670	3,698,352
Pumping (b)	0.37%						326,824	352,218	375,817	393,443	411,895	431,213
Emergency & Support Services	0.00%						-	-	-	-	-	-
Sewer Direct Costs												
Biosolids Engr Services	0.00%						-	-	-	-	-	-
Biosolids Utilization	0.00%						-	-	-	-	-	-
Biosolids Processing	24.11%						21,359,016	23,018,612	24,560,859	25,712,763	26,918,692	28,181,179
NEWPCP	14.21%						12,584,001	13,561,778	14,470,417	15,149,080	15,859,572	16,603,386
SWWPCP	3.60%						3,191,841	3,439,847	3,670,317	3,842,455	4,022,666	4,211,329
SEWPCP	2.04%						1,808,993	1,949,552	2,080,172	2,177,732	2,279,867	2,386,793
Industrial Waste	0.13%						111,205	119,846	127,875	133,873	140,151	146,724
Sewer Maintenance	3.34%						2,954,999	3,184,602	3,397,971	3,557,336	3,724,175	3,898,839
Inlet Cleaning	0.06%						49,236	53,062	56,617	59,272	62,052	64,962
Interceptors/Flow Control	5.46%						4,840,605	5,216,720	5,566,240	5,827,297	6,100,597	6,386,715
GSI Maintenance	8.21%						7,269,926	7,834,799	8,359,731	8,751,802	9,162,262	9,591,972
Collector System Support	0.59%						526,314	567,209	605,212	633,596	663,312	694,421
Allocated Costs												
Treatment Headquarters (50/50)	0.21%						188,454	203,097	216,704	226,868	237,508	248,647
Machine Shops (50/50)	0.00%						-	-	-	-	-	-
Building Maintenance (50/50)	0.00%						-	-	-	-	-	-
Security (50/50)	0.00%						-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)	25.07%						22,205,431	23,930,793	25,534,157	26,731,709	27,985,426	29,297,942
Materials Management (50/50)	0.10%						84,889	91,485	97,614	102,192	106,985	112,003
Customer Service (50/50)	4.81%						4,256,353	4,587,072	4,894,406	5,123,953	5,364,267	5,615,851
Warranty Program	0.00%						-	-	-	-	-	-
Meter Shop (50/50)	0.02%						14,431	15,552	16,594	17,373	18,187	19,040
Automotive Maintenance (35/65)	0.00%						-	-	-	-	-	-
Total	100.00%						$ 88,579,096	$ 95,461,692	$ 101,857,625	$ 106,634,748	$ 111,635,917	$ 116,871,642

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Class 200 Excl. Power and Gas													**Direct O&M - 10**
Adjustments													
Water Direct Costs													
Baxter Treatment Plant	680,813												
Queen Lane Treatment Plant	1,204,580												
Belmont Treatment Plant	455,007												
Conveyance Headquarters	-												
Load Control	1,663,129												
Distribution	2,803,047												
Pumping (b)	326,824												
Emergency & Support Services	-												
Sewer Direct Costs													
Biosolids Engr Services	-												
Biosolids Utilization	-												
Biosolids Processing	21,359,016												
NEWPCP	12,584,001												
SWWPCP	3,191,841												
SEWPCP	1,808,993												
Industrial Waste	111,205												
Sewer Maintenance	2,954,999												
Inlet Cleaning	49,236												
Interceptors/Flow Control	4,840,605												
GSI Maintenance	7,269,926												
Collector System Support	526,314												
Allocated Costs													
Treatment Headquarters (50/50)	188,454												
Machine Shops (50/50)	-												
Building Maintenance (50/50)	-												
Security (50/50)	-												
Operations Admin/Delinquencies	22,205,431												
Materials Management (50/50)	84,889												
Customer Service (50/50)	4,256,353												
Warranty Program	-												
Meter Shop (50/50)	14,431												
Automotive Maintenance (35/65)	-												
Total	88,579,094							-	-	-	-	-	-

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Class 200 Excl. Power and Gas												**Direct O&M - 10**
Projected O&M												
Water Direct Costs												
Baxter Treatment Plant							$ 680,813	$ 733,712	$ 782,871	$ 819,588	$ 858,026	$ 898,268
Queen Lane Treatment Plant							1,204,580	1,298,176	1,385,154	1,450,117	1,518,128	1,589,328
Belmont Treatment Plant							455,007	490,361	523,215	547,754	573,444	600,338
Conveyance Headquarters							-	-	-	-	-	-
Load Control							1,663,129	1,792,354	1,912,442	2,002,135	2,096,036	2,194,340
Distribution							2,803,047	3,020,844	3,223,240	3,374,410	3,532,670	3,698,352
Pumping (b)							326,824	352,218	375,817	393,443	411,895	431,213
Emergency & Support Services							-	-	-	-	-	-
Sewer Direct Costs												
Biosolids Engr Services							-	-	-	-	-	-
Biosolids Utilization							-	-	-	-	-	-
Biosolids Processing							21,359,016	23,018,612	24,560,859	25,712,763	26,918,692	28,181,179
NEWPCP							12,584,001	13,561,778	14,470,417	15,149,080	15,859,572	16,603,386
SWWPCP							3,191,841	3,439,847	3,670,317	3,842,455	4,022,666	4,211,329
SEWPCP							1,808,993	1,949,552	2,080,172	2,177,732	2,279,867	2,386,793
Industrial Waste							111,205	119,846	127,875	133,873	140,151	146,724
Sewer Maintenance							2,954,999	3,184,602	3,397,971	3,557,336	3,724,175	3,898,839
Inlet Cleaning							49,236	53,062	56,617	59,272	62,052	64,962
Interceptors/Flow Control							4,840,605	5,216,720	5,566,240	5,827,297	6,100,597	6,386,715
GSI Maintenance							7,269,926	7,834,799	8,359,731	8,751,802	9,162,262	9,591,972
Collector System Support							526,314	567,209	605,212	633,596	663,312	694,421
Allocated Costs												
Treatment Headquarters (50/50)							188,454	203,097	216,704	226,868	237,508	248,647
Machine Shops (50/50)							-	-	-	-	-	-
Building Maintenance (50/50)							-	-	-	-	-	-
Security (50/50)							-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							22,205,431	23,930,793	25,534,157	26,731,709	27,985,426	29,297,942
Materials Management (50/50)							84,889	91,485	97,614	102,192	106,985	112,003
Customer Service (50/50)							4,256,353	4,587,072	4,894,406	5,123,953	5,364,267	5,615,851
Warranty Program							-	-	-	-	-	-
Meter Shop (50/50)							14,431	15,552	16,594	17,373	18,187	19,040
Automotive Maintenance (35/65)							-	-	-	-	-	-
Total							$ 88,579,096	$ 95,461,692	$ 101,857,625	$ 106,634,748	$ 111,635,917	$ 116,871,642

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Class 200 Excl. Power and Gas												**Direct O&M - 10**
Distribution							Distribution based on Adjusted Costs					
Water Direct Costs												
Baxter Treatment Plant							0.77%	0.77%	0.77%	0.77%	0.77%	0.77%
Queen Lane Treatment Plant							1.36%	1.36%	1.36%	1.36%	1.36%	1.36%
Belmont Treatment Plant							0.51%	0.51%	0.51%	0.51%	0.51%	0.51%
Conveyance Headquarters							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Load Control							1.88%	1.88%	1.88%	1.88%	1.88%	1.88%
Distribution							3.16%	3.16%	3.16%	3.16%	3.16%	3.16%
Pumping (b)							0.37%	0.37%	0.37%	0.37%	0.37%	0.37%
Emergency & Support Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Direct Costs												
Biosolids Engr Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Utilization							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Processing							24.11%	24.11%	24.11%	24.11%	24.11%	24.11%
NEWPCP							14.21%	14.21%	14.21%	14.21%	14.21%	14.21%
SWWPCP							3.60%	3.60%	3.60%	3.60%	3.60%	3.60%
SEWPCP							2.04%	2.04%	2.04%	2.04%	2.04%	2.04%
Industrial Waste							0.13%	0.13%	0.13%	0.13%	0.13%	0.13%
Sewer Maintenance							3.34%	3.34%	3.34%	3.34%	3.34%	3.34%
Inlet Cleaning							0.06%	0.06%	0.06%	0.06%	0.06%	0.06%
Interceptors/Flow Control							5.46%	5.46%	5.46%	5.46%	5.46%	5.46%
GSI Maintenance							8.21%	8.21%	8.21%	8.21%	8.21%	8.21%
Collector System Support							0.59%	0.59%	0.59%	0.59%	0.59%	0.59%
Allocated Costs												
Treatment Headquarters (50/50)							0.21%	0.21%	0.21%	0.21%	0.21%	0.21%
Machine Shops (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Building Maintenance (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Security (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							25.07%	25.07%	25.07%	25.07%	25.07%	25.07%
Materials Management (50/50)							0.10%	0.10%	0.10%	0.10%	0.10%	0.10%
Customer Service (50/50)							4.81%	4.81%	4.81%	4.81%	4.81%	4.81%
Warranty Program							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meter Shop (50/50)							0.02%	0.02%	0.02%	0.02%	0.02%	0.02%
Automotive Maintenance (35/65)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Chemicals													**Direct O&M - 11**
Projected O&M Prior to Adjustments								Adjustments					
Water Direct Costs													
Baxter Treatment Plant	1,845,000												
Queen Lane Treatment Plant	1,875,300												
Belmont Treatment Plant	2,443,200												
Conveyance Headquarters	-												
Load Control	-												
Distribution	26,500												
Pumping (b)	3,000												
Emergency & Support Services	-												
Sewer Direct Costs													
Biosolids Engr Services	-												
Biosolids Utilization	-												
Biosolids Processing	-												
NEWPCP	1,473,550												
SWWPCP	743,900												
SEWPCP	670,200												
Industrial Waste	-												
Sewer Maintenance	5,000												
Inlet Cleaning	2,000												
Interceptors/Flow Control	1,526,100												
GSI Maintenance	12,600												
Collector System Support	-												
Allocated Costs													
Treatment Headquarters (50/50)	26,284,480												
Machine Shops (50/50)	-												
Building Maintenance (50/50)	-												
Security (50/50)	-												
Operations Admin/Delinquencies	-												
Materials Management (50/50)	15,000												
Customer Service (50/50)	-												
Warranty Program	-												
Meter Shop (50/50)	-												
Automotive Maintenance (35/65)	-												
Total	36,925,830							-	-	-	-	-	-

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Chemicals												**Direct O&M - 11**
							Distribution based on Adjusted Costs					
Water Direct Costs												
Baxter Treatment Plant							5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Queen Lane Treatment Plant							5.08%	5.08%	5.08%	5.08%	5.08%	5.08%
Belmont Treatment Plant							6.62%	6.62%	6.62%	6.62%	6.62%	6.62%
Conveyance Headquarters							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Load Control							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Distribution							0.07%	0.07%	0.07%	0.07%	0.07%	0.07%
Pumping (b)							0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
Emergency & Support Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Direct Costs												
Biosolids Engr Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Utilization							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Processing							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
NEWPCP							3.99%	3.99%	3.99%	3.99%	3.99%	3.99%
SWWPCP							2.01%	2.01%	2.01%	2.01%	2.01%	2.01%
SEWPCP							1.81%	1.81%	1.81%	1.81%	1.81%	1.81%
Industrial Waste							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Maintenance							0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
Inlet Cleaning							0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
Interceptors/Flow Control							4.13%	4.13%	4.13%	4.13%	4.13%	4.13%
GSI Maintenance							0.03%	0.03%	0.03%	0.03%	0.03%	0.03%
Collector System Support							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Allocated Costs												
Treatment Headquarters (50/50)							71.18%	71.18%	71.18%	71.18%	71.18%	71.18%
Machine Shops (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Building Maintenance (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Security (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Materials Management (50/50)							0.04%	0.04%	0.04%	0.04%	0.04%	0.04%
Customer Service (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Warranty Program							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meter Shop (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Automotive Maintenance (35/65)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Class 300 Excl. Chemicals												**Direct O&M - 12**
Projected O&M Prior to Adjustments												
Water Direct Costs												
Baxter Treatment Plant	5.84%						$ 1,000,813	$ 1,078,576	$ 1,150,841	$ 1,204,815	$ 1,261,321	$ 1,320,477
Queen Lane Treatment Plant	5.08%						869,699	937,275	1,000,072	1,046,975	1,096,079	1,147,485
Belmont Treatment Plant	3.96%						678,070	730,756	779,717	816,285	854,569	894,649
Conveyance Headquarters	0.00%						-	-	-	-	-	-
Load Control	0.84%						144,303	155,515	165,935	173,717	181,865	190,394
Distribution	1.05%						179,991	193,976	206,973	216,680	226,842	237,481
Pumping (b)	2.43%						416,618	448,989	479,072	501,540	525,062	549,688
Emergency & Support Services	0.00%						-	-	-	-	-	-
Sewer Direct Costs												
Biosolids Engr Services	0.00%						-	-	-	-	-	-
Biosolids Utilization	0.00%						-	-	-	-	-	-
Biosolids Processing	0.11%						19,396	20,903	22,304	23,350	24,445	25,591
NEWPCP	10.74%						1,839,479	1,982,407	2,115,228	2,214,432	2,318,289	2,427,017
SWWPCP	6.85%						1,173,046	1,264,192	1,348,893	1,412,156	1,478,386	1,547,722
SEWPCP	6.98%						1,196,321	1,289,275	1,375,657	1,440,175	1,507,719	1,578,431
Industrial Waste	0.43%						74,479	80,266	85,644	89,661	93,866	98,268
Sewer Maintenance	2.33%						399,549	430,594	459,444	480,992	503,550	527,167
Inlet Cleaning	0.50%						85,341	91,972	98,134	102,737	107,555	112,599
Interceptors/Flow Control	5.16%						884,439	953,160	1,017,022	1,064,720	1,114,655	1,166,933
GSI Maintenance	4.84%						828,968	893,379	953,235	997,942	1,044,745	1,093,744
Collector System Support	0.00%						-	-	-	-	-	-
	0.00%						-	-	-	-	-	-
Allocated Costs												
Treatment Headquarters (50/50)	0.05%						8,534	9,197	9,813	10,274	10,755	11,260
Machine Shops (50/50)	0.00%						-	-	-	-	-	-
Building Maintenance (50/50)	0.00%						-	-	-	-	-	-
Security (50/50)	0.00%						-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)	1.29%						220,334	237,454	253,363	265,246	277,686	290,710
Materials Management (50/50)	40.93%						7,011,122	7,555,886	8,062,131	8,440,245	8,836,092	9,250,505
Customer Service (50/50)	0.13%						22,499	24,247	25,872	27,085	28,355	29,685
Warranty Program	0.00%						-	-	-	-	-	-
Meter Shop (50/50)	0.44%						75,255	81,102	86,536	90,595	94,844	99,292
Automotive Maintenance (35/65)	0.00%						-	-	-	-	-	-
Total	100.00%						$ 17,128,256	$ 18,459,122	$ 19,695,883	$ 20,619,620	$ 21,586,680	$ 22,599,096

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Class 300 Excl. Chemicals													**Direct O&M - 12**
Adjustments													
Water Direct Costs													
Baxter Treatment Plant	1,000,813												
Queen Lane Treatment Plant	869,699												
Belmont Treatment Plant	678,070												
Conveyance Headquarters	-												
Load Control	144,303												
Distribution	179,991												
Pumping (b)	416,618												
Emergency & Support Services	-												
Sewer Direct Costs													
Biosolids Engr Services	-												
Biosolids Utilization	-												
Biosolids Processing	19,396												
NEWPCP	1,839,479												
SWWPCP	1,173,046												
SEWPCP	1,196,321												
Industrial Waste	74,479												
Sewer Maintenance	399,549												
Inlet Cleaning	85,341												
Interceptors/Flow Control	884,439												
GSI Maintenance	828,968												
Collector System Support	-												
Allocated Costs													
Treatment Headquarters (50/50)	8,534												
Machine Shops (50/50)	-												
Building Maintenance (50/50)	-												
Security (50/50)	-												
Operations Admin/Delinquencies	220,334												
Materials Management (50/50)	7,011,122												
Customer Service (50/50)	22,499												
Warranty Program	-												
Meter Shop (50/50)	75,255							-	-	-	-	-	-
Automotive Maintenance (35/65)	-												
Total	17,128,256							-	-	-	-	-	-

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Class 300 Excl. Chemicals												**Direct O&M - 12**
Projected O&M												
Water Direct Costs												
Baxter Treatment Plant							$ 1,000,813	$ 1,078,576	$ 1,150,841	$ 1,204,815	$ 1,261,321	$ 1,320,477
Queen Lane Treatment Plant							869,699	937,275	1,000,072	1,046,975	1,096,079	1,147,485
Belmont Treatment Plant							678,070	730,756	779,717	816,285	854,569	894,649
Conveyance Headquarters							-	-	-	-	-	-
Load Control							144,303	155,515	165,935	173,717	181,865	190,394
Distribution							179,991	193,976	206,973	216,680	226,842	237,481
Pumping (b)							416,618	448,989	479,072	501,540	525,062	549,688
Emergency & Support Services							-	-	-	-	-	-
Sewer Direct Costs												
Biosolids Engr Services							-	-	-	-	-	-
Biosolids Utilization							-	-	-	-	-	-
Biosolids Processing							19,396	20,903	22,304	23,350	24,445	25,591
NEWPCP							1,839,479	1,982,407	2,115,228	2,214,432	2,318,289	2,427,017
SWWPCP							1,173,046	1,264,192	1,348,893	1,412,156	1,478,386	1,547,722
SEWPCP							1,196,321	1,289,275	1,375,657	1,440,175	1,507,719	1,578,431
Industrial Waste							74,479	80,266	85,644	89,661	93,866	98,268
Sewer Maintenance							399,549	430,594	459,444	480,992	503,550	527,167
Inlet Cleaning							85,341	91,972	98,134	102,737	107,555	112,599
Interceptors/Flow Control							884,439	953,160	1,017,022	1,064,720	1,114,655	1,166,933
GSI Maintenance							828,968	893,379	953,235	997,942	1,044,745	1,093,744
Collector System Support							-	-	-	-	-	-
							-	-	-	-	-	-
Allocated Costs												
Treatment Headquarters (50/50)							8,534	9,197	9,813	10,274	10,755	11,260
Machine Shops (50/50)							-	-	-	-	-	-
Building Maintenance (50/50)							-	-	-	-	-	-
Security (50/50)							-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							220,334	237,454	253,363	265,246	277,686	290,710
Materials Management (50/50)							7,011,122	7,555,886	8,062,131	8,440,245	8,836,092	9,250,505
Customer Service (50/50)							22,499	24,247	25,872	27,085	28,355	29,685
Warranty Program							-	-	-	-	-	-
Meter Shop (50/50)							75,255	81,102	86,536	90,595	94,844	99,292
Automotive Maintenance (35/65)							-	-	-	-	-	-
Total							$ 17,128,256	$ 18,459,122	$ 19,695,883	$ 20,619,620	$ 21,586,680	$ 22,599,096

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Class 300 Excl. Chemicals												**Direct O&M - 12**
Distribution												
Water Direct Costs												
Baxter Treatment Plant							5.84%	5.84%	5.84%	5.84%	5.84%	5.84%
Queen Lane Treatment Plant							5.08%	5.08%	5.08%	5.08%	5.08%	5.08%
Belmont Treatment Plant							3.96%	3.96%	3.96%	3.96%	3.96%	3.96%
Conveyance Headquarters							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Load Control							0.84%	0.84%	0.84%	0.84%	0.84%	0.84%
Distribution							1.05%	1.05%	1.05%	1.05%	1.05%	1.05%
Pumping (b)							2.43%	2.43%	2.43%	2.43%	2.43%	2.43%
Emergency & Support Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Direct Costs												
Biosolids Engr Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Utilization							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Processing							0.11%	0.11%	0.11%	0.11%	0.11%	0.11%
NEWPCP							10.74%	10.74%	10.74%	10.74%	10.74%	10.74%
SWWPCP							6.85%	6.85%	6.85%	6.85%	6.85%	6.85%
SEWPCP							6.98%	6.98%	6.98%	6.98%	6.98%	6.98%
Industrial Waste							0.43%	0.43%	0.43%	0.43%	0.43%	0.43%
Sewer Maintenance							2.33%	2.33%	2.33%	2.33%	2.33%	2.33%
Inlet Cleaning							0.50%	0.50%	0.50%	0.50%	0.50%	0.50%
Interceptors/Flow Control							5.16%	5.16%	5.16%	5.16%	5.16%	5.16%
GSI Maintenance							4.84%	4.84%	4.84%	4.84%	4.84%	4.84%
Collector System Support							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Allocated Costs												
Treatment Headquarters (50/50)							0.05%	0.05%	0.05%	0.05%	0.05%	0.05%
Machine Shops (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Building Maintenance (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Security (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							1.29%	1.29%	1.29%	1.29%	1.29%	1.29%
Materials Management (50/50)							40.93%	40.93%	40.93%	40.93%	40.93%	40.93%
Customer Service (50/50)							0.13%	0.13%	0.13%	0.13%	0.13%	0.13%
Warranty Program							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meter Shop (50/50)							0.44%	0.44%	0.44%	0.44%	0.44%	0.44%
Automotive Maintenance (35/65)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Class 400												**Direct O&M - 13**
Projected O&M Prior to Adjustments												
Water Direct Costs												
Baxter Treatment Plant	4.72%						$ 144,963	$ 159,633	$ 174,655	$ 186,234	$ 198,582	$ 211,748
Queen Lane Treatment Plant	1.04%						31,918	35,148	38,456	41,005	43,724	46,623
Belmont Treatment Plant	1.41%						43,223	47,597	52,076	55,529	59,210	63,136
Conveyance Headquarters	0.00%						-	-	-	-	-	-
Load Control	2.10%						64,502	71,030	77,714	82,866	88,360	94,218
Distribution	3.18%						97,750	107,642	117,771	125,580	133,906	142,784
Pumping (b)	1.13%						34,578	38,077	41,660	44,422	47,368	50,508
Emergency & Support Services	0.00%						-	-	-	-	-	-
Sewer Direct Costs												
Biosolids Engr Services	0.00%						-	-	-	-	-	-
Biosolids Utilization	0.00%						-	-	-	-	-	-
Biosolids Processing	0.00%						-	-	-	-	-	-
NEWPCP	2.99%						91,766	101,053	110,562	117,892	125,708	134,043
SWWPCP	5.89%						180,871	199,175	217,918	232,365	247,771	264,199
SEWPCP	1.67%						51,203	56,385	61,691	65,781	70,142	74,792
Industrial Waste	0.09%						2,660	2,929	3,205	3,417	3,644	3,885
Sewer Maintenance	1.34%						41,228	45,400	49,672	52,966	56,477	60,222
Inlet Cleaning	0.35%						10,639	11,716	12,818	13,668	14,574	15,540
Interceptors/Flow Control	1.56%						47,878	52,723	57,685	61,509	65,587	69,935
GSI Maintenance	2.31%						70,819	77,986	85,324	90,981	97,013	103,445
Collector System Support	0.00%						-	-	-	-	-	-
Allocated Costs												
Treatment Headquarters (50/50)	0.02%						665	732	801	854	911	971
Machine Shops (50/50)	0.00%						-	-	-	-	-	-
Building Maintenance (50/50)	0.00%						-	-	-	-	-	-
Security (50/50)	0.00%						-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)	69.33%						2,127,899	2,343,243	2,563,742	2,733,718	2,914,964	3,108,226
Materials Management (50/50)	0.65%						19,949	21,968	24,035	25,629	27,328	29,140
Customer Service (50/50)	0.07%						1,995	2,197	2,404	2,563	2,733	2,914
Warranty Program	0.00%						-	-	-	-	-	-
Meter Shop (50/50)	0.15%						4,655	5,126	5,608	5,980	6,377	6,800
Automotive Maintenance (35/65)	0.00%						-	-	-	-	-	-
Total	100.00%						$ 3,069,162	$ 3,379,761	$ 3,697,796	$ 3,942,960	$ 4,204,378	$ 4,483,129

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Class 400													**Direct O&M - 13**
Adjustments													
Water Direct Costs													
Baxter Treatment Plant	144,963												
Queen Lane Treatment Plant	31,918												
Belmont Treatment Plant	43,223												
Conveyance Headquarters	-												
Load Control	64,502												
Distribution	97,750												
Pumping (b)	34,578												
Emergency & Support Services	-												
Sewer Direct Costs													
Biosolids Engr Services	-												
Biosolids Utilization	-												
Biosolids Processing	-												
NEWPCP	91,766												
SWWPCP	180,871												
SEWPCP	51,203												
Industrial Waste	2,660												
Sewer Maintenance	41,228												
Inlet Cleaning	10,639												
Interceptors/Flow Control	47,878												
GSI Maintenance	70,819												
Collector System Support	-												
Allocated Costs													
Treatment Headquarters (50/50)	665												
Machine Shops (50/50)	-												
Building Maintenance (50/50)	-												
Security (50/50)	-												
Operations Admin/Delinquencies	2,127,899												
Materials Management (50/50)	19,949												
Customer Service (50/50)	1,995												
Warranty Program	-												
Meter Shop (50/50)	4,655												
Automotive Maintenance (35/65	-												
Total	3,069,161							-	-	-	-	-	-

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Class 400												**Direct O&M - 13**
Projected O&M												
Water Direct Costs												
Baxter Treatment Plant							$ 144,963	$ 159,633	$ 174,655	$ 186,234	$ 198,582	$ 211,748
Queen Lane Treatment Plant							31,918	35,148	38,456	41,005	43,724	46,623
Belmont Treatment Plant							43,223	47,597	52,076	55,529	59,210	63,136
Conveyance Headquarters							-	-	-	-	-	-
Load Control							64,502	71,030	77,714	82,866	88,360	94,218
Distribution							97,750	107,642	117,771	125,580	133,906	142,784
Pumping (b)							34,578	38,077	41,660	44,422	47,368	50,508
Emergency & Support Services							-	-	-	-	-	-
Sewer Direct Costs												
Biosolids Engr Services							-	-	-	-	-	-
Biosolids Utilization							-	-	-	-	-	-
Biosolids Processing							-	-	-	-	-	-
NEWPCP							91,766	101,053	110,562	117,892	125,708	134,043
SWWPCP							180,871	199,175	217,918	232,365	247,771	264,199
SEWPCP							51,203	56,385	61,691	65,781	70,142	74,792
Industrial Waste							2,660	2,929	3,205	3,417	3,644	3,885
Sewer Maintenance							41,228	45,400	49,672	52,966	56,477	60,222
Inlet Cleaning							10,639	11,716	12,818	13,668	14,574	15,540
Interceptors/Flow Control							47,878	52,723	57,685	61,509	65,587	69,935
GSI Maintenance							70,819	77,986	85,324	90,981	97,013	103,445
Collector System Support							-	-	-	-	-	-
Allocated Costs												
Treatment Headquarters (50/50)							665	732	801	854	911	971
Machine Shops (50/50)							-	-	-	-	-	-
Building Maintenance (50/50)							-	-	-	-	-	-
Security (50/50)							-	-	-	-	-	-
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							2,127,899	2,343,243	2,563,742	2,733,718	2,914,964	3,108,226
Materials Management (50/50)							19,949	21,968	24,035	25,629	27,328	29,140
Customer Service (50/50)							1,995	2,197	2,404	2,563	2,733	2,914
Warranty Program							-	-	-	-	-	-
Meter Shop (50/50)							4,655	5,126	5,608	5,980	6,377	6,800
Automotive Maintenance (35/65)							-	-	-	-	-	-
Total							$ 3,069,162	$ 3,379,761	$ 3,697,796	$ 3,942,960	$ 4,204,378	$ 4,483,129

Cost Center/Expense Class	Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Detailed Allocation of Operations Class 400												**Direct O&M - 13**
Distribution												
Water Direct Costs												
Baxter Treatment Plant							4.72%	4.72%	4.72%	4.72%	4.72%	4.72%
Queen Lane Treatment Plant							1.04%	1.04%	1.04%	1.04%	1.04%	1.04%
Belmont Treatment Plant							1.41%	1.41%	1.41%	1.41%	1.41%	1.41%
Conveyance Headquarters							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Load Control							2.10%	2.10%	2.10%	2.10%	2.10%	2.10%
Distribution							3.18%	3.18%	3.18%	3.18%	3.18%	3.18%
Pumping (b)							1.13%	1.13%	1.13%	1.13%	1.13%	1.13%
Emergency & Support Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Direct Costs												
Biosolids Engr Services							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Utilization							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Biosolids Processing							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
NEWPCP							2.99%	2.99%	2.99%	2.99%	2.99%	2.99%
SWWPCP							5.89%	5.89%	5.89%	5.89%	5.89%	5.89%
SEWPCP							1.67%	1.67%	1.67%	1.67%	1.67%	1.67%
Industrial Waste							0.09%	0.09%	0.09%	0.09%	0.09%	0.09%
Sewer Maintenance							1.34%	1.34%	1.34%	1.34%	1.34%	1.34%
Inlet Cleaning							0.35%	0.35%	0.35%	0.35%	0.35%	0.35%
Interceptors/Flow Control							1.56%	1.56%	1.56%	1.56%	1.56%	1.56%
GSI Maintenance							2.31%	2.31%	2.31%	2.31%	2.31%	2.31%
Collector System Support							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Allocated Costs												
Treatment Headquarters (50/50)							0.02%	0.02%	0.02%	0.02%	0.02%	0.02%
Machine Shops (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Building Maintenance (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Security (50/50)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Operations Admin/Delinquencies/Plumbing. (50/50) (c)							69.33%	69.33%	69.33%	69.33%	69.33%	69.33%
Materials Management (50/50)							0.65%	0.65%	0.65%	0.65%	0.65%	0.65%
Customer Service (50/50)							0.07%	0.07%	0.07%	0.07%	0.07%	0.07%
Warranty Program							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meter Shop (50/50)							0.15%	0.15%	0.15%	0.15%	0.15%	0.15%
Automotive Maintenance (35/65)							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
PWD Projected Direct O&M Budget													Direct O&M - 14
Human Resources and Administration													
100	Salaries & Wages	Labor	$ 9,851,135	$ 9,459,000	$ 9,675,002	$ 10,039,053	$ 10,418,185	$ 13,430,518	$ 13,937,745	$ 14,574,450	$ 15,011,683	$ 15,462,034	$ 15,925,895
200	Services	Other 200	4,374,100	5,650,000	3,083,000	5,238,000	5,243,000	5,411,000	6,585,271	7,026,484	7,356,026	7,701,024	8,062,202
300	Materials and Supplies	Other 300	1,152,218	1,128,000	858,000	1,222,500	1,226,000	1,221,000	1,315,872	1,404,035	1,469,884	1,538,822	1,610,993
400	Equipment	Other 400	556,190	733,000	108,000	676,000	699,000	946,000	1,265,329	1,384,396	1,476,182	1,574,052	1,678,412
500	Indemnities	Indemnities	100,000	100,000	100,000	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-
Subtotal Human Resources and Administration			$ 16,033,643	$ 17,070,000	$ 13,824,002	$ 17,175,553	$ 17,586,185	$ 21,008,518	$ 23,104,217	$ 24,389,365	$ 25,313,775	$ 26,275,932	$ 27,277,501
Finance													
100	Salaries & Wages	Labor	$ 3,051,659	$ 4,916,034	$ 4,675,000	$ 7,672,958	$ 8,029,177	$ 8,308,758	$ 8,578,793	$ 8,836,157	$ 9,101,242	$ 9,374,279	$ 9,655,507
200	Services	Other 200	8,731,808	7,865,000	7,870,000	7,723,500	7,635,974	9,351,000	11,224,573	11,976,619	12,538,323	13,126,370	13,741,997
2xx	SMIP/GARP	Constant	26,900,000	25,000,000	25,000,000	15,000,000	25,000,000	25,000,000	20,000,000	20,000,000	25,000,000	25,000,000	25,000,000
300	Materials and Supplies	Other 300	96,305	65,000	68,000	58,000	58,000	52,000	56,040	59,795	62,599	65,535	68,609
400	Equipment	Other 400	16,800	42,000	42,000	38,000	38,000	1,000	1,101	1,205	1,285	1,370	1,461
500	Indemnities	Indemnities	-	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
800	Transfers	Transfers	11,000,000	11,000,000	11,000,000	12,000,000	7,700,000	7,900,000	8,513,830	9,084,257	9,510,308	9,956,342	10,423,294
Subtotal Finance			$ 49,796,572	$ 48,898,034	$ 48,665,000	$ 42,502,458	$ 48,471,151	$ 50,622,758	$ 48,384,337	$ 49,968,032	$ 56,223,756	$ 57,533,896	$ 58,900,868
Construction and Engineering													
100	Salaries & Wages	Labor	$ 1,848,821	$ 2,855,352	$ 3,716,360	$ 5,164,544	$ 6,488,450	$ 8,196,392	$ 9,313,046	$ 10,798,749	$ 11,854,540	$ 12,963,959	$ 14,129,275
200	Services	Other 200	827,500	1,358,000	1,201,000	1,605,500	1,763,500	1,786,000	3,224,645	3,440,696	3,602,064	3,771,001	3,947,861
300	Materials and Supplies	Other 300	193,420	141,000	116,500	97,000	103,000	110,000	118,547	126,490	132,422	138,633	145,134
400	Equipment	Other 400	61,350	235,000	235,000	206,000	206,000	221,000	243,365	266,266	283,919	302,743	322,815
500	Indemnities	Indemnities	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-
Subtotal Construction and Engineering			$ 2,931,091	$ 4,589,352	$ 5,268,860	$ 7,073,044	$ 8,560,950	$ 10,313,392	$ 12,899,603	$ 14,632,200	$ 15,872,945	$ 17,176,336	$ 18,545,085
Operations													
100	Salaries & Wages	Labor	$ 81,757,426	$ 84,546,676	$ 87,136,263	$ 91,633,042	$ 93,513,321	$ 98,878,657	$ 102,991,117	$ 109,429,432	$ 114,612,947	$ 118,828,955	$ 123,861,978
200	Services	Other 200	69,784,843	80,109,026	92,595,300	100,715,250	98,407,422	104,346,502	114,494,966	122,166,129	127,895,720	133,894,029	140,173,659
220	Power	Energy	16,596,570	19,505,474	17,408,000	18,903,000	18,903,000	21,739,000	23,672,476	23,672,476	24,027,564	24,387,977	24,753,797
221	Gas	Gas	4,527,170	5,469,000	4,685,000	5,124,000	5,380,200	8,614,800	9,930,966	9,930,966	10,079,930	10,231,129	10,384,596
300	Materials and Supplies	Other 300	19,266,793	20,361,000	20,796,766	20,408,000	22,040,500	22,077,500	23,792,922	25,387,048	26,577,700	27,824,194	29,129,149
307	Chemicals	Chemicals	21,872,905	23,141,000	23,378,000	26,171,000	26,171,000	36,925,830	52,678,695	65,226,760	72,682,179	80,989,752	90,246,881
400	Equipment	Other 400	2,916,897	4,813,000	6,885,434	2,363,000	10,254,500	4,615,500	5,581,315	6,106,517	6,511,379	6,943,083	7,403,409
500	Indemnities	Indemnities	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-
Subtotal Operations			$ 216,722,604	$ 237,945,176	$ 252,884,763	$ 265,317,292	$ 274,669,943	$ 297,197,789	$ 333,142,457	$ 361,919,327	$ 382,387,418	$ 403,099,120	$ 425,953,468
Planning & Environmental Services													
100	Salaries & Wages	Labor	$ 14,714,696	$ 14,847,000	$ 16,906,740	$ 17,955,633	$ 21,602,592	$ 22,165,097	$ 23,696,714	$ 25,966,274	$ 27,233,538	$ 28,553,468	$ 29,928,084
200	Services	Other 200	16,989,043	20,259,000	18,142,850	16,160,000	16,654,600	18,318,000	23,111,549	23,640,735	24,749,486	25,910,237	27,125,427
300	Materials and Supplies	Other 300	1,428,850	1,912,000	1,547,200	1,640,000	1,775,000	1,852,000	1,995,900	2,129,626	2,229,505	2,334,069	2,443,537
400	Equipment	Other 400	818,441	938,000	403,000	519,800	543,800	887,000	1,370,529	1,499,496	1,598,912	1,704,920	1,817,957
500	Indemnities	Indemnities	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-
Subtotal Planning & Environmental Services			$ 33,951,030	$ 37,956,000	$ 36,999,790	$ 36,275,433	$ 40,575,992	$ 43,222,097	$ 50,174,693	$ 53,236,131	$ 55,811,442	$ 58,502,695	$ 61,315,004

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
PWD Projected Direct O&M Budget													Direct O&M - 14
Public Affairs													
100	Salaries & Wages	Labor	$ 5,246,556	$ 4,891,060	$ 5,245,060	$ 5,600,810	$ 6,145,116	$ 6,245,368	$ 6,660,589	$ 7,516,248	$ 7,741,736	$ 7,973,988	$ 8,213,207
200	Services	Other 200	8,740,488	8,428,000	7,810,000	6,056,000	6,321,527	7,166,000	7,987,552	8,522,718	8,922,434	9,340,896	9,778,984
300	Materials and Supplies	Other 300	539,124	558,000	384,000	557,000	557,000	557,000	600,279	640,498	670,537	701,985	734,908
400	Equipment	Other 400	15,500	16,000	16,000	9,000	9,000	9,000	9,911	10,843	11,562	12,329	13,146
500	Indemnities	Indemnities	500,000	561,000	505,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-
Subtotal Public Affairs			$ 15,041,668	$ 14,454,060	$ 13,960,060	$ 12,722,810	$ 13,532,643	$ 14,477,368	$ 15,758,331	$ 17,190,307	$ 17,846,268	$ 18,529,197	$ 19,240,246
PWD Operating and Maintenance Expenses Summary													
100	Salaries & Wages		$ 116,470,294	$ 121,515,122	$ 127,354,425	$ 138,066,040	$ 146,196,841	$ 157,224,791	$ 165,178,005	$ 177,121,310	$ 185,555,685	$ 193,156,683	$ 201,713,945
200	Services		109,447,782	123,669,026	130,702,150	137,498,250	136,026,023	146,378,502	166,628,555	176,773,381	185,064,052	193,743,557	202,830,129
220	Power		16,596,570	19,505,474	17,408,000	18,903,000	18,903,000	21,739,000	23,672,476	23,672,476	24,027,564	24,387,977	24,753,797
221	Gas		4,527,170	5,469,000	4,685,000	5,124,000	5,380,200	8,614,800	9,930,966	9,930,966	10,079,930	10,231,129	10,384,596
2xx	SMIP/GARP		26,900,000	25,000,000	25,000,000	15,000,000	25,000,000	25,000,000	20,000,000	20,000,000	25,000,000	25,000,000	25,000,000
300	Materials and Supplies		22,676,710	24,165,000	23,770,466	23,982,500	25,759,500	25,869,500	27,879,560	29,747,491	31,142,648	32,603,238	34,132,330
307	Chemicals		21,872,905	23,141,000	23,378,000	26,171,000	26,171,000	36,925,830	52,678,695	65,226,760	72,682,179	80,989,752	90,246,881
400	Equipment		4,385,178	6,777,000	7,689,434	3,811,800	11,750,300	6,679,500	8,471,550	9,268,723	9,883,239	10,538,498	11,237,200
500	Indemnities		600,000	671,000	615,000	510,000	510,000	510,000	510,000	510,000	510,000	510,000	510,000
800	Transfers		11,000,000	11,000,000	11,000,000	12,000,000	7,700,000	7,900,000	8,513,830	9,084,257	9,510,308	9,956,342	10,423,294
Total PWD Operating and Maintenance Expenses Summary			**$ 334,476,609**	**$ 360,912,622**	**$ 371,602,475**	**$ 381,066,590**	**$ 403,396,864**	**$ 436,841,923**	**$ 483,463,637**	**$ 521,335,363**	**$ 553,455,605**	**$ 581,117,175**	**$ 611,232,172**
CHECK			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Actual / Budget			93.5%	91.3%	91.0%	90.9%	89.1%	90.0%	90.4%	90.6%	90.8%	90.9%	91.0%

FINPLAN23_24.XLS

OTHER DEPT O&M

Index	Description	Table
Other Dept O&M	**Other Department O&M Worksheet**	
Other Dept O&M - 1	Other Department O&M	
Other Dept O&M - 2	Other Department O&M Adjustments	
Other Dept O&M - 3	PWD Adjusted Other Department O&M	Schedule BV-1: Table C-6 Schedule BV-2: Table 2-3
Other Dept O&M - 4	Water System Other Department O&M	Schedule BV-2: Table 3-9
Other Dept O&M - 5	Wastewater System Other Department O&M	Schedule BV-2: Table 6-16
Other Dept O&M - 6	PWD Projected Other Department O&M Budget	
Other Dept O&M - 7	Total PWD Projected O&M (Direct and Other Departments)	Schedule BV-2: Appendix E

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Other Department O&M													Other Dept O&M - 1
Division of Technology													
100	Salaries & Wages	Labor	$ 6,236,674	$ 6,502,251	$ 6,869,622	$ 7,019,427	$ 7,538,568	$ 8,538,551	$ 8,816,054	$ 9,080,535	$ 9,352,951	$ 9,633,540	$ 9,922,546
200	Services	Other 200	13,806,992	15,249,284	15,123,111	15,310,229	15,557,123	17,012,252	18,334,104	19,562,489	20,479,969	21,440,480	22,446,038
300	Materials and Supplies	Other 300	2,025,326	1,967,863	1,535,616	1,301,139	1,233,200	1,087,861	1,172,388	1,250,938	1,309,607	1,371,028	1,435,329
400	Equipment	Other 400	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities	Indemnities	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-
Subtotal Division of Technology			$ 22,068,992	$ 23,719,398	$ 23,528,349	$ 23,630,795	$ 24,328,891	$ 26,638,664	$ 28,322,546	$ 29,893,962	$ 31,142,528	$ 32,445,048	$ 33,803,914
Mayor's Office of Transportation & Utilities and Office of Sustainability													
100	Salaries & Wages	Labor	$ 202,424	$ 202,424	$ 202,433	$ 202,423	$ 85,874	$ 175,014	$ 180,702	$ 186,123	$ 191,707	$ 197,458	$ 203,382
200	Services	Other 200	30,000	30,000	30,000	30,000	47,000	47,000	50,652	54,046	56,580	59,234	62,012
300	Materials and Supplies	Other 300	-	-	-	-	-	-	-	-	-	-	-
400	Equipment	Other 400	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities	Indemnities	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainabi			$ 232,424	$ 232,424	$ 232,433	$ 232,423	$ 132,874	$ 222,014	$ 231,354	$ 240,169	$ 248,287	$ 256,692	$ 265,394
Philadelphia Water, Sewer and Stormwater Rate Board													
100	Salaries & Wages	Labor	$ 22,404	$ 36,897	$ 41,760	$ 42,901	$ 44,899	$ 46,577	$ 48,091	$ 49,533	$ 51,019	$ 52,550	$ 54,126
200	Services	Other 200	462,749	132,615	548,683	30,499	328,591	286,457	308,715	329,399	344,848	361,021	377,953
300	Materials and Supplies	Other 300	-	-	-	-	-	-	-	-	-	-	-
400	Equipment	Other 400	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities	Indemnities	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board			$ 485,153	$ 169,512	$ 590,443	$ 73,400	$ 373,490	$ 333,034	$ 356,805	$ 378,932	$ 395,867	$ 413,571	$ 432,079
Public Property													
100	Salaries & Wages	Labor	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2xx	Services - Property Leases	Property Leases	4,256,817	4,265,847	4,270,347	4,368,565	4,490,292	4,610,413	4,739,044	4,859,415	4,942,997	5,028,017	5,114,499
300	Materials and Supplies	Other 300	-	-	-	-	-	-	-	-	-	-	-
400	Equipment	Other 400	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities	Indemnities	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-
Subtotal Public Property			$ 4,256,817	$ 4,265,847	$ 4,270,347	$ 4,368,565	$ 4,490,292	$ 4,610,413	$ 4,739,044	$ 4,859,415	$ 4,942,997	$ 5,028,017	$ 5,114,499
Fleet Management													
100	Salaries & Wages	Labor	$ 2,891,880	$ 2,909,020	$ 2,940,437	$ 2,589,222	$ 2,741,454	$ 3,073,239	$ 3,173,119	$ 3,268,313	$ 3,366,362	$ 3,467,353	$ 3,571,373
200	Services	Other 200	1,036,762	1,481,230	1,269,896	1,016,231	1,056,539	1,114,222	1,200,797	1,281,250	1,341,341	1,404,250	1,470,109
300	Materials and Supplies	Other 300	3,485,331	3,081,353	3,147,317	3,071,606	3,964,735	3,331,405	3,590,256	3,830,803	4,010,467	4,198,558	4,395,471
400	Equipment	Other 400	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities	Indemnities	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-
Subtotal Fleet Management			$ 7,413,973	$ 7,471,603	$ 7,357,650	$ 6,677,059	$ 7,762,728	$ 7,518,866	$ 7,964,172	$ 8,380,366	$ 8,718,170	$ 9,070,161	$ 9,436,953

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Other Department O&M													Other Dept O&M - 1
City Finance (020)													
100	Salaries & Wages	Labor	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	Other Benefits	56,886,859	54,912,153	57,760,775	58,250,740	63,161,240	71,799,993	74,641,284	78,006,064	81,526,674	85,053,632	88,733,170
191	Pension	Pension	62,666,813	64,686,954	71,612,808	81,201,619	58,970,176	60,972,113	61,091,487	61,191,802	61,593,059	61,801,598	62,010,843
190	Pension Obligations	Pension Obligations	14,290,585	14,170,375	15,686,125	4,514,537	8,541,319	10,990,000	12,415,097	12,415,243	12,415,303	12,512,166	12,512,026
200	Services	Other 200	-	-	-	-	-	-	-	-	-	-	-
300	Materials and Supplies	Other 300	-	-	-	-	-	-	-	-	-	-	-
400	Equipment	Other 400	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities	Indemnities	6,279,219	3,316,246	3,909,860	2,537,590	5,868,696	4,105,382	4,105,382	4,105,382	4,105,382	4,105,382	4,105,382
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-
Subtotal City Finance (020)			$ 140,123,476	$ 137,085,728	$ 148,969,568	$ 146,504,486	$ 136,541,431	$ 147,867,488	$ 152,253,250	$ 155,718,490	$ 159,640,418	$ 163,472,778	$ 167,361,421
City Finance (270)													
100	Salaries & Wages	Labor	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx (270)	Benefits (270)	Other Benefits	-	-	-	-	-	-	-	-	-	-	-
191 (270)	Pension (270)	Pension	-	-	-	-	-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)	Pension Obligations	-	-	-	-	-	-	-	-	-	-	-
200	Services	Other 200	-	-	-	-	-	-	-	-	-	-	-
300	Materials and Supplies	Other 300	-	-	-	-	-	-	-	-	-	-	-
400	Equipment	Other 400	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities	Indemnities	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-
Subtotal City Finance (270)			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Revenue													
100	Salaries & Wages	Labor	$ 9,735,827	$ 9,791,864	$ 10,102,618	$ 9,763,255	$ 9,070,937	$ 9,424,051	$ 9,730,332	$ 10,022,242	$ 10,322,910	$ 10,632,597	$ 10,951,575
200	Services	Other 200	4,834,053	4,858,989	4,959,294	3,395,971	817,369	3,659,431	3,943,769	4,208,001	4,405,357	4,611,968	4,828,269
300	Materials and Supplies	Other 300	898,556	1,164,755	529,102	885,451	940,371	785,888	846,951	903,697	946,080	990,452	1,036,904
400	Equipment	Other 400	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities	Indemnities	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-
Subtotal Revenue			$ 15,468,436	$ 15,815,608	$ 15,591,014	$ 14,044,677	$ 10,828,677	$ 13,869,370	$ 14,521,053	$ 15,133,941	$ 15,674,347	$ 16,235,016	$ 16,816,748
Procurement													
100	Salaries & Wages	Labor	$ 84,412	$ 90,176	$ 72,282	$ 101,275	$ 114,475	$ 98,931	$ 102,146	$ 105,210	$ 108,367	$ 111,618	$ 114,966
200	Services	Other 200	-	-	-	-	-	-	-	-	-	-	-
300	Materials and Supplies	Other 300	-	-	-	-	-	-	-	-	-	-	-
400	Equipment	Other 400	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities	Indemnities	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-
Subtotal Procurement			$ 84,412	$ 90,176	$ 72,282	$ 101,275	$ 114,475	$ 98,931	$ 102,146	$ 105,210	$ 108,367	$ 111,618	$ 114,966
Law													
100	Salaries & Wages	Labor	$ 2,381,984	$ 2,569,445	$ 2,569,445	$ 2,570,334	$ 3,189,335	$ 3,333,067	$ 3,441,392	$ 3,544,633	$ 3,650,972	$ 3,760,502	$ 3,873,317
200	Services	Other 200	471,162	691,440	691,589	691,565	691,536	691,563	745,298	795,233	832,529	871,575	912,452
300	Materials and Supplies	Other 300	25,753	42,404	41,295	26,104	42,950	36,783	39,641	42,297	44,281	46,357	48,532
400	Equipment	Other 400	-	-	-	-	-	-	-	-	-	-	-
500	Indemnities	Indemnities	-	-	-	-	-	-	-	-	-	-	-
800	Transfers	Transfers	-	-	-	-	-	-	-	-	-	-	-
Subtotal Law			$ 2,878,899	$ 3,303,289	$ 3,302,329	$ 3,288,003	$ 3,923,821	$ 4,061,413	$ 4,226,330	$ 4,382,163	$ 4,527,782	$ 4,678,434	$ 4,834,300

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Other Department O&M													Other Dept O&M - 1
Other Department Operating and Maintenance Expenses Summary													
100	Salaries & Wages		$ 21,555,605	$ 22,102,077	$ 22,798,597	$ 22,288,837	$ 22,785,542	$ 24,689,429	$ 25,491,836	$ 26,256,591	$ 27,044,288	$ 27,855,617	$ 28,691,286
1xx	Benefits		56,886,859	54,912,153	57,760,775	58,250,740	63,161,240	71,799,993	74,641,284	78,006,064	81,526,674	85,053,632	88,733,170
191	Pension		62,666,813	64,686,954	71,612,808	81,201,619	58,970,176	60,972,113	61,091,487	61,191,802	61,593,059	61,801,598	62,010,843
190	Pension Obligations		14,290,585	14,170,375	15,686,125	4,514,537	8,541,319	10,990,000	12,415,097	12,415,243	12,415,303	12,512,166	12,512,026
1xx (270)	Benefits (270)		-	-	-	-	-	-	-	-	-	-	-
191 (270)	Pension (270)		-	-	-	-	-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)		-	-	-	-	-	-	-	-	-	-	-
200	Services		20,641,718	22,443,558	22,622,573	20,474,495	18,498,158	22,810,925	24,583,334	26,230,417	27,460,624	28,748,527	30,096,833
220	Power		-	-	-	-	-	-	-	-	-	-	-
221	Gas		-	-	-	-	-	-	-	-	-	-	-
2xx	Services - Property Leases		4,256,817	4,265,847	4,270,347	4,368,565	4,490,292	4,610,413	4,739,044	4,859,415	4,942,997	5,028,017	5,114,499
300	Materials and Supplies		6,434,966	6,256,375	5,253,330	5,284,300	6,181,256	5,241,938	5,649,236	6,027,735	6,310,436	6,606,395	6,916,235
307	Chemicals		-	-	-	-	-	-	-	-	-	-	-
400	Equipment		-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		6,279,219	3,316,246	3,909,860	2,537,590	5,868,696	4,105,382	4,105,382	4,105,382	4,105,382	4,105,382	4,105,382
800	Transfers		-	-	-	-	-	-	-	-	-	-	-
Total Other Department Operating and Maintenance Expenses Summary			**$ 193,012,582**	**$ 192,153,585**	**$ 203,914,415**	**$ 198,920,683**	**$ 188,496,679**	**$ 205,220,193**	**$ 212,716,700**	**$ 219,092,649**	**$ 225,398,764**	**$ 231,711,335**	**$ 238,180,274**
CHECK			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	PWD Direct and Other Department Class 100		**$ 132,309,261**	**$ 137,155,996**	**$ 149,776,460**	**$ 147,364,285**	**$ 158,297,211**	**$ 172,675,168**	**$ 178,287,111**	**$ 183,635,724**	**$ 189,144,796**	**$ 194,819,140**	**$ 200,663,714**
	Pension & Benefits/Class 100 Ratio		**101.2%**	**97.5%**	**96.9%**	**97.7%**	**82.5%**	**83.3%**	**83.1%**	**82.6%**	**82.2%**	**81.8%**	**81.4%**
	Benefits/Class 100 Ratio		**43.0%**	**40.0%**	**38.6%**	**39.5%**	**39.9%**	**41.6%**	**41.9%**	**42.5%**	**43.1%**	**43.7%**	**44.2%**
	Pension/Class 100 Ratio		**47.4%**	**47.2%**	**47.8%**	**55.1%**	**37.3%**	**35.3%**	**34.3%**	**33.3%**	**32.6%**	**31.7%**	**30.9%**
	Pension Obligations/Class 100 Ratio		**10.8%**	**10.3%**	**10.5%**	**3.1%**	**5.4%**	**6.4%**	**7.0%**	**6.8%**	**6.6%**	**6.4%**	**6.2%**
Other Department Operating and Maintenance Expenses Summary - Annual Increase													
100	Salaries & Wages		-3.45%	2.54%	3.15%	-2.24%	2.23%	8.36%	3.25%	3.00%	3.00%	3.00%	3.00%
1xx	Benefits		8.04%	-3.47%	5.19%	0.85%	8.43%	13.68%	3.96%	4.51%	4.51%	4.33%	4.33%
191	Pension		12.81%	3.22%	10.71%	13.39%	-27.38%	3.39%	0.20%	0.16%	0.66%	0.34%	0.34%
190	Pension Obligations		6.95%	-0.84%	10.70%	-71.22%	89.20%	28.67%	12.97%	0.00%	0.00%	0.78%	0.00%
1xx (270)	Benefits (270)		0.00%										
191 (270)	Pension (270)		0.00%										
190 (270)	Pension Obligations (270)		0.00%										
200	Services		7.11%	8.73%	0.80%	-9.50%	-9.65%	23.31%	7.77%	6.70%	4.69%	4.69%	4.69%
220	Power		0.00%										
221	Gas		0.00%										
2xx	Services - Property Leases		5.30%	0.21%	0.11%	2.30%	2.79%	2.68%	2.79%	2.54%	1.72%	1.72%	1.72%
300	Materials and Supplies		8.80%	-2.78%	-16.03%	0.59%	16.97%	-15.20%	7.77%	6.70%	4.69%	4.69%	4.69%
307	Chemicals		0.00%										
400	Equipment		0.00%										
500	Indemnities		-9.68%	-47.19%	17.90%	-35.10%	131.27%	-30.05%	0.00%	0.00%	0.00%	0.00%	0.00%
800	Transfers		0.00%										
Total Other Department Operating and Maintenance Expenses Summary - Annual Increase			7.19%	-0.45%	6.12%	-2.45%	-5.24%	8.87%	3.65%	3.00%	2.88%	2.80%	2.79%

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Other Department O&M													Other Dept O&M - 1
Other Department Operating and Maintenance Expenses Summary - 2 Year Average Increase													
100	Salaries & Wages				2.84%	0.42%	-0.03%	5.25%	5.77%	3.12%	3.00%	3.00%	3.00%
1xx	Benefits				0.77%	3.00%	4.57%	11.02%	8.71%	4.23%	4.51%	4.42%	4.33%
191	Pension				6.90%	12.04%	-9.26%	-13.35%	1.78%	0.18%	0.41%	0.50%	0.34%
190	Pension Obligations				4.77%	-43.56%	-26.21%	56.02%	20.56%	6.29%	0.00%	0.39%	0.39%
1xx (270)	Benefits (270)				0.00%								
191 (270)	Pension (270)				0.00%								
190 (270)	Pension Obligations (270)				0.00%								
200	Services				4.69%	-4.49%	-9.57%	5.55%	15.28%	7.23%	5.69%	4.69%	4.69%
220	Power				0.00%								
221	Gas				0.00%								
2xx	Services - Property Leases				0.16%	1.20%	2.54%	2.73%	2.73%	2.66%	2.13%	1.72%	1.72%
300	Materials and Supplies				-9.65%	-8.10%	8.47%	-0.40%	-4.40%	7.23%	5.69%	4.69%	4.69%
307	Chemicals				0.00%								
400	Equipment				0.00%								
500	Indemnities				-21.09%	-12.52%	22.52%	27.19%	-16.36%	0.00%	0.00%	0.00%	0.00%
800	Transfers				0.00%								
Total Other Department Operating and Maintenance Expenses Summary - 2 Year Average Increase					2.79%	1.75%	-3.85%	1.57%	6.23%	3.32%	2.94%	2.84%	2.80%

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Other Department O&M Adjustments													Other Dept O&M - 2
Division of Technology													
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -
200	Services							-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Division of Technology								$ -	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability													
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -
200	Services							-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainability								$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board													
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -
200	Services							-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board								$ -	$ -	$ -	$ -	$ -	$ -
Public Property													
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -
2xx	Services - Property Leases							-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Public Property								$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management													
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -
200	Services							-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Fleet Management								$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Other Department O&M Adjustments													Other Dept O&M - 2
City Finance													
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits							-	747,000	3,380,000	4,400,000	4,949,000	5,851,000
191	Pension							-	612,000	2,651,000	3,324,000	3,596,000	4,089,000
190	Pension Obligations							-	124,000	538,000	670,000	728,000	825,000
200	Services							-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal City Finance								$ -	$ 1,483,000	$ 6,569,000	$ 8,394,000	$ 9,273,000	$ 10,765,000
City Finance (270)													
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -
1xx (270)	Benefits (270)							-	-	-	-	-	-
191 (270)	Pension (270)							-	-	-	-	-	-
190 (270)	Pension Obligations (270)							-	-	-	-	-	-
200	Services							-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal City Finance (270)								$ -	$ -	$ -	$ -	$ -	$ -
Revenue													
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -
200	Services							-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Revenue								$ -	$ -	$ -	$ -	$ -	$ -
Procurement													
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -
200	Services							-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Procurement								$ -	$ -	$ -	$ -	$ -	$ -
Law													
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -
200	Services							-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Law								$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Other Department O&M Adjustments													Other Dept O&M - 2
Other Department O&M Adjustments Summary													
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits							-	747,000	3,380,000	4,400,000	4,949,000	5,851,000
191	Pension							-	612,000	2,651,000	3,324,000	3,596,000	4,089,000
190	Pension Obligations							-	124,000	538,000	670,000	728,000	825,000
1xx (270)	Benefits (270)							-	-	-	-	-	-
191 (270)	Pension (270)							-	-	-	-	-	-
190 (270)	Pension Obligations (270)							-	-	-	-	-	-
200	Services							-	-	-	-	-	-
220	Power							-	-	-	-	-	-
221	Gas							-	-	-	-	-	-
2xx	Services - Property Leases							-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-
307	Chemicals							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Total Other Department O&M Adjustments Summary								**$ -**	**$ 1,483,000**	**$ 6,569,000**	**$ 8,394,000**	**$ 9,273,000**	**$ 10,765,000**
CHECK								**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
PWD Adjusted Other Department O&M													Other Dept O&M - 3
Division of Technology													
100	Salaries & Wages		$ 6,236,674	$ 6,502,251	$ 6,869,622	$ 7,019,427	$ 7,538,568	$ 8,538,551	$ 8,816,054	$ 9,080,535	$ 9,352,951	$ 9,633,540	$ 9,922,546
200	Services		13,806,992	15,249,284	15,123,111	15,310,229	15,557,123	17,012,252	18,334,104	19,562,489	20,479,969	21,440,480	22,446,038
300	Materials and Supplies		2,025,326	1,967,863	1,535,616	1,301,139	1,233,200	1,087,861	1,172,388	1,250,938	1,309,607	1,371,028	1,435,329
400	Equipment		-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-
Subtotal Division of Technology			$ 22,068,992	$ 23,719,398	$ 23,528,349	$ 23,630,795	$ 24,328,891	$ 26,638,664	$ 28,322,546	$ 29,893,962	$ 31,142,528	$ 32,445,048	$ 33,803,914
Mayor's Office of Transportation & Utilities and Office of Sustainability													
100	Salaries & Wages		$ 202,424	$ 202,424	$ 202,433	$ 202,423	$ 85,874	$ 175,014	$ 180,702	$ 186,123	$ 191,707	$ 197,458	$ 203,382
200	Services		30,000	30,000	30,000	30,000	47,000	47,000	50,652	54,046	56,580	59,234	62,012
300	Materials and Supplies		-	-	-	-	-	-	-	-	-	-	-
400	Equipment		-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainabi			$ 232,424	$ 232,424	$ 232,433	$ 232,423	$ 132,874	$ 222,014	$ 231,354	$ 240,169	$ 248,287	$ 256,692	$ 265,394
Philadelphia Water, Sewer and Stormwater Rate Board													
100	Salaries & Wages		$ 22,404	$ 36,897	$ 41,760	$ 42,901	$ 44,899	$ 46,577	$ 48,091	$ 49,533	$ 51,019	$ 52,550	$ 54,126
200	Services		462,749	132,615	548,683	30,499	328,591	286,457	308,715	329,399	344,848	361,021	377,953
300	Materials and Supplies		-	-	-	-	-	-	-	-	-	-	-
400	Equipment		-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board			$ 485,153	$ 169,512	$ 590,443	$ 73,400	$ 373,490	$ 333,034	$ 356,805	$ 378,932	$ 395,867	$ 413,571	$ 432,079
Public Property													
100	Salaries & Wages		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2xx	Services - Property Leases		4,256,817	4,265,847	4,270,347	4,368,565	4,490,292	4,610,413	4,739,044	4,859,415	4,942,997	5,028,017	5,114,499
300	Materials and Supplies		-	-	-	-	-	-	-	-	-	-	-
400	Equipment		-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-
Subtotal Public Property			$ 4,256,817	$ 4,265,847	$ 4,270,347	$ 4,368,565	$ 4,490,292	$ 4,610,413	$ 4,739,044	$ 4,859,415	$ 4,942,997	$ 5,028,017	$ 5,114,499
Fleet Management													
100	Salaries & Wages		$ 2,891,880	$ 2,909,020	$ 2,940,437	$ 2,589,222	$ 2,741,454	$ 3,073,239	$ 3,173,119	$ 3,268,313	$ 3,366,362	$ 3,467,353	$ 3,571,373
200	Services		1,036,762	1,481,230	1,269,896	1,016,231	1,056,539	1,114,222	1,200,797	1,281,250	1,341,341	1,404,250	1,470,109
300	Materials and Supplies		3,485,331	3,081,353	3,147,317	3,071,606	3,964,735	3,331,405	3,590,256	3,830,803	4,010,467	4,198,558	4,395,471
400	Equipment		-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-
Subtotal Fleet Management			$ 7,413,973	$ 7,471,603	$ 7,357,650	$ 6,677,059	$ 7,762,728	$ 7,518,866	$ 7,964,172	$ 8,380,366	$ 8,718,170	$ 9,070,161	$ 9,436,953

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
PWD Adjusted Other Department O&M													Other Dept O&M - 3
City Finance													
100	Salaries & Wages		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits		56,886,859	54,912,153	57,760,775	58,250,740	63,161,240	71,799,993	75,388,284	81,386,064	85,926,674	90,002,632	94,584,170
191	Pension		62,666,813	64,686,954	71,612,808	81,201,619	58,970,176	60,972,113	61,703,487	63,842,802	64,917,059	65,397,598	66,099,843
190	Pension Obligations		14,290,585	14,170,375	15,686,125	4,514,537	8,541,319	10,990,000	12,539,097	12,953,243	13,085,303	13,240,166	13,337,026
200	Services		-	-	-	-	-	-	-	-	-	-	-
300	Materials and Supplies		-	-	-	-	-	-	-	-	-	-	-
400	Equipment		-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		6,279,219	3,316,246	3,909,860	2,537,590	5,868,696	4,105,382	4,105,382	4,105,382	4,105,382	4,105,382	4,105,382
800	Transfers		-	-	-	-	-	-	-	-	-	-	-
Subtotal City Finance			$ 140,123,476	$ 137,085,728	$ 148,969,568	$ 146,504,486	$ 136,541,431	$ 147,867,488	$ 153,736,250	$ 162,287,490	$ 168,034,418	$ 172,745,778	$ 178,126,421
City Finance (270)													
100	Salaries & Wages		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1xx (270)	Benefits (270)		-	-	-	-	-	-	-	-	-	-	-
191 (270)	Pension (270)		-	-	-	-	-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)		-	-	-	-	-	-	-	-	-	-	-
200	Services		-	-	-	-	-	-	-	-	-	-	-
300	Materials and Supplies		-	-	-	-	-	-	-	-	-	-	-
400	Equipment		-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-
Subtotal City Finance (270)			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Revenue													
100	Salaries & Wages		$ 9,735,827	$ 9,791,864	$ 10,102,618	$ 9,763,255	$ 9,070,937	$ 9,424,051	$ 9,730,332	$ 10,022,242	$ 10,322,910	$ 10,632,597	$ 10,951,575
200	Services		4,834,053	4,858,989	4,959,294	3,395,971	817,369	3,659,431	3,943,769	4,208,001	4,405,357	4,611,968	4,828,269
300	Materials and Supplies		898,556	1,164,755	529,102	885,451	940,371	785,888	846,951	903,697	946,080	990,452	1,036,904
400	Equipment		-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-
Subtotal Revenue			$ 15,468,436	$ 15,815,608	$ 15,591,014	$ 14,044,677	$ 10,828,677	$ 13,869,370	$ 14,521,053	$ 15,133,941	$ 15,674,347	$ 16,235,016	$ 16,816,748
Procurement													
100	Salaries & Wages		$ 84,412	$ 90,176	$ 72,282	$ 101,275	$ 114,475	$ 98,931	$ 102,146	$ 105,210	$ 108,367	$ 111,618	$ 114,966
200	Services		-	-	-	-	-	-	-	-	-	-	-
300	Materials and Supplies		-	-	-	-	-	-	-	-	-	-	-
400	Equipment		-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-
Subtotal Procurement			$ 84,412	$ 90,176	$ 72,282	$ 101,275	$ 114,475	$ 98,931	$ 102,146	$ 105,210	$ 108,367	$ 111,618	$ 114,966
Law													
100	Salaries & Wages		$ 2,381,984	$ 2,569,445	$ 2,569,445	$ 2,570,334	$ 3,189,335	$ 3,333,067	$ 3,441,392	$ 3,544,633	$ 3,650,972	$ 3,760,502	$ 3,873,317
200	Services		471,162	691,440	691,589	691,565	691,536	691,563	745,298	795,233	832,529	871,575	912,452
300	Materials and Supplies		25,753	42,404	41,295	26,104	42,950	36,783	39,641	42,297	44,281	46,357	48,532
400	Equipment		-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		-	-	-	-	-	-	-	-	-	-	-
800	Transfers		-	-	-	-	-	-	-	-	-	-	-
Subtotal Law			$ 2,878,899	$ 3,303,289	$ 3,302,329	$ 3,288,003	$ 3,923,821	$ 4,061,413	$ 4,226,330	$ 4,382,163	$ 4,527,782	$ 4,678,434	$ 4,834,300

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
PWD Adjusted Other Department O&M													Other Dept O&M - 3
Other Department Operating and Maintenance Expenses Summary													
100	Salaries & Wages		$ 21,555,605	$ 22,102,077	$ 22,798,597	$ 22,288,837	$ 22,785,542	$ 24,689,429	$ 25,491,836	$ 26,256,591	$ 27,044,288	$ 27,855,617	$ 28,691,286
1xx	Benefits		56,886,859	54,912,153	57,760,775	58,250,740	63,161,240	71,799,993	75,388,284	81,386,064	85,926,674	90,002,632	94,584,170
191	Pension		62,666,813	64,686,954	71,612,808	81,201,619	58,970,176	60,972,113	61,703,487	63,842,802	64,917,059	65,397,598	66,099,843
190	Pension Obligations		14,290,585	14,170,375	15,686,125	4,514,537	8,541,319	10,990,000	12,539,097	12,953,243	13,085,303	13,240,166	13,337,026
1xx (270)	Benefits (270)		-	-	-	-	-	-	-	-	-	-	-
191 (270)	Pension (270)		-	-	-	-	-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)		-	-	-	-	-	-	-	-	-	-	-
200	Services		20,641,718	22,443,558	22,622,573	20,474,495	18,498,158	22,810,925	24,583,334	26,230,417	27,460,624	28,748,527	30,096,833
220	Power		-	-	-	-	-	-	-	-	-	-	-
221	Gas		-	-	-	-	-	-	-	-	-	-	-
2xx	Services - Property Leases		4,256,817	4,265,847	4,270,347	4,368,565	4,490,292	4,610,413	4,739,044	4,859,415	4,942,997	5,028,017	5,114,499
300	Materials and Supplies		6,434,966	6,256,375	5,253,330	5,284,300	6,181,256	5,241,938	5,649,236	6,027,735	6,310,436	6,606,395	6,916,235
307	Chemicals		-	-	-	-	-	-	-	-	-	-	-
400	Equipment		-	-	-	-	-	-	-	-	-	-	-
500	Indemnities		6,279,219	3,316,246	3,909,860	2,537,590	5,868,696	4,105,382	4,105,382	4,105,382	4,105,382	4,105,382	4,105,382
800	Transfers		-	-	-	-	-	-	-	-	-	-	-
Total Other Department Operating and Maintenance Expenses Summary			**$ 193,012,582**	**$ 192,153,585**	**$ 203,914,415**	**$ 198,920,683**	**$ 188,496,679**	**$ 205,220,193**	**$ 214,199,700**	**$ 225,661,649**	**$ 233,792,764**	**$ 240,984,335**	**$ 248,945,274**
CHECK								**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Direct and Other Department Class 100		**$ 132,309,261**	**$ 137,155,996**	**$ 149,776,460**	**$ 147,364,285**	**$ 158,297,211**	**$ 172,675,168**	**$ 181,130,519**	**$ 193,552,400**	**$ 202,479,707**	**$ 210,588,426**	**$ 219,668,641**
	Pension & Benefits/Class 100 Ratio		**101.2%**	**97.5%**	**96.9%**	**97.7%**	**82.5%**	**83.3%**	**82.6%**	**81.7%**	**81.0%**	**80.1%**	**79.2%**
	Benefits/Class 100 Ratio		**43.0%**	**40.0%**	**38.6%**	**39.5%**	**39.9%**	**41.6%**	**41.6%**	**42.0%**	**42.4%**	**42.7%**	**43.1%**
	Pension/Class 100 Ratio		**47.4%**	**47.2%**	**47.8%**	**55.1%**	**37.3%**	**35.3%**	**34.1%**	**33.0%**	**32.1%**	**31.1%**	**30.1%**
	Pension Obligations/Class 100 Ratio		**10.8%**	**10.3%**	**10.5%**	**3.1%**	**5.4%**	**6.4%**	**6.9%**	**6.7%**	**6.5%**	**6.3%**	**6.1%**
Other Department Operating and Maintenance Expenses Summary - Annual Increase													
100	Salaries & Wages		-3.45%	2.54%	3.15%	-2.24%	2.23%	8.36%	3.25%	3.00%	3.00%	3.00%	3.00%
1xx	Benefits		8.04%	-3.47%	5.19%	0.85%	8.43%	13.68%	5.00%	7.96%	5.58%	4.74%	5.09%
191	Pension		12.81%	3.22%	10.71%	13.39%	-27.38%	3.39%	1.20%	3.47%	1.68%	0.74%	1.07%
190	Pension Obligations		6.95%	-0.84%	10.70%	-71.22%	89.20%	28.67%	14.10%	3.30%	1.02%	1.18%	0.73%
1xx (270)	Benefits (270)		0.00%										
191 (270)	Pension (270)		0.00%										
190 (270)	Pension Obligations (270)		0.00%										
200	Services		7.11%	8.73%	0.80%	-9.50%	-9.65%	23.31%	7.77%	6.70%	4.69%	4.69%	4.69%
220	Power		0.00%										
221	Gas		0.00%										
2xx	Services - Property Leases		5.30%	0.21%	0.11%	2.30%	2.79%	2.68%	2.79%	2.54%	1.72%	1.72%	1.72%
300	Materials and Supplies		8.80%	-2.78%	-16.03%	0.59%	16.97%	-15.20%	7.77%	6.70%	4.69%	4.69%	4.69%
307	Chemicals		0.00%										
400	Equipment		0.00%										
500	Indemnities		-9.68%	-47.19%	17.90%	-35.10%	131.27%	-30.05%	0.00%	0.00%	0.00%	0.00%	0.00%
800	Transfers		0.00%										
Total Other Department Operating and Maintenance Expenses Summary - An			7.19%	-0.45%	6.12%	-2.45%	-5.24%	8.87%	4.38%	5.35%	3.60%	3.08%	3.30%

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water System Other Department O&M													Other Dept O&M - 4
Division of Technology													
100	Salaries & Wages							$ 4,805,175	$ 4,961,343	$ 5,110,183	$ 5,263,489	$ 5,421,394	$ 5,584,035
200	Services							8,315,099	8,961,182	9,561,582	10,010,020	10,479,490	10,970,978
300	Materials and Supplies							612,774	660,386	704,632	737,679	772,276	808,496
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Division of Technology								$ 13,733,048	$ 14,582,911	$ 15,376,397	$ 16,011,188	$ 16,673,160	$ 17,363,509
Mayor's Office of Transportation & Utilities and Office of Sustainability													
100	Salaries & Wages							$ 63,005	$ 65,053	$ 67,004	$ 69,015	$ 71,085	$ 73,218
200	Services							16,920	18,235	19,456	20,369	21,324	22,324
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainability								$ 79,925	$ 83,288	$ 86,460	$ 89,384	$ 92,409	$ 95,542
Philadelphia Water, Sewer and Stormwater Rate Board													
100	Salaries & Wages							$ 16,768	$ 17,313	$ 17,832	$ 18,367	$ 18,918	$ 19,485
200	Services							103,125	111,137	118,584	124,145	129,968	136,063
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board								$ 119,893	$ 128,450	$ 136,416	$ 142,512	$ 148,886	$ 155,548
Public Property													
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -
2xx	Services - Property Leases							1,659,749	1,706,056	1,749,390	1,779,479	1,810,086	1,841,220
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Public Property								$ 1,659,749	$ 1,706,056	$ 1,749,390	$ 1,779,479	$ 1,810,086	$ 1,841,220
Fleet Management													
100	Salaries & Wages							$ 1,106,366	$ 1,142,323	$ 1,176,593	$ 1,211,890	$ 1,248,247	$ 1,285,694
200	Services							401,120	432,287	461,250	482,883	505,530	529,239
300	Materials and Supplies							1,199,306	1,292,492	1,379,089	1,443,768	1,511,481	1,582,369
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Fleet Management								$ 2,706,792	$ 2,867,102	$ 3,016,932	$ 3,138,541	$ 3,265,258	$ 3,397,302

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water System Other Department O&M													Other Dept O&M - 4
City Finance													
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits							29,129,810	30,503,760	32,652,766	34,115,463	35,567,958	37,094,629
191	Pension							24,736,856	24,966,590	25,614,263	25,774,016	25,844,345	25,923,462
190	Pension Obligations							4,458,728	5,073,595	5,196,949	5,195,257	5,232,355	5,230,601
200	Services							-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							1,518,991	1,518,991	1,518,991	1,518,991	1,518,991	1,518,991
800	Transfers							-	-	-	-	-	-
Subtotal City Finance								$ 59,844,385	$ 62,062,936	$ 64,982,969	$ 66,603,727	$ 68,163,649	$ 69,767,683
City Finance (270)													
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -
1xx (270)	Benefits (270)							-	-	-	-	-	-
191 (270)	Pension (270)							-	-	-	-	-	-
190 (270)	Pension Obligations (270)							-	-	-	-	-	-
200	Services							-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal City Finance (270)								$ -	$ -	$ -	$ -	$ -	$ -
Revenue													
100	Salaries & Wages							$ 3,147,633	$ 3,249,931	$ 3,347,429	$ 3,447,852	$ 3,551,287	$ 3,657,826
200	Services							1,222,250	1,317,219	1,405,472	1,471,389	1,540,397	1,612,642
300	Materials and Supplies							262,487	282,882	301,835	315,991	330,811	346,326
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Revenue								$ 4,632,370	$ 4,850,032	$ 5,054,736	$ 5,235,232	$ 5,422,495	$ 5,616,794
Procurement													
100	Salaries & Wages							$ 35,615	$ 36,773	$ 37,876	$ 39,012	$ 40,182	$ 41,388
200	Services							-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Procurement								$ 35,615	$ 36,773	$ 37,876	$ 39,012	$ 40,182	$ 41,388
Law													
100	Salaries & Wages							$ 1,233,235	$ 1,273,315	$ 1,311,514	$ 1,350,860	$ 1,391,386	$ 1,433,127
200	Services							255,878	275,760	294,236	308,036	322,483	337,607
300	Materials and Supplies							13,610	14,667	15,650	16,384	17,152	17,957
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Law								$ 1,502,723	$ 1,563,742	$ 1,621,400	$ 1,675,280	$ 1,731,021	$ 1,788,691

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Water System Other Department O&M													Other Dept O&M - 4
Water System Operating and Maintenance Expenses Summary													
100	Salaries & Wages							$ 10,407,797	$ 10,746,051	$ 11,068,431	$ 11,400,485	$ 11,742,499	$ 12,094,773
1xx	Benefits							29,129,810	30,503,760	32,652,766	34,115,463	35,567,958	37,094,629
191	Pension							24,736,856	24,966,590	25,614,263	25,774,016	25,844,345	25,923,462
190	Pension Obligations							4,458,728	5,073,595	5,196,949	5,195,257	5,232,355	5,230,601
1xx (270)	Benefits (270)							-	-	-	-	-	-
191 (270)	Pension (270)							-	-	-	-	-	-
190 (270)	Pension Obligations (270)							-	-	-	-	-	-
200	Services							10,314,392	11,115,820	11,860,580	12,416,842	12,999,192	13,608,853
220	Power							-	-	-	-	-	-
221	Gas							-	-	-	-	-	-
2xx	Services - Property Leases							1,659,749	1,706,056	1,749,390	1,779,479	1,810,086	1,841,220
300	Materials and Supplies							2,088,177	2,250,427	2,401,206	2,513,822	2,631,720	2,755,148
307	Chemicals							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							1,518,991	1,518,991	1,518,991	1,518,991	1,518,991	1,518,991
800	Transfers							-	-	-	-	-	-
Total Water System Operating and Maintenance Expenses Summary								**$ 84,314,500**	**$ 87,881,290**	**$ 92,062,576**	**$ 94,714,355**	**$ 97,347,146**	**$ 100,067,677**
CHECK								**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Wastewater System Other Department O&M													Other Dept O&M - 5
Division of Technology													
100	Salaries & Wages							$ 3,733,376	$ 3,854,711	$ 3,970,352	$ 4,089,462	$ 4,212,146	$ 4,338,511
200	Services							8,697,153	9,372,922	10,000,907	10,469,949	10,960,990	11,475,060
300	Materials and Supplies							475,087	512,002	546,306	571,928	598,752	626,833
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							0	0	0	0	0	0
Subtotal Division of Technology								$ 12,905,616	$ 13,739,635	$ 14,517,565	$ 15,131,340	$ 15,771,888	$ 16,440,405
										x			
Mayor's Office of Transportation & Utilities and Office of Sustainability													
100	Salaries & Wages							$ 112,009	$ 115,649	$ 119,119	$ 122,692	$ 126,373	$ 130,164
200	Services							30,080	32,417	34,590	36,211	37,910	39,688
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainability								$ 142,089	$ 148,066	$ 153,709	$ 158,903	$ 164,283	$ 169,852
										x			
Philadelphia Water, Sewer and Stormwater Rate Board													
100	Salaries & Wages							$ 29,809	$ 30,778	$ 31,701	$ 32,652	$ 33,632	$ 34,641
200	Services							183,332	197,578	210,815	220,703	231,053	241,890
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board								$ 213,141	$ 228,355	$ 242,516	$ 253,355	$ 264,685	$ 276,531
Public Property													
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -
2xx	Services - Property Leases							2,950,664	3,032,988	3,110,025	3,163,518	3,217,931	3,273,279
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Public Property								$ 2,950,664	$ 3,032,988	$ 3,110,025	$ 3,163,518	$ 3,217,931	$ 3,273,279
										x			
Fleet Management													
100	Salaries & Wages							$ 1,966,873	$ 2,030,796	$ 2,091,720	$ 2,154,472	$ 2,219,106	$ 2,285,679
200	Services							713,102	768,510	820,000	858,458	898,720	940,870
300	Materials and Supplies							2,132,099	2,297,764	2,451,714	2,566,699	2,687,077	2,813,102
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Fleet Management								$ 4,812,074	$ 5,097,070	$ 5,363,434	$ 5,579,629	$ 5,804,903	$ 6,039,651

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Wastewater System Other Department O&M													Other Dept O&M - 5
City Finance													
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits							42,670,183	44,884,524	48,733,298	51,811,211	54,434,674	57,489,541
191	Pension							36,235,257	36,736,897	38,228,539	39,143,043	39,553,253	40,176,381
190	Pension Obligations							6,531,272	7,465,502	7,756,294	7,890,046	8,007,811	8,106,425
200	Services							-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							2,586,391	2,586,391	2,586,391	2,586,391	2,586,391	2,586,391
800	Transfers							-	-	-	-	-	-
Subtotal City Finance								$ 88,023,103	$ 91,673,314	$ 97,304,521	$ 101,430,691	$ 104,582,129	$ 108,358,738
City Finance (270)													
100	Salaries & Wages							$ -	$ -	$ -	$ -	$ -	$ -
1xx (270)	Benefits (270)							-	-	-	-	-	-
191 (270)	Pension (270)							-	-	-	-	-	-
190 (270)	Pension Obligations (270)							-	-	-	-	-	-
200	Services							-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal City Finance (270)								$ -	$ -	$ -	$ -	$ -	$ -
Revenue													
100	Salaries & Wages							$ 6,276,418	$ 6,480,401	$ 6,674,813	$ 6,875,058	$ 7,081,310	$ 7,293,749
200	Services							2,437,181	2,626,550	2,802,529	2,933,968	3,071,571	3,215,627
300	Materials and Supplies							523,401	564,069	601,862	630,089	659,641	690,578
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Revenue								$ 9,237,000	$ 9,671,021	$ 10,079,205	$ 10,439,115	$ 10,812,521	$ 11,199,954
										x			
Procurement													
100	Salaries & Wages							$ 63,316	$ 65,373	$ 67,334	$ 69,355	$ 71,436	$ 73,578
200	Services							-	-	-	-	-	-
300	Materials and Supplies							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Procurement								$ 63,316	$ 65,373	$ 67,334	$ 69,355	$ 71,436	$ 73,578
										x			
Law													
100	Salaries & Wages							$ 2,099,832	$ 2,168,077	$ 2,233,119	$ 2,300,112	$ 2,369,116	$ 2,440,190
200	Services							435,685	469,538	500,997	524,493	549,092	574,845
300	Materials and Supplies							23,173	24,974	26,647	27,897	29,205	30,575
400	Equipment							-	-	-	-	-	-
500	Indemnities							-	-	-	-	-	-
800	Transfers							-	-	-	-	-	-
Subtotal Law								$ 2,558,690	$ 2,662,588	$ 2,760,763	$ 2,852,502	$ 2,947,413	$ 3,045,609

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Wastewater System Other Department O&M													Other Dept O&M - 5
Wastewater System Other Department O&M Summary													
100	Salaries & Wages							$ 14,281,632	$ 14,745,785	$ 15,188,160	$ 15,643,803	$ 16,113,118	$ 16,596,513
1xx	Benefits							42,670,183	44,884,524	48,733,298	51,811,211	54,434,674	57,489,541
191	Pension							36,235,257	36,736,897	38,228,539	39,143,043	39,553,253	40,176,381
190	Pension Obligations							6,531,272	7,465,502	7,756,294	7,890,046	8,007,811	8,106,425
1xx (270)	Benefits (270)							-	-	-	-	-	-
191 (270)	Pension (270)							-	-	-	-	-	-
190 (270)	Pension Obligations (270)							-	-	-	-	-	-
200	Services							12,496,533	13,467,514	14,369,837	15,043,782	15,749,335	16,487,980
220	Power							-	-	-	-	-	-
221	Gas							-	-	-	-	-	-
2xx	Services - Property Leases							2,950,664	3,032,988	3,110,025	3,163,518	3,217,931	3,273,279
300	Materials and Supplies							3,153,761	3,398,809	3,626,529	3,796,614	3,974,675	4,161,087
307	Chemicals							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							2,586,391	2,586,391	2,586,391	2,586,391	2,586,391	2,586,391
800	Transfers							-	-	-	-	-	-
Total Wastewater System Other Department O&M Summary								**$ 120,905,693**	**$ 126,318,410**	**$ 133,599,073**	**$ 139,078,409**	**$ 143,637,189**	**$ 148,877,597**
CHECK								**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
CHECK - Water & Sewer								**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
PWD Projected Other Department O&M Budget													Other Dept O&M - 6
Division of Technology													
100	Salaries & Wages	Labor						$ 10,644,369	$ 10,990,311	$ 11,320,020	$ 11,659,621	$ 12,009,410	$ 12,369,692
200	Services	Other 200						23,049,397	24,840,335	26,504,638	27,747,705	29,049,072	30,411,474
300	Materials and Supplies	Other 300						1,541,613	1,661,396	1,772,710	1,855,850	1,942,889	2,034,011
400	Equipment	Other 400						-	-	-	-	-	-
500	Indemnities	Indemnities						-	-	-	-	-	-
800	Transfers	Transfers						-	-	-	-	-	-
Subtotal Division of Technology								$ 35,235,379	$ 37,492,042	$ 39,597,368	$ 41,263,176	$ 43,001,371	$ 44,815,177
Mayor's Office of Transportation & Utilities and Office of Sustainability													
100	Salaries & Wages	Labor						$ 224,424	$ 231,718	$ 238,669	$ 245,829	$ 253,204	$ 260,800
200	Services	Other 200						47,000	50,652	54,046	56,580	59,234	62,012
300	Materials and Supplies	Other 300						-	-	-	-	-	-
400	Equipment	Other 400						-	-	-	-	-	-
500	Indemnities	Indemnities						-	-	-	-	-	-
800	Transfers	Transfers						-	-	-	-	-	-
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainability								$ 271,424	$ 282,370	$ 292,715	$ 302,410	$ 312,438	$ 322,812
Philadelphia Water, Sewer and Stormwater Rate Board													
100	Salaries & Wages	Labor						$ 47,926	$ 49,484	$ 50,968	$ 52,497	$ 54,072	$ 55,694
200	Services	Other 200						710,200	765,383	816,663	854,965	895,063	937,041
300	Materials and Supplies	Other 300						-	-	-	-	-	-
400	Equipment	Other 400						-	-	-	-	-	-
500	Indemnities	Indemnities						-	-	-	-	-	-
800	Transfers	Transfers						-	-	-	-	-	-
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board								$ 758,126	$ 814,866	$ 867,631	$ 907,462	$ 949,135	$ 992,735
Public Property													
100	Salaries & Wages	Labor						$ -	$ -	$ -	$ -	$ -	$ -
2xx	Services - Property Leases	Property Leases						4,612,169	4,740,849	4,861,266	4,944,880	5,029,932	5,116,447
300	Materials and Supplies	Other 300						-	-	-	-	-	-
400	Equipment	Other 400						-	-	-	-	-	-
500	Indemnities	Indemnities						-	-	-	-	-	-
800	Transfers	Transfers						-	-	-	-	-	-
Subtotal Public Property								$ 4,612,169	$ 4,740,849	$ 4,861,266	$ 4,944,880	$ 5,029,932	$ 5,116,447
Fleet Management													
100	Salaries & Wages	Labor						$ 3,703,717	$ 3,824,088	$ 3,938,810	$ 4,056,975	$ 4,178,684	$ 4,304,045
200	Services	Other 200						1,489,000	1,604,695	1,712,210	1,792,513	1,876,581	1,964,593
300	Materials and Supplies	Other 300						4,044,640	4,358,909	4,650,955	4,869,085	5,097,445	5,336,515
400	Equipment	Other 400						-	-	-	-	-	-
500	Indemnities	Indemnities						-	-	-	-	-	-
800	Transfers	Transfers						-	-	-	-	-	-
Subtotal Fleet Management								$ 9,237,357	$ 9,787,692	$ 10,301,976	$ 10,718,572	$ 11,152,711	$ 11,605,153

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
PWD Projected Other Department O&M Budget													Other Dept O&M - 6
City Finance													
100	Salaries & Wages	Labor						$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	Other Benefits						71,799,993	75,388,284	81,386,064	85,926,674	90,002,632	94,584,170
191	Pension	Pension						60,972,113	61,703,487	63,842,802	64,917,059	65,397,598	66,099,843
190	Pension Obligations	Pension Obligations						10,990,000	12,539,097	12,953,243	13,085,303	13,240,166	13,337,026
200	Services	Other 200						-	-	-	-	-	-
300	Materials and Supplies	Other 300						-	-	-	-	-	-
400	Equipment	Other 400						-	-	-	-	-	-
500	Indemnities	Indemnities						6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000
800	Transfers	Transfers						-	-	-	-	-	-
Subtotal City Finance								$ 149,762,106	$ 155,630,868	$ 164,182,108	$ 169,929,036	$ 174,640,396	$ 180,021,039
City Finance (270)													
100	Salaries & Wages	Labor						$ -	$ -	$ -	$ -	$ -	$ -
1xx (270)	Benefits (270)	Other Benefits						-	-	-	-	-	-
191 (270)	Pension (270)	Pension						-	-	-	-	-	-
190 (270)	Pension Obligations (270)	Pension Obligations						-	-	-	-	-	-
200	Services	Other 200						-	-	-	-	-	-
300	Materials and Supplies	Other 300						-	-	-	-	-	-
400	Equipment	Other 400						-	-	-	-	-	-
500	Indemnities	Indemnities						-	-	-	-	-	-
800	Transfers	Transfers						-	-	-	-	-	-
Subtotal City Finance (270)								$ -	$ -	$ -	$ -	$ -	$ -
Revenue													
100	Salaries & Wages	Labor						$ 10,637,180	$ 10,982,888	$ 11,312,375	$ 11,651,746	$ 12,001,299	$ 12,361,338
200	Services	Other 200						6,181,745	6,662,067	7,108,425	7,441,810	7,790,831	8,156,221
300	Materials and Supplies	Other 300						1,434,500	1,545,961	1,649,540	1,726,903	1,807,895	1,892,685
400	Equipment	Other 400						-	-	-	-	-	-
500	Indemnities	Indemnities						-	-	-	-	-	-
800	Transfers	Transfers						-	-	-	-	-	-
Subtotal Revenue								$ 18,253,425	$ 19,190,916	$ 20,070,340	$ 20,820,460	$ 21,600,025	$ 22,410,244
Procurement													
100	Salaries & Wages	Labor						$ 113,720	$ 117,416	$ 120,938	$ 124,567	$ 128,304	$ 132,153
200	Services	Other 200						-	-	-	-	-	-
300	Materials and Supplies	Other 300						-	-	-	-	-	-
400	Equipment	Other 400						-	-	-	-	-	-
500	Indemnities	Indemnities						-	-	-	-	-	-
800	Transfers	Transfers						-	-	-	-	-	-
Subtotal Procurement								$ 113,720	$ 117,416	$ 120,938	$ 124,567	$ 128,304	$ 132,153
Law													
100	Salaries & Wages	Labor						$ 3,396,095	$ 3,506,468	$ 3,611,662	$ 3,720,012	$ 3,831,612	$ 3,946,561
200	Services	Other 200						691,614	745,352	795,291	832,590	871,639	912,518
300	Materials and Supplies	Other 300						43,010	46,352	49,457	51,777	54,205	56,748
400	Equipment	Other 400						-	-	-	-	-	-
500	Indemnities	Indemnities						-	-	-	-	-	-
800	Transfers	Transfers						-	-	-	-	-	-
Subtotal Law								$ 4,130,719	$ 4,298,172	$ 4,456,411	$ 4,604,379	$ 4,757,456	$ 4,915,827

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
PWD Projected Other Department O&M Budget													Other Dept O&M - 6
Other Department Operating and Maintenance Expenses Summary													
100	Salaries & Wages							$ 28,767,431	$ 29,702,373	$ 30,593,444	$ 31,511,247	$ 32,456,584	$ 33,430,282
1xx	Benefits							71,799,993	75,388,284	81,386,064	85,926,674	90,002,632	94,584,170
191	Pension							60,972,113	61,703,487	63,842,802	64,917,059	65,397,598	66,099,843
190	Pension Obligations							10,990,000	12,539,097	12,953,243	13,085,303	13,240,166	13,337,026
1xx (270)	Benefits (270)							-	-	-	-	-	-
191 (270)	Pension (270)							-	-	-	-	-	-
190 (270)	Pension Obligations (270)							-	-	-	-	-	-
200	Services							32,168,956	34,668,484	36,991,272	38,726,163	40,542,420	42,443,860
220	Power							-	-	-	-	-	-
221	Gas							-	-	-	-	-	-
2xx	Services - Property Leases							4,612,169	4,740,849	4,861,266	4,944,880	5,029,932	5,116,447
300	Materials and Supplies							7,063,763	7,612,617	8,122,663	8,503,616	8,902,435	9,319,959
307	Chemicals							-	-	-	-	-	-
400	Equipment							-	-	-	-	-	-
500	Indemnities							6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000
800	Transfers							-	-	-	-	-	-
Total Other Department Operating and Maintenance Expenses Summary								**$ 222,374,425**	**$ 232,355,191**	**$ 244,750,753**	**$ 253,614,942**	**$ 261,571,767**	**$ 270,331,587**
CHECK								**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Actual/Budget								**92.3%**	**92.2%**	**92.2%**	**92.2%**	**92.1%**	**92.1%**
	Class 100 - Direct & Other Departments							**$ 185,992,222**	**$ 194,880,377**	**$ 207,714,754**	**$ 217,066,932**	**$ 225,613,267**	**$ 235,144,227**
	Pension & Benefits/Class 100 Ratio (Excludes 270 Benefits)							**77.3%**	**76.8%**	**76.2%**	**75.5%**	**74.7%**	**74.0%**

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Total PWD Projected O&M (Direct and Other Departments)													Other Dept O&M - 7
PWD Operating and Maintenance Expenses Summary													
100	Salaries & Wages		$ 132,309,261	$ 137,155,996	$ 149,776,460	$ 147,364,285	$ 158,297,211	$ 172,675,168	$ 181,130,519	$ 193,552,400	$ 202,479,707	$ 210,588,426	$ 219,668,641
1xx	Benefits		56,886,859	54,912,153	57,760,775	58,250,740	63,161,240	71,799,993	75,388,284	81,386,064	85,926,674	90,002,632	94,584,170
191	Pension		62,666,813	64,686,954	71,612,808	81,201,619	58,970,176	60,972,113	61,703,487	63,842,802	64,917,059	65,397,598	66,099,843
190	Pension Obligations		14,290,585	14,170,375	15,686,125	4,514,537	8,541,319	10,990,000	12,539,097	12,953,243	13,085,303	13,240,166	13,337,026
1xx (270)	Benefits (270)		-	-	-	-	-	-	-	-	-	-	-
191 (270)	Pension (270)		-	-	-	-	-	-	-	-	-	-	-
190 (270)	Pension Obligations (270)		-	-	-	-	-	-	-	-	-	-	-
200	Services		125,564,692	138,073,835	136,371,779	137,384,999	141,553,293	150,202,305	170,749,467	181,170,394	189,667,286	198,562,681	207,875,271
220	Power		15,002,114	13,854,363	15,046,774	15,737,655	14,915,470	17,993,083	19,926,560	19,926,560	20,225,458	20,528,840	20,836,773
221	Gas		3,855,757	4,652,000	3,991,800	3,870,000	4,363,923	6,934,016	8,250,182	8,250,182	8,373,934	8,499,544	8,627,037
2xx	Services - Property Leases		4,256,817	4,265,847	4,270,347	4,368,565	4,490,292	4,610,413	4,739,044	4,859,415	4,942,997	5,028,017	5,114,499
2xx	SMIP/GARP		26,900,000	25,000,000	25,000,000	31,932,618	20,125,000	25,000,000	20,000,000	20,000,000	25,000,000	25,000,000	25,000,000
300	Materials and Supplies		25,210,739	25,953,178	25,095,689	23,354,841	24,717,326	25,107,621	27,058,484	28,871,402	30,225,471	31,643,045	33,127,104
307	Chemicals		21,771,176	22,115,310	22,886,203	23,842,156	29,339,822	36,925,830	52,678,695	65,226,760	72,682,179	80,989,752	90,246,881
400	Equipment		3,094,873	4,839,384	5,695,771	2,671,765	6,700,132	4,291,811	5,842,227	6,391,980	6,815,769	7,267,654	7,749,500
500	Indemnities		6,779,219	3,816,246	4,409,860	3,037,590	6,368,696	4,603,721	4,603,721	4,603,721	4,603,721	4,603,721	4,603,721
800	Transfers		7,319,325	8,052,752	4,423,296	7,838,707	6,489,730	6,250,578	6,736,248	7,187,576	7,524,673	7,877,581	8,247,039
Total PWD Operating and Maintenance Expenses Summary			**$ 505,908,230**	**$ 521,548,393**	**$ 542,027,687**	**$ 545,370,077**	**$ 548,033,630**	**$ 598,356,652**	**$ 651,346,014**	**$ 698,222,499**	**$ 736,470,232**	**$ 769,229,656**	**$ 805,117,503**
CHECK			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	Benefit to Salary Ratios (Excludes 270 Benefits)												
	Total Pension & Benefits/Class 100 Ratio		**101.2%**	**97.5%**	**96.9%**	**97.7%**	**82.5%**	**83.3%**	**82.6%**	**81.7%**	**81.0%**	**80.1%**	**79.2%**
	Benefits / Class 100 Ratio		**43.0%**	**40.0%**	**38.6%**	**39.5%**	**39.9%**	**41.6%**	**41.6%**	**42.0%**	**42.4%**	**42.7%**	**43.1%**
	Pension / Class 100 Ratio		**47.4%**	**47.2%**	**47.8%**	**55.1%**	**37.3%**	**35.3%**	**34.1%**	**33.0%**	**32.1%**	**31.1%**	**30.1%**
	Pension Obligation / Class 100 Ratio		**10.8%**	**10.3%**	**10.5%**	**3.1%**	**5.4%**	**6.4%**	**6.9%**	**6.7%**	**6.5%**	**6.3%**	**6.1%**
PWD Operating and Maintenance Expenses Summary - Annual Increase													
100	Salaries & Wages			3.66%	9.20%	-1.61%	7.42%	9.08%	4.90%	6.86%	4.61%	4.00%	4.31%
1xx	Benefits			-3.47%	5.19%	0.85%	8.43%	13.68%	5.00%	7.96%	5.58%	4.74%	5.09%
191	Pension			3.22%	10.71%	13.39%	-27.38%	3.39%	1.20%	3.47%	1.68%	0.74%	1.07%
190	Pension Obligations			-0.84%	10.70%	-71.22%	89.20%	28.67%	14.10%	3.30%	1.02%	1.18%	0.73%
1xx (270)	Benefits (270)												
191 (270)	Pension (270)												
190 (270)	Pension Obligations (270)												
200	Services			9.96%	-1.23%	0.74%	3.03%	6.11%	13.68%	6.10%	4.69%	4.69%	4.69%
220	Power			-7.65%	8.61%	4.59%	-5.22%	20.63%	10.75%	0.00%	1.50%	1.50%	1.50%
221	Gas			20.65%	-14.19%	-3.05%	12.76%	58.89%	18.98%	0.00%	1.50%	1.50%	1.50%
2xx	Services - Property Leases			0.21%	0.11%	2.30%	2.79%	2.68%	2.79%	2.54%	1.72%	1.72%	1.72%
2xx	SMIP/GARP			-7.06%	0.00%	27.73%	-36.98%	24.22%	-20.00%	0.00%	25.00%	0.00%	0.00%
300	Materials and Supplies			2.94%	-3.30%	-6.94%	5.83%	1.58%	7.77%	6.70%	4.69%	4.69%	4.69%
307	Chemicals			1.58%	3.49%	4.18%	23.06%	25.86%	42.66%	23.82%	11.43%	11.43%	11.43%
400	Equipment			56.37%	17.70%	-53.09%	150.78%	-35.94%	36.12%	9.41%	6.63%	6.63%	6.63%
500	Indemnities			-43.71%	15.55%	-31.12%	109.66%	-27.71%	0.00%	0.00%	0.00%	0.00%	0.00%
800	Transfers			10.02%	-45.07%	77.21%	-17.21%	-3.69%	7.77%	6.70%	4.69%	4.69%	4.69%
Total PWD Operating and Maintenance Expenses Summary - Annual Increase				3.09%	3.93%	0.62%	0.49%	9.18%	8.86%	7.20%	5.48%	4.45%	4.67%

Cost Center/Expense Class		Escalation Reference	Historical 2018	2019	2020	2021	2022	Study Period 2023	2024	2025	2026	2027	2028
Total PWD Projected O&M (Direct and Other Departments)													Other Dept O&M - 7
PWD Operating and Maintenance Expenses Summary - 2 Year Average Increase													
100	Salaries & Wages				6.40%	3.65%	2.81%	8.25%	6.97%	5.87%	5.73%	4.31%	4.16%
1xx	Benefits				0.77%	3.00%	4.57%	11.02%	9.25%	6.47%	6.76%	5.16%	4.92%
191	Pension				6.90%	12.04%	-9.26%	-13.35%	2.29%	2.33%	2.57%	1.21%	0.91%
190	Pension Obligations				4.77%	-43.56%	-26.21%	56.02%	21.16%	8.57%	2.15%	1.10%	0.96%
1xx (270)	Benefits (270)												
191 (270)	Pension (270)												
190 (270)	Pension Obligations (270)												
200	Services				4.21%	-0.25%	1.88%	4.56%	9.83%	9.83%	5.39%	4.69%	4.69%
220	Power				0.15%	6.58%	-0.44%	6.93%	15.58%	5.24%	0.75%	1.50%	1.50%
221	Gas				1.75%	-8.79%	4.56%	33.86%	37.50%	9.08%	0.75%	1.50%	1.50%
2xx	Services - Property Leases				0.16%	1.20%	2.54%	2.73%	2.73%	2.66%	2.13%	1.72%	1.72%
2xx	SMIP/GARP				-3.60%	13.02%	-10.28%	-11.52%	-0.31%	-10.56%	11.80%	11.80%	0.00%
300	Materials and Supplies				-0.23%	-5.14%	-0.76%	3.68%	4.63%	7.23%	5.69%	4.69%	4.69%
307	Chemicals				2.53%	3.83%	13.22%	24.45%	34.00%	32.91%	17.46%	11.43%	11.43%
400	Equipment				35.66%	-25.70%	8.46%	26.74%	-6.62%	22.04%	8.01%	6.63%	6.63%
500	Indemnities				-19.35%	-10.78%	20.17%	23.11%	-14.98%	0.00%	0.00%	0.00%	0.00%
800	Transfers				-22.26%	-1.34%	21.13%	-10.70%	1.88%	7.23%	5.69%	4.69%	4.69%
Total PWD Operating and Maintenance Expenses Summary - 2 Year Average Increase					3.51%	2.26%	0.55%	4.75%	9.02%	8.02%	6.33%	4.96%	4.56%

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O&M ADJUSTMENTS

Index	Description	Table
O&M Adjustments	**O&M Adjustments Worksheet**	
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O&M Adjustments - 2	O&M Adj 2 - Direct O&M Adjustments	Schedule BV-2: Table 1-8
O&M Adjustments - 3	O&M Adj 3 - Direct O&M Adjustments	Schedule BV-2: Table 1-8
O&M Adjustments - 4	O&M Adj 4 - Direct O&M Adjustments	Schedule BV-2: Table 1-8
O&M Adjustments - 5	O&M Adj 5 - Direct O&M Adjustments	
O&M Adjustments - 6	O&M Adj 6 - Direct O&M Adjustments	Schedule BV-2: Table 1-8
O&M Adjustments - 7	O&M Adj 7 - Direct O&M Adjustments	Schedule BV-2: Table 1-8
O&M Adjustments - 8	O&M Adj 8 - Direct O&M Adjustments	Schedule BV-2: Table 1-8
O&M Adjustments - 9	O&M Adj 9 - Direct O&M Adjustments	Schedule BV-2: Table 1-8
O&M Adjustments - 10	O&M Adj 10 - Direct O&M Adjustments	
O&M Adjustments - 11	O&M Adj 11 - Direct O&M Adjustments	
O&M Adjustments - 12	O&M Adj 1 - Ohter Dept O&M Adjustments	Schedule BV-2: Table 1-8
O&M Adjustments - 13	O&M Adj 2 - Ohter Dept O&M Adjustments	Schedule BV-2: Table 1-8
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O&M Adjustments - 17	O&M Adj 6 - Ohter Dept O&M Adjustments	Schedule BV-2: Table 1-8
O&M Adjustments - 18	O&M Adj 7 - Ohter Dept O&M Adjustments	Schedule BV-2: Table 1-8
O&M Adjustments - 19	O&M Adj 8 - Ohter Dept O&M Adjustments	Schedule BV-2: Table 1-8
O&M Adjustments - 20	O&M Adj 9 - Ohter Dept O&M Adjustments	Schedule BV-2: Table 1-8
O&M Adjustments - 21	O&M Adj 10 - Ohter Dept O&M Adjustments	
O&M Adjustments - 22	O&M Adj 11 - Ohter Dept O&M Adjustments	

O&M Adjustments:

Include	O&M Adj #	Description
TRUE	1	SMIP/GARP Funding
TRUE	2	Shift Capital Staff Costs to O&M
TRUE	3	Contract Services
TRUE	4	Equipment
FALSE	5	Materials & Supplies
TRUE	6	Additional Regulatory Compliance Staffing (COA)
TRUE	7	XXXXXXXXXXX
TRUE	8	FY 2024 & FY 2025 Additional Staffing Needs
TRUE	9	FY 2024 Additional Energy and Chemical Costs
FALSE	10	XXXXXXXXXXX
FALSE	11	XXXXXXXXXXX

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Direct O&M							
O&M Adj 1	**SMIP/GARP Funding**						**O&M Adjustments - 1**
Human Resources and Administration							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Human Resources and Administration		$ -	$ -	$ -	$ -	$ -	$ -
Finance							
100	Salaries & Wages						
200	Services						
2xx	SMIP/GARP	-	(5,000,000)	(5,000,000)			
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Finance		$ -	$ (5,000,000)	$ (5,000,000)	$ -	$ -	$ -
Construction and Engineering							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Construction and Engineering		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Operations							
100	Salaries & Wages						
200	Services						
220	Power						
221	Gas						
300	Materials and Supplies						
307	Chemicals						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Operations		$ -	$ -	$ -	$ -	$ -	$ -
Planning & Environmental Services							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Planning & Environmental Services		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Public Affairs							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Public Affairs		$ -	$ -	$ -	$ -	$ -	$ -
PWD O&M Adjustment 1 Summary							
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -
200	Services	-	-	-	-	-	-
220	Power	-	-	-	-	-	-
221	Gas	-	-	-	-	-	-
2xx	SMIP/GARP	-	(5,000,000)	(5,000,000)	-	-	-
300	Materials and Supplies	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-
Total PWD O&M Adjustment 1 Summary		**$ -**	**$ (5,000,000)**	**$ (5,000,000)**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
O&M Adj 2	**Shift Capital Staff Costs to O&M**						
Human Resources and Administration							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Human Resources and Administration		$ -	$ -	$ -	$ -	$ -	$ -
Finance							
100	Salaries & Wages						
200	Services						
2xx	SMIP/GARP						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Finance		$ -	$ -	$ -	$ -	$ -	$ -
Construction and Engineering							
100	Salaries & Wages		$ 689,818	$ 1,421,026	$ 2,195,485	$ 3,015,133	$ 3,881,984
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Construction and Engineering		$ -	$ 689,818	$ 1,421,026	$ 2,195,485	$ 3,015,133	$ 3,881,984

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Operations							
100	Salaries & Wages						
200	Services						
220	Power						
221	Gas						
300	Materials and Supplies						
307	Chemicals						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Operations		$ -	$ -	$ -	$ -	$ -	$ -
Planning & Environmental Services							
100	Salaries & Wages		$ 460,247	$ 948,108	$ 1,464,827	$ 2,011,695	$ 2,590,057
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Planning & Environmental Services		$ -	$ 460,247	$ 948,108	$ 1,464,827	$ 2,011,695	$ 2,590,057

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Public Affairs							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Public Affairs		$ -	$ -	$ -	$ -	$ -	$ -
PWD O&M Adjustment 2 Summary							
100	Salaries & Wages	$ -	$ 1,150,065	$ 2,369,134	$ 3,660,311	$ 5,026,828	$ 6,472,041
200	Services	-	-	-	-	-	-
220	Power	-	-	-	-	-	-
2xx	SMIP/GARP	-	-	-	-	-	-
221	Gas	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-
Total PWD O&M Adjustment 2 Summary		**$ -**	**$ 1,150,065**	**$ 2,369,134**	**$ 3,660,311**	**$ 5,026,828**	**$ 6,472,041**

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
O&M Adj 3	**Contract Services**						**O&M Adjustments - 3**
Human Resources and Administration							
100	Salaries & Wages						
200	Services		753,836	804,343	842,067	881,560	922,905
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Human Resources and Administration		$ -	$ 753,836	$ 804,343	$ 842,067	$ 881,560	$ 922,905
Finance							
100	Salaries & Wages						
200	Services		1,147,000	1,223,849	1,281,248	1,341,338	1,404,247
2xx	SMIP/GARP						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Finance		$ -	$ 1,147,000	$ 1,223,849	$ 1,281,248	$ 1,341,338	$ 1,404,247
Construction and Engineering							
100	Salaries & Wages						
200	Services		1,299,872	1,386,964	1,452,013	1,520,112	1,591,405
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Construction and Engineering		$ -	$ 1,299,872	$ 1,386,964	$ 1,452,013	$ 1,520,112	$ 1,591,405

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Operations							
100	Salaries & Wages						
200	Services		2,040,741	2,177,470	2,279,594	2,386,507	2,498,434
220	Power						
221	Gas						
300	Materials and Supplies						
307	Chemicals						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Operations		$ -	$ 2,040,741	$ 2,177,470	$ 2,279,594	$ 2,386,507	$ 2,498,434
Planning & Environmental Services							
100	Salaries & Wages						
200	Services		3,370,241	2,576,759	2,697,609	2,824,127	2,956,579
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Planning & Environmental Services		$ -	$ 3,370,241	$ 2,576,759	$ 2,697,609	$ 2,824,127	$ 2,956,579

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Public Affairs							
100	Salaries & Wages						
200	Services		264,754	282,492	295,741	309,612	324,132
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Public Affairs		$ -	$ 264,754	$ 282,492	$ 295,741	$ 309,612	$ 324,132
PWD O&M Adjustment 3 Summary							
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -
200	Services	-	8,876,444	8,451,878	8,848,271	9,263,255	9,697,701
220	Power	-	-	-	-	-	-
221	Gas	-	-	-	-	-	-
2xx	SMIP/GARP	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-
Total PWD O&M Adjustment 3 Summary		**$ -**	**$ 8,876,444**	**$ 8,451,878**	**$ 8,848,271**	**$ 9,263,255**	**$ 9,697,701**

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
O&M Adj 4	**Equipment**						**O&M Adjustments - 4**
Human Resources and Administration							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment		223,593	244,634	260,853	278,147	296,589
500	Indemnities						
800	Transfers						
Subtotal Human Resources and Administration		$ -	$ 223,593	$ 244,634	$ 260,853	$ 278,147	$ 296,589
Finance							
100	Salaries & Wages						
200	Services						
2xx	SMIP/GARP						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Finance		$ -	$ -	$ -	$ -	$ -	$ -
Construction and Engineering							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Construction and Engineering		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Operations							
100	Salaries & Wages						
200	Services						
220	Power						
221	Gas						
300	Materials and Supplies						
307	Chemicals						
400	Equipment		498,726	545,656	581,833	620,409	661,542
500	Indemnities						
800	Transfers						
Subtotal Operations		$ -	$ 498,726	$ 545,656	$ 581,833	$ 620,409	$ 661,542
Planning & Environmental Services							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment		393,765	430,818	459,381	489,838	522,314
500	Indemnities						
800	Transfers						
Subtotal Planning & Environmental Services		$ -	$ 393,765	$ 430,818	$ 459,381	$ 489,838	$ 522,314

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Public Affairs							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Public Affairs		$ -	$ -	$ -	$ -	$ -	$ -
PWD O&M Adjustment 4 Summary							
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -
200	Services	-	-	-	-	-	-
220	Power	-	-	-	-	-	-
221	Gas	-	-	-	-	-	-
2xx	SMIP/GARP	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-
400	Equipment	-	1,116,084	1,221,108	1,302,068	1,388,395	1,480,445
500	Indemnities	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-
Total PWD O&M Adjustment 4 Summary		**$ -**	**$ 1,116,084**	**$ 1,221,108**	**$ 1,302,068**	**$ 1,388,395**	**$ 1,480,445**

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
O&M Adj 5	**Materials & Supplies**						**O&M Adjustments - 5**
Human Resources and Administration							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Human Resources and Administration		$ -	$ -	$ -	$ -	$ -	$ -
Finance							
100	Salaries & Wages						
200	Services						
2xx	SMIP/GARP						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Finance		$ -	$ -	$ -	$ -	$ -	$ -
Construction and Engineering							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Construction and Engineering		$ -	$ -	$ -	$ -	$ -	$ -

ADJUSTMENT 5 NOT IN USE

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Operations							
100	Salaries & Wages						
200	Services						
220	Power						
221	Gas						
300	Materials and Supplies		$ 601,264	$ 641,548	$ 671,637	$ 703,137	$ 736,114
307	Chemicals						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Operations		$ -	$ 601,264	$ 641,548	$ 671,637	$ 703,137	$ 736,114
Planning & Environmental Services							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Planning & Environmental Services		$ -	$ -	$ -	$ -	$ -	$ -

ADJUSTMENT 5 NOT IN USE

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Public Affairs							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Public Affairs		$ -	$ -	$ -	$ -	$ -	$ -
PWD O&M Adjustment 5 Summary							
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -
200	Services	-	-	-	-	-	-
220	Power	-	-	-	-	-	-
221	Gas	-	-	-	-	-	-
2xx	SMIP/GARP	-	-	-	-	-	-
300	Materials and Supplies	-	601,264	641,548	671,637	703,137	736,114
307	Chemicals	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-
Total PWD O&M Adjustment 5 Summary		**$ -**	**$ 601,264**	**$ 641,548**	**$ 671,637**	**$ 703,137**	**$ 736,114**

ADJUSTMENT 5 NOT IN USE

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
O&M Adj 6	**Additional Regulatory Compliance Staffing (COA)**						**O&M Adjustments - 6**
Human Resources and Administration							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Human Resources and Administration		$ -	$ -	$ -	$ -	$ -	$ -
Finance							
100	Salaries & Wages						
200	Services						
2xx	SMIP/GARP						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Finance		$ -	$ -	$ -	$ -	$ -	$ -
Construction and Engineering							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Construction and Engineering		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Operations							
100	Salaries & Wages				136,334	918,044	2,413,739
200	Services						
220	Power						
221	Gas						
300	Materials and Supplies						
307	Chemicals						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Operations		$ -	$ -	$ -	$ 136,334	$ 918,044	$ 2,413,739
Planning & Environmental Services							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Planning & Environmental Services		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Public Affairs							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Public Affairs		$ -	$ -	$ -	$ -	$ -	$ -
PWD O&M Adjustment 6 Summary							
100	Salaries & Wages	$ -	$ -	$ -	$ 136,334	$ 918,044	$ 2,413,739
200	Services	-	-	-	-	-	-
220	Power	-	-	-	-	-	-
2xx	SMIP/GARP	-	-	-	-	-	-
221	Gas	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-
Total PWD O&M Adjustment 6 Summary		**$ -**	**$ -**	**$ -**	**$ 136,334**	**$ 918,044**	**$ 2,413,739**

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
O&M Adj 7	**XXXXXXXXXXX**						**O&M Adjustments - 7**
Human Resources and Administration							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Human Resources and Administration		$ -	$ -	$ -	$ -	$ -	$ -
Finance							
100	Salaries & Wages						
200	Services						
2xx	SMIP/GARP						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Finance		$ -	$ -	$ -	$ -	$ -	$ -
Construction and Engineering							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Construction and Engineering		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Operations							
100	Salaries & Wages						
200	Services						
220	Power						
221	Gas						
300	Materials and Supplies						
307	Chemicals						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Operations		$ -	$ -	$ -	$ -	$ -	$ -
Planning & Environmental Services							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Planning & Environmental Services		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Public Affairs							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Public Affairs		$ -	$ -	$ -	$ -	$ -	$ -
PWD O&M Adjustment 7 Summary							
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -
200	Services	-	-	-	-	-	-
220	Power	-	-	-	-	-	-
221	Gas	-	-	-	-	-	-
2xx	SMIP/GARP	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-
Total PWD O&M Adjustment 7 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
O&M Adj 8	**FY 2024 & FY 2025 Additional Staffing Needs**						**O&M Adjustments - 8**
Human Resources and Administration							
100	Salaries & Wages		$ 70,736	$ 291,430	$ 300,173	$ 309,178	$ 318,453
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Human Resources and Administration		$ -	$ 70,736	$ 291,430	$ 300,173	$ 309,178	$ 318,453
Finance							
100	Salaries & Wages						
200	Services						
2xx	SMIP/GARP						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Finance		$ -	$ -	$ -	$ -	$ -	$ -
Construction and Engineering							
100	Salaries & Wages		$ 160,453	$ 661,065	$ 680,897	$ 701,324	$ 722,363
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Construction and Engineering		$ -	$ 160,453	$ 661,065	$ 680,897	$ 701,324	$ 722,363

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Operations							
100	Salaries & Wages		$ 898,904	$ 4,274,452	$ 6,166,983	$ 6,351,993	$ 6,542,553
200	Services						
220	Power						
221	Gas						
300	Materials and Supplies						
307	Chemicals						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Operations		$ -	$ 898,904	$ 4,274,452	$ 6,166,983	$ 6,351,993	$ 6,542,553
Planning & Environmental Services							
100	Salaries & Wages		$ 351,005	$ 1,446,140	$ 1,489,524	$ 1,534,210	$ 1,580,236
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Planning & Environmental Services		$ -	$ 351,005	$ 1,446,140	$ 1,489,524	$ 1,534,210	$ 1,580,236

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Public Affairs							
100	Salaries & Wages		$ 212,246	$ 874,455	$ 900,689	$ 927,709	$ 955,541
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Public Affairs		$ -	$ 212,246	$ 874,455	$ 900,689	$ 927,709	$ 955,541
PWD O&M Adjustment 8 Summary							
100	Salaries & Wages	$ -	$ 1,693,343	$ 7,547,542	$ 9,538,266	$ 9,824,414	$ 10,119,146
200	Services	-	-	-	-	-	-
220	Power	-	-	-	-	-	-
221	Gas	-	-	-	-	-	-
2xx	SMIP/GARP	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-
Total PWD O&M Adjustment 8 Summary		**$ -**	**$ 1,693,343**	**$ 7,547,542**	**$ 9,538,266**	**$ 9,824,414**	**$ 10,119,146**

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
O&M Adj 9	**FY 2024 Additional Energy and Chemical Costs**						**O&M Adjustments - 9**
Human Resources and Administration							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Human Resources and Administration		$ -	$ -	$ -	$ -	$ -	$ -
Finance							
100	Salaries & Wages						
200	Services						
2xx	SMIP/GARP						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Finance		$ -	$ -	$ -	$ -	$ -	$ -
Construction and Engineering							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Construction and Engineering		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Operations							
100	Salaries & Wages						
200	Services						
220	Power		1,933,476	1,933,476	1,962,479	1,991,916	2,021,794
221	Gas		1,316,166	1,316,166	1,335,908	1,355,947	1,376,286
300	Materials and Supplies						
307	Chemicals		15,752,865	19,505,197	21,734,642	24,218,911	26,987,133
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Operations		$ -	$ 19,002,507	$ 22,754,839	$ 25,033,028	$ 27,566,773	$ 30,385,213
Planning & Environmental Services							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Planning & Environmental Services		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Public Affairs							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Public Affairs		$ -	$ -	$ -	$ -	$ -	$ -
PWD O&M Adjustment 9 Summary							
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -
200	Services	-	-	-	-	-	-
220	Power	-	1,933,476	1,933,476	1,962,479	1,991,916	2,021,794
221	Gas	-	1,316,166	1,316,166	1,335,908	1,355,947	1,376,286
2xx	SMIP/GARP	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-
307	Chemicals	-	15,752,865	19,505,197	21,734,642	24,218,911	26,987,133
400	Equipment	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-
Total PWD O&M Adjustment 9 Summary		**$ -**	**$ 19,002,507**	**$ 22,754,839**	**$ 25,033,028**	**$ 27,566,773**	**$ 30,385,213**

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
O&M Adj 10	**XXXXXXXXXXX**						**O&M Adjustments - 10**
Human Resources and Administration							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Human Resources and Administration		$ -	$ -	$ -	$ -	$ -	$ -
Finance							
100	Salaries & Wages						
200	Services						
2xx	SMIP/GARP						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Finance		$ -	$ -	$ -	$ -	$ -	$ -
Construction and Engineering							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Construction and Engineering		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Operations							
100	Salaries & Wages						
200	Services						
220	Power						
221	Gas						
300	Materials and Supplies						
307	Chemicals						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Operations		$ -	$ -	$ -	$ -	$ -	$ -
Planning & Environmental Services							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Planning & Environmental Services		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Public Affairs							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Public Affairs		$ -	$ -	$ -	$ -	$ -	$ -
PWD O&M Adjustment 10 Summary							
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -
200	Services	-	-	-	-	-	-
220	Power	-	-	-	-	-	-
221	Gas	-	-	-	-	-	-
2xx	SMIP/GARP	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-
Total PWD O&M Adjustment 10 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
O&M Adj 11	**XXXXXXXXXXX**						**O&M Adjustments - 11**
Human Resources and Administration							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Human Resources and Administration		$ -	$ -	$ -	$ -	$ -	$ -
Finance							
100	Salaries & Wages						
200	Services						
2xx	SMIP/GARP						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Finance		$ -	$ -	$ -	$ -	$ -	$ -
Construction and Engineering							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Construction and Engineering		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Operations							
100	Salaries & Wages						
200	Services						
220	Power						
221	Gas						
300	Materials and Supplies						
307	Chemicals						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Operations		$ -	$ -	$ -	$ -	$ -	$ -
Planning & Environmental Services							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Planning & Environmental Services		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Public Affairs							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Public Affairs		$ -	$ -	$ -	$ -	$ -	$ -
PWD O&M Adjustment 11 Summary							
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -
200	Services	-	-	-	-	-	-
220	Power	-	-	-	-	-	-
221	Gas	-	-	-	-	-	-
2xx	SMIP/GARP	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-
Total PWD O&M Adjustment 11 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Total Adjustments		$ -	$ 27,439,707	$ 37,986,049	$ 49,189,915	$ 54,690,846	$ 61,304,400

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Other Department O&M							
O&M Adj 1	**SMIP/GARP Funding**						**O&M Adjustments - 12**
Division of Technology							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Division of Technology		$ -	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainal		$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Public Property							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Public Property		$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Fleet Management		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
City Finance							
100	Salaries & Wages						
1xx	Benefits						
191	Pension						
190	Pension Obligations						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal City Finance		$ -	$ -	$ -	$ -	$ -	$ -
City Finance (270)							
100	Salaries & Wages						
1xx (270)	Benefits (270)						
191 (270)	Pension (270)						
190 (270)	Pension Obligations (270)						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal City Finance (270)		$ -	$ -	$ -	$ -	$ -	$ -
Revenue							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Revenue		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Procurement							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Procurement		$ -	$ -	$ -	$ -	$ -	$ -
Law							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Law		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Other Department O&M Adjustment 11 Summary							
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	-	-	-	-	-	-
191	Pension	-	-	-	-	-	-
190	Pension Obligations	-	-	-	-	-	-
1xx (270)	Benefits (270)	-	-	-	-	-	-
191 (270)	Pension (270)	-	-	-	-	-	-
190 (270)	Pension Obligations (270)	-	-	-	-	-	-
200	Services	-	-	-	-	-	-
220	Power	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-
Total Other Department O&M Adjustment 11 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
O&M Adj 2	**Shift Capital Staff Costs to O&M**						**O&M Adjustments - 13**
Division of Technology							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Division of Technology		$ -	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainal		$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Public Property							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Public Property		$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Fleet Management		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
City Finance							
100	Salaries & Wages						
1xx	Benefits						
191	Pension						
190	Pension Obligations						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal City Finance		$ -	$ -	$ -	$ -	$ -	$ -
City Finance (270)							
100	Salaries & Wages						
1xx (270)	Benefits (270)						
191 (270)	Pension (270)						
190 (270)	Pension Obligations (270)						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal City Finance (270)		$ -	$ -	$ -	$ -	$ -	$ -
Revenue							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Revenue		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Procurement							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Procurement		$ -	$ -	$ -	$ -	$ -	$ -
Law							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Law		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Other Department O&M Adjustment 2 Summary							
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	-	-	-	-	-	-
191	Pension	-	-	-	-	-	-
190	Pension Obligations	-	-	-	-	-	-
1xx (270)	Benefits (270)	-	-	-	-	-	-
191 (270)	Pension (270)	-	-	-	-	-	-
190 (270)	Pension Obligations (270)	-	-	-	-	-	-
200	Services	-	-	-	-	-	-
220	Power	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-
Total Other Department O&M Adjustment 2 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
O&M Adj 3	**Contract Services**						**O&M Adjustments - 14**
Division of Technology							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Division of Technology		$ -	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainal		$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Public Property							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Public Property		$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Fleet Management		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
City Finance							
100	Salaries & Wages						
1xx	Benefits						
191	Pension						
190	Pension Obligations						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal City Finance		$ -	$ -	$ -	$ -	$ -	$ -
City Finance (270)							
100	Salaries & Wages						
1xx (270)	Benefits (270)						
191 (270)	Pension (270)						
190 (270)	Pension Obligations (270)						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal City Finance (270)		$ -	$ -	$ -	$ -	$ -	$ -
Revenue							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Revenue		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Procurement							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Procurement		$ -	$ -	$ -	$ -	$ -	$ -
Law							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Law		$ -	$ -	$ -	$ -	$ -	$ -
Other Department O&M Adjustment 3 Summary							
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	-	-	-	-	-	-
191	Pension	-	-	-	-	-	-
190	Pension Obligations	-	-	-	-	-	-
1xx (270)	Services	-	-	-	-	-	-
191 (270)	Power	-	-	-	-	-	-
190 (270)	Materials and Supplies	-	-	-	-	-	-
200	Services	-	-	-	-	-	-
220	Power	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-
Total Other Department O&M Adjustment 3 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
O&M Adj 4	**Equipment**						**O&M Adjustments - 15**
Division of Technology							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Division of Technology		$ -	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainal		$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Public Property							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Public Property		$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Fleet Management		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
City Finance							
100	Salaries & Wages						
1xx	Benefits						
191	Pension						
190	Pension Obligations						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal City Finance		$ -	$ -	$ -	$ -	$ -	$ -
City Finance (270)							
100	Salaries & Wages						
1xx (270)	Benefits (270)						
191 (270)	Pension (270)						
190 (270)	Pension Obligations (270)						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal City Finance (270)		$ -	$ -	$ -	$ -	$ -	$ -
Revenue							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Revenue		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Procurement							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Procurement		$ -	$ -	$ -	$ -	$ -	$ -
Law							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Law		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Other Department O&M Adjustment 4 Summary							
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	-	-	-	-	-	-
191	Pension	-	-	-	-	-	-
190	Pension Obligations	-	-	-	-	-	-
1xx (270)	Benefits (270)	-	-	-	-	-	-
191 (270)	Pension (270)	-	-	-	-	-	-
190 (270)	Pension Obligations (270)	-	-	-	-	-	-
200	Services	-	-	-	-	-	-
220	Power	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-
Total Other Department O&M Adjustment 4 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
O&M Adj 5	**Materials & Supplies**						**O&M Adjustments - 16**
Division of Technology							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Division of Technology		$ -	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainal		$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board		$ -	$ -	$ -	$ -	$ -	$ -

ADJUSTMENT 5 NOT IN USE

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Public Property							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Public Property		$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Fleet Management		$ -	$ -	$ -	$ -	$ -	$ -

ADJUSTMENT 5 NOT IN USE

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
City Finance							
100	Salaries & Wages						
1xx	Benefits						
191	Pension						
190	Pension Obligations						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal City Finance		$ -	$ -	$ -	$ -	$ -	$ -
City Finance (270)							
100	Salaries & Wages						
1xx (270)	Benefits (270)						
191 (270)	Pension (270)						
190 (270)	Pension Obligations (270)						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal City Finance (270)		$ -	$ -	$ -	$ -	$ -	$ -
Revenue							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Revenue		$ -	$ -	$ -	$ -	$ -	$ -

ADJUSTMENT 5 NOT IN USE

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Procurement							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Procurement		$ -	$ -	$ -	$ -	$ -	$ -
Law							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Law		$ -	$ -	$ -	$ -	$ -	$ -
Other Department O&M Adjustment 5 Summary							
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	-	-	-	-	-	-
191	Pension	-	-	-	-	-	-
190	Pension Obligations	-	-	-	-	-	-
1xx (270)	Benefits (270)	-	-	-	-	-	-
191 (270)	Pension (270)	-	-	-	-	-	-
190 (270)	Pension Obligations (270)	-	-	-	-	-	-
200	Services	-	-	-	-	-	-
220	Power	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-
Total Other Department O&M Adjustment 5 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

ADJUSTMENT 5 NOT IN USE

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
O&M Adj 6	**Additional Regulatory Compliance Staffing (COA)**						**O&M Adjustments - 17**
Division of Technology							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Division of Technology		$ -	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainal		$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Public Property							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Public Property		$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Fleet Management		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
City Finance							
100	Salaries & Wages						
1xx	Benefits				62,000	424,000	1,130,000
191	Pension				47,000	308,000	790,000
190	Pension Obligations				9,000	62,000	159,000
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal City Finance		$ -	$ -	$ -	$ 118,000	$ 794,000	$ 2,079,000
City Finance (270)							
100	Salaries & Wages						
1xx (270)	Benefits (270)						
191 (270)	Pension (270)						
190 (270)	Pension Obligations (270)						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal City Finance (270)		$ -	$ -	$ -	$ -	$ -	$ -
Revenue							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Revenue		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Procurement							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Procurement		$ -	$ -	$ -	$ -	$ -	$ -
Law							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Law		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Other Department O&M Adjustment 6 Summary							
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	-	-	-	62,000	424,000	1,130,000
191	Pension	-	-	-	47,000	308,000	790,000
190	Pension Obligations	-	-	-	9,000	62,000	159,000
1xx (270)	Benefits (270)	-	-	-	-	-	-
191 (270)	Pension (270)	-	-	-	-	-	-
190 (270)	Pension Obligations (270)	-	-	-	-	-	-
200	Services	-	-	-	-	-	-
220	Power	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-
Total Other Department O&M Adjustment 6 Summary		**$ -**	**$ -**	**$ -**	**$ 118,000**	**$ 794,000**	**$ 2,079,000**

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
O&M Adj 7	**XXXXXXXXXXX**						**O&M Adjustments - 18**
Division of Technology							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Division of Technology		$ -	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainal		$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Public Property							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Public Property		$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Fleet Management		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
City Finance							
100	Salaries & Wages						
1xx	Benefits						
191	Pension						
190	Pension Obligations						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal City Finance		$ -	$ -	$ -	$ -	$ -	$ -
City Finance (270)							
100	Salaries & Wages						
1xx (270)	Benefits (270)						
191 (270)	Pension (270)						
190 (270)	Pension Obligations (270)						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal City Finance (270)		$ -	$ -	$ -	$ -	$ -	$ -
Revenue							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Revenue		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Procurement							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Procurement		$ -	$ -	$ -	$ -	$ -	$ -
Law							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Law		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Other Department O&M Adjustment 7 Summary							
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	-	-	-	-	-	-
191	Pension	-	-	-	-	-	-
190	Pension Obligations	-	-	-	-	-	-
1xx (270)	Benefits (270)	-	-	-	-	-	-
191 (270)	Pension (270)	-	-	-	-	-	-
190 (270)	Pension Obligations (270)	-	-	-	-	-	-
200	Services	-	-	-	-	-	-
220	Power	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-
Total Other Department O&M Adjustment 7 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
O&M Adj 8	**FY 2024 & FY 2025 Additional Staffing Needs**						**O&M Adjustments - 19**
Division of Technology							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Division of Technology		$ -	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainal		$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Public Property							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Public Property		$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Fleet Management		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
City Finance							
100	Salaries & Wages						
1xx	Benefits		747,000	3,380,000	4,338,000	4,525,000	4,721,000
191	Pension		612,000	2,651,000	3,277,000	3,288,000	3,299,000
190	Pension Obligations		124,000	538,000	661,000	666,000	666,000
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal City Finance		$ -	$ 1,483,000	$ 6,569,000	$ 8,276,000	$ 8,479,000	$ 8,686,000
City Finance (270)							
100	Salaries & Wages						
1xx (270)	Benefits (270)						
191 (270)	Pension (270)						
190 (270)	Pension Obligations (270)						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal City Finance (270)		$ -	$ -	$ -	$ -	$ -	$ -
Revenue							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Revenue		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Procurement							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Procurement		$ -	$ -	$ -	$ -	$ -	$ -
Law							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Law		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Other Department O&M Adjustment 8 Summary							
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	-	747,000	3,380,000	4,338,000	4,525,000	4,721,000
191	Pension	-	612,000	2,651,000	3,277,000	3,288,000	3,299,000
190	Pension Obligations	-	124,000	538,000	661,000	666,000	666,000
1xx (270)	Benefits (270)	-	-	-	-	-	-
191 (270)	Pension (270)	-	-	-	-	-	-
190 (270)	Pension Obligations (270)	-	-	-	-	-	-
200	Services	-	-	-	-	-	-
220	Power	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-
Total Other Department O&M Adjustment 8 Summary		**$ -**	**$ 1,483,000**	**$ 6,569,000**	**$ 8,276,000**	**$ 8,479,000**	**$ 8,686,000**

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
O&M Adj 9	**FY 2024 Additional Energy and Chemical Costs**						**O&M Adjustments - 20**
Division of Technology							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Division of Technology		$ -	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainal		$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Public Property							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Public Property		$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Fleet Management		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
City Finance							
100	Salaries & Wages						
1xx	Benefits						
191	Pension						
190	Pension Obligations						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal City Finance		$ -	$ -	$ -	$ -	$ -	$ -
City Finance (270)							
100	Salaries & Wages						
1xx (270)	Benefits (270)						
191 (270)	Pension (270)						
190 (270)	Pension Obligations (270)						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal City Finance (270)		$ -	$ -	$ -	$ -	$ -	$ -
Revenue							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Revenue		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Procurement							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Procurement		$ -	$ -	$ -	$ -	$ -	$ -
Law							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Law		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Other Department O&M Adjustment 9 Summary							
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	-	-	-	-	-	-
191	Pension	-	-	-	-	-	-
190	Pension Obligations	-	-	-	-	-	-
1xx (270)	Benefits (270)	-	-	-	-	-	-
191 (270)	Pension (270)	-	-	-	-	-	-
190 (270)	Pension Obligations (270)	-	-	-	-	-	-
200	Services	-	-	-	-	-	-
220	Power	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-
Total Other Department O&M Adjustment 9 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
O&M Adj 10	**XXXXXXXXXXX**						**O&M Adjustments - 21**
Division of Technology							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Division of Technology		$ -	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainal		$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Public Property							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Public Property		$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Fleet Management		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
City Finance							
100	Salaries & Wages						
1xx	Benefits						
191	Pension						
190	Pension Obligations						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal City Finance		$ -	$ -	$ -	$ -	$ -	$ -
City Finance (270)							
100	Salaries & Wages						
1xx (270)	Benefits (270)						
191 (270)	Pension (270)						
190 (270)	Pension Obligations (270)						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal City Finance (270)		$ -	$ -	$ -	$ -	$ -	$ -
Revenue							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Revenue		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Procurement							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Procurement		$ -	$ -	$ -	$ -	$ -	$ -
Law							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Law		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Other Department O&M Adjustment 10 Summary							
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	-	-	-	-	-	-
191	Pension	-	-	-	-	-	-
190	Pension Obligations	-	-	-	-	-	-
1xx (270)	Benefits	-	-	-	-	-	-
191 (270)	Pension	-	-	-	-	-	-
190 (270)	Pension Obligations	-	-	-	-	-	-
200	Services	-	-	-	-	-	-
220	Power	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-
Total Other Department O&M Adjustment 10 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
O&M Adj 11	**XXXXXXXXXXX**						**O&M Adjustments - 22**
Division of Technology							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Division of Technology		$ -	$ -	$ -	$ -	$ -	$ -
Mayor's Office of Transportation & Utilities and Office of Sustainability							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Mayor's Office of Transportation & Utilities and Office of Sustainal		$ -	$ -	$ -	$ -	$ -	$ -
Philadelphia Water, Sewer and Stormwater Rate Board							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Philadelphia Water, Sewer and Stormwater Rate Board		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Public Property							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Public Property		$ -	$ -	$ -	$ -	$ -	$ -
Fleet Management							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Fleet Management		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
City Finance							
100	Salaries & Wages						
1xx	Benefits						
191	Pension						
190	Pension Obligations						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal City Finance		$ -	$ -	$ -	$ -	$ -	$ -
City Finance (270)							
100	Salaries & Wages						
1xx (270)	Benefits (270)						
191 (270)	Pension (270)						
190 (270)	Pension Obligations (270)						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal City Finance (270)		$ -	$ -	$ -	$ -	$ -	$ -
Revenue							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Revenue		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Procurement							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Procurement		$ -	$ -	$ -	$ -	$ -	$ -
Law							
100	Salaries & Wages						
200	Services						
300	Materials and Supplies						
400	Equipment						
500	Indemnities						
800	Transfers						
Subtotal Law		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class		Study Period 2023	2024	2025	2026	2027	2028
Other Department O&M Adjustment 11 Summary							
100	Salaries & Wages	$ -	$ -	$ -	$ -	$ -	$ -
1xx	Benefits	-	-	-	-	-	-
191	Pension	-	-	-	-	-	-
190	Pension Obligations	-	-	-	-	-	-
1xx (270)	Benefits (270)	-	-	-	-	-	-
191 (270)	Pension (270)	-	-	-	-	-	-
190 (270)	Pension Obligations (270)	-	-	-	-	-	-
200	Services	-	-	-	-	-	-
220	Power	-	-	-	-	-	-
300	Materials and Supplies	-	-	-	-	-	-
307	Chemicals	-	-	-	-	-	-
400	Equipment	-	-	-	-	-	-
500	Indemnities	-	-	-	-	-	-
800	Transfers	-	-	-	-	-	-
Total Other Department O&M Adjustment 11 Summary		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Total Adjustments		$ -	$ 1,483,000	$ 6,569,000	$ 8,394,000	$ 9,273,000	$ 10,765,000
1	SMIP/GARP Funding	$ -	$ (5,000,000)	$ (5,000,000)	$ -	$ -	$ -
2	Shift Capital Staff Costs to O&M	-	1,150,065	2,369,134	3,660,311	5,026,828	6,472,041
3	Contract Services	-	8,876,444	8,451,878	8,848,271	9,263,255	9,697,701
4	Equipment	-	1,116,084	1,221,108	1,302,068	1,388,395	1,480,445
5	Materials & Supplies	-	601,264	641,548	671,637	703,137	736,114
6	Additional Regulatory Compliance Staffing (COA)	-	-	-	254,334	1,712,044	4,492,739
7	XXXXXXXXXXX	-	-	-	-	-	-
8	FY 2024 & FY 2025 Additional Staffing Needs	-	3,176,343	14,116,542	17,814,266	18,303,414	18,805,146
9	FY 2024 Additional Energy and Chemical Costs	-	19,002,507	22,754,839	25,033,028	27,566,773	30,385,213
10	XXXXXXXXXXX	-	-	-	-	-	-
11	XXXXXXXXXXX	-	-	-	-	-	-
		$ -	$ 28,922,707	$ 44,555,049	$ 57,583,915	$ 63,963,846	$ 72,069,400
		$ -	$ -	$ -	$ -	$ -	$ -

Cost Center/Expense Class	Study Period 2023	2024	2025	2026	2027	2028
Applied Adjustments						
1 SMIP/GARP Funding	$ -	$ (5,000,000)	$ (5,000,000)	$ -	$ -	$ -
2 Shift Capital Staff Costs to O&M	-	1,150,065	2,369,134	3,660,311	5,026,828	6,472,041
3 Contract Services	-	8,876,444	8,451,878	8,848,271	9,263,255	9,697,701
4 Equipment	-	1,116,084	1,221,108	1,302,068	1,388,395	1,480,445
5 Materials & Supplies	-	-	-	-	-	-
6 Additional Regulatory Compliance Staffing (COA)	-	-	-	254,334	1,712,044	4,492,739
7 XXXXXXXXXXX	-	-	-	-	-	-
8 FY 2024 & FY 2025 Additional Staffing Needs	-	3,176,343	14,116,542	17,814,266	18,303,414	18,805,146
9 FY 2024 Additional Energy and Chemical Costs	-	19,002,507	22,754,839	25,033,028	27,566,773	30,385,213
10 XXXXXXXXXXX	-	-	-	-	-	-
11 XXXXXXXXXXX	-	-	-	-	-	-
Total	$ -	$ 28,321,444	$ 43,913,501	$ 56,912,278	$ 63,260,709	$ 71,333,286
Total From Direct O&M and Other Dept O&M	$ -	$ 28,321,444	$ 43,913,501	$ 56,912,278	$ 63,260,709	$ 71,333,286
CHECK	$ -	$ -	$ -	$ -	$ -	$ -

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CAPITAL PROJECTS – SCEN 1

Index	Description	Table
Capital Projects - Scen 1	**Capital Projects - Scenario 1 Worksheet**	
Capital Projects - Scen 1 - 1A	Water CIP Budget - Uninflated	Schedule BV-2: Table 2-6, Table 3-11
Capital Projects - Scen 1 - 1B	Water CIP Budget - Inflated	Schedule BV-2: Table 2-6, Table 3-11
Capital Projects - Scen 1 - 2A	Wastewater CIP Budget - Uninflated	Schedule BV-2: Table 2-6, Table 6-18
Capital Projects - Scen 1 - 2B	Wastewater CIP Budget - Inflated	Schedule BV-2: Table 2-6, Table 6-18
Capital Projects - Scen 1 - 3A	Combined System CIP Budget	Schedule BV-1: Table C-7 Schedule BV-2: Table 2-6, Table 3-11

Index	Description	Table
Capital Projects - Scen 1	**Capital Projects Worksheet (Scenario 1)**	
Capital Projects - Scen 1 - 1A	Water CIP Budget - Uninflated	Schedule BV-2: Table 3-11
Capital Projects - Scen 1 - 1B	Water CIP Budget - Inflated	Schedule BV-2: Table 3-11
Capital Projects - Scen 1 - 2A	Wastewater CIP Budget - Uninflated	Schedule BV-2: Table 6-18
Capital Projects - Scen 1 - 2B	Wastewater CIP Budget - Inflated	Schedule BV-2: Table 6-18
Capital Projects - Scen 1 - 3A	Combined System CIP Budget	Schedule BV-1: Table C-7

Project	CIP Inflation	Category Assignment	2023	2024	2025	2026	2027	2028
Water CIP Budget								Capital Projects - Scen 1 - 1A
			255,000,000	393,000,000	295,000,000	262,000,000	315,000,000	450,000,000
Engineering and Administration								
Class 100	Medium	3	$ 6,587,660	$ 5,890,760	$ 5,329,866	$ 4,768,972	$ 4,208,078	$ 3,647,184
	Medium	3	-	-	-	-	-	-
Subtotal Engineering and Administration			$ 6,587,660	$ 5,890,760	$ 5,329,866	$ 4,768,972	$ 4,208,078	$ 3,647,184
Water Treatment Plant								
Water Facilities	Medium	2						
Water Master Plan	Medium	1	73,478,994	207,564,652	178,281,176	71,935,419	254,854,379	384,531,410
Pennvest	Low	1						
Subtotal Water Treatment Plant			$ 73,478,994	$ 207,564,652	$ 178,281,176	$ 71,935,419	$ 254,854,379	$ 384,531,410
Pumping Station								
	Medium	2	$ -	$ -	$ -	$ -	$ -	$ -
	Medium	2	-	-	-	-	-	-
Subtotal Pumping Station			$ -	$ -	$ -	$ -	$ -	$ -
Water Mains								
Water Master Plan	Medium	1	$ 48,686,604	$ 8,197,106	$ 141,944,053	$ 14,139,802	$ 7,562,842	$ -
	Medium	2	-	-	-	-	-	-
Subtotal Water Mains			$ 48,686,604	$ 8,197,106	$ 141,944,053	$ 14,139,802	$ 7,562,842	$ -
Filtered Water Storage								
	Medium	2	$ -	$ -	$ -	$ -	$ -	$ -
	Medium	2	-	-	-	-	-	-
Subtotal Filtered Water Storage			$ -	$ -	$ -	$ -	$ -	$ -
Load Control Center Expansion								
	Medium	2	$ -	$ -	$ -	$ -	$ -	$ -
	Medium	2	-	-	-	-	-	-
Subtotal Load Control Center Expansion			$ -	$ -	$ -	$ -	$ -	$ -

Project	CIP Inflation	Category Assignment	2023	2024	2025	2026	2027	2028
Distribution System								
	Medium	2	$ 74,373,396	$ 148,902,894	$ 98,155,947	$ 116,466,581	$ 120,537,158	$ 120,100,000
Pennvest	Low	1				4,493,617		-
Subtotal Distribution System			$ 74,373,396	$ 148,902,894	$ 98,155,947	$ 120,960,198	$ 120,537,158	$ 120,100,000
Large Meter Replacement								
	Medium	2	$ 5,000,000	$ 5,000,000	$ 5,000,000	$ 5,000,000	$ 5,000,000	$ 5,000,000
	Medium	2	-	-	-	-	-	-
Subtotal Large Meter Replacement			$ 5,000,000	$ 5,000,000	$ 5,000,000	$ 5,000,000	$ 5,000,000	$ 5,000,000
Vehicles								
	Medium	3	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000
	Medium	3	-	-	-	-	-	-
Subtotal Vehicles			$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000
Other								
New Billing System	Medium	4	$ -	$ -	$ -	$ 15,000,000	$ 15,000,000	$ 15,000,000
	Medium	1	-	-	-	-	-	-
Subtotal Other			$ -	$ -	$ -	$ 15,000,000	$ 15,000,000	$ 15,000,000
Total Water CIP Budget			**$ 214,126,654**	**$ 381,555,412**	**$ 434,711,042**	**$ 237,804,391**	**$ 413,162,457**	**$ 534,278,594**

Project	Inflation Factor	2023	2024	2025	2026	2027	2028
Water CIP Budget							**Capital Projects - Scen 1 - 1B**
Engineering and Administration							
Class 100	4.00%	6,587,700	5,890,800	5,543,100	5,158,100	4,733,500	4,266,700
	4.00%	-	-	-	-	-	-
Subtotal Engineering and Administration		$ 6,587,700	$ 5,890,800	$ 5,543,100	$ 5,158,100	$ 4,733,500	$ 4,266,700
Water Treatment Plant							
Water Facilities	4.00%	-	-	-	-	-	-
Water Master Plan	4.00%	73,479,000	207,564,700	185,412,400	77,805,300	286,676,500	449,847,400
Pennvest	0.00%	-	-	-	-	-	-
Subtotal Water Treatment Plant		$ 73,479,000	$ 207,564,700	$ 185,412,400	$ 77,805,300	$ 286,676,500	$ 449,847,400
Pumping Station							
	4.00%	-	-	-	-	-	-
	4.00%	-	-	-	-	-	-
Subtotal Pumping Station		$ -	$ -	$ -	$ -	$ -	$ -
Water Mains							
Water Master Plan	4.00%	48,686,600	8,197,100	147,621,800	15,293,600	8,507,200	-
	4.00%	-	-	-	-	-	-
Subtotal Water Mains		$ 48,686,600	$ 8,197,100	$ 147,621,800	$ 15,293,600	$ 8,507,200	$ -
Filtered Water Storage							
	4.00%	-	-	-	-	-	-
	4.00%	-	-	-	-	-	-
Subtotal Filtered Water Storage		$ -	$ -	$ -	$ -	$ -	$ -

Project	Inflation Factor	2023	2024	2025	2026	2027	2028
Water CIP Budget							**Capital Projects - Scen 1 - 1B**
Load Control Center Expansion							
	4.00%	-	-	-	-	-	-
	4.00%	-	-	-	-	-	-
Subtotal Load Control Center Expansion		$ -	$ -	$ -	$ -	$ -	$ -
Distribution System							
	4.00%	74,373,400	148,902,900	102,082,200	125,970,300	135,587,900	140,500,000
Pennvest	0.00%	-	-	-	4,493,600	-	-
Subtotal Distribution System		$ 74,373,400	$ 148,902,900	$ 102,082,200	$ 130,463,900	$ 135,587,900	$ 140,500,000
Large Meter Replacement							
	4.00%	5,000,000	5,000,000	5,200,000	5,408,000	5,624,300	5,849,300
	4.00%	-	-	-	-	-	-
Subtotal Large Meter Replacement		$ 5,000,000	$ 5,000,000	$ 5,200,000	$ 5,408,000	$ 5,624,300	$ 5,849,300
Vehicles							
	4.00%	6,000,000	6,000,000	6,240,000	6,489,600	6,749,200	7,019,200
	4.00%	-	-	-	-	-	-
Subtotal Vehicles		$ 6,000,000	$ 6,000,000	$ 6,240,000	$ 6,489,600	$ 6,749,200	$ 7,019,200
Other							
New Billing System	4.00%	-	-	-	16,224,000	16,873,000	17,547,900
	4.00%	-	-	-	-	-	-
Subtotal Other		$ -	$ -	$ -	$ 16,224,000	$ 16,873,000	$ 17,547,900
Total Water CIP Budget		**$ 214,126,700**	**$ 381,555,500**	**$ 452,099,500**	**$ 256,842,500**	**$ 464,751,600**	**$ 625,030,500**
					3.93%		

Project	CIP Inflation	Category Assignment	2023	2024	2025	2026	2027	2028
Wastewater CIP Budget								Capital Projects - Scen 1 - 2A
Engineering and Administration								
	Medium	3	7,733,340	6,915,240	6,256,799	5,598,358	4,939,917	4,281,476
	Medium	3	-	-	-	-	-	-
Subtotal Engineering and Administration			$ 7,733,340	$ 6,915,240	$ 6,256,799	$ 5,598,358	$ 4,939,917	$ 4,281,476
Water Pollution Control Plant Improvements								
	Medium	2	$ 121,521,006	$ 125,435,348	$ 56,718,824	$ 180,064,581	$ 50,145,621	$ 55,468,590
PENNVEST	Low	1						
COA Portion	Medium	2	60,000,000	60,000,000	60,000,000	10,000,000	10,000,000	10,000,000
Subtotal Water Pollution Control Plant Improvements			$ 181,521,006	$ 185,435,348	$ 116,718,824	$ 190,064,581	$ 60,145,621	$ 65,468,590
Storm Flood Relief								
	Medium	2	$ 15,000,000	$ 15,000,000	$ 15,000,000	$ 15,000,000	$ 15,000,000	$ 15,000,000
	Medium	2		-	-	-	-	-
Subtotal Storm Flood Relief			$ 15,000,000	$ 15,000,000	$ 15,000,000	$ 15,000,000	$ 15,000,000	$ 15,000,000
Reconstruction of Old Sewers								
Sewer Reconstruction	Medium	2	$ 62,860,000	$ 70,000,000	$ 76,000,000	$ 81,000,000	$ 86,000,000	$ 92,000,000
Sewer Reconstruction	Low	1						
Interceptor Rehab	Medium	2	-	-	-	-	-	
CSO System Improvements	Medium	2	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Subtotal Reconstruction of Old Sewers			$ 72,860,000	$ 80,000,000	$ 86,000,000	$ 91,000,000	$ 96,000,000	$ 102,000,000
Green Infrastructure								
Stream Restoration	Medium	2	$ 10,000,000	$ 10,000,000	$ 10,000,000	$ 10,000,000	$ 10,000,000	$ 10,000,000
	Medium	2						
Green Infrastructure	Medium	2	73,000,000	80,000,000	80,000,000	160,000,000	160,000,000	160,000,000
Subtotal Green Infrastructure			$ 83,000,000	$ 90,000,000	$ 90,000,000	$ 170,000,000	$ 170,000,000	$ 170,000,000
Vehicles								
	Medium	3	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000
	Medium	3	-	-	-	-	-	-
Subtotal Vehicles			$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000	$ 6,000,000

Project	CIP Inflation	Category Assignment	2023	2024	2025	2026	2027	2028
Other								
New Billing System	Medium	4	$ -	$ -	$ -	$ 15,000,000	$ 15,000,000	$ 15,000,000
	Medium	1	-	-	-	-	-	-
Subtotal Other			$ -	$ -	$ -	$ 15,000,000	$ 15,000,000	$ 15,000,000
Consent Decree/Wet Weather Plan Projects								
	Medium	2	$ -	$ -	$ -	$ -	$ -	$ -
	Medium	2	-	-	-	-	-	-
Subtotal Consent Decree/Wet Weather Plan Projects			$ -	$ -	$ -	$ -	$ -	$ -
Total Wastewater CIP Budget			**$ 366,114,346**	**$ 383,350,588**	**$ 319,975,623**	**$ 492,662,939**	**$ 367,085,538**	**$ 377,750,066**

Project	Inflation Factor	2023	2024	2025	2026	2027	2028
Wastewater CIP Budget							**Capital Projects - Scen 1 - 2B**
Engineering and Administration							
	4.00%	7,733,300	6,915,200	6,507,100	6,055,200	5,556,700	5,008,700
	4.00%	-	-	-	-	-	-
Subtotal Engineering and Administration		$ 7,733,300	$ 6,915,200	$ 6,507,100	$ 6,055,200	$ 5,556,700	$ 5,008,700
Water Pollution Control Plant Improvements							
	4.00%	121,521,000	125,435,300	58,987,600	194,757,900	56,407,000	64,890,400
PENNVEST	0.00%	-	-	-	-	-	-
COA Portion	4.00%	60,000,000	60,000,000	62,400,000	10,816,000	11,248,600	11,698,600
Subtotal Water Pollution Control Plant Improvements		$ 181,521,000	$ 185,435,300	$ 121,387,600	$ 205,573,900	$ 67,655,600	$ 76,589,000
Storm Flood Relief							
	4.00%	15,000,000	15,000,000	15,600,000	16,224,000	16,873,000	17,547,900
	4.00%	-	-	-	-	-	-
Subtotal Storm Flood Relief		$ 15,000,000	$ 15,000,000	$ 15,600,000	$ 16,224,000	$ 16,873,000	$ 17,547,900
Reconstruction of Old Sewers							
Sewer Reconstruction	4.00%	62,860,000	70,000,000	79,040,000	87,609,600	96,738,300	107,627,000
Sewer Reconstruction	0.00%	-	-	-	-	-	-
Interceptor Rehab	4.00%	-	-	-	-	-	-
CSO System Improvements	4.00%	10,000,000	10,000,000	10,400,000	10,816,000	11,248,600	11,698,600
Subtotal Reconstruction of Old Sewers		$ 72,860,000	$ 80,000,000	$ 89,440,000	$ 98,425,600	$ 107,986,900	$ 119,325,600

Project	Inflation Factor	2023	2024	2025	2026	2027	2028
Wastewater CIP Budget							Capital Projects - Scen 1 - 2B
Green Infrastructure							
Stream Restoration	4.00%	10,000,000	10,000,000	10,400,000	10,816,000	11,248,600	11,698,600
	4.00%	-	-	-	-	-	-
Green Infrastructure	4.00%	73,000,000	80,000,000	83,200,000	173,056,000	179,978,200	187,177,400
Subtotal Green Infrastructure		$ 83,000,000	$ 90,000,000	$ 93,600,000	$ 183,872,000	$ 191,226,800	$ 198,876,000
Vehicles							
	4.00%	6,000,000	6,000,000	6,240,000	6,489,600	6,749,200	7,019,200
	4.00%	-	-	-	-	-	-
Subtotal Vehicles		$ 6,000,000	$ 6,000,000	$ 6,240,000	$ 6,489,600	$ 6,749,200	$ 7,019,200
Other							
New Billing System	4.00%	-	-	-	16,224,000	16,873,000	17,547,900
	4.00%	-	-	-	-	-	-
Subtotal Other		$ -	$ -	$ -	$ 16,224,000	$ 16,873,000	$ 17,547,900
Consent Decree/Wet Weather Plan Projects							
	4.00%	-	-	-	-	-	-
	4.00%	-	-	-	-	-	-
Subtotal Consent Decree/Wet Weather Plan Projects		$ -	$ -	$ -	$ -	$ -	$ -
Total Wastewater CIP Budget		**$ 366,114,300**	**$ 383,350,500**	**$ 332,774,700**	**$ 532,864,300**	**$ 412,921,200**	**$ 441,914,300**
					4.00%		

Project	CIP Inflation	Category Assignment	2023	2024	2025	2026	2027	2028
Combined System CIP Budget								**Capital Projects - Scen 1 - 3A**
Total Combined System CIP Budget			**$ 580,241,000**	**$ 764,906,000**	**$ 754,686,665**	**$ 730,467,330**	**$ 780,247,995**	**$ 912,028,660**
Water CIP Summary by Category - Inflated								
Category 1 (No Contingency Adjustment)		1	$ 122,165,600	$ 215,761,800	$ 333,034,200	$ 97,592,500	$ 295,183,700	$ 449,847,400
Category 2 (Contingency Adjustment)		2	79,373,400	153,902,900	107,282,200	131,378,300	141,212,200	146,349,300
Category 3 (Engineering & Admin)		3	12,587,700	11,890,800	11,783,100	11,647,700	11,482,700	11,285,900
Category 4 (Other Billing System)		4	-	-	-	16,224,000	16,873,000	17,547,900
Category 5		5	-	-	-	-	-	-
Wastewater CIP Summary by Category - Inflated								
Category 1 (No Contingency Adjustment)		1	$ -	$ -	$ -	$ -	$ -	$ -
Category 2 (Contingency Adjustment)		2	352,381,000	370,435,300	320,027,600	504,095,500	383,742,300	412,338,500
Category 3 (Engineering & Admin)		3	13,733,300	12,915,200	12,747,100	12,544,800	12,305,900	12,027,900
Category 4 (Other Billing System)		4	-	-	-	16,224,000	16,873,000	17,547,900
Category 5		5	-	-	-	-	-	-
Total Inflated CIP			$ 580,241,000	$ 764,906,000	$ 784,874,200	$ 789,706,800	$ 877,672,800	$1,066,944,800
Water CIP Adjustment by Category - Inflated	Rollforward Adjustments		33.3%	33.3%	25.0%	20.0%	20.0%	20.0%
Category 1 (No Contingency Adjustment)		1		$ 125,000,000				
Category 2 (Contingency Adjustment)		2	(34,447,325)	$ (36,041,900)	$ 13,142,467	$ 64,284,940	$ (41,485,020)	$ (31,960,160)
Category 3 (Engineering & Admin)		3	1,231,122	-	-	-	-	-
Category 4 (Other Billing System)		4	-	-		$ (3,244,800)	$ (129,800)	$ (134,980)
Category 5		5	-	-	-	-	-	-
Wastewater CIP Adjustment by Category - Inflated			Rollforward Adjustments					
Category 1 (No Contingency Adjustment)		1						
Category 2 (Contingency Adjustment)		2	(68,899,764)	$ (6,018,100)	$ 43,471,533	$ (20,812,200)	$ 24,070,640	$ (5,719,240)
Category 3 (Engineering & Admin)		3	1,231,122	-	-	-	-	-
Category 4 (Other Billing System)		4	-	-	-	$ (3,244,800)	$ (129,800)	$ (134,980)
Category 5		5	-	-	-	-	-	-
Total CIP Adjustment Inflated			$ (100,884,845)	$ 82,940,000	$ 56,614,000	$ 36,983,140	$ (17,673,980)	$ (37,949,360)

Project	CIP Inflation	Category Assignment	2023	2024	2025	2026	2027	2028
Water Adjusted CIP Budget by Category - Inflated								
Category 1 (No Contingency Adjustment)		1	$ 122,165,600	$ 340,761,800	$ 333,034,200	$ 97,592,500	$ 295,183,700	$ 449,847,400
Category 2 (Contingency Adjustment)		2	44,926,075	117,861,000	120,424,667	195,663,240	99,727,180	114,389,140
Category 3 (Engineering & Admin)		3	13,818,822	11,890,800	11,783,100	11,647,700	11,482,700	11,285,900
Category 4 (Other Billing System)		4	-	-	-	12,979,200	16,743,200	17,412,920
Category 5		5	-	-	-	-	-	-
Wastewater Adjusted CIP Budget by Category - Inflated								
Category 1 (No Contingency Adjustment)		1	$ -	$ -	$ -	$ -	$ -	$ -
Category 2 (Contingency Adjustment)		2	283,481,236	364,417,200	363,499,133	483,283,300	407,812,940	406,619,260
Category 3 (Engineering & Admin)		3	14,964,422	12,915,200	12,747,100	12,544,800	12,305,900	12,027,900
Category 4 (Other Billing System)		4	-	-	-	12,979,200	16,743,200	17,412,920
Category 5		5	-	-	-	-	-	-
Total Adjusted CIP Budget Inflated			$ 479,356,155	$ 847,846,000	$ 841,488,200	$ 826,689,940	$ 859,998,820	$1,028,995,440
Contingency Adjustment			TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
Water Estimated CIP Encumbrance/Commitment by Category - Inflated								
Category 1 (No Contingency Adjustment)	100.0%	1	$ 122,165,600	$ 340,761,800	$ 333,034,200	$ 97,592,500	$ 295,183,700	$ 449,847,400
Category 2 (Contingency Adjustment)	85.0%	2	38,187,164	100,181,850	102,360,967	166,313,754	84,768,103	97,230,769
Category 3 (Engineering & Admin)	100.0%	3	13,818,822	11,890,800	11,783,100	11,647,700	11,482,700	11,285,900
Category 4 (Other Billing System)	100.0%	4	-	-	-	12,979,200	16,743,200	17,412,920
Category 5	85.0%	5	-	-	-	-	-	-
Wastewater Estimated CIP Encumbrance/Commitment by Category - Inflated								
Category 1 (No Contingency Adjustment)	100.0%	1	$ -	$ -	$ -	$ -	$ -	$ -
Category 2 (Contingency Adjustment)	85.0%	2	240,959,050	309,754,620	308,974,263	410,790,805	346,640,999	345,626,371
Category 3 (Engineering & Admin)	100.0%	3	14,964,422	12,915,200	12,747,100	12,544,800	12,305,900	12,027,900
Category 4 (Other Billing System)	100.0%	4	-	-	-	12,979,200	16,743,200	17,412,920
Category 5	85.0%	5	-	-	-	-	-	-
Total Estimated CIP Encumbrance/Commitment Inflated			$ 430,095,058	$ 775,504,270	$ 768,899,630	$ 724,847,959	$ 783,867,802	$ 950,844,180
			89.7%	91.5%	91.4%	87.7%	91.1%	92.4%
			$ 279,146,214	$ 409,936,470	$ 411,335,230			
Total Net Funding Requirement			$ 337,626,503	$ 513,963,593	$ 606,056,078	$ 757,392,683	$ 791,263,391	$ 865,517,845
Estimated Monthly Spending			$ 28,135,542	$ 42,830,299	$ 50,504,673	$ 63,116,057	$ 65,938,616	$ 72,126,487

Project	CIP Inflation	Category Assignment	2023	2024	2025	2026	2027	2028
Annual Balance of Encumbrance/Commitment			$ 92,468,556	$ 261,540,677	$ 162,843,552	$ (32,544,724)	$ (7,395,589)	$ 85,326,335
Cumulative Balance of Encumbrance/Commitment			$ 92,468,556	$ 354,009,233	$ 516,852,784	$ 484,308,060	$ 476,912,470	$ 562,238,805
Ratio of Expenses to Encumbrance/Commitment			78.5%	66.3%	78.8%	104.5%	100.9%	91.0%

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CAPITAL PROJECTS

Index	Description	Table
Capital Projects	**Capital Projects Worksheet**	
Capital Projects - 1	Combined System CIP Budget	Schedule BV-2: Table 3-11 and Table 6-18

Project	Category Assignment	2023	2024	2025	2026	2027	2028
Combined System CIP Budget							**Capital Projects - 1**
Water Capital Projects - Uninflated							
Engineering and Administration		$ 6,587,660	$ 5,890,760	$ 5,329,866	$ 4,768,972	$ 4,208,078	$ 3,647,184
Water Treatment Plant		73,478,994	207,564,652	178,281,176	71,935,419	254,854,379	384,531,410
Pumping Station		-	-	-	-	-	-
Water Mains		48,686,604	8,197,106	141,944,053	14,139,802	7,562,842	-
Filtered Water Storage		-	-	-	-	-	-
Load Control Center Expansion		-	-	-	-	-	-
Distribution System		74,373,396	148,902,894	98,155,947	120,960,198	120,537,158	120,100,000
Large Meter Replacement		5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000
Vehicles		6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000
Other (Billing System)		-	-	-	15,000,000	15,000,000	15,000,000
Total Water Capital Projects - Uninflated		**$ 214,126,654**	**$ 381,555,412**	**$ 434,711,042**	**$ 237,804,391**	**$ 413,162,457**	**$ 534,278,594**
Wastewater Capital Projects - Uninflated							
Engineering and Administration		$ 7,733,340	$ 6,915,240	$ 6,256,799	$ 5,598,358	$ 4,939,917	$ 4,281,476
Water Pollution Control Plant Improvements		181,521,006	185,435,348	116,718,824	190,064,581	60,145,621	65,468,590
Storm Flood Relief		15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000
Reconstruction of Old Sewers		72,860,000	80,000,000	86,000,000	91,000,000	96,000,000	102,000,000
Green Infrastructure		83,000,000	90,000,000	90,000,000	170,000,000	170,000,000	170,000,000
Vehicles		6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000
Other (Billing System)		-	-	-	15,000,000	15,000,000	15,000,000
Consent Decree/Wet Weather Plan Projects		-	-	-	-	-	-
Total Wastewater Capital Projects - Uninflated		**$ 366,114,346**	**$ 383,350,588**	**$ 319,975,623**	**$ 492,662,939**	**$ 367,085,538**	**$ 377,750,066**
Total Last Updated:		**$ 580,241,000**	**$ 764,906,000**	**$ 754,686,665**	**$ 730,467,330**	**$ 780,247,995**	**$ 912,028,660**
		$ (31,279,000)	$ 387,741,000	$ 154,395,665	$ 63,500,330	$ 291,004,995	$ 260,909,660

Project	Category Assignment	2023	2024	2025	2026	2027	2028
Combined System CIP Budget							**Capital Projects - 1**
Water Capital Projects - Inflated							
Engineering and Administration		$ 6,587,700	$ 5,890,800	$ 5,543,100	$ 5,158,100	$ 4,733,500	$ 4,266,700
Water Treatment Plant		73,479,000	207,564,700	185,412,400	77,805,300	286,676,500	449,847,400
Pumping Station		-	-	-	-	-	-
Water Mains		48,686,600	8,197,100	147,621,800	15,293,600	8,507,200	-
Filtered Water Storage		-	-	-	-	-	-
Load Control Center Expansion		-	-	-	-	-	-
Distribution System		74,373,400	148,902,900	102,082,200	130,463,900	135,587,900	140,500,000
Large Meter Replacement		5,000,000	5,000,000	5,200,000	5,408,000	5,624,300	5,849,300
Vehicles		6,000,000	6,000,000	6,240,000	6,489,600	6,749,200	7,019,200
Other (Billing System)		-	-	-	16,224,000	16,873,000	17,547,900
Total Water Capital Projects - Inflated		**$ 214,126,700**	**$ 381,555,500**	**$ 452,099,500**	**$ 256,842,500**	**$ 464,751,600**	**$ 625,030,500**
Wastewater Capital Projects - Inflated							
Engineering and Administration		$ 7,733,300	$ 6,915,200	$ 6,507,100	$ 6,055,200	$ 5,556,700	$ 5,008,700
Water Pollution Control Plant Improvements		181,521,000	185,435,300	121,387,600	205,573,900	67,655,600	76,589,000
Storm Flood Relief		15,000,000	15,000,000	15,600,000	16,224,000	16,873,000	17,547,900
Reconstruction of Old Sewers		72,860,000	80,000,000	89,440,000	98,425,600	107,986,900	119,325,600
Green Infrastructure		83,000,000	90,000,000	93,600,000	183,872,000	191,226,800	198,876,000
Vehicles		6,000,000	6,000,000	6,240,000	6,489,600	6,749,200	7,019,200
Other (Billing System)		-	-	-	16,224,000	16,873,000	17,547,900
Consent Decree/Wet Weather Plan Projects		-	-	-	-	-	-
Total Wastewater Capital Projects - Inflated		**$ 366,114,300**	**$ 383,350,500**	**$ 332,774,700**	**$ 532,864,300**	**$ 412,921,200**	**$ 441,914,300**
Total Last Updated:		**$ 580,241,000**	**$ 764,906,000**	**$ 784,874,200**	**$ 789,706,800**	**$ 877,672,800**	**$ 1,066,944,800**

Project	Category Assignment	2023	2024	2025	2026	2027	2028
Combined System CIP Budget							**Capital Projects - 1**
Water CIP Summary by Category - Inflated							
Category 1 (No Contingency Adjustment)	1	$ 122,165,600	$ 215,761,800	$ 333,034,200	$ 97,592,500	$ 295,183,700	$ 449,847,400
Category 2 (Contingency Adjustment)	2	79,373,400	153,902,900	107,282,200	131,378,300	141,212,200	146,349,300
Category 3 (Engineering & Admin)	3	12,587,700	11,890,800	11,783,100	11,647,700	11,482,700	11,285,900
Category 4 (Other Billing System)	4	-	-	-	16,224,000	16,873,000	17,547,900
Category 5	5	-	-	-	-	-	-
Wastewater CIP Summary by Category - Inflated							
Category 1 (No Contingency Adjustment)	1	$ -	$ -	$ -	$ -	$ -	$ -
Category 2 (Contingency Adjustment)	2	352,381,000	370,435,300	320,027,600	504,095,500	383,742,300	412,338,500
Category 3 (Engineering & Admin)	3	13,733,300	12,915,200	12,747,100	12,544,800	12,305,900	12,027,900
Category 4 (Other Billing System)	4	-	-	-	16,224,000	16,873,000	17,547,900
Category 5	5	-	-	-	-	-	-
Total CIP Budget - Inflated		$ 580,241,000	$ 764,906,000	$ 784,874,200	$ 789,706,800	$ 877,672,800	$ 1,066,944,800
Totals for Scenario							
Water System		$ 214,126,700	$ 381,555,500	$ 452,099,500	$ 256,842,500	$ 464,751,600	$ 625,030,500
Wastewater System		366,114,300	383,350,500	332,774,700	532,864,300	412,921,200	441,914,300
Combined System		580,241,000	764,906,000	784,874,200	789,706,800	877,672,800	1,066,944,800
Water CIP Adjustment by Category - Inflated (Rollforward Adjustments)							
Category 1 (No Contingency Adjustment)	1	$ -	$ 125,000,000	$ -	$ -	$ -	$ -
Category 2 (Contingency Adjustment)	2	(34,447,325)	(36,041,900)	13,142,467	64,284,940	(41,485,020)	(31,960,160)
Category 3 (Engineering & Admin)	3	1,231,122	-	-	-	-	-
Category 4 (Other Billing System)	4	-	-	-	(3,244,800)	(129,800)	(134,980)
Category 5	5	-	-	-	-	-	-

Project	Category Assignment	2023	2024	2025	2026	2027	2028
Combined System CIP Budget							**Capital Projects - 1**
Wastewater CIP Adjustment by Category - Inflated (Rollforward Adjustments)							
Category 1 (No Contingency Adjustment)	1	$ -	$ -	$ -	$ -	$ -	$ -
Category 2 (Contingency Adjustment)	2	(68,899,764)	(6,018,100)	43,471,533	(20,812,200)	24,070,640	(5,719,240)
Category 3 (Engineering & Admin)	3	1,231,122	-	-	-	-	-
Category 4 (Other Billing System)	4	-	-	-	(3,244,800)	(129,800)	(134,980)
Category 5	5	-	-	-	-	-	-
Total CIP Budget Adjustments - Inflated		$ (100,884,845)	$ 82,940,000	$ 56,614,000	$ 36,983,140	$ (17,673,980)	$ (37,949,360)
Totals for Scenario							
Water System		$ (33,216,203)	$ 88,958,100	$ 13,142,467	$ 61,040,140	$ (41,614,820)	$ (32,095,140)
Wastewater System		(67,668,642)	(6,018,100)	43,471,533	(24,057,000)	23,940,840	(5,854,220)
Combined System		(100,884,845)	82,940,000	56,614,000	36,983,140	(17,673,980)	(37,949,360)
Water Adjusted CIP Budget by Category - Inflated							
Category 1 (No Contingency Adjustment)	1	$ 122,165,600	$ 340,761,800	$ 333,034,200	$ 97,592,500	$ 295,183,700	$ 449,847,400
Category 2 (Contingency Adjustment)	2	44,926,075	117,861,000	120,424,667	195,663,240	99,727,180	114,389,140
Category 3 (Engineering & Admin)	3	13,818,822	11,890,800	11,783,100	11,647,700	11,482,700	11,285,900
Category 4 (Other Billing System)	4	-	-	-	12,979,200	16,743,200	17,412,920
Category 5	5	-	-	-	-	-	-
Wastewater Adjusted CIP Budget by Priority Level - Inflated							
Category 1 (No Contingency Adjustment)	1	$ -	$ -	$ -	$ -	$ -	$ -
Category 2 (Contingency Adjustment)	2	283,481,236	364,417,200	363,499,133	483,283,300	407,812,940	406,619,260
Category 3 (Engineering & Admin)	3	14,964,422	12,915,200	12,747,100	12,544,800	12,305,900	12,027,900
Category 4 (Other Billing System)	4	-	-	-	12,979,200	16,743,200	17,412,920
Category 5	5	-	-	-	-	-	-

Project	Category Assignment	2023	2024	2025	2026	2027	2028
Combined System CIP Budget							**Capital Projects - 1**
Total CIP Budget Adjustments - Inflated		$ 479,356,155	$ 847,846,000	$ 841,488,200	$ 826,689,940	$ 859,998,820	$ 1,028,995,440
Totals for Scenario							
Water System		$ 180,910,497	$ 470,513,600	$ 465,241,967	$ 317,882,640	$ 423,136,780	$ 592,935,360
Wastewater System		298,445,658	377,332,400	376,246,233	508,807,300	436,862,040	436,060,080
Combined System		479,356,155	847,846,000	841,488,200	826,689,940	859,998,820	1,028,995,440
Water Estimated CIP Encumbrance/Commitment by Category - Inflated							
Category 1 (No Contingency Adjustment)	1	$ 122,165,600	$ 340,761,800	$ 333,034,200	$ 97,592,500	$ 295,183,700	$ 449,847,400
Category 2 (Contingency Adjustment)	2	38,187,164	100,181,850	102,360,967	166,313,754	84,768,103	97,230,769
Category 3 (Engineering & Admin)	3	13,818,822	11,890,800	11,783,100	11,647,700	11,482,700	11,285,900
Category 4 (Other Billing System)	4	-	-	-	12,979,200	16,743,200	17,412,920
Category 5	5	-	-	-	-	-	-
Wastewater Estimated CIP Encumbrance/Commitment by Category - Inflated							
Category 1 (No Contingency Adjustment)	1	$ -	$ -	$ -	$ -	$ -	$ -
Category 2 (Contingency Adjustment)	2	240,959,050	309,754,620	308,974,263	410,790,805	346,640,999	345,626,371
Category 3 (Engineering & Admin)	3	14,964,422	12,915,200	12,747,100	12,544,800	12,305,900	12,027,900
Category 4 (Other Billing System)	4	-	-	-	12,979,200	16,743,200	17,412,920
Category 5	5	-	-	-	-	-	-
Total Estimated CIP Encumbrance/Commitment - Inflated		$ 430,095,058	$ 775,504,270	$ 768,899,630	$ 724,847,959	$ 783,867,802	$ 950,844,180
Totals for Scenario							
Water System		$ 174,171,586	$ 452,834,450	$ 447,178,267	$ 288,533,154	$ 408,177,703	$ 575,776,989
Wastewater System		255,923,472	322,669,820	321,721,363	436,314,805	375,690,099	375,067,191
Combined System		430,095,058	775,504,270	768,899,630	724,847,959	783,867,802	950,844,180
Total Net Funding Requirement		337,626,503	513,963,593	606,056,078	757,392,683	791,263,391	865,517,845
Estimated Monthly Spending		28,135,542	42,830,299	50,504,673	63,116,057	65,938,616	72,126,487

Project	Category Assignment	2023	2024	2025	2026	2027	2028
Combined System CIP Budget							**Capital Projects - 1**
Allocation of CIP Spending by System							
Water System		$ 136,725,457	$ 300,114,945	$ 352,471,371	$ 301,487,915	$ 412,028,754	$ 524,108,229
Wastewater System		200,901,045	213,848,649	253,584,708	455,904,769	379,234,638	341,409,617
Combined System		337,626,503	513,963,593	606,056,078	757,392,683	791,263,391	865,517,845
Net Encumbrance/Commitment							
Water System	$ 181,867,441	$ 219,313,570	$ 372,033,076	$ 466,739,971	$ 453,785,210	$ 449,934,160	$ 501,602,920
Wastewater System	272,801,162	327,823,589	436,644,760	504,781,416	485,191,452	481,646,914	515,304,488
Combined System	454,668,603	547,137,159	808,677,836	971,521,387	938,976,663	931,581,073	1,016,907,408

FINPLAN23_24.XLS

DEBT SERVICE

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Existing Debt Service

Revenue Bond Debt Service

DS - 1a

Revenue Bonds	Series 1997B VRB			Series 2010C			Series 2011A			Series 2011B		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	48.00%	52.00%		20.00%	80.00%		20.00%	80.00%		20.00%	80.00%	
Fiscal Year												
2022	-	-		-	-		-	-		1,854,225	7,416,900	9,271,125
2023	-	-		-	-		-	-		-	-	
2024	-	-		-	-		-	-		-	-	
2025	-	-		-	-		-	-		-	-	
2026	-	-		-	-		-	-		-	-	
2027	-	-		-	-		-	-		-	-	
2028	-	-		-	-		-	-		-	-	
2029	-	-		-	-		-	-		-	-	
2030	-	-		-	-		-	-		-	-	
2031	-	-		-	-		-	-		-	-	
2032	-	-		-	-		-	-		-	-	
2033	-	-		-	-		-	-		-	-	
2034	-	-		-	-		-	-		-	-	
2035	-	-		-	-		-	-		-	-	
2036	-	-		-	-		-	-		-	-	
2037	-	-		-	-		-	-		-	-	
2038	-	-		-	-		-	-		-	-	
2039	-	-		-	-		-	-		-	-	
2040	-	-		-	-		-	-		-	-	
2041	-	-		-	-		-	-		-	-	
2042	-	-		-	-		-	-		-	-	
2043	-	-		-	-		-	-		-	-	
2044	-	-		-	-		-	-		-	-	
2045	-	-		-	-		-	-		-	-	
2046	-	-		-	-		-	-		-	-	
2047	-	-		-	-		-	-		-	-	
2048	-	-		-	-		-	-		-	-	
2049	-	-		-	-		-	-		-	-	
2050	-	-		-	-		-	-		-	-	
2051	-	-		-	-		-	-		-	-	
2052	-	-		-	-		-	-		-	-	
2053	-	-		-	-		-	-		-	-	
2054	-	-		-	-		-	-		-	-	
2055	-	-		-	-		-	-		-	-	
2056	-	-		-	-		-	-		-	-	
2057	-	-		-	-		-	-		-	-	
2058	-	-		-	-		-	-		-	-	
2059	-	-		-	-		-	-		-	-	
2060	-	-		-	-		-	-		-	-	
2061	-	-		-	-		-	-		-	-	
2062	-	-		-	-		-	-		-	-	
2063	-	-		-	-		-	-		-	-	
2064	-	-		-	-		-	-		-	-	
Total Existing Debt	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,854,225	$ 7,416,900	$ 9,271,125

Existing Debt Service

Revenue Bond Debt Service DS - 1b

Revenue Bonds	Series 2012			Series 2013A			Series 2014A			Series 2015A Refunding		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	20.44%	79.56%		19.38%	80.62%		19.38%	80.62%		42.00%	58.00%	
Fiscal Year												
2022	-	-		4,897,888	20,375,012	25,272,900	1,891,677	7,869,298	9,760,975	-	-	
2023	-	-		4,898,615	20,378,035	25,276,650	1,890,335	7,863,715	9,754,050	-	-	
2024	-	-		-	-		1,888,232	7,854,968	9,743,200	-	-	
2025	-	-		-	-		1,886,522	7,847,853	9,734,375	-	-	
2026	-	-		-	-		1,883,542	7,835,458	9,719,000	-	-	
2027	-	-		-	-		1,881,168	7,825,582	9,706,750	-	-	
2028	-	-		-	-		-	-		-	-	
2029	-	-		-	-		-	-		-	-	
2030	-	-		-	-		-	-		-	-	
2031	-	-		-	-		-	-		-	-	
2032	-	-		-	-		-	-		-	-	
2033	-	-		-	-		-	-		-	-	
2034	-	-		-	-		-	-		-	-	
2035	-	-		-	-		-	-		-	-	
2036	-	-		-	-		-	-		-	-	
2037	-	-		-	-		-	-		-	-	
2038	-	-		-	-		-	-		-	-	
2039	-	-		-	-		-	-		-	-	
2040	-	-		-	-		-	-		-	-	
2041	-	-		-	-		-	-		-	-	
2042	-	-		-	-		-	-		-	-	
2043	-	-		-	-		-	-		-	-	
2044	-	-		-	-		-	-		-	-	
2045	-	-		-	-		-	-		-	-	
2046	-	-		-	-		-	-		-	-	
2047	-	-		-	-		-	-		-	-	
2048	-	-		-	-		-	-		-	-	
2049	-	-		-	-		-	-		-	-	
2050	-	-		-	-		-	-		-	-	
2051	-	-		-	-		-	-		-	-	
2052	-	-		-	-		-	-		-	-	
2053	-	-		-	-		-	-		-	-	
2054	-	-		-	-		-	-		-	-	
2055	-	-		-	-		-	-		-	-	
2056	-	-		-	-		-	-		-	-	
2057	-	-		-	-		-	-		-	-	
2058	-	-		-	-		-	-		-	-	
2059	-	-		-	-		-	-		-	-	
2060	-	-		-	-		-	-		-	-	
2061	-	-		-	-		-	-		-	-	
2062	-	-		-	-		-	-		-	-	
2063	-	-		-	-		-	-		-	-	
2064	-	-		-	-		-	-		-	-	
Total Existing Debt	**$ -**	**$ -**	**$ -**	**$ 9,796,503**	**$ 40,753,047**	**$ 50,549,550**	**$ 11,321,476**	**$ 47,096,874**	**$ 58,418,350**	**$ -**	**$ -**	**$ -**

Existing Debt Service

Revenue Bond Debt Service DS - 1c

Revenue Bonds	Series 2015B Refunding			Series 2016A Refunding			Series 2017A			Series 2017B		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	37.73%	62.27%		33.86%	66.14%		41.45%	58.55%		28.45%	71.55%	
Fiscal Year												
2022	6,384,048	10,536,302	16,920,350	4,153,416	8,113,022	12,266,438	5,021,819	7,094,306	12,116,125	3,221,322	8,101,428	11,322,750
2023	6,383,058	10,534,667	16,917,725	5,332,209	10,415,603	15,747,813	5,021,819	7,094,306	12,116,125	4,133,643	10,395,857	14,529,500
2024	1,724,865	2,846,735	4,571,600	9,437,819	18,435,244	27,873,063	5,021,819	7,094,306	12,116,125	4,401,891	11,070,484	15,472,375
2025	1,724,865	2,846,735	4,571,600	9,770,493	19,085,069	28,855,563	5,021,819	7,094,306	12,116,125	4,131,473	10,390,402	14,521,875
2026	1,724,865	2,846,735	4,571,600	9,764,526	19,073,412	28,837,938	5,021,819	7,094,306	12,116,125	3,981,506	10,013,244	13,994,750
2027	1,724,865	2,846,735	4,571,600	9,138,158	17,849,905	26,988,063	5,021,819	7,094,306	12,116,125	4,491,295	11,295,330	15,786,625
2028	1,724,865	2,846,735	4,571,600	4,695,133	9,171,179	13,866,313	5,021,819	7,094,306	12,116,125	4,488,450	11,288,175	15,776,625
2029	5,473,435	9,033,415	14,506,850	2,934,032	5,731,155	8,665,188	5,021,819	7,094,306	12,116,125	2,838,172	7,137,828	9,976,000
2030	5,466,973	9,022,752	14,489,725	2,935,641	5,734,297	8,669,938	5,021,819	7,094,306	12,116,125	10,365,046	26,067,454	36,432,500
2031	5,462,021	9,014,579	14,476,600	2,934,964	5,732,974	8,667,938	5,021,819	7,094,306	12,116,125	10,120,056	25,451,319	35,571,375
2032	5,456,173	9,004,927	14,461,100	2,934,337	5,731,750	8,666,088	5,021,819	7,094,306	12,116,125	10,193,173	25,635,202	35,828,375
2033	5,450,797	8,996,053	14,446,850	2,934,608	5,732,279	8,666,888	7,909,201	11,173,299	19,082,500	1,094,756	2,753,244	3,848,000
2034	5,443,486	8,983,989	14,427,475	2,934,134	5,731,353	8,665,488	7,910,652	11,175,348	19,086,000	1,108,945	2,788,930	3,897,875
2035	5,439,157	8,976,843	14,416,000	2,934,684	5,732,428	8,667,113	7,910,496	11,175,129	19,085,625	1,122,708	2,823,542	3,946,250
2036	5,430,177	8,962,023	14,392,200	2,935,245	5,733,524	8,668,769	7,910,444	11,175,056	19,085,500	-	-	-
2037	-	-		-	-		7,910,082	11,174,543	19,084,625	-	-	-
2038	-	-		-	-		7,908,994	11,173,006	19,082,000	-	-	-
2039	-	-		-	-		7,910,807	11,175,568	19,086,375	-	-	-
2040	-	-		-	-		7,908,838	11,172,787	19,081,625	-	-	-
2041	-	-		-	-		3,601,002	5,087,123	8,688,125	-	-	-
2042	-	-		-	-		7,908,838	11,172,787	19,081,625	-	-	-
2043	-	-		-	-		7,910,185	11,174,690	19,084,875	-	-	-
2044	-	-		-	-		7,910,237	11,174,763	19,085,000	-	-	-
2045	-	-		-	-		7,910,496	11,175,129	19,085,625	-	-	-
2046	-	-		-	-		7,910,341	11,174,909	19,085,250	-	-	-
2047	-	-		-	-		7,909,149	11,173,226	19,082,375	-	-	-
2048	-	-		-	-		7,910,341	11,174,909	19,085,250	-	-	-
2049	-	-		-	-		7,910,509	11,175,147	19,085,656	-	-	-
2050	-	-		-	-		7,910,499	11,175,132	19,085,631	-	-	-
2051	-	-		-	-		7,909,577	11,173,830	19,083,406	-	-	-
2052	-	-		-	-		7,908,908	11,172,886	19,081,794	-	-	
2053	-	-		-	-		7,909,636	11,173,914	19,083,550	-	-	
2054	-	-		-	-		-	-		-	-	
2055	-	-		-	-		-	-		-	-	
2056	-	-		-	-		-	-		-	-	
2057	-	-		-	-		-	-		-	-	
2058	-	-		-	-		-	-		-	-	
2059	-	-		-	-		-	-		-	-	
2060	-	-		-	-		-	-		-	-	
2061	-	-		-	-		-	-		-	-	
2062	-	-		-	-		-	-		-	-	
2063	-	-		-	-		-	-		-	-	
2064	-	-		-	-		-	-		-	-	
Total Existing Debt	**$ 65,013,648**	**$ 107,299,227**	**$ 172,312,875**	**$ 75,769,400**	**$ 148,003,194**	**$ 223,772,594**	**$ 217,039,244**	**$ 306,610,543**	**$ 523,649,787**	**$ 65,692,437**	**$ 165,212,438**	**$ 230,904,875**

Existing Debt Service

Revenue Bond Debt Service DS - 1d

Revenue Bonds	Series 2018A			Series 2019A Refunding			Series 2019B			Series 2020 Forward Refunding		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	45.22%	54.78%		20.03%	79.97%		41.20%	58.80%		20.00%	80.00%	
Fiscal Year												
2022	10,218,758	12,377,992	22,596,750	608,562	2,429,695	3,038,256	5,163,449	7,369,551	12,533,000	1,277,400	5,109,600	6,387,000
2023	7,788,062	9,433,688	17,221,750	609,474	2,433,340	3,042,814	5,163,449	7,369,551	12,533,000	1,277,400	5,109,600	6,387,000
2024	5,470,422	6,626,328	12,096,750	992,967	3,964,441	4,957,408	9,017,651	12,870,474	21,888,125	1,277,400	5,109,600	6,387,000
2025	5,470,422	6,626,328	12,096,750	992,517	3,962,645	4,955,162	9,016,827	12,869,298	21,886,125	1,277,400	5,109,600	6,387,000
2026	5,470,422	6,626,328	12,096,750	1,264,227	5,047,455	6,311,682	9,015,952	12,868,048	21,884,000	1,277,400	5,109,600	6,387,000
2027	5,470,422	6,626,328	12,096,750	1,264,845	5,049,919	6,314,764	9,016,518	12,868,857	21,885,375	1,277,400	5,109,600	6,387,000
2028	5,470,422	6,626,328	12,096,750	794,157	3,170,689	3,964,846	9,015,900	12,867,975	21,883,875	1,277,400	5,109,600	6,387,000
2029	5,470,422	6,626,328	12,096,750	480,185	1,917,147	2,397,331	4,068,796	5,807,204	9,876,000	1,277,400	5,109,600	6,387,000
2030	5,470,422	6,626,328	12,096,750	724,729	2,893,497	3,618,226	4,068,796	5,807,204	9,876,000	1,277,400	5,109,600	6,387,000
2031	5,470,422	6,626,328	12,096,750	915,702	3,655,958	4,571,659	4,068,796	5,807,204	9,876,000	1,277,400	5,109,600	6,387,000
2032	5,470,422	6,626,328	12,096,750	652,422	2,604,807	3,257,229	4,068,796	5,807,204	9,876,000	1,277,400	5,109,600	6,387,000
2033	8,199,698	9,932,302	18,132,000	641,830	2,562,519	3,204,349	4,068,796	5,807,204	9,876,000	3,523,800	14,095,200	17,619,000
2034	8,198,624	9,931,001	18,129,625	632,077	2,523,581	3,155,658	4,068,796	5,807,204	9,876,000	3,524,625	14,098,500	17,623,125
2035	8,199,246	9,931,754	18,131,000	623,184	2,488,076	3,111,260	4,068,796	5,807,204	9,876,000	3,524,375	14,097,500	17,621,875
2036	8,198,907	9,931,343	18,130,250	1,493,608	5,963,260	7,456,868	4,068,796	5,807,204	9,876,000	3,524,750	14,099,000	17,623,750
2037	8,199,472	9,932,028	18,131,500	1,707,539	6,817,385	8,524,924	4,068,796	5,807,204	9,876,000	3,524,425	14,097,700	17,622,125
2038	8,198,285	9,930,590	18,128,875	1,708,281	6,820,349	8,528,630	4,068,796	5,807,204	9,876,000	3,524,075	14,096,300	17,620,375
2039	8,199,415	9,931,960	18,131,375	1,707,658	6,817,862	8,525,520	4,068,796	5,807,204	9,876,000	3,525,300	14,101,200	17,626,500
2040	8,197,889	9,930,111	18,128,000	1,708,494	6,821,198	8,529,692	4,068,796	5,807,204	9,876,000	3,524,725	14,098,900	17,623,625
2041	8,199,981	9,932,644	18,132,625	1,708,368	6,820,697	8,529,066	4,068,796	5,807,204	9,876,000	3,524,975	14,099,900	17,624,875
2042	8,198,398	9,930,727	18,129,125	-	-		4,068,796	5,807,204	9,876,000	-	-	
2043	8,199,415	9,931,960	18,131,375	-	-		4,068,796	5,807,204	9,876,000	-	-	
2044	8,197,946	9,930,179	18,128,125	-	-		9,017,600	12,870,400	21,888,000	-	-	
2045	8,197,946	9,930,179	18,128,125	-	-		9,016,879	12,869,371	21,886,250	-	-	
2046	8,198,737	9,931,138	18,129,875	-	-		9,017,239	12,869,886	21,887,125	-	-	
2047	8,199,641	9,932,234	18,131,875	-	-		9,015,952	12,868,048	21,884,000	-	-	
2048	8,199,981	9,932,644	18,132,625	-	-		9,016,415	12,868,710	21,885,125	-	-	
2049	8,199,076	9,931,549	18,130,625	-	-		9,015,797	12,867,828	21,883,625	-	-	
2050	8,198,454	9,930,796	18,129,250	-	-		9,017,394	12,870,106	21,887,500	-	-	
2051	8,199,528	9,932,097	18,131,625	-	-		9,016,261	12,868,489	21,884,750	-	-	
2052	8,199,189	9,931,686	18,130,875	-	-		9,015,694	12,867,681	21,883,375	-	-	
2053	8,198,850	9,931,275	18,130,125	-	-		9,016,776	12,869,224	21,886,000	-	-	
2054	8,199,811	9,932,439	18,132,250	-	-		9,016,467	12,868,783	21,885,250	-	-	
2055	-	-		-	-		9,015,849	12,867,901	21,883,750	-	-	
2056	-	-		-	-		-	-	-	-	-	
2057	-	-		-	-		-	-	-	-	-	
2058	-	-		-	-		-	-	-	-	-	
2059	-	-		-	-		-	-	-	-	-	
2060	-	-		-	-		-	-	-	-	-	
2061	-	-		-	-		-	-	-	-	-	
2062	-	-		-	-		-	-	-	-	-	
2063	-	-		-	-		-	-		-	-	
2064	-	-		-	-		-	-		-	-	
Total Existing Debt	**$ 247,619,108**	**$ 299,941,267**	**$ 547,560,375**	**$ 21,230,825**	**$ 84,764,518**	**$ 105,995,344**	**$ 224,640,015**	**$ 320,618,235**	**$ 545,258,250**	**$ 45,772,450**	**$ 183,089,800**	**$ 228,862,250**

Existing Debt Service

Revenue Bond Debt Service

DS - 1e

Revenue Bonds	Series 2020A Refunding			Series 2020B Refunding			Series 2021B Refunding			Series 2021C		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	45.09%	54.91%		19.82%	80.18%		39.14%	60.86%		71.08%	28.92%	
Fiscal Year												
2022	697,129	849,121	1,546,250	930,602	3,765,590	4,696,192	5,428,239	8,440,537	13,868,776	3,402,724	1,384,451	4,787,175
2023	2,905,795	3,539,330	6,445,125	1,743,474	7,054,793	8,798,267	5,434,266	8,449,909	13,884,175	7,040,119	2,864,381	9,904,500
2024	6,620,757	8,064,243	14,685,000	1,134,048	4,588,814	5,722,862	4,026,675	6,261,202	10,287,877	9,930,054	4,040,196	13,970,250
2025	6,906,879	8,412,746	15,319,625	1,031,516	4,173,928	5,205,444	4,026,087	6,260,287	10,286,374	9,930,853	4,040,522	13,971,375
2026	6,999,191	8,525,184	15,524,375	1,031,890	4,175,443	5,207,333	4,025,202	6,258,912	10,284,114	9,930,942	4,040,558	13,971,500
2027	7,047,263	8,583,737	15,631,000	1,030,358	4,169,242	5,199,600	4,025,997	6,260,148	10,286,145	9,929,965	4,040,160	13,970,125
2028	7,138,504	8,694,871	15,833,375	1,030,405	4,169,430	5,199,835	8,127,063	12,637,022	20,764,085	9,931,031	4,040,594	13,971,625
2029	3,845,878	4,684,372	8,530,250	7,186,801	29,080,680	36,267,481	4,136,170	6,431,458	10,567,628	6,218,967	2,530,283	8,749,250
2030	3,845,878	4,684,372	8,530,250	945,602	3,826,284	4,771,885	4,137,054	6,432,834	10,569,888	9,930,143	4,040,232	13,970,375
2031	3,845,878	4,684,372	8,530,250	945,508	3,825,903	4,771,411	4,135,533	6,430,469	10,566,002	9,930,409	4,040,341	13,970,750
2032	3,845,878	4,684,372	8,530,250	945,451	3,825,676	4,771,127	4,135,583	6,430,547	10,566,130	9,931,298	4,040,702	13,972,000
2033	3,845,878	4,684,372	8,530,250	666,787	2,698,086	3,364,873	5,279,071	8,208,592	13,487,663	9,932,275	4,041,100	13,973,375
2034	3,845,878	4,684,372	8,530,250	1,019,202	4,124,100	5,143,302	5,279,316	8,208,972	13,488,287	9,929,343	4,039,907	13,969,250
2035	3,845,878	4,684,372	8,530,250	1,110,730	4,494,459	5,605,189	5,280,028	8,210,080	13,490,108	9,932,542	4,041,209	13,973,750
2036	4,577,779	5,575,846	10,153,625	713,036	2,885,229	3,598,264	5,279,865	8,209,826	13,489,690	9,931,902	4,040,948	13,972,850
2037	6,533,743	7,958,257	14,492,000	-	-		13,598,571	21,144,840	34,743,411	9,932,826	4,041,324	13,974,150
2038	6,536,842	7,962,033	14,498,875	-	-		13,792,998	21,447,161	35,240,159	9,932,328	4,041,122	13,973,450
2039	6,534,813	7,959,562	14,494,375	-	-		13,794,041	21,448,783	35,242,824	9,930,125	4,040,225	13,970,350
2040	6,531,939	7,956,061	14,488,000	-	-		13,795,564	21,451,151	35,246,715	9,930,978	4,040,572	13,971,550
2041	11,220,402	13,666,723	24,887,125	-	-		13,793,424	21,447,823	35,241,247	9,932,470	4,041,180	13,973,650
2042	13,117,135	15,976,990	29,094,125	-	-		17,420,497	27,087,670	44,508,167	9,932,613	4,041,237	13,973,850
2043	13,117,417	15,977,333	29,094,750	-	-		17,420,264	27,087,309	44,507,573	9,659,932	3,930,293	13,590,225
2044	5,180,286	6,309,714	11,490,000	-	-		17,420,074	27,087,013	44,507,087	9,658,510	3,929,715	13,588,225
2045	5,178,032	6,306,968	11,485,000	-	-		13,206,038	20,534,479	33,740,517	9,661,176	3,930,799	13,591,975
2046	5,177,750	6,306,625	11,484,375	-	-		13,206,431	20,535,089	33,741,521	9,659,932	3,930,293	13,590,225
2047	5,178,877	6,307,998	11,486,875	-	-		-	-		9,931,400	4,040,744	13,972,144
2048	5,176,454	6,305,046	11,481,500	-	-		-	-		9,929,370	4,039,918	13,969,288
2049	5,181,131	6,310,744	11,491,875	-	-		-	-		9,931,324	4,040,713	13,972,038
2050	5,176,623	6,305,252	11,481,875	-	-		-	-		9,932,426	4,041,162	13,973,588
2051	5,180,399	6,309,851	11,490,250	-	-		-	-		9,932,248	4,041,089	13,973,338
2052	-	-		-	-		-	-		9,930,387	4,040,332	13,970,719
2053	-	-		-	-		-	-		-	-	
2054				-	-		-	-		-	-	
2055				-	-		-	-		-	-	
2056				-	-		-	-		-	-	
2057				-	-		-	-		-	-	
2058				-	-		-	-		-	-	
2059				-	-		-	-		-	-	
2060				-	-		-	-		-	-	
2061				-	-		-	-		-	-	
2062				-	-		-	-		-	-	
2063				-	-		-	-		-	-	
2064	-	-	-	-	-		-	-		-	-	
Total Existing Debt	$ 174,836,280	$ 212,954,845	$ 387,791,125	$ 21,465,409	$ 86,857,657	$ 108,323,066	$ 220,204,052	$ 342,402,111	$ 562,606,163	$ 293,650,609	$ 119,476,303	$ 413,126,913

Existing Debt Service

Revenue Bond Debt Service

DS - 1f

Revenue Bonds	Series 2022C			TOTAL REVENUE BONDS		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	45.80%	54.20%				
Fiscal Year						
2022	-	-	-	55,151,259	111,232,803	166,384,062
2023	6,955,768	8,233,139	15,188,906	66,577,486	121,169,914	187,747,400
2024	11,941,174	14,134,076	26,075,250	72,885,774	112,961,110	185,846,884
2025	10,616,438	12,566,062	23,182,500	71,804,112	111,285,781	183,089,893
2026	10,158,373	12,023,877	22,182,250	71,549,858	111,538,559	183,088,417
2027	10,143,948	12,006,802	22,150,750	71,464,020	111,626,651	183,090,671
2028	9,106,804	10,779,196	19,886,000	67,821,953	98,496,100	166,318,053
2029	9,108,064	10,780,686	19,888,750	58,060,140	101,964,463	160,024,603
2030	9,106,461	10,778,789	19,885,250	63,295,964	98,117,948	161,413,912
2031	9,108,636	10,781,364	19,890,000	63,237,144	98,254,715	161,491,859
2032	9,107,148	10,779,602	19,886,750	63,039,900	97,375,024	160,414,924
2033	9,108,636	10,781,364	19,890,000	62,656,132	91,465,615	154,121,747
2034	9,107,949	10,780,551	19,888,500	63,003,027	92,877,808	155,880,835
2035	9,107,033	10,779,467	19,886,500	63,098,857	93,242,062	156,340,919
2036	9,107,720	10,780,280	19,888,000	63,172,228	93,163,538	156,335,766
2037	8,498,073	10,058,677	18,556,750	63,973,526	91,031,958	155,005,484
2038	8,498,760	10,059,490	18,558,250	64,169,360	91,337,254	155,506,614
2039	8,498,646	10,059,354	18,558,000	64,169,602	91,341,717	155,511,319
2040	8,497,272	10,057,728	18,555,000	64,164,496	91,335,711	155,500,206
2041	8,498,760	10,059,490	18,558,250	64,548,180	90,962,783	155,510,963
2042	8,495,555	10,055,695	18,551,250	69,141,831	84,072,311	153,214,142
2043	8,498,760	10,059,490	18,558,250	68,874,770	83,968,278	152,843,048
2044	8,471,696	10,027,454	18,499,150	65,856,348	81,329,239	147,185,587
2045	8,443,761	9,994,389	18,438,150	61,614,327	74,741,315	136,355,642
2046	8,414,200	9,959,400	18,373,600	61,584,630	74,707,341	136,291,971
2047	8,384,548	9,924,302	18,308,850	48,619,566	54,246,552	102,866,119
2048	6,643,477	7,863,498	14,506,975	46,876,036	52,184,726	99,060,763
2049	6,643,248	7,863,227	14,506,475	46,881,086	52,189,208	99,070,294
2050	6,643,683	7,863,742	14,507,425	46,879,078	52,186,190	99,065,269
2051	6,641,611	7,861,289	14,502,900	46,879,623	52,186,646	99,066,269
2052	6,643,145	7,863,105	14,506,250	41,697,323	45,875,689	87,573,013
2053	-	-		25,125,262	33,974,413	59,099,675
2054	-	-		17,216,278	22,801,222	40,017,500
2055	-	-		9,015,849	12,867,901	21,883,750
2056	-	-		-	-	-
2057	-	-		-	-	-
2058	-	-		-	-	-
2059	-	-		-	-	-
2060	-	-		-	-	-
2061	-	-		-	-	-
2062	-	-		-	-	-
2063	-	-		-	-	-
2064	-	-		-	-	-
Total Existing Debt	$ 258,199,345	$ 305,615,586	$ 563,814,931			

Existing Debt Service

Parity PENNVEST Debt Service

DS - 2a

	Series 1999			Series 2009B			Series 2009C			Series 2009D		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	100.00%	0.00%		100.00%	0.00%		100.00%	0.00%		0.00%	100.00%	
Fiscal Year												
2022	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2023	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2024	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2025	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2026	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2027	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2028	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2029	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2030	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2031	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	4,457,621	4,457,621
2032	-	-		1,577,973	-	1,577,973	2,775,440	-	2,775,440	-	2,600,278	2,600,278
2033	-	-		394,493	-	394,493	-	-	-	-	-	-
2034	-	-		-	-	-	-	-	-	-	-	-
2035	-	-		-	-	-	-	-		-	-	
2036	-	-		-	-		-	-		-	-	
2037	-	-		-	-		-	-		-	-	
2038	-	-		-	-		-	-		-	-	
2039	-	-		-	-		-	-		-	-	
2040	-	-		-	-		-	-		-	-	
2041	-	-		-	-		-	-		-	-	
2042	-	-		-	-		-	-		-	-	
2043	-	-		-	-		-	-		-	-	
2044	-	-		-	-		-	-		-	-	
2045	-	-		-	-		-	-		-	-	
2046	-	-		-	-		-	-		-	-	
2047	-	-		-	-		-	-		-	-	
2048	-	-		-	-		-	-		-	-	
2049	-	-		-	-		-	-		-	-	
2050	-	-		-	-		-	-		-	-	
2051	-	-		-	-		-	-		-	-	
2052	-	-		-	-		-	-		-	-	
2053	-	-		-	-		-	-		-	-	
2054	-	-		-	-		-	-		-	-	
2055	-	-		-	-		-	-		-	-	
2056	-	-		-	-		-	-		-	-	
2057	-	-		-	-		-	-		-	-	
2058	-	-		-	-		-	-		-	-	
2059	-	-		-	-		-	-		-	-	
2060	-	-		-	-		-	-		-	-	
2061	-	-		-	-		-	-		-	-	
2062	-	-		-	-		-	-		-	-	
2063	-	-		-	-		-	-		-	-	
2064	-	-		-	-		-	-		-	-	
Total Existing Debt	**$ -**	**$ -**	**$ -**	**$ 17,752,190**	**$ -**	**$ 17,752,190**	**$ 30,529,838**	**$ -**	**$ 30,529,838**	**$ -**	**$ 47,176,486**	**$ 47,176,486**

Existing Debt Service

Parity PENNVEST Debt Service

DS - 2b

	Series 2010B			Series xxxx			Series xxxx			Series xxxx		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	0.00%	100.00%		100.00%	0.00%		50.00%	50.00%		50.00%	50.00%	
Fiscal Year												
2022	-	1,819,906	1,819,906	-	-	-	-	-		-	-	
2023	-	1,819,906	1,819,906	-	-		-	-		-	-	
2024	-	1,819,906	1,819,906	-	-		-	-		-	-	
2025	-	1,819,906	1,819,906	-	-		-	-		-	-	
2026	-	1,819,906	1,819,906	-	-		-	-		-	-	
2027	-	1,819,906	1,819,906	-	-		-	-		-	-	
2028	-	1,819,906	1,819,906	-	-		-	-		-	-	
2029	-	1,819,906	1,819,906	-	-		-	-		-	-	
2030	-	1,819,906	1,819,906	-	-		-	-		-	-	
2031	-	1,819,906	1,819,906	-	-		-	-		-	-	
2032	-	1,819,906	1,819,906	-	-		-	-		-	-	
2033	-	1,819,906	1,819,906	-	-		-	-		-	-	
2034	-	454,976	454,976	-	-		-	-		-	-	
2035	-	-	-	-	-		-	-		-	-	
2036	-	-	-	-	-		-	-		-	-	
2037	-	-		-	-		-	-		-	-	
2038	-	-		-	-		-	-		-	-	
2039	-	-		-	-		-	-		-	-	
2040	-	-		-	-		-	-		-	-	
2041	-	-		-	-		-	-		-	-	
2042	-	-		-	-		-	-		-	-	
2043	-	-		-	-		-	-		-	-	
2044	-	-		-	-		-	-		-	-	
2045	-	-		-	-		-	-		-	-	
2046	-	-		-	-	-	-	-		-	-	
2047	-	-		-	-	-	-	-		-	-	
2048	-	-		-	-	-	-	-		-	-	
2049	-	-		-	-		-	-		-	-	
2050	-	-		-	-		-	-		-	-	
2051	-	-		-	-		-	-		-	-	
2052	-	-		-	-		-	-		-	-	
2053	-	-		-	-		-	-		-	-	
2054	-	-		-	-		-	-		-	-	
2055	-	-		-	-		-	-		-	-	
2056	-	-		-	-		-	-		-	-	
2057	-	-		-	-		-	-		-	-	
2058	-	-		-	-		-	-		-	-	
2059	-	-		-	-		-	-		-	-	
2060	-	-		-	-		-	-		-	-	
2061	-	-		-	-		-	-		-	-	
2062	-	-		-	-		-	-		-	-	
2063	-	-		-	-		-	-		-	-	
2064	-	-		-	-		-	-		-	-	
Total Existing Debt	$ -	$ 22,293,846	$ 22,293,846	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Existing Debt Service

Parity PENNVEST Debt Service

DS - 2c

	Series xxxx			Series xxxx			Series xxxx			Series xxxx		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	50.00%	50.00%		50.00%	50.00%		50.00%	50.00%		50.00%	50.00%	
Fiscal Year												
2022	-	-		-	-		-	-		-	-	
2023	-	-		-	-		-	-		-	-	
2024	-	-		-	-		-	-		-	-	
2025	-	-		-	-		-	-		-	-	
2026	-	-		-	-		-	-		-	-	
2027	-	-		-	-		-	-		-	-	
2028	-	-		-	-		-	-		-	-	
2029	-	-		-	-		-	-		-	-	
2030	-	-		-	-		-	-		-	-	
2031	-	-		-	-		-	-		-	-	
2032	-	-		-	-		-	-		-	-	
2033	-	-		-	-		-	-		-	-	
2034	-	-		-	-		-	-		-	-	
2035	-	-		-	-		-	-		-	-	
2036	-	-		-	-		-	-		-	-	
2037	-	-		-	-		-	-		-	-	
2038	-	-		-	-		-	-		-	-	
2039	-	-		-	-		-	-		-	-	
2040	-	-		-	-		-	-		-	-	
2041	-	-		-	-		-	-		-	-	
2042	-	-		-	-		-	-		-	-	
2043	-	-		-	-		-	-		-	-	
2044	-	-		-	-		-	-		-	-	
2045	-	-		-	-		-	-		-	-	
2046	-	-		-	-		-	-		-	-	
2047	-	-		-	-		-	-		-	-	
2048	-	-		-	-		-	-		-	-	
2049	-	-		-	-		-	-		-	-	
2050	-	-		-	-		-	-		-	-	
2051	-	-		-	-		-	-		-	-	
2052	-	-		-	-		-	-		-	-	
2053	-	-		-	-		-	-		-	-	
2054	-	-		-	-		-	-		-	-	
2055	-	-		-	-		-	-		-	-	
2056	-	-		-	-		-	-		-	-	
2057	-	-		-	-		-	-		-	-	
2058	-	-		-	-		-	-		-	-	
2059	-	-		-	-		-	-		-	-	
2060	-	-		-	-		-	-		-	-	
2061	-	-		-	-		-	-		-	-	
2062	-	-		-	-		-	-		-	-	
2063	-	-		-	-		-	-		-	-	
2064	-	-		-	-		-	-		-	-	
Total Existing Debt	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Existing Debt Service

Parity PENNVEST Debt Service

DS - 2d

	Series xxxx			Series xxxx			Series xxxx			TOTAL PENNVEST REVENUE BONDS		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	50.00%	50.00%		50.00%	50.00%		50.00%	50.00%				
Fiscal Year												
2022	-	-		-	-		-	-		4,353,412	6,277,527	10,630,939
2023	-	-		-	-		-	-		4,353,412	6,277,527	10,630,939
2024	-	-		-	-		-	-		4,353,412	6,277,527	10,630,939
2025	-	-		-	-		-	-		4,353,412	6,277,527	10,630,939
2026	-	-		-	-		-	-		4,353,412	6,277,527	10,630,939
2027	-	-		-	-		-	-		4,353,412	6,277,527	10,630,939
2028	-	-		-	-		-	-		4,353,412	6,277,527	10,630,939
2029	-	-		-	-		-	-		4,353,412	6,277,527	10,630,939
2030	-	-		-	-		-	-		4,353,412	6,277,527	10,630,939
2031	-	-		-	-		-	-		4,353,412	6,277,527	10,630,939
2032	-	-		-	-		-	-		4,353,413	4,420,184	8,773,597
2033	-	-		-	-		-	-		394,493	1,819,906	2,214,399
2034	-	-		-	-		-	-		-	454,976	454,976
2035	-	-		-	-		-	-		-	-	-
2036	-	-		-	-		-	-		-	-	-
2037	-	-		-	-		-	-		-	-	-
2038	-	-		-	-		-	-		-	-	-
2039	-	-		-	-		-	-		-	-	-
2040	-	-		-	-		-	-		-	-	-
2041	-	-		-	-		-	-		-	-	-
2042	-	-		-	-		-	-		-	-	-
2043	-	-		-	-		-	-		-	-	-
2044	-	-		-	-		-	-		-	-	-
2045	-	-		-	-		-	-		-	-	-
2046	-	-		-	-		-	-		-	-	-
2047	-	-		-	-		-	-		-	-	-
2048	-	-		-	-		-	-		-	-	-
2049	-	-		-	-		-	-		-	-	-
2050	-	-		-	-		-	-		-	-	-
2051	-	-		-	-		-	-		-	-	-
2052	-	-		-	-		-	-		-	-	-
2053	-	-		-	-		-	-		-	-	-
2054	-	-		-	-		-	-		-	-	-
2055	-	-		-	-		-	-		-	-	-
2056	-	-		-	-		-	-		-	-	-
2057	-	-		-	-		-	-		-	-	-
2058	-	-		-	-		-	-		-	-	-
2059	-	-		-	-		-	-		-	-	-
2060	-	-		-	-		-	-		-	-	-
2061	-	-		-	-		-	-		-	-	-
2062	-	-		-	-		-	-		-	-	-
2063	-	-		-	-		-	-		-	-	-
2064	-	-		-	-		-	-		-	-	-
Total Existing Debt	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -			

Existing Debt Service

Commercial Paper Debt Service

DS - 3a

Commercial Paper	Series xxxx			Series xxxx			Series xxxx			Series xxxx		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	50.00%	50.00%		50.00%	50.00%		50.00%	50.00%		50.00%	50.00%	
Fiscal Year												
2022	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2023	-	-		-	-		-	-		-	-	
2024	-	-		-	-		-	-		-	-	
2025	-	-		-	-		-	-		-	-	
2026	-	-		-	-		-	-		-	-	
2027	-	-		-	-		-	-		-	-	
2028	-	-		-	-		-	-		-	-	
2029	-	-		-	-		-	-		-	-	
2030	-	-		-	-		-	-		-	-	
2031	-	-		-	-		-	-		-	-	
2032	-	-		-	-		-	-		-	-	
2033	-	-		-	-		-	-		-	-	
2034	-	-		-	-		-	-		-	-	
2035	-	-		-	-		-	-		-	-	
2036	-	-		-	-		-	-		-	-	
2037	-	-		-	-		-	-		-	-	
2038	-	-		-	-		-	-		-	-	
2039	-	-		-	-		-	-		-	-	
2040	-	-		-	-		-	-		-	-	
2041	-	-		-	-		-	-		-	-	
2042	-	-		-	-		-	-		-	-	
2043	-	-		-	-		-	-		-	-	
2044	-	-		-	-		-	-		-	-	
2045	-	-		-	-		-	-		-	-	
2046	-	-		-	-		-	-		-	-	
2047	-	-		-	-		-	-		-	-	
2048	-	-		-	-		-	-		-	-	
2049	-	-		-	-		-	-		-	-	
2050	-	-		-	-		-	-		-	-	
2051	-	-		-	-		-	-		-	-	
2052	-	-		-	-		-	-		-	-	
2053	-	-		-	-		-	-		-	-	
2054	-	-		-	-		-	-		-	-	
Total Existing Debt	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Existing Debt Service

Commercial Paper Debt Service

DS - 3b

Commercial Paper	Series xxxx			Series xxxx			Series xxxx			Series xxxx		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	50.00%	50.00%		50.00%	50.00%		50.00%	50.00%		50.00%	50.00%	
Fiscal Year												
2022	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2023	-	-		-	-		-	-		-	-	
2024	-	-		-	-		-	-		-	-	
2025	-	-		-	-		-	-		-	-	
2026	-	-		-	-		-	-		-	-	
2027	-	-		-	-		-	-		-	-	
2028	-	-		-	-		-	-		-	-	
2029	-	-		-	-		-	-		-	-	
2030	-	-		-	-		-	-		-	-	
2031	-	-		-	-		-	-		-	-	
2032	-	-		-	-		-	-		-	-	
2033	-	-		-	-		-	-		-	-	
2034	-	-		-	-		-	-		-	-	
2035	-	-		-	-		-	-		-	-	
2036	-	-		-	-		-	-		-	-	
2037	-	-		-	-		-	-		-	-	
2038	-	-		-	-		-	-		-	-	
2039	-	-		-	-		-	-		-	-	
2040	-	-		-	-		-	-		-	-	
2041	-	-		-	-		-	-		-	-	
2042	-	-		-	-		-	-		-	-	
2043	-	-		-	-		-	-		-	-	
2044	-	-		-	-		-	-		-	-	
2045	-	-		-	-		-	-		-	-	
2046	-	-		-	-		-	-		-	-	
2047	-	-		-	-		-	-		-	-	
2048	-	-		-	-		-	-		-	-	
2049	-	-		-	-		-	-		-	-	
2050	-	-		-	-		-	-		-	-	
2051	-	-		-	-		-	-		-	-	
2052	-	-		-	-		-	-		-	-	
2053	-	-		-	-		-	-		-	-	
2054	-	-		-	-		-	-		-	-	
Total Existing Debt	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Existing Debt Service

Commercial Paper Debt Service

DS - 3c

Commercial Paper	Series xxxx			Series xxxx			Series xxxx			Series xxxx		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	50.00%	50.00%		50.00%	50.00%		50.00%	50.00%		50.00%	50.00%	
Fiscal Year												
2022	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2023	-	-		-	-		-	-		-	-	
2024	-	-		-	-		-	-		-	-	
2025	-	-		-	-		-	-		-	-	
2026	-	-		-	-		-	-		-	-	
2027	-	-		-	-		-	-		-	-	
2028	-	-		-	-		-	-		-	-	
2029	-	-		-	-		-	-		-	-	
2030	-	-		-	-		-	-		-	-	
2031	-	-		-	-		-	-		-	-	
2032	-	-		-	-		-	-		-	-	
2033	-	-		-	-		-	-		-	-	
2034	-	-		-	-		-	-		-	-	
2035	-	-		-	-		-	-		-	-	
2036	-	-		-	-		-	-		-	-	
2037	-	-		-	-		-	-		-	-	
2038	-	-		-	-		-	-		-	-	
2039	-	-		-	-		-	-		-	-	
2040	-	-		-	-		-	-		-	-	
2041	-	-		-	-		-	-		-	-	
2042	-	-		-	-		-	-		-	-	
2043	-	-		-	-		-	-		-	-	
2044	-	-		-	-		-	-		-	-	
2045	-	-		-	-		-	-		-	-	
2046	-	-		-	-		-	-		-	-	
2047	-	-		-	-		-	-		-	-	
2048	-	-		-	-		-	-		-	-	
2049	-	-		-	-		-	-		-	-	
2050	-	-		-	-		-	-		-	-	
2051	-	-		-	-		-	-		-	-	
2052	-	-		-	-		-	-		-	-	
2053	-	-		-	-		-	-		-	-	
2054	-	-		-	-		-	-		-	-	
Total Existing Debt	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Existing Debt Service

Commercial Paper Debt Service

DS - 3d

Commercial Paper	Series xxxx			Series xxxx			Series xxxx			TOTAL COMMERCIAL PAPER		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	50.00%	50.00%		50.00%	50.00%		50.00%	50.00%				
Fiscal Year												
2022	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2023	-	-		-	-		-	-		-	-	-
2024	-	-		-	-		-	-		-	-	-
2025	-	-		-	-		-	-		-	-	-
2026	-	-		-	-		-	-		-	-	-
2027	-	-		-	-		-	-		-	-	-
2028	-	-		-	-		-	-		-	-	-
2029	-	-		-	-		-	-		-	-	-
2030	-	-		-	-		-	-		-	-	-
2031	-	-		-	-		-	-		-	-	-
2032	-	-		-	-		-	-		-	-	-
2033	-	-		-	-		-	-		-	-	-
2034	-	-		-	-		-	-		-	-	-
2035	-	-		-	-		-	-		-	-	-
2036	-	-		-	-		-	-		-	-	-
2037	-	-		-	-		-	-		-	-	-
2038	-	-		-	-		-	-		-	-	-
2039	-	-		-	-		-	-		-	-	-
2040	-	-		-	-		-	-		-	-	-
2041	-	-		-	-		-	-		-	-	-
2042	-	-		-	-		-	-		-	-	-
2043	-	-		-	-		-	-		-	-	-
2044	-	-		-	-		-	-		-	-	-
2045	-	-		-	-		-	-		-	-	-
2046	-	-		-	-		-	-		-	-	-
2047	-	-		-	-		-	-		-	-	-
2048	-	-		-	-		-	-		-	-	-
2049	-	-		-	-		-	-		-	-	-
2050	-	-		-	-		-	-		-	-	-
2051	-	-		-	-		-	-		-	-	-
2052	-	-		-	-		-	-		-	-	-
2053	-	-		-	-		-	-		-	-	-
2054	-	-		-	-		-	-		-	-	-
Total Existing Debt	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -			

Existing Debt Service

G.O. Bond Debt Service

DS - 4a

G.O. Bonds	Series xxxx			Series xxxx			Series xxxx			Series xxxx		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	50.00%	50.00%		50.00%	50.00%		50.00%	50.00%		50.00%	50.00%	
Fiscal Year												
2022	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2023	-	-		-	-		-	-		-	-	
2024	-	-		-	-		-	-		-	-	
2025	-	-		-	-		-	-		-	-	
2026	-	-		-	-		-	-		-	-	
2027	-	-		-	-		-	-		-	-	
2028	-	-		-	-		-	-		-	-	
2029	-	-		-	-		-	-		-	-	
2030	-	-		-	-		-	-		-	-	
2031	-	-		-	-		-	-		-	-	
2032	-	-		-	-		-	-		-	-	
2033	-	-		-	-		-	-		-	-	
2034	-	-		-	-		-	-		-	-	
2035	-	-		-	-		-	-		-	-	
2036	-	-		-	-		-	-		-	-	
2037	-	-		-	-		-	-		-	-	
2038	-	-		-	-		-	-		-	-	
2039	-	-		-	-		-	-		-	-	
2040	-	-		-	-		-	-		-	-	
2041	-	-		-	-		-	-		-	-	
2042	-	-		-	-		-	-		-	-	
2043	-	-		-	-		-	-		-	-	
2044	-	-		-	-		-	-		-	-	
2045	-	-		-	-		-	-		-	-	
2046	-	-		-	-		-	-		-	-	
2047	-	-		-	-		-	-		-	-	
2048	-	-		-	-		-	-		-	-	
2049	-	-		-	-		-	-		-	-	
2050	-	-		-	-		-	-		-	-	
2051	-	-		-	-		-	-		-	-	
2052	-	-		-	-		-	-		-	-	
2053	-	-		-	-		-	-		-	-	
2054	-	-		-	-		-	-		-	-	
Total Existing Debt	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Existing Debt Service

G.O. Bond Debt Service

DS - 4b

G.O. Bonds	Series xxxx			Series xxxx			Series xxxx			Series xxxx		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	50.00%	50.00%		50.00%	50.00%		50.00%	50.00%		50.00%	50.00%	
Fiscal Year												
2022	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2023	-	-		-	-		-	-		-	-	
2024	-	-		-	-		-	-		-	-	
2025	-	-		-	-		-	-		-	-	
2026	-	-		-	-		-	-		-	-	
2027	-	-		-	-		-	-		-	-	
2028	-	-		-	-		-	-		-	-	
2029	-	-		-	-		-	-		-	-	
2030	-	-		-	-		-	-		-	-	
2031	-	-		-	-		-	-		-	-	
2032	-	-		-	-		-	-		-	-	
2033	-	-		-	-		-	-		-	-	
2034	-	-		-	-		-	-		-	-	
2035	-	-		-	-		-	-		-	-	
2036	-	-		-	-		-	-		-	-	
2037	-	-		-	-		-	-		-	-	
2038	-	-		-	-		-	-		-	-	
2039	-	-		-	-		-	-		-	-	
2040	-	-		-	-		-	-		-	-	
2041	-	-		-	-		-	-		-	-	
2042	-	-		-	-		-	-		-	-	
2043	-	-		-	-		-	-		-	-	
2044	-	-		-	-		-	-		-	-	
2045	-	-		-	-		-	-		-	-	
2046	-	-		-	-		-	-		-	-	
2047	-	-		-	-		-	-		-	-	
2048	-	-		-	-		-	-		-	-	
2049	-	-		-	-		-	-		-	-	
2050	-	-		-	-		-	-		-	-	
2051	-	-		-	-		-	-		-	-	
2052	-	-		-	-		-	-		-	-	
2053	-	-		-	-		-	-		-	-	
2054	-	-		-	-		-	-		-	-	
Total Existing Debt	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Existing Debt Service

G.O. Bond Debt Service

DS - 4c

G.O. Bonds	Series xxxx			Series xxxx			Series xxxx			Series xxxx		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	50.00%	50.00%		50.00%	50.00%		50.00%	50.00%		50.00%	50.00%	
Fiscal Year												
2022	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2023	-	-		-	-		-	-		-	-	
2024	-	-		-	-		-	-		-	-	
2025	-	-		-	-		-	-		-	-	
2026	-	-		-	-		-	-		-	-	
2027	-	-		-	-		-	-		-	-	
2028	-	-		-	-		-	-		-	-	
2029	-	-		-	-		-	-		-	-	
2030	-	-		-	-		-	-		-	-	
2031	-	-		-	-		-	-		-	-	
2032	-	-		-	-		-	-		-	-	
2033	-	-		-	-		-	-		-	-	
2034	-	-		-	-		-	-		-	-	
2035	-	-		-	-		-	-		-	-	
2036	-	-		-	-		-	-		-	-	
2037	-	-		-	-		-	-		-	-	
2038	-	-		-	-		-	-		-	-	
2039	-	-		-	-		-	-		-	-	
2040	-	-		-	-		-	-		-	-	
2041	-	-		-	-		-	-		-	-	
2042	-	-		-	-		-	-		-	-	
2043	-	-		-	-		-	-		-	-	
2044	-	-		-	-		-	-		-	-	
2045	-	-		-	-		-	-		-	-	
2046	-	-		-	-		-	-		-	-	
2047	-	-		-	-		-	-		-	-	
2048	-	-		-	-		-	-		-	-	
2049	-	-		-	-		-	-		-	-	
2050	-	-		-	-		-	-		-	-	
2051	-	-		-	-		-	-		-	-	
2052	-	-		-	-		-	-		-	-	
2053	-	-		-	-		-	-		-	-	
2054	-	-		-	-		-	-		-	-	
Total Existing Debt	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Existing Debt Service

G.O. Bond Debt Service

DS - 4d

G.O. Bonds	Series xxxx			Series xxxx			Series xxxx			TOTAL WIFIA		
	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I	Water	Wastewater	Total P&I
Allocation	50.00%	50.00%		50.00%	50.00%		50.00%	50.00%				
Fiscal Year												
2022	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2023	-	-		-	-		-	-		-	-	-
2024	-	-		-	-		-	-		-	-	-
2025	-	-		-	-		-	-		-	-	-
2026	-	-		-	-		-	-		-	-	-
2027	-	-		-	-		-	-		-	-	-
2028	-	-		-	-		-	-		-	-	-
2029	-	-		-	-		-	-		-	-	-
2030	-	-		-	-		-	-		-	-	-
2031	-	-		-	-		-	-		-	-	-
2032	-	-		-	-		-	-		-	-	-
2033	-	-		-	-		-	-		-	-	-
2034	-	-		-	-		-	-		-	-	-
2035	-	-		-	-		-	-		-	-	-
2036	-	-		-	-		-	-		-	-	-
2037	-	-		-	-		-	-		-	-	-
2038	-	-		-	-		-	-		-	-	-
2039	-	-		-	-		-	-		-	-	-
2040	-	-		-	-		-	-		-	-	-
2041	-	-		-	-		-	-		-	-	-
2042	-	-		-	-		-	-		-	-	-
2043	-	-		-	-		-	-		-	-	-
2044	-	-		-	-		-	-		-	-	-
2045	-	-		-	-		-	-		-	-	-
2046	-	-		-	-		-	-		-	-	-
2047	-	-		-	-		-	-		-	-	-
2048	-	-		-	-		-	-		-	-	-
2049	-	-		-	-		-	-		-	-	-
2050	-	-		-	-		-	-		-	-	-
2051	-	-		-	-		-	-		-	-	-
2052	-	-		-	-		-	-		-	-	-
2053	-	-		-	-		-	-		-	-	-
2054	-	-		-	-		-	-		-	-	-
Total Existing Debt	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -			

Proposed Debt Service

Proposed Revenue Bonds

DS - 5

Capital Financing Assumptions	2023	2024	2025	2026	2027	2028
Future Revenue Bonds						
Issuance Amount	$ 338,464,508	$ 460,000,000	$ 485,000,000	$ 555,000,000	$ 480,000,000	$ 700,000,000
Annual Payment	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
Debt Service Reserve Requirement	8,500,000	-	-	-	-	-
Term (yrs)	30	30	30	30	30	30
Interest Rate	4.00%	5.50%	5.50%	6.00%	6.00%	6.00%
Issuance Costs	0.58%	0.61%	0.61%	0.61%	1.00%	1.00%
Month of Sale (July=1)	1	1	1	1	1	1
Capitalized Interest term (yrs)	-	-	-	-	-	-
Interest Only Period (years)	-	-	-	-	-	-
Initial Payment Adjustment (months)	4	4	4	4	4	4
Debt Service Reserve Requirement	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE
Water Allocation	45.80%	45.65%	43.30%	37.84%	39.58%	53.57%
Wastewater Allocation	54.20%	54.35%	56.70%	62.16%	60.42%	46.43%

Proposed Debt Service

Proposed Revenue Bonds

DS - 5

Future Revenue Bonds Schedules	Series 2023	Series 2024	Series 2025	Series 2026	Series 2027	Series 2028
2023	$ 14,299,578					
2024	19,573,436	$ 24,258,573				
2025	19,573,436	31,650,479	$ 25,576,974			
2026	19,573,436	31,650,479	33,370,614	$ 31,260,073		
2027	19,573,436	31,650,479	33,370,614	40,320,146	$ 27,035,739	
2028	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	$ 39,427,119
2029	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2030	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2031	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2032	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2033	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2034	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2035	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2036	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2037	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2038	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2039	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2040	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2041	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2042	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2043	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2044	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2045	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2046	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2047	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2048	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2049	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2050	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2051	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2052	19,573,436	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2053	5,273,858	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2054	-	7,391,906	33,370,614	40,320,146	34,871,478	50,854,238
2055	-	-	7,793,640	40,320,146	34,871,478	50,854,238
2056	-	-	-	9,060,073	34,871,478	50,854,238
Total Proposed Revenue Bonds	**$ 587,203,082**	**$ 949,514,378**	**$ 1,001,118,420**	**$ 1,209,604,376**	**$ 1,038,308,587**	**$ 1,463,345,784**
	$ 587,203,082	**$ 949,514,378**	**$ 1,001,118,420**	**$ 1,209,604,376**	**$ 1,046,144,325**	**$ 1,525,627,141**

Proposed Debt Service

Proposed Revenue Bonds

DS - 5

INPUT	Series 2023	Series 2024	Series 2025	Series 2026	Series 2027	Series 2028
2023	-					
2024	-	21,083,333				
2025	-	31,650,479	22,229,167			
2026	-	31,650,479	33,370,614	27,750,000		
2027	-	31,650,479	33,370,614	40,320,146	24,000,000	
2028	-	31,650,479	33,370,614	40,320,146	34,871,478	35,000,000
2029	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2030	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2031	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2032	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2033	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2034	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2035	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2036	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2037	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2038	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2039	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2040	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2041	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2042	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2043	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2044	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2045	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2046	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2047	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2048	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2049	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2050	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2051	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2052	0	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2053		31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2054		31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2055			33,370,614	40,320,146	34,871,478	50,854,238
2056				40,320,146	34,871,478	50,854,238
2057					34,871,478	50,854,238
2058						50,854,238
2059						
Total Proposed Revenue Bonds	**$ 0**	**$ 970,597,711**	**$ 1,023,347,587**	**$ 1,237,354,376**	**$ 1,070,144,325**	**$ 1,560,627,141**

Proposed Debt Service

Proposed Revenue Bonds

DS - 5

USE	Series 2023	Series 2024	Series 2025	Series 2026	Series 2027	Series 2028
2023	$ -					
2024	-	$ 21,083,333				
2025	-	31,650,479	$ 22,229,167			
2026	-	31,650,479	33,370,614	$ 27,750,000		
2027	-	31,650,479	33,370,614	40,320,146	$ 24,000,000	
2028	-	31,650,479	33,370,614	40,320,146	34,871,478	$ 35,000,000
2029	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2030	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2031	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2032	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2033	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2034	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2035	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2036	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2037	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2038	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2039	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2040	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2041	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2042	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2043	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2044	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2045	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2046	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2047	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2048	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2049	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2050	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2051	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2052	0	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2053	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2054	-	31,650,479	33,370,614	40,320,146	34,871,478	50,854,238
2055	-	-	33,370,614	40,320,146	34,871,478	50,854,238
2056	-	-	-	40,320,146	34,871,478	50,854,238
Total Proposed Revenue Bonds	**$ 0**	**$ 970,597,711**	**$ 1,023,347,587**	**$ 1,237,354,376**	**$ 1,035,272,848**	**$ 1,458,918,665**

Proposed Debt Service

Future State Revolving Fund

DS - 6

	2023	2024	2025	2026	2027	2028
Issuance Amount	$ -	$ -	$ -	$ -	$ -	$ -
Annual Payment	-	-	-	-	-	-
Term (yrs)	20	20	20	20	20	20
Interest Rate	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
Issuance Costs	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Water Allocation	74.15%	69.36%	67.84%	54.97%	59.50%	60.09%
Wastewater Allocation	25.85%	30.64%	32.16%	45.03%	40.50%	39.91%

Proposed Debt Service

Future State Revolving Fund

DS - 6

Future State Revolving Fund Schedules CALCULATED	Series 2023	Series 2024	Series 2025	Series 2026	Series 2027	Series 2028
2023	-	-	-	-	-	-
2024	-	-	-	-	-	-
2025	-	-	-	-	-	-
2026	-	-	-	-	-	-
2027	-	-	-	-	-	-
2028	-	-	-	-	-	-
2029	-	-	-	-	-	-
2030	-	-	-	-	-	-
2031	-	-	-	-	-	-
2032	-	-	-	-	-	-
2033	-	-	-	-	-	-
2034	-	-	-	-	-	-
2035	-	-	-	-	-	-
2036	-	-	-	-	-	-
2037	-	-	-	-	-	-
2038	-	-	-	-	-	-
2039	-	-	-	-	-	-
2040	-	-	-	-	-	-
2041	-	-	-	-	-	-
2042	-	-	-	-	-	-
2043	-	-	-	-	-	-
2044	-	-	-	-	-	-
2045	-	-	-	-	-	-
2046	-	-	-	-	-	-
2047	-	-	-	-	-	-
2048	-	-	-	-	-	-
2049	-	-	-	-	-	-
2050	-	-	-	-	-	-
2051	-	-	-	-	-	-
2052	-	-	-	-	-	-
2053	-	-	-	-	-	-
2054	-	-	-	-	-	-
2055	-	-	-	-	-	-
2056	-	-	-	-	-	-
Total Proposed SRF Loans	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Proposed Debt Service

Future State Revolving Fund

DS - 6

INPUT	Series 2023	Series 2024	Series 2025	Series 2026	Series 2027	Series 2028
2023	304,015					
2024		1,399,780				
2025			5,697,581			
2026				13,089,930		
2027					18,652,040	
2028						21,682,381
2029						
2030						
2031						
2032						
2033						
2034						
2035						-
2036						-
2037						-
2038						-
2039						-
2040						-
2041						-
2042						-
2043						-
2044						-
2045						-
2046						-
2047						-
2048						-
2049						-
2050						-
2051						-
2052						-
2053						-
2054						-
2055						
2056						
Total Proposed SRF Loans	**$ 304,015**	**$ 1,399,780**	**$ 5,697,581**	**$ 13,089,930**	**$ 18,652,040**	**$ 21,682,381**

Proposed Debt Service

Future State Revolving Fund

DS - 6

Future State Revolving Fund Schedules

	2023	2024	2025	2026	2027	2028
2023	$ 304,015					
2024	-	$ 1,399,780				
2025	-	-	$ 5,697,581			
2026	-	-	-	$ 13,089,930		
2027	-	-	-	-	$ 18,652,040	
2028	-	-	-	-	-	$ 21,682,381
2029	-	-	-	-	-	-
2030	-	-	-	-	-	-
2031	-	-	-	-	-	-
2032	-	-	-	-	-	-
2033	-	-	-	-	-	-
2034	-	-	-	-	-	-
2035	-	-	-	-	-	-
2036	-	-	-	-	-	-
2037	-	-	-	-	-	-
2038	-	-	-	-	-	-
2039	-	-	-	-	-	-
2040	-	-	-	-	-	-
2041	-	-	-	-	-	-
2042	-	-	-	-	-	-
2043	-	-	-	-	-	-
2044	-	-	-	-	-	-
2045	-	-	-	-	-	-
2046	-	-	-	-	-	-
2047	-	-	-	-	-	-
2048	-	-	-	-	-	-
2049	-	-	-	-	-	-
2050	-	-	-	-	-	-
2051	-	-	-	-	-	-
2052	-	-	-	-	-	-
2053	-	-	-	-	-	-
2054	-	-	-	-	-	-
2055	-	-	-	-	-	-
2056	-	-	-	-	-	-
Total Proposed SRF Loans	**$ 304,015**	**$ 1,399,780**	**$ 5,697,581**	**$ 13,089,930**	**$ 18,652,040**	**$ 21,682,381**

Proposed Debt Service

Future Commercial Paper

DS - 7

	2023	2024	2025	2026	2027	2028
Issuance Amount	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service Reserve Requirement	-	-	-	-	-	-
Term (yrs)	20	20	20	20	20	20
Interest Rate	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
Issuance Costs	1.00%	0.13%	0.00%	0.00%	0.13%	0.00%
Month of Sale (July=1)	6	6	1	1	1	1
Water Allocation	18.97%	34.91%	41.75%	43.19%	55.27%	100.00%
Wastewater Allocation	81.03%	65.09%	58.25%	56.81%	44.73%	0.00%

Proposed Debt Service

Future Commercial Paper

DS - 7

Future Commercial Paper CALCULATED	Schedules	Series 2023	Series 2024	Series 2025	Series 2026	Series 2027	Series 2028
	2023	-					
	2024	-	-				
	2025		-	-			
	2026			-	-		
	2027				-	-	
	2028					-	-
	2029						-
	2030						
	2031						
	2032						
	2033						
	2034						
	2035						
	2036						
	2037						
	2038						
	2039						
	2040						
	2041						
	2042						
	2043						
	2044						
	2045						
	2046						
	2047						
	2048						
	2049						
	2050						
	2051						
	2052						
	2053						
	2054						
	2055						
	2056						
Total Commercial Paper		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Proposed Debt Service

Future Commercial Paper

DS - 7

INPUT	Series 2023	Series 2024	Series 2025	Series 2026	Series 2027	Series 2028
2023	900,000					
2024		900,000				
2025			900,000			
2026				900,000		
2027					900,000	
2028						900,000
2029						-
2030						-
2031						-
2032						-
2033						-
2034						-
2035						-
2036						-
2037						-
2038						-
2039						-
2040						-
2041						-
2042						-
2043						-
2044						-
2045						-
2046						-
2047						-
2048						-
2049						-
2050						-
2051						-
2052						-
2053						-
2054						-
2055						
2056						
Total Commercial Paper	**$ 900,000**	**$ 900,000**	**$ 900,000**	**$ 900,000**	**$ 900,000**	**$ 900,000**

Proposed Debt Service

Future Commercial Paper

DS - 7

Future Commercial Paper Schedules	Series 2023	Series 2024	Series 2025	Series 2026	Series 2027	Series 2028
2023	$ 900,000					
2024	-	$ 900,000				
2025	-	-	$ 900,000			
2026	-	-	-	$ 900,000		
2027	-	-	-	-	$ 900,000	
2028	-	-	-	-	-	$ 900,000
2029	-	-	-	-	-	-
2030	-	-	-	-	-	-
2031	-	-	-	-	-	-
2032	-	-	-	-	-	-
2033	-	-	-	-	-	-
2034	-	-	-	-	-	-
2035	-	-	-	-	-	-
2036	-	-	-	-	-	-
2037	-	-	-	-	-	-
2038	-	-	-	-	-	-
2039	-	-	-	-	-	-
2040	-	-	-	-	-	-
2041	-	-	-	-	-	-
2042	-	-	-	-	-	-
2043	-	-	-	-	-	-
2044	-	-	-	-	-	-
2045	-	-	-	-	-	-
2046	-	-	-	-	-	-
2047	-	-	-	-	-	-
2048	-	-	-	-	-	-
2049	-	-	-	-	-	-
2050	-	-	-	-	-	-
2051	-	-	-	-	-	-
2052	-	-	-	-	-	-
2053	-	-	-	-	-	-
2054	-	-	-	-	-	-
2055	-	-	-	-	-	-
2056	-	-	-	-	-	-
Total Commercial Paper	**$ 900,000**	**$ 900,000**	**$ 900,000**	**$ 900,000**	**$ 900,000**	**$ 900,000**

Proposed Debt Service

Future WIFIA

DS - 8

	2023	2024	2025	2026	2027	2028
Issuance Amount	$ -	$ 18,401,371	$ 41,729,742	$ 95,854,024	$ 117,060,432	$ 118,372,767
Annual Payment	-	1,354,005	3,070,547	7,053,107	8,613,512	8,710,075
Term (yrs)	20	20	20	20	20	20
Interest Rate	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
Issuance Costs	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Water Allocation	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Wastewater Allocation	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Proposed Debt Service

Future WIFIA

DS - 8

Future WIFIA Schedules	Series 2023	Series 2024	Series 2025	Series 2026	Series 2027	Series 2028
2023	-	-	-	-	-	-
2024	-	-	-	-	-	-
2025	-	1,354,005	-	-	-	-
2026	-	1,354,005	3,070,547	-	-	-
2027	-	1,354,005	3,070,547	7,053,107	-	-
2028	-	1,354,005	3,070,547	7,053,107	8,613,512	-
2029	-	1,354,005	3,070,547	7,053,107	8,613,512	8,710,075
2030	-	1,354,005	3,070,547	7,053,107	8,613,512	8,710,075
2031	-	1,354,005	3,070,547	7,053,107	8,613,512	8,710,075
2032	-	1,354,005	3,070,547	7,053,107	8,613,512	8,710,075
2033	-	1,354,005	3,070,547	7,053,107	8,613,512	8,710,075
2034	-	1,354,005	3,070,547	7,053,107	8,613,512	8,710,075
2035	-	1,354,005	3,070,547	7,053,107	8,613,512	8,710,075
2036	-	1,354,005	3,070,547	7,053,107	8,613,512	8,710,075
2037	-	1,354,005	3,070,547	7,053,107	8,613,512	8,710,075
2038	-	1,354,005	3,070,547	7,053,107	8,613,512	8,710,075
2039	-	1,354,005	3,070,547	7,053,107	8,613,512	8,710,075
2040	-	1,354,005	3,070,547	7,053,107	8,613,512	8,710,075
2041	-	1,354,005	3,070,547	7,053,107	8,613,512	8,710,075
2042	-	1,354,005	3,070,547	7,053,107	8,613,512	8,710,075
2043	-	1,354,005	3,070,547	7,053,107	8,613,512	8,710,075
2044	-	1,354,005	3,070,547	7,053,107	8,613,512	8,710,075
2045	-	-	3,070,547	7,053,107	8,613,512	8,710,075
2046	-	-	-	7,053,107	8,613,512	8,710,075
2047	-	-	-	-	8,613,512	8,710,075
2048	-	-	-	-	-	8,710,075
2049	-	-	-	-	-	-
2050	-	-	-	-	-	-
2051	-	-	-	-	-	-
2052	-	-	-	-	-	-
2053	-	-	-	-	-	-
2054	-	-	-	-	-	-
2055	-	-	-	-	-	-
2056	-	-	-	-	-	-
Total Proposed WIFIA	**$ -**	**$ 27,080,102**	**$ 61,410,950**	**$ 141,062,138**	**$ 172,270,230**	**$ 174,201,508**

Proposed Debt Service

Future WIFIA

DS - 8

INPUT	Series 2023	Series 2024	Series 2025	Series 2026	Series 2027	Series 2028
2023	-					
2024	17,150	-				
2025	242,761	713,242	-			
2026	1,379,791	1,185,523	2,246,204	-		
2027	1,379,791	1,657,804	3,551,818	1,942,118	-	
2028	1,379,791	1,893,945	4,241,897	7,209,372	1,427,992	0
2029	1,379,791	1,893,945	5,349,859	8,980,795	9,429,165	
2030	1,379,791	1,893,945	5,719,180	9,380,977	12,971,053	
2031	1,379,791	1,893,945	5,719,180	9,380,977	17,606,844	
2032	1,379,791	1,893,945	5,719,180	9,380,977	21,426,640	
2033	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	
2034	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	
2035	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	
2036	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	
2037	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	
2038	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	
2039	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	
2040	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	
2041	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	
2042	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	
2043	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	
2044	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	
2045	1,379,791	1,441,771	5,719,180	9,380,977	21,973,592	
2046		1,437,703	4,400,619	9,380,977	21,973,592	
2047		1,433,492	4,388,200	9,380,977	21,973,592	
2048		1,429,133	4,375,347	7,196,589	21,973,592	
2049		1,424,622	4,362,045	7,176,281	16,618,808	
2050		1,419,953	4,348,276	7,155,262	16,571,911	
2051		1,415,121	4,334,026	7,133,507	16,523,372	
2052		1,410,120	4,319,277	7,110,990	16,473,134	
2053		1,404,943	4,304,012	7,087,686	16,421,138	
2054		1,399,586	4,288,212	7,063,566	16,367,323	
2055						
2056						
Total WIFIA	**$ 27,855,725**	**$ 49,970,073**	**$ 146,016,674**	**$ 236,913,754**	**$ 513,414,845**	**$ 0**

Proposed Debt Service

Future WIFIA

DS - 8

Future WIFIA Schedules	Series 2023	Series 2024	Series 2025	Series 2026	Series 2027	Series 2028
2023	$ -					
2024	17,150	$ -				
2025	242,761	713,242	$ -			
2026	1,379,791	1,185,523	2,246,204	$ -		
2027	1,379,791	1,657,804	3,551,818	1,942,118	$ -	
2028	1,379,791	1,893,945	4,241,897	7,209,372	1,427,992	$ 0
2029	1,379,791	1,893,945	5,349,859	8,980,795	9,429,165	-
2030	1,379,791	1,893,945	5,719,180	9,380,977	12,971,053	-
2031	1,379,791	1,893,945	5,719,180	9,380,977	17,606,844	-
2032	1,379,791	1,893,945	5,719,180	9,380,977	21,426,640	-
2033	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	-
2034	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	-
2035	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	-
2036	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	-
2037	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	-
2038	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	-
2039	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	-
2040	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	-
2041	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	-
2042	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	-
2043	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	-
2044	1,379,791	1,893,945	5,719,180	9,380,977	21,973,592	-
2045	1,379,791	1,441,771	5,719,180	9,380,977	21,973,592	-
2046	-	1,437,703	4,400,619	9,380,977	21,973,592	-
2047	-	1,433,492	4,388,200	9,380,977	21,973,592	-
2048	-	1,429,133	4,375,347	7,196,589	21,973,592	-
2049	-	1,424,622	4,362,045	7,176,281	16,618,808	-
2050	-	1,419,953	4,348,276	7,155,262	16,571,911	-
2051	-	1,415,121	4,334,026	7,133,507	16,523,372	-
2052	-	1,410,120	4,319,277	7,110,990	16,473,134	-
2053	-	1,404,943	4,304,012	7,087,686	16,421,138	-
2054	-	1,399,586	4,288,212	7,063,566	16,367,323	-
2055	-	-	-	-	-	-
2056	-	-	-	-	-	-
Total WIFIA	**$ 27,855,725**	**$ 49,970,073**	**$ 146,016,674**	**$ 236,913,754**	**$ 513,414,845**	**$ 0**

Existing & Proposed Debt Service

PWD Debt Service

DS - 9

Debt Service Summary

	2023	2024	2025	2026	2027	2028
Existing Debt Service						
Revenue Bonds	$ 187,747,400	$ 185,846,884	$ 183,089,893	$ 183,088,417	$ 183,090,671	$ 166,318,053
Parity PENNVEST	10,630,939	10,630,939	10,630,939	10,630,939	10,630,939	10,630,939
Commercial Paper	-	-	-	-	-	-
Subtotal Senior Debt	$ 198,378,339	$ 196,477,823	$ 193,720,832	$ 193,719,356	$ 193,721,610	$ 176,948,992
G.O. Bonds	-	-	-	-	-	-
Total Existing Debt Service	$ 198,378,339	$ 196,477,823	$ 193,720,832	$ 193,719,356	$ 193,721,610	$ 176,948,992
Proposed Debt Service						
Revenue Bonds	$ -	$ 21,083,333	$ 53,879,646	$ 92,771,093	$ 129,341,239	$ 175,212,717
Parity PENNVEST	304,015	1,399,780	5,697,581	13,089,930	18,652,040	21,682,381
Commercial Paper	900,000	900,000	900,000	900,000	900,000	900,000
WIFIA	-	17,150	956,004	4,811,518	8,531,531	16,152,996
Subtotal Senior Debt	$ 1,204,015	$ 23,400,263	$ 61,433,231	$ 111,572,541	$ 157,424,810	$ 213,948,094
Future Subordinate Debt						
Total Proposed Debt Service	$ 1,204,015	$ 23,400,263	$ 61,433,231	$ 111,572,541	$ 157,424,810	$ 213,948,094
Total Debt Service	$ 199,582,354	$ 219,878,086	$ 255,154,063	$ 305,291,897	$ 351,146,420	$ 390,897,086

Existing & Proposed Debt Service

PWD Debt Service

DS - 9

Cumulative Revenue Bond Debt Service - Excluding WIFIA

	Existing Debt	Series 2023	Series 2024	Series 2025	Series 2026	Series 2027	Series 2028
2023	$ 198,378,339	$ 199,582,354					
2024	196,477,823	196,477,823	219,860,936				
2025	193,720,832	193,720,832	225,371,312	254,198,059			
2026	193,719,356	193,719,356	225,369,835	258,740,449	300,480,379		
2027	193,721,610	193,721,610	225,372,090	258,742,704	299,062,849	342,614,889	
2028	176,948,992	176,948,992	208,599,471	241,970,085	282,290,231	317,161,709	374,744,090
2029	170,655,542	170,655,542	202,306,022	235,676,636	275,996,781	310,868,259	361,722,497
2030	172,044,851	172,044,851	203,695,330	237,065,944	277,386,090	312,257,567	363,111,805
2031	172,122,798	172,122,798	203,773,277	237,143,891	277,464,037	312,335,515	363,189,753
2032	169,188,521	169,188,521	200,839,000	234,209,614	274,529,760	309,401,237	360,255,475
2033	156,336,145	156,336,145	187,986,624	221,357,238	261,677,384	296,548,862	347,403,100
2034	156,335,811	156,335,811	187,986,291	221,356,905	261,677,051	296,548,528	347,402,766
2035	156,340,919	156,340,919	187,991,399	221,362,013	261,682,158	296,553,636	347,407,874
2036	156,335,766	156,335,766	187,986,245	221,356,859	261,677,005	296,548,483	347,402,721
2037	155,005,484	155,005,484	186,655,964	220,026,578	260,346,723	295,218,201	346,072,439
2038	155,506,614	155,506,614	187,157,093	220,527,707	260,847,853	295,719,330	346,573,568
2039	155,511,319	155,511,319	187,161,798	220,532,412	260,852,558	295,724,036	346,578,274
2040	155,500,206	155,500,206	187,150,686	220,521,300	260,841,446	295,712,923	346,567,161
2041	155,510,963	155,510,963	187,161,442	220,532,056	260,852,202	295,723,680	346,577,918
2042	153,214,142	153,214,142	184,864,621	218,235,235	258,555,381	293,426,859	344,281,097
2043	152,843,048	152,843,048	184,493,528	217,864,142	258,184,288	293,055,765	343,910,003
2044	147,185,587	147,185,587	178,836,067	212,206,680	252,526,826	287,398,304	338,252,542
2045	136,355,642	136,355,642	168,006,121	201,376,735	241,696,881	276,568,359	327,422,597
2046	136,291,971	136,291,971	167,942,450	201,313,064	241,633,210	276,504,687	327,358,925
2047	102,866,119	102,866,119	134,516,598	167,887,212	208,207,358	243,078,835	293,933,073
2048	99,060,763	99,060,763	130,711,242	164,081,856	204,402,002	239,273,479	290,127,717
2049	99,070,294	99,070,294	130,720,773	164,091,387	204,411,533	239,283,010	290,137,248
2050	99,065,269	99,065,269	130,715,748	164,086,362	204,406,508	239,277,985	290,132,223
2051	99,066,269	99,066,269	130,716,748	164,087,362	204,407,508	239,278,985	290,133,223
2052	87,573,013	87,573,013	119,223,492	152,594,106	192,914,252	227,785,729	278,639,967
2053	59,099,675	59,099,675	90,750,154	124,120,768	164,440,914	199,312,392	250,166,630
2054	40,017,500	40,017,500	71,667,979	105,038,593	145,358,739	180,230,217	231,084,455
2055	21,883,750	21,883,750	21,883,750	55,254,364	95,574,510	130,445,987	181,300,225
2056	-	-	-	-	40,320,146	75,191,623	126,045,861
Max	$ 198,378,339	$ 199,582,354	$ 225,372,090	$ 258,742,704	$ 300,480,379	$ 342,614,889	$ 374,744,090
Required DSR Deposit		$ 8,500,000	$ -	$ -	$ -	$ -	$ -
End of Year Evaluation							
Max	$ 198,378,339	$ 196,477,823	$ 225,372,090	$ 258,742,704	$ 299,062,849	$ 317,161,709	$ 363,189,753
Projected DSR Release		$ -	$ -	$ -	$ -	$ -	$ -
Projected Debt Service Reserve		$ 199,327,556	$ 200,423,321	$ 204,721,122	$ 212,113,471	$ 217,675,581	$ 220,705,922

Water System Debt Service

DS - 10

Debt Service Summary

	2023	2024	2025	2026	2027	2028
Existing Debt Service						
Revenue Bonds	$ 66,577,486	$ 72,885,774	$ 71,804,112	$ 71,549,858	$ 71,464,020	$ 67,821,953
Parity PENNVEST	4,353,412	4,353,412	4,353,412	4,353,412	4,353,412	4,353,412
Commercial Paper	-	-	-	-	-	-
Subtotal Senior Debt	$ 70,930,899	$ 77,239,187	$ 76,157,525	$ 75,903,270	$ 75,817,433	$ 72,175,365
G.O. Bonds	-	-	-	-	-	-
Total Existing Debt Service	$ 70,930,899	$ 77,239,187	$ 76,157,525	$ 75,903,270	$ 75,817,433	$ 72,175,365
Proposed Debt Service						
Revenue Bonds	$ -	$ 9,625,000	$ 24,074,132	$ 39,398,264	$ 53,654,535	$ 76,707,828
Parity PENNVEST	225,429	970,866	3,865,078	7,195,619	11,097,817	13,028,936
Commercial Paper	170,773	314,151	375,766	388,683	497,401	900,000
WIFIA	-	17,150	956,004	4,811,518	8,531,531	16,152,996
Subtotal Senior Debt	$ 396,203	$ 10,927,167	$ 29,270,980	$ 51,794,084	$ 73,781,284	$ 106,789,761
Future Subordinate Debt						
Total Debt Service	$ 396,203	$ 10,927,167	$ 29,270,980	$ 51,794,084	$ 73,781,284	$ 106,789,761
Total Debt Service						
Revenue Bonds	$ 66,577,486	$ 82,510,774	$ 95,878,244	$ 110,948,122	$ 125,118,555	$ 144,529,781
Parity PENNVEST	4,578,842	5,324,279	8,218,490	11,549,032	15,451,229	17,382,349
Commercial Paper	170,773	314,151	375,766	388,683	497,401	900,000
WIFIA	-	17,150	956,004	4,811,518	8,531,531	16,152,996
Subtotal Senior Debt	$ 71,327,101	$ 88,166,354	$ 105,428,505	$ 127,697,354	$ 149,598,717	$ 178,965,126
GO Bonds	-	-	-	-	-	-
Transfer to Escrow	-	-	-	-	-	-
Total Debt Service	$ 71,327,101	$ 88,166,354	$ 105,428,505	$ 127,697,354	$ 149,598,717	$ 178,965,126

Water System Debt Service

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Cumulative Revenue Bond Debt Service

	Existing Debt	Series 2023	Series 2024	Series 2025	Series 2026	Series 2027	Series 2028
2023	$ 70,930,899	$ 71,327,101					
2024	77,239,187	77,239,187	88,149,204				
2025	76,157,525	76,157,525	90,606,657	104,472,501			
2026	75,903,270	75,903,270	90,352,402	104,801,534	122,885,836		
2027	75,817,433	75,817,433	90,266,564	104,715,696	119,971,968	141,067,186	
2028	72,175,365	72,175,365	86,624,497	101,073,629	116,329,901	130,133,194	162,812,130
2029	62,413,552	62,413,552	76,862,684	91,311,816	106,568,087	120,371,381	147,614,722
2030	67,649,376	67,649,376	82,098,508	96,547,640	111,803,911	125,607,205	152,850,546
2031	67,590,556	67,590,556	82,039,688	96,488,820	111,745,091	125,548,384	152,791,726
2032	67,393,313	67,393,313	81,842,445	96,291,577	111,547,848	125,351,141	152,594,483
2033	63,050,625	63,050,625	77,499,756	91,948,888	107,205,160	121,008,453	148,251,795
2034	63,003,027	63,003,027	77,452,159	91,901,291	107,157,562	120,960,855	148,204,197
2035	63,098,857	63,098,857	77,547,989	91,997,121	107,253,392	121,056,685	148,300,027
2036	63,172,228	63,172,228	77,621,360	92,070,492	107,326,763	121,130,057	148,373,398
2037	63,973,526	63,973,526	78,422,658	92,871,790	108,128,061	121,931,355	149,174,696
2038	64,169,360	64,169,360	78,618,492	93,067,624	108,323,895	122,127,188	149,370,530
2039	64,169,602	64,169,602	78,618,734	93,067,866	108,324,137	122,127,430	149,370,772
2040	64,164,496	64,164,496	78,613,627	93,062,759	108,319,031	122,122,324	149,365,666
2041	64,548,180	64,548,180	78,997,312	93,446,443	108,702,715	122,506,008	149,749,350
2042	69,141,831	69,141,831	83,590,963	98,040,095	113,296,366	127,099,660	154,343,001
2043	68,874,770	68,874,770	83,323,902	97,773,034	113,029,305	126,832,599	154,075,940
2044	65,856,348	65,856,348	80,305,480	94,754,612	110,010,883	123,814,176	151,057,518
2045	61,614,327	61,614,327	76,063,459	90,512,590	105,768,862	119,572,155	146,815,497
2046	61,584,630	61,584,630	76,033,761	90,482,893	105,739,165	119,542,458	146,785,800
2047	48,619,566	48,619,566	63,068,698	77,517,830	92,774,102	106,577,395	133,820,737
2048	46,876,036	46,876,036	61,325,168	75,774,300	91,030,572	104,833,865	132,077,207
2049	46,881,086	46,881,086	61,330,217	75,779,349	91,035,621	104,838,914	132,082,256
2050	46,879,078	46,879,078	61,328,210	75,777,342	91,033,613	104,836,906	132,080,248
2051	46,879,623	46,879,623	61,328,755	75,777,887	91,034,158	104,837,451	132,080,793
2052	41,697,323	41,697,323	56,146,455	70,595,587	85,851,858	99,655,152	126,898,493
2053	25,125,262	25,125,262	39,574,394	54,023,526	69,279,797	83,083,090	110,326,432
2054	17,216,278	17,216,278	31,665,410	46,114,541	61,370,813	75,174,106	102,417,448
2055	9,015,849	9,015,849	9,015,849	23,464,981	38,721,252	52,524,545	79,767,887
2056	-	-	-	-	15,256,271	29,059,565	56,302,906
Max	$ 77,239,187	$ 77,239,187	$ 90,606,657	$ 104,801,534	$ 122,885,836	$ 141,067,186	$ 162,812,130
Required DSR Deposit		$ 3,892,579	$ -	$ -	$ -	$ -	$ -

Wastewater System Debt Service

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Debt Service Summary

	2023	2024	2025	2026	2027	2028
Existing Debt Service						
Revenue Bonds	$ 121,169,914	$ 112,961,110	$ 111,285,781	$ 111,538,559	$ 111,626,651	$ 98,496,100
Parity PENNVEST	6,277,527	6,277,527	6,277,527	6,277,527	6,277,527	6,277,527
Commercial Paper	-	-	-	-	-	-
Subtotal Senior Debt	$ 127,447,441	$ 119,238,636	$ 117,563,308	$ 117,816,086	$ 117,904,178	$ 104,773,627
G.O. Bonds	-	-	-	-	-	-
Total Existing Debt Service	$ 127,447,441	$ 119,238,636	$ 117,563,308	$ 117,816,086	$ 117,904,178	$ 104,773,627
Proposed Debt Service						
Revenue Bonds	$ -	$ 11,458,333	$ 29,805,514	$ 53,372,830	$ 75,686,704	$ 98,504,888
Parity PENNVEST	78,586	428,914	1,832,503	5,894,310	7,554,223	8,653,445
Commercial Paper	729,227	585,849	524,234	511,317	402,599	-
WIFIA	-	-	-	-	-	-
Subtotal Senior Debt	$ 807,812	$ 12,473,096	$ 32,162,250	$ 59,778,457	$ 83,643,526	$ 107,158,333
Future Subordinate Debt						
Total Proposed Debt Service	$ 807,812	$ 12,473,096	$ 32,162,250	$ 59,778,457	$ 83,643,526	$ 107,158,333
Total Debt Service						
Revenue Bonds	$ 121,169,914	$ 124,419,443	$ 141,091,295	$ 164,911,388	$ 187,313,355	$ 197,000,988
Parity PENNVEST	6,356,112	6,706,440	8,110,029	12,171,837	13,831,749	14,930,971
Commercial Paper	729,227	585,849	524,234	511,317	402,599	-
WIFIA	-	-	-	-	-	-
Subtotal Senior Debt	$ 128,255,253	$ 131,711,732	$ 149,725,558	$ 177,594,542	$ 201,547,703	$ 211,931,960
GO Bonds	-	-	-	-	-	-
Transfer to Escrow	-	-	-	-	-	-
Total Debt Service	$ 128,255,253	$ 131,711,732	$ 149,725,558	$ 177,594,542	$ 201,547,703	$ 211,931,960

Wastewater System Debt Service

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Cumulative Revenue Bond Debt Service

	Existing Debt	Series 2023	Series 2024	Series 2025	Series 2026	Series 2027	Series 2028
2023	127,447,441	128,255,253					
2024	119,238,636	119,238,636	131,711,732				
2025	117,563,308	117,563,308	134,764,655	149,725,558			
2026	117,816,086	117,816,086	135,017,433	153,938,915	177,594,542		
2027	117,904,178	117,904,178	135,105,525	154,027,007	179,090,882	201,547,703	
2028	104,773,627	104,773,627	121,974,974	140,896,456	165,960,331	187,028,515	211,931,960
2029	108,241,990	108,241,990	125,443,337	144,364,820	169,428,694	190,496,878	214,107,775
2030	104,395,474	104,395,474	121,596,822	140,518,304	165,582,178	186,650,363	210,261,259
2031	104,532,242	104,532,242	121,733,589	140,655,072	165,718,946	186,787,130	210,398,027
2032	101,795,208	101,795,208	118,996,555	137,918,037	162,981,912	184,050,096	207,660,992
2033	93,285,521	93,285,521	110,486,868	129,408,350	154,472,225	175,540,409	199,151,305
2034	93,332,785	93,332,785	110,534,132	129,455,614	154,519,489	175,587,673	199,198,569
2035	93,242,062	93,242,062	110,443,410	129,364,892	154,428,766	175,496,951	199,107,847
2036	93,163,538	93,163,538	110,364,885	129,286,367	154,350,242	175,418,426	199,029,323
2037	91,031,958	91,031,958	108,233,305	127,154,787	152,218,662	173,286,846	196,897,743
2038	91,337,254	91,337,254	108,538,601	127,460,083	152,523,958	173,592,142	197,203,038
2039	91,341,717	91,341,717	108,543,064	127,464,546	152,528,421	173,596,605	197,207,501
2040	91,335,711	91,335,711	108,537,058	127,458,540	152,522,415	173,590,599	197,201,495
2041	90,962,783	90,962,783	108,164,131	127,085,613	152,149,487	173,217,672	196,828,568
2042	84,072,311	84,072,311	101,273,658	120,195,140	145,259,015	166,327,199	189,938,095
2043	83,968,278	83,968,278	101,169,625	120,091,108	145,154,982	166,223,166	189,834,063
2044	81,329,239	81,329,239	98,530,587	117,452,069	142,515,943	163,584,128	187,195,024
2045	74,741,315	74,741,315	91,942,663	110,864,145	135,928,019	156,996,204	180,607,100
2046	74,707,341	74,707,341	91,908,688	110,830,171	135,894,045	156,962,229	180,573,126
2047	54,246,552	54,246,552	71,447,900	90,369,382	115,433,256	136,501,441	160,112,337
2048	52,184,726	52,184,726	69,386,073	88,307,556	113,371,430	134,439,614	158,050,511
2049	52,189,208	52,189,208	69,390,555	88,312,037	113,375,912	134,444,096	158,054,992
2050	52,186,190	52,186,190	69,387,538	88,309,020	113,372,894	134,441,079	158,051,975
2051	52,186,646	52,186,646	69,387,993	88,309,475	113,373,350	134,441,534	158,052,430
2052	45,875,689	45,875,689	63,077,037	81,998,519	107,062,393	128,130,578	151,741,474
2053	41,883,397	41,883,397	59,084,745	78,006,227	103,070,101	124,138,286	147,749,182
2054	31,001,651	31,001,651	62,652,130	81,573,613	106,637,487	127,705,671	151,316,568
2055	21,883,750	21,883,750	21,883,750	55,254,364	80,318,238	101,386,423	124,997,319
2056	-	-	-	-	40,320,146	75,191,623	126,045,861
Max	$ 127,447,441	$ 128,255,253	$ 135,105,525	$ 154,027,007	$ 179,090,882	$ 201,547,703	$ 214,107,775
Required DSR Deposit		$ 4,607,421	$ -	$ -	$ -	$ -	$ -

Combined System Debt Service

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Debt Service Summary

	2023	2024	2025	2026	2027	2028
Existing Debt Service						
Revenue Bonds	$ 187,747,400	$ 185,846,884	$ 183,089,893	$ 183,088,417	$ 183,090,671	$ 166,318,053
Parity PENNVEST	10,630,939	10,630,939	10,630,939	10,630,939	10,630,939	10,630,939
Commercial Paper	-	-	-	-	-	-
Subtotal Senior Debt	$ 198,378,339	$ 196,477,823	$ 193,720,832	$ 193,719,356	$ 193,721,610	$ 176,948,992
G.O. Bonds	-	-	-	-	-	-
Total Existing Debt Service	$ 198,378,339	$ 196,477,823	$ 193,720,832	$ 193,719,356	$ 193,721,610	$ 176,948,992
Proposed Debt Service						
Revenue Bonds	$ -	$ 21,083,333	$ 53,879,646	$ 92,771,093	$ 129,341,239	$ 175,212,717
Parity PENNVEST	304,015	1,399,780	5,697,581	13,089,930	18,652,040	21,682,381
Commercial Paper	900,000	900,000	900,000	900,000	900,000	900,000
WIFIA	-	17,150	956,004	4,811,518	8,531,531	16,152,996
Subtotal Senior Debt	$ 1,204,015	$ 23,400,263	$ 61,433,231	$ 111,572,541	$ 157,424,810	$ 213,948,094
Future Subordinate Debt						
Total Proposed Debt Service	$ 1,204,015	$ 23,400,263	$ 61,433,231	$ 111,572,541	$ 157,424,810	$ 213,948,094
Total Debt Service						
Revenue Bonds	$ 187,747,400	$ 206,930,217	$ 236,969,539	$ 275,859,510	$ 312,431,910	$ 341,530,770
Parity PENNVEST	10,934,954	12,030,719	16,328,520	23,720,868	29,282,979	32,313,320
Commercial Paper	900,000	900,000	900,000	900,000	900,000	900,000
WIFIA	-	17,150	956,004	4,811,518	8,531,531	16,152,996
Subtotal Senior Debt	$ 199,582,354	$ 219,878,086	$ 255,154,063	$ 305,291,897	$ 351,146,420	$ 390,897,086
G.O. Bonds	-	17,150	956,004	4,811,518	8,531,531	16,152,996
Transfer to Escrow	-	-	-	-	-	-
Total Debt Service	$ 199,582,354	$ 219,878,086	$ 255,154,063	$ 305,291,897	$ 351,146,420	$ 390,897,086
Total Senior Debt Service						
Water	35.7%	40.1%	41.3%	41.8%	42.6%	45.8%
Sewer	64.3%	59.9%	58.7%	58.2%	57.4%	54.2%

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FUNDS

Index	Description	Table
Funds	**Funds Worksheet**	
Funds - 1	Combined System Funds	Schedule BV-1: Table C-8 Schedule BV-2: Table 2-1, Table 2-8
Funds - 2	Water System Fund Balances	Schedule BV-2: Table 3-8 and Table 3-12
Funds - 3	Wastewater System Fund Balances	Schedule BV-2: Table 6-19

Description		2023	2024	2025	2026	2027	2028
Combined System Funds							Funds - 1
Disposition of Revenue Bond Proceeds							
Revenue Bond Issuance Amount		$ 338,464,508	$ 460,000,000	$ 485,000,000	$ 555,000,000	$ 480,000,000	$ 700,000,000
Less:							
Revenue Bond Issuance Expense		1,964,508	2,806,000	2,958,500	3,385,500	4,800,000	7,000,000
Revenue Bond Debt Service Reserve Requirement		8,500,000	-	-	-	-	-
Refund Outstanding Commercial Paper		-	-	-	-	-	-
Net Revenue Bond Proceeds		$ 328,000,000	$ 457,194,000	$ 482,041,500	$ 551,614,500	$ 475,200,000	$ 693,000,000
Disposition of Commercial Paper Proceeds							
Commercial Paper Issuance Amount		$ -	$ -	$ -	$ -	$ -	$ -
Less:							
Issuance Expense		-	-	-	-	-	-
Debt Service Reserve Requirement		-	-	-	-	-	-
Net Commercial Paper Proceeds		$ -	$ -	$ -	$ -	$ -	$ -
Disposition of PENNVEST Proceeds							
PENNVEST Issuance Amount		$ -	$ -	$ -	$ -	$ -	$ -
Less:							
PENNVEST Issuance Expense		-	-	-	-	-	-
Net PENNVEST Proceeds		$ -	$ -	$ -	$ -	$ -	$ -
Disposition of WIFIA Proceeds							
WIFIA Issuance Amount		$ -	$ 18,401,371	$ 41,729,742	$ 95,854,024	$ 117,060,432	$ 118,372,767
Less:							
WIFIA Issuance Expense		-	-	-	-	-	-
Net WIFIA Proceeds		$ -	$ 18,401,371	$ 41,729,742	$ 95,854,024	$ 117,060,432	$ 118,372,767
Projected Flow of Funds - Construction Fund							
Construction Funds Available							
Beginning Balance		$ 523,680,167	$ 614,573,191	$ 720,294,213	$ 783,571,023	$ 841,573,967	$ 802,171,189
Transfer from Revenue Bond Proceeds		328,000,000	457,194,000	482,041,500	551,614,500	475,200,000	693,000,000
PENNVest Loan Proceeds		-	-	-	-	-	-
Commercial Paper Proceeds		-	-	-	-	-	-
WIFIA Proceeds		-	18,401,371	41,729,742	95,854,024	117,060,432	118,372,767
Non-City Sources	PENNVEST	54,873,984	83,353,601	78,437,732	75,465,369	51,373,078	30,493,067
Grants							
Transfer from Residual Fund (Cash Financing)		16,600,000	29,800,000	34,400,000	58,150,000	72,800,000	86,100,000
Capital Account Deposit		23,382,591	24,294,512	25,241,998	26,226,436	27,249,267	28,311,988
Interest		5,662,952	6,641,131	7,481,917	8,085,298	8,177,837	8,475,512
Total Funds Available		$ 952,199,693	$ 1,234,257,806	$ 1,389,627,102	$ 1,598,966,650	$ 1,593,434,581	$ 1,766,924,523
Construction Funds Used							
Capital Improvements		$ 337,626,503	$ 513,963,593	$ 606,056,078	$ 757,392,683	$ 791,263,391	$ 865,517,845

Description	2023	2024	2025	2026	2027	2028
Combined System Funds						Funds - 1
Total Funds Utilized	$ 337,626,503	$ 513,963,593	$ 606,056,078	$ 757,392,683	$ 791,263,391	$ 865,517,845
Ending Balance	**$ 614,573,191**	**$ 720,294,213**	**$ 783,571,023**	**$ 841,573,967**	**$ 802,171,189**	**$ 901,406,677**
Balance Target						
EOY Net Project Encumbrances/Commitments	$ 547,137,159	$ 808,677,836	$ 971,521,387	$ 938,976,663	$ 931,581,073	$ 1,016,907,408
Project Encumbrances/Commitments Prior to Bond Issue	129,250,712	128,149,938	120,807,993	130,644,634	158,474,030	134,145,523
Calculated Balance Target	**$ 676,387,870**	**$ 936,827,774**	**$ 1,092,329,380**	**$ 1,069,621,297**	**$ 1,090,055,103**	**$ 1,151,052,932**
Annual Balance Target						
Current Year Funding Sources	$ 428,519,527	$ 619,684,615	$ 669,332,889	$ 815,395,627	$ 751,860,614	$ 964,753,333
Project Encumbrances/Commitments	(430,095,058)	(775,504,270)	(768,899,630)	(724,847,959)	(783,867,802)	(950,844,180)
Balance	**$ (1,575,531)**	**$ (155,819,655)**	**$ (99,566,741)**	**$ 90,547,668**	**$ (32,007,188)**	**$ 13,909,153**
Interest Income	$ 5,662,952	$ 6,641,131	$ 7,481,917	$ 8,085,298	$ 8,177,837	$ 8,475,512
Projected Flow of Funds - Rate Stabilization						
Rate Stabilization Funds Available						
Beginning Balance	$ 138,989,109	$ 133,989,109	$ 133,889,109	$ 133,289,109	$ 138,689,109	$ 145,989,109
Deposit From (to) Operating Fund	(5,000,000)	(100,000)	(600,000)	5,400,000	7,300,000	7,500,000
Ending Balance	**$ 133,989,109**	**$ 133,889,109**	**$ 133,289,109**	**$ 138,689,109**	**$ 145,989,109**	**$ 153,489,109**
Interest Income	$ 1,364,891	$ 1,339,391	$ 1,335,891	$ 1,359,891	$ 1,423,391	$ 1,497,391
Projected Flow of Funds - Debt Service Reserve						
Debt Service Reserve Funds Available						
Beginning Balance	$ 189,722,989	$ 199,327,556	$ 200,423,321	$ 204,721,122	$ 212,113,471	$ 217,675,581
Transfer From Bond Proceeds	8,500,000	-	-	-	-	-
Transfer From Residual Fund	1,104,567	1,095,765	4,297,801	7,392,349	5,562,110	3,030,341
Debt Service Fund Release	-	-	-	-	-	-
Ending Balance	**$ 199,327,556**	**$ 200,423,321**	**$ 204,721,122**	**$ 212,113,471**	**$ 217,675,581**	**$ 220,705,922**
Interest Income	$ 1,945,253	$ 1,998,754	$ 2,025,722	$ 2,084,173	$ 2,148,945	$ 2,191,908

Description	2023	2024	2025	2026	2027	2028
Combined System Funds						Funds - 1
Projected Flow of Funds - Revenue Fund						
Revenue Funds Available						
Beginning Balance	$ 171,414,783	$ 171,414,783	$ 171,414,783	$ 171,414,783	$ 171,414,783	$ 171,414,783
Existing Service Charge Revenues	766,330,280	772,730,602	777,676,958	782,294,864	781,217,728	770,587,081
Additional Service Charge Revenues	-	80,411,788	162,130,509	276,833,942	369,346,371	464,503,644
Other Operating Revenue	29,600,854	29,664,114	29,713,195	29,770,871	29,745,953	29,720,332
Interest Earnings	1,881,947	1,982,070	2,023,415	2,192,288	2,270,730	2,330,509
Construction Fund Interest Earnings	-	-	-	-	-	-
Debt Service Reserve Interest Earnings (above SCOOP)	-	-	-	-	-	-
Rate Stabilization Fund Interest Earnings	1,364,891	1,339,391	1,335,891	1,359,891	1,423,391	1,497,391
Transfer from Rate Stabilization Fund	5,000,000	100,000	600,000	-	-	-
Total Funds Available	$ 975,592,755	$ 1,057,642,748	$ 1,144,894,751	$ 1,263,866,638	$ 1,355,418,957	$ 1,440,053,739
Revenue Funds Used						
Total Operating Expense	564,670,864	611,325,985	654,536,625	690,172,083	720,117,940	752,972,269
Total Senior Debt Service	199,582,354	219,878,086	255,154,063	305,291,897	351,146,420	390,897,086
Total Subordinate Debt Service	-	-	-	-	-	-
Transfer to Escrow	-	-	-	-	-	-
Capital Account Deposit	23,382,591	24,294,512	25,241,998	26,226,436	27,249,267	28,311,988
Transfer to Rate Stabilization Fund	-	-	-	5,400,000	7,300,000	7,500,000
Transfer to Residual Fund	16,542,163	30,729,383	38,547,283	65,361,440	78,190,547	88,957,613
Total Funds Utilized	$ 804,177,972	$ 886,227,965	$ 973,479,968	$ 1,092,451,855	$ 1,184,004,174	$ 1,268,638,956
Ending Balance	$ 171,414,783	$ 171,414,783	$ 171,414,783	$ 171,414,783	$ 171,414,783	$ 171,414,783
Projected Flow of Funds - Residual Fund						
Operating Funds Available						
Beginning Balance	$ 16,102,406	$ 15,095,214	$ 15,078,952	$ 15,078,470	$ 15,047,442	$ 15,025,495
Transfer from Revenue Fund	16,542,163	30,729,383	38,547,283	65,361,440	78,190,547	88,957,613
Interest on Debt Service Reserve to fund Transfer to General Fund	1,945,253	1,998,754	2,025,722	2,084,173	2,148,945	2,191,908
Transfer to Debt Service Reserve	(1,104,567)	(1,095,765)	(4,297,801)	(7,392,349)	(5,562,110)	(3,030,341)
Transfer to Construction Fund	(16,600,000)	(29,800,000)	(34,400,000)	(58,150,000)	(72,800,000)	(86,100,000)
Transfer To General Fund	(1,945,253)	(1,998,754)	(2,025,722)	(2,084,173)	(2,148,945)	(2,191,908)
Ending Balance (prior to interest)	$ 14,940,002	$ 14,928,832	$ 14,928,434	$ 14,897,562	$ 14,875,879	$ 14,852,767
Interest Income	155,212	150,120	150,037	149,880	149,617	149,391
Ending Balance	**$ 15,095,214**	**$ 15,078,952**	**$ 15,078,470**	**$ 15,047,442**	**$ 15,025,495**	**$ 15,002,158**

Description		2023	2024	2025	2026	2027	2028
Water System Fund Balances							Funds - 2
Disposition of Revenue Bond Proceeds							
Revenue Bond Issuance Amount		$ 155,000,000	$ 210,000,000	$ 210,000,000	$ 210,000,000	$ 190,000,000	$ 375,000,000
Less:							
Revenue Bond Issuance Expense		899,647	1,281,000	1,281,000	1,281,000	1,900,000	3,750,000
Revenue Bond Debt Service Reserve Requirement		3,892,579	-	-	-	-	-
Refund Outstanding Commercial Paper			-	-	-	-	-
Net Revenue Bond Proceeds		$ 150,207,773	$ 208,719,000	$ 208,719,000	$ 208,719,000	$ 188,100,000	$ 371,250,000
Disposition of Commercial Paper Proceeds							
Commercial Paper Issuance Amount		$ -	$ -	$ -	$ -	$ -	$ -
Less:							
Issuance Expense		-	-	-	-	-	-
Debt Service Reserve Requirement		-	-	-	-	-	-
Net Commercial Paper Proceeds		$ -	$ -	$ -	$ -	$ -	$ -
Disposition of PENNVEST Proceeds							
PENNVEST Issuance Amount		$ -	$ -	$ -	$ -	$ -	$ -
Less:							
PENNVEST Issuance Expense		-	-	-	-	-	-
Net PENNVEST Proceeds		$ -	$ -	$ -	$ -	$ -	$ -
Disposition of WIFIAI Proceeds							
WIFIA Issuance Amount		$ -	$ 18,401,371	$ 41,729,742	$ 95,854,024	$ 117,060,432	$ 118,372,767
Less:							
WIFIA Issuance Expense		-	-	-	-	-	-
Net WIFIA Proceeds		$ -	$ 18,401,371	$ 41,729,742	$ 95,854,024	$ 117,060,432	$ 118,372,767
Projected Flow of Funds - Construction Fund							
Construction Funds Available							
Beginning Balance		$ 169,139,635	$ 225,505,078	$ 223,797,465	$ 195,078,043	$ 283,244,075	$ 250,597,464
Transfer from Revenue Bond Proceeds		150,207,773	208,719,000	208,719,000	208,719,000	188,100,000	371,250,000
PENNVest Loan Proceeds		-	-	-	-	-	-
Commercial Paper Proceeds		-	-	-	-	-	-
WIFIA Proceeds		-	18,401,371	41,729,742	95,854,024	117,060,432	118,372,767
Non-City Sources	PENNVEST	26,647,275	47,625,354	47,625,354	47,625,354	30,493,067	30,493,067
Grants							
Transfer from Residual Fund (Cash Financing)		5,200,000	12,000,000	13,800,000	24,900,000	30,500,000	40,800,000
Capital Account Deposit		9,072,445	9,426,271	9,793,895	10,175,857	10,572,715	10,985,051
Interest		1,963,407	2,235,336	2,083,958	2,379,712	2,655,928	2,744,938
Total Funds Available		$ 362,230,535	$ 523,912,410	$ 547,549,414	$ 584,731,990	$ 662,626,217	$ 825,243,287

Description	2023	2024	2025	2026	2027	2028
Water System Fund Balances						Funds - 2
Construction Funds Used						
Capital Improvements	$ 136,725,457	$ 300,114,945	$ 352,471,371	$ 301,487,915	$ 412,028,754	$ 524,108,229
Total Funds Utilized	$ 136,725,457	$ 300,114,945	$ 352,471,371	$ 301,487,915	$ 412,028,754	$ 524,108,229
Ending Balance	**$ 225,505,078**	**$ 223,797,465**	**$ 195,078,043**	**$ 283,244,075**	**$ 250,597,464**	**$ 301,135,058**
Balance Target						
EOY Net Project Encumbrances/Commitments	$ 219,313,570	$ 372,033,076	$ 466,739,971	$ 453,785,210	$ 449,934,160	$ 501,602,920
Project Encumbrances/Commitments Prior to Bond Issue	75,472,408	74,529,711	48,088,859	68,029,617	95,962,832	61,575,980
Calculated Balance Target **$ -**	**$ 294,785,979**	**$ 446,562,787**	**$ 514,828,830**	**$ 521,814,828**	**$ 545,896,991**	**$ 563,178,900**
Annual Balance Target						
Funding Sources	$ 193,090,900	$ 298,407,332	$ 323,751,949	$ 389,653,947	$ 379,382,143	$ 574,645,823
Project Encumbrances/Commitments	(174,171,586)	(452,834,450)	(447,178,267)	(288,533,154)	(408,177,703)	(575,776,989)
Annual Balance	**$ 18,919,314**	**$ (154,427,118)**	**$ (123,426,318)**	**$ 101,120,793**	**$ (28,795,560)**	**$ (1,131,166)**
Calculated Interest Income						
Ending Balance (Excluding Interest)	$ 223,541,671	$ 221,562,129	$ 192,994,085	$ 280,864,363	$ 247,941,536	$ 298,390,120
Calculated Interest Income	$ 1,963,407	$ 2,235,336	$ 2,083,958	$ 2,379,712	$ 2,655,928	$ 2,744,938
Projected Flow of Funds - Rate Stabilization						
Rate Stabilization Funds Available						
Beginning Balance	$ 55,595,644	$ 54,885,644	$ 54,820,644	$ 54,596,144	$ 56,756,144	$ 59,676,144
Deposit From (to) Operating Fund	(710,000)	(65,000)	(224,500)	2,160,000	2,920,000	3,000,000
Ending Balance	**$ 54,885,644**	**$ 54,820,644**	**$ 54,596,144**	**$ 56,756,144**	**$ 59,676,144**	**$ 62,676,144**
Interest Income	$ 552,406	$ 548,531	$ 547,084	$ 556,761	$ 582,161	$ 611,761
Projected Flow of Funds - Debt Service Reserve						
Debt Service Reserve Funds Available						
Beginning Balance	$ 71,592,607	$ 75,936,207	$ 76,562,638	$ 79,359,623	$ 82,672,830	$ 86,570,910
Transfer From Bond Proceeds	3,892,579	-	-	-	-	-
Transfer From Residual Fund	451,020	626,431	2,796,985	3,313,207	3,898,080	1,929,556
Debt Service Reserve Fund Release	-	-	-	-	-	-
Ending Balance	**$ 75,936,207**	**$ 76,562,638**	**$ 79,359,623**	**$ 82,672,830**	**$ 86,570,910**	**$ 88,500,466**
Interest Income	$ 737,644	$ 762,494	$ 779,611	$ 810,162	$ 846,219	$ 875,357

Description	2023	2024	2025	2026	2027	2028
Water System Fund Balances						Funds - 2
Projected Flow of Funds - Revenue Fund						
Revenue Funds Available						
Beginning Balance	$ 68,565,913	$ 68,565,913	$ 68,565,913	$ 68,565,913	$ 68,565,913	$ 68,565,913
Existing Service Charge Revenues	294,038,111	296,093,321	298,680,292	301,466,088	301,071,165	300,327,867
Additional Service Charge Revenues	-	45,683,834	82,542,316	129,130,361	171,519,980	224,074,446
Other Operating Revenue	13,557,968	13,553,540	13,583,570	13,617,426	13,606,522	13,595,618
Interest Earnings	750,680	792,804	813,588	885,221	921,746	966,048
Construction Fund Interest Earnings	-	-	-	-	-	-
Debt Service Reserve Interest Earnings (above SCOOP)	-	-	-	-	-	-
Rate Stabilization Fund Interest Earnings	552,406	548,531	547,084	556,761	582,161	611,761
Transfer from Rate Stabilization Fund	710,000	65,000	224,500	-	-	-
Total Funds Available	$ 378,175,079	$ 425,302,944	$ 464,957,264	$ 514,221,771	$ 556,267,488	$ 608,141,654
Revenue Funds Used						
Total Operating Expense	224,015,564	246,528,166	264,605,444	277,489,293	290,303,243	303,921,077
Total Senior Debt Service	71,327,101	88,166,354	105,428,505	127,697,354	149,598,717	178,965,126
Total Subordinate Debt Service	-	-	-	-	-	-
Transfer to Escrow	-	-	-	-	-	-
Capital Account Deposit	9,072,445	9,426,271	9,793,895	10,175,857	10,572,715	10,985,051
Transfer to Rate Stabilization Fund	-	-	-	2,160,000	2,920,000	3,000,000
Transfer to Residual Fund	5,194,055	12,616,241	16,563,507	28,133,353	34,306,900	42,704,487
Total Funds Utilized	$ 309,609,165	$ 356,737,031	$ 396,391,351	$ 445,655,858	$ 487,701,575	$ 539,575,741
Ending Balance	$ 68,565,913	$ 68,565,913	$ 68,565,913	$ 68,565,913	$ 68,565,913	$ 68,565,913
Projected Flow of Funds - Residual Fund						
Operating Funds Available						
Beginning Balance	$ 6,440,962	$ 6,046,122	$ 6,096,342	$ 6,123,659	$ 6,104,643	$ 6,074,053
Transfer from Revenue Fund	5,194,055	12,616,241	16,563,507	28,133,353	34,306,900	42,704,487
Debt Service Reserve Interest to fund Transfer to General Fund	737,644	762,494	779,611	810,162	846,219	875,357
Transfer to Debt Service Reserve	(451,020)	(626,431)	(2,796,985)	(3,313,207)	(3,898,080)	(1,929,556)
Transfer to Construction Fund	(5,200,000)	(12,000,000)	(13,800,000)	(24,900,000)	(30,500,000)	(40,800,000)
Transfer to General Fund	(737,644)	(762,494)	(779,611)	(810,162)	(846,219)	(875,357)
Ending Balance (prior to interest)	$ 5,983,997	$ 6,035,931	$ 6,062,863	$ 6,043,806	$ 6,013,463	$ 6,048,984
Interest Income	62,125	60,410	60,796	60,837	60,591	60,615
Ending Balance	**$ 6,046,122**	**$ 6,096,342**	**$ 6,123,659**	**$ 6,104,643**	**$ 6,074,053**	**$ 6,109,599**

Description		2023	2024	2025	2026	2027	2028
Wastewater System Fund Balances							Funds - 3
Disposition of Revenue Bond Proceeds							
Revenue Bond Issuance Amount		$ 183,464,508	$ 250,000,000	$ 275,000,000	$ 345,000,000	$ 290,000,000	$ 325,000,000
Less:							
Revenue Bond Issuance Expense		1,064,861	1,525,000	1,677,500	2,104,500	2,900,000	3,250,000
Revenue Bond Debt Service Reserve Requirement		4,607,421	-	-	-	-	-
Refund Outstanding Commercial Paper		-	-	-	-	-	-
Net Revenue Bond Proceeds		$ 177,792,227	$ 248,475,000	$ 273,322,500	$ 342,895,500	$ 287,100,000	$ 321,750,000
Disposition of Commercial Paper Proceeds							
Commercial Paper Issuance Amount		$ -	$ -	$ -	$ -	$ -	$ -
Less:							
Issuance Expense		-	-	-	-	-	-
Debt Service Reserve Requirement		-	-	-	-	-	-
Net Commercial Paper Proceeds		$ -	$ -	$ -	$ -	$ -	$ -
Disposition of PENNVEST Proceeds							
PENNVEST Issuance Amount		-	-	-	-	-	-
Less:							
PENNVEST Issuance Expense		-	-	-	-	-	-
Net PENNVEST Proceeds		$ -	$ -	$ -	$ -	$ -	$ -
Disposition of WIFIA Proceeds							
WIFIA Issuance Amount		$ -	$ -	$ -	$ -	$ -	$ -
Less:							
WIFIA Issuance Expense		-	-	-	-	-	-
Net WIFIA Proceeds		$ -	$ -	$ -	$ -	$ -	$ -
Projected Flow of Funds - Construction Fund							
Construction Funds Available							
Beginning Balance		$ 354,540,531	$ 389,068,113	$ 496,496,748	$ 588,492,980	$ 558,329,892	$ 551,573,725
Transfer from Revenue Bond Proceeds		177,792,227	248,475,000	273,322,500	342,895,500	287,100,000	321,750,000
PENNVest Loan Proceeds		-	-	-	-	-	-
Commercial Paper Proceeds		-	-	-	-	-	-
WIFIA Proceeds		-	-	-	-	-	-
Non-City Sources	PENNVEST	28,226,709	35,728,247	30,812,378	27,840,015	20,880,011	-
Grants		-	-	-	-	-	-
Transfer from Residual Fund (Cash Financing)		11,400,000	17,800,000	20,600,000	33,250,000	42,300,000	45,300,000
Capital Account Deposit		14,310,146	14,868,241	15,448,103	16,050,579	16,676,551	17,326,937
Interest		3,699,545	4,405,795	5,397,959	5,705,586	5,521,909	5,730,574
Total Funds Available		$ 589,969,158	$ 710,345,397	$ 842,077,688	$ 1,014,234,661	$ 930,808,363	$ 941,681,236

Description		2023	2024	2025	2026	2027	2028
Wastewater System Fund Balances							Funds - 3
Construction Funds Used							
Capital Improvements	here	$ 200,901,045	$ 213,848,649	$ 253,584,708	$ 455,904,769	$ 379,234,638	$ 341,409,617
Total Funds Utilized		$ 200,901,045	$ 213,848,649	$ 253,584,708	$ 455,904,769	$ 379,234,638	$ 341,409,617
Ending Balance		**$ 389,068,113**	**$ 496,496,748**	**$ 588,492,980**	**$ 558,329,892**	**$ 551,573,725**	**$ 600,271,619**
Balance Target							
EOY Net Project Encumbrances/Commitments		$ 327,823,589	$ 436,644,760	$ 504,781,416	$ 485,191,452	$ 481,646,914	$ 515,304,488
Project Encumbrances/Commitments Prior to Bond Issue		53,778,303	53,620,227	72,719,134	62,615,017	62,511,199	72,569,543
Calculated Balance Target	**$ -**	**$ 381,601,892**	**$ 490,264,987**	**$ 577,500,550**	**$ 547,806,469**	**$ 544,158,112**	**$ 587,874,031**
Annual Balance Target							
Funding Sources		$ 235,428,627	$ 321,277,284	$ 345,580,940	$ 425,741,680	$ 372,478,471	$ 390,107,511
Project Encumbrances/Commitments		(255,923,472)	(322,669,820)	(321,721,363)	(436,314,805)	(375,690,099)	(375,067,191)
Annual Balance		**$ (20,494,845)**	**$ (1,392,536)**	**$ 23,859,576**	**$ (10,573,125)**	**$ (3,211,628)**	**$ 15,040,320**
Calculated Interest Income							
Ending Balance (Excluding Interest)		$ 385,368,567	$ 492,090,953	$ 583,095,021	$ 552,624,306	$ 546,051,817	$ 594,541,045
Calculated Interest Income		$ 3,699,545	$ 4,405,795	$ 5,397,959	$ 5,705,586	$ 5,521,909	$ 5,730,574
Projected Flow of Funds - Rate Stabilization							
Rate Stabilization Funds Available							
Beginning Balance		$ 83,393,465	$ 79,103,465	$ 79,068,465	$ 78,692,965	$ 81,932,965	$ 86,312,965
Deposit From (to) Operating Fund		(4,290,000)	(35,000)	(375,500)	3,240,000	4,380,000	4,500,000
Ending Balance		**$ 79,103,465**	**$ 79,068,465**	**$ 78,692,965**	**$ 81,932,965**	**$ 86,312,965**	**$ 90,812,965**
Interest Income		$ 812,485	$ 790,860	$ 788,807	$ 803,130	$ 841,230	$ 885,630
Projected Flow of Funds - Debt Service Reserve							
Debt Service Reserve Funds Available							
Beginning Balance		$ 118,130,382	$ 123,391,349	$ 123,860,683	$ 125,361,499	$ 129,440,641	$ 131,104,671
Transfer From Bond Proceeds		4,607,421	-	-	-	-	-
Transfer From Residual Fund		653,547	469,334	1,500,816	4,079,142	1,664,030	1,100,785
Debt Service Reserve Funds Release		-	-	-	-	-	-
Ending Balance		**$ 123,391,349**	**$ 123,860,683**	**$ 125,361,499**	**$ 129,440,641**	**$ 131,104,671**	**$ 132,205,456**
Interest Income		$ 1,207,609	$ 1,236,260	$ 1,246,111	$ 1,274,011	$ 1,302,727	$ 1,316,551

Description	2023	2024	2025	2026	2027	2028
Wastewater System Fund Balances						Funds - 3
Projected Flow of Funds - Revenue Fund						
Revenue Funds Available						
Beginning Balance	$ 102,848,870	$ 102,848,870	$ 102,848,870	$ 102,848,870	$ 102,848,870	$ 102,848,870
Existing Service Charge Revenues	472,292,169	476,637,280	478,996,666	480,828,776	480,146,563	470,259,213
Additional Service Charge Revenues	-	34,727,954	79,588,193	147,703,581	197,826,392	240,429,197
Other Operating Revenue	16,042,886	16,110,574	16,129,624	16,153,445	16,139,431	16,124,714
Interest Earnings	1,131,268	1,189,266	1,209,827	1,307,066	1,348,984	1,364,461
Construction Fund Interest Earnings	-	-	-	-	-	-
Debt Service Reserve Interest Earnings (above SCOOP)	-	-	-	-	-	-
Rate Stabilization Fund Interest Earnings	812,485	790,860	788,807	803,130	841,230	885,630
Transfer from Rate Stabilization Fund	4,290,000	35,000	375,500	-	-	-
Total Funds Available	$ 597,417,677	$ 632,339,804	$ 679,937,487	$ 749,644,867	$ 799,151,469	$ 831,912,085
Revenue Funds Used						
Total Operating Expense	340,655,300	364,797,819	389,931,181	412,682,790	429,814,697	449,051,192
Total Senior Debt Service	128,255,253	131,711,732	149,725,558	177,594,542	201,547,703	211,931,960
Total Subordinate Debt Service	-	-	-	-	-	-
Transfer to Escrow	-	-	-	-	-	-
Capital Account Deposit	14,310,146	14,868,241	15,448,103	16,050,579	16,676,551	17,326,937
Transfer to Rate Stabilization Fund	-	-	-	3,240,000	4,380,000	4,500,000
Transfer to Residual Fund	11,348,108	18,113,142	21,983,776	37,228,087	43,883,647	46,253,126
Total Funds Utilized	$ 494,568,807	$ 529,490,934	$ 577,088,617	$ 646,795,997	$ 696,302,599	$ 729,063,215
Ending Balance	$ 102,848,870	$ 102,848,870	$ 102,848,870	$ 102,848,870	$ 102,848,870	$ 102,848,870
Projected Flow of Funds - Residual Fund						
Operating Funds Available						
Beginning Balance	$ 9,661,443	$ 9,049,092	$ 8,982,610	$ 8,954,811	$ 8,942,799	$ 8,951,442
Transfer from Revenue Fund	11,348,108	18,113,142	21,983,776	37,228,087	43,883,647	46,253,126
Interest Earnings on Debt Service Reserve for Transfer to General Fund	1,207,609	1,236,260	1,246,111	1,274,011	1,302,726	1,316,551
Transfer to Debt Service Reserve	(653,547)	(469,334)	(1,500,816)	(4,079,142)	(1,664,030)	(1,100,785)
Transfer to Construction Fund	(11,400,000)	(17,800,000)	(20,600,000)	(33,250,000)	(42,300,000)	(45,300,000)
Transfer to General Fund	(1,207,609)	(1,236,260)	(1,246,111)	(1,274,011)	(1,302,726)	(1,316,551)
Ending Balance (prior to interest)	$ 8,956,005	$ 8,892,900	$ 8,865,570	$ 8,853,756	$ 8,862,416	$ 8,803,783
Interest Income	$ 93,087	$ 89,710	$ 89,241	$ 89,043	$ 89,026	$ 88,776
Ending Balance	**$ 9,049,092**	**$ 8,982,610**	**$ 8,954,811**	**$ 8,942,799**	**$ 8,951,442**	**$ 8,892,559**
Working Capital Balance						
Revenue Fund Balance	$ -	$ -	$ -	$ -	$ -	$ -
Residual Fund Balance	$ 9,049,092	$ 8,982,610	$ 8,954,811	$ 8,942,799	$ 8,951,442	$ 8,892,559
Rate Stabilization Fund Balance	$ 79,103,465	$ 79,068,465	$ 78,692,965	$ 81,932,965	$ 86,312,965	$ 90,812,965
Total	$ 88,152,557	$ 88,051,076	$ 87,647,776	$ 90,875,764	$ 95,264,407	$ 99,705,525

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FINPLAN CF

Index	Description	Table
CF	**Finplan Cashflow Worksheet**	
Finplan CF Data - 1	Water System Cash Flow	Schedule BV-2: Table 3-8 and Table 3-13
Finplan CF Data - 2	Wastewater System Cash Flow	Schedule BV-2: Table 6-15 and Table 6-20
Finplan CF Data - 3	Combined System Cash Flow	Schedule BV-1: Table C-1A Schedule BV-2: Table ES-1, Table ES-4, Table 2-9

Water System Cash Flow

Finplan CF Data - 1

			2023	2024	2025	2026	2027	2028
			$ 294,038	$ 341,777	$ 381,223			
Revenue Fund								
Water Service - Existing Rates			$ 294,038	$ 296,093	$ 298,680	$ 301,466	$ 301,071	$ 300,328
Total Service Revenue - Existing Rates			$ 294,038	$ 296,093	$ 298,680	$ 301,466	$ 301,071	$ 300,328
Additional Service Revenue Required								
Fiscal Year	% Increase	Months Effective						
2023	0.00%	10	$ -	$ -	$ -	$ -	$ -	$ -
2024	18.90%	10		45,684	56,451	56,977	56,902	56,762
2025	9.00%	10			26,092	32,260	32,218	32,138
2026	12.51%	10				39,893	48,804	48,684
2027	9.37%	10					33,595	41,052
2028	11.62%	10						45,438
Total Additional Service Revenue Required			$ -	$ 45,684	$ 82,542	$ 129,130	$ 171,520	$ 224,074
Other Income								
Other Operating Revenue			$ 13,558	$ 13,554	$ 13,584	$ 13,617	$ 13,607	$ 13,596
Construction Fund Interest Income			-	-	-	-	-	-
Debt Reserve Fund Interest Income			-	-	-	-	-	-
Operating Fund Interest Income			751	793	814	885	922	966
Rate Stabilization Interest Income			552	549	547	557	582	612
Project Revenues			$ 308,899	$ 356,672	$ 396,167	$ 445,656	$ 487,702	$ 539,576
Operating Expense								
Water Operations			$ (125,131)	$ (142,055)	$ (154,500)	$ (162,694)	$ (171,466)	$ (180,864)
Direct Interdepartmental Charges			(84,315)	(87,881)	(92,063)	(94,714)	(97,347)	(100,068)
Water Treatment Plant Sludge			(14,570)	(16,592)	(18,043)	(20,081)	(21,491)	(22,989)
Total Operating Expense			$ (224,016)	$ (246,528)	$ (264,605)	$ (277,489)	$ (290,303)	$ (303,921)

Water System Cash Flow

Finplan CF Data - 1

	2023	2024	2025	2026	2027	2028
Net Revenues						
Transfer from/(to) Rate Stabilization Fund	$ 710	$ 65	$ 225	$ (2,160)	$ (2,920)	$ (3,000)
Net Revenues	$ 85,594	$ 110,209	$ 131,786	$ 166,007	$ 194,478	$ 232,655
Debt Service						
Senior Debt Service						
Revenue Bonds						
Outstanding Bonds	$ (66,577)	$ (72,886)	$ (71,804)	$ (71,550)	$ (71,464)	$ (67,822)
Pennvest Parity Bonds	(4,579)	(5,324)	(8,218)	(11,549)	(15,451)	(17,382)
Projected Future Bonds	-	(9,625)	(24,074)	(39,398)	(53,655)	(76,708)
Commercial Paper	(171)	(314)	(376)	(389)	(497)	(900)
Projected WIFIA	-	(17)	(956)	(4,812)	(8,532)	(16,153)
Total Senior Debt Service	$ (71,327)	$ (88,166)	$ (105,429)	$ (127,697)	$ (149,599)	$ (178,965)
Subordinate Debt Service						
Outstanding General Obligation Bonds	$ -	$ -	$ -	$ -	$ -	$ -
Pennvest Subordinate Bonds						
Total Subordinate Debt Service	$ -	$ -	$ -	$ -	$ -	$ -
Transfer to Escrow	-	-	-	-	-	-
Total Debt Service on Bonds	(71,327)	(88,166)	(105,429)	(127,697)	(149,599)	(178,965)
Capital Account Deposit	$ (9,072)	$ (9,426)	$ (9,794)	$ (10,176)	$ (10,573)	$ (10,985)
End of Year Balance (Transfer to Residual Fund)	$ 5,194	$ 12,616	$ 16,564	$ 28,133	$ 34,307	$ 42,704

	2023	2024	2025	2026	2027	2028
Water System Cash Flow						**Finplan CF Data - 1**
Residual Fund						
Beginning Balance	$ 6,441	$ 6,046	$ 6,096	$ 6,124	$ 6,105	$ 6,074
Plus:						
End of Year Revenue Fund Balance	5,194	12,616	16,564	28,133	34,307	42,704
Deposit for Transfer to City General Fund	738	762	780	810	846	875
Interest Income	62	60	61	61	61	61
Less:						
Transfer to Construction Fund	(5,200)	(12,000)	(13,800)	(24,900)	(30,500)	(40,800)
Transfer to City General Fund	(738)	(762)	(780)	(810)	(846)	(875)
Transfer to Debt Service Reserve Fund	(451)	(626)	(2,797)	(3,313)	(3,898)	(1,930)
Ending Balance	$ 6,046	$ 6,096	$ 6,124	$ 6,105	$ 6,074	$ 6,110
Rate Stabilization Fund						
Beginning Balance	$ 55,596	$ 54,886	$ 54,821	$ 54,596	$ 56,756	$ 59,676
Transfer to/from Revenue Fund	(710)	(65)	(225)	2,160	2,920	3,000
Ending Balance	$ 54,886	$ 54,821	$ 54,596	$ 56,756	$ 59,676	$ 62,676
Debt Service Coverage						
Senior Debt Service Excluding Escrow	$ 71,327	$ 88,166	$ 105,429	$ 127,697	$ 149,599	$ 178,965
Net Revenues for Coverage	$ 85,594	$ 110,209	$ 131,786	$ 166,007	$ 194,478	$ 232,655
Total Senior Debt Service Coverage	**1.20**	**1.25**	**1.25**	**1.30**	**1.30**	**1.30**
Total Senior Debt Service Coverage - Current Revenue	**1.19**	**1.24**	**1.24**	**1.30**	**1.30**	**1.30**
Total Debt Service Coverage	**1.06**	**1.13**	**1.14**	**1.20**	**1.21**	**1.22**

Wastewater System Cash Flow

Finplan CF Data - 2

			2023	2024	2025	2026	2027	2028
			$ 472,292	$ 511,365	$ 558,585	$ 628,532	$ 677,973	
Revenue Fund								
Wastewater Service - Existing Rates			$ 472,292	$ 476,637	$ 478,997	$ 480,829	$ 480,147	$ 470,259
Total Service Revenue - Existing Rates			$ 472,292	$ 476,637	$ 478,997	$ 480,829	$ 480,147	$ 470,259
Additional Service Revenue Required								
Fiscal Year	% Increase	Months Effective						
2023	0.00%	10	$ -	$ -	$ -	$ -	$ -	$ -
2024	8.92%	10		34,728	42,703	42,766	42,703	41,488
2025	8.66%	10			36,885	45,359	45,295	44,320
2026	12.83%	10				59,579	72,904	71,368
2027	7.04%	10					36,925	44,176
2028	7.13%	10						39,078
Total Additional Service Revenue Required			$ -	$ 34,728	$ 79,588	$ 147,704	$ 197,826	$ 240,429
Other Income								
Other Operating Revenue			$ 16,043	$ 16,111	$ 16,130	$ 16,153	$ 16,139	$ 16,125
Construction Fund Interest Income			-	-	-	-	-	-
Debt Reserve Fund Interest Income			-	-	-	-	-	-
Operating Fund Interest Income			1,131	1,189	1,210	1,307	1,349	1,364
Rate Stabilization Interest Income			812	791	789	803	841	886
Project Revenues			$ 490,279	$ 529,456	$ 576,713	$ 646,796	$ 696,303	$ 729,063
Operating Expense								
Wastewater Operations			$ (234,320)	$ (255,072)	(274,375)	$ (293,685)	$ (307,668)	$ (323,163)
Direct Interdepartmental Charges			(120,906)	(126,318)	(133,599)	(139,078)	(143,637)	(148,878)
Water Treatment Plant Sludge			14,570	16,592	18,043	20,081	21,491	22,989
Total Operating Expense			$ (340,655)	$ (364,798)	$ (389,931)	$ (412,683)	$ (429,815)	$ (449,051)

Wastewater System Cash Flow

Finplan CF Data - 2

	2023	2024	2025	2026	2027	2028
Net Revenues						
Transfer from Rate Stabilization Fund	$ 4,290	$ 35	$ 376	$ (3,240)	$ (4,380)	$ (4,500)
Net Revenues after Operations	$ 153,914	$ 164,693	$ 187,157	$ 230,873	$ 262,108	$ 275,512
Debt Service						
Senior Debt Service						
Revenue Bonds						
Outstanding Bonds	$ (121,170)	$ (112,961)	$ (111,286)	$ (111,539)	$ (111,627)	$ (98,496)
Pennvest Parity Bonds	(6,356)	(6,706)	(8,110)	(12,172)	(13,832)	(14,931)
Projected Future Bonds	-	(11,458)	(29,806)	(53,373)	(75,687)	(98,505)
Commercial Paper	(729)	(586)	(524)	(511)	(403)	-
Projected WIFIA	-	-	-	-	-	-
Total Senior Debt Service	$ (128,255)	$ (131,712)	$ (149,726)	$ (177,595)	$ (201,548)	$ (211,932)
Subordinate Debt Service						
Outstanding General Obligation Bonds	$ -	$ -	$ -	$ -	$ -	$ -
Pennvest Subordinate Bonds						
Total Subordinate Debt Service	$ -	$ -	$ -	$ -	$ -	$ -
Transfer to Escrow	-	-	-	-	-	-
Total Debt Service on Bonds	(128,255)	(131,712)	(149,726)	(177,595)	(201,548)	(211,932)
Capital Account Deposit	$ (14,310)	$ (14,868)	$ (15,448)	$ (16,051)	$ (16,677)	$ (17,327)
End of Year Balance (Transfer to Residual Fund)	$ 11,348	$ 18,113	$ 21,984	$ 37,228	$ 43,884	$ 46,253

	2023	2024	2025	2026	2027	2028
Wastewater System Cash Flow						Finplan CF Data - 2
Residual Fund						
Beginning Balance	$ 9,661	$ 9,049	$ 8,983	$ 8,955	$ 8,943	$ 8,951
Plus:						
End of Year Revenue Fund Balance	11,348	18,113	21,984	37,228	43,884	46,253
Deposit for Transfer to City General Fund	1,208	1,236	1,246	1,274	1,303	1,317
Interest Income	93	90	89	89	89	89
Less:						
Transfer to Construction Fund	(11,400)	(17,800)	(20,600)	(33,250)	(42,300)	(45,300)
Transfer to City General Fund	(1,208)	(1,236)	(1,246)	(1,274)	(1,303)	(1,317)
Transfer to Debt Service Reserve Fund	(654)	(469)	(1,501)	(4,079)	(1,664)	(1,101)
Ending Balance	$ 9,049	$ 8,983	$ 8,955	$ 8,943	$ 8,951	$ 8,893
Rate Stabilization Fund						
Beginning Balance	$ 83,393	$ 79,103	$ 79,068	$ 78,693	$ 81,933	$ 86,313
Transfer to/from Revenue Fund	(4,290)	(35)	(376)	3,240	4,380	4,500
Ending Balance	$ 79,103	$ 79,068	$ 78,693	$ 81,933	$ 86,313	$ 90,813
Debt Service Coverage						
Senior Debt Service Excluding Escrow	$ 128,255	$ 131,712	$ 149,726	$ 177,595	$ 201,548	$ 211,932
Net Revenues for Coverage	$ 153,914	$ 164,693	$ 187,157	$ 230,873	$ 262,108	$ 275,512
Total Senior Debt Service Coverage	**1.20**	**1.25**	**1.25**	**1.30**	**1.30**	**1.30**
Total Senior Debt Service Coverage - Current Revenue	**1.16**	**1.25**	**1.24**	**1.30**	**1.30**	**1.30**
Total Debt Service Coverage	**1.08**	**1.12**	**1.13**	**1.19**	**1.20**	**1.20**

Combined System Cash Flow

Finplan CF Data - 3

			2023	2024	2025	2026	2027	2028
			$ 766,330	$ 853,142	$ 939,807			
Revenue Fund								
Water Service - Existing Rates			$ 294,038	$ 296,093	$ 298,680	$ 301,466	$ 301,071	$ 300,328
Wastewater Service - Existing Rates			472,292	476,637	478,997	480,829	480,147	470,259
Total Service Revenue - Existing Rates			$ 766,330	$ 772,731	$ 777,677	$ 782,295	$ 781,218	$ 770,587
Additional Service Revenue Required								
Fiscal Year	% Increase	Months Effective						
2023	0.00%	10	$ -	$ -	$ -	$ -	$ -	$ -
2024	12.75%	10		80,412	99,154	99,743	99,605	98,250
2025	8.80%	10			62,977	77,619	77,512	76,458
2026	12.70%	10				99,472	121,709	120,052
2027	8.00%	10					70,520	85,228
2028	9.00%	10						84,516
Total Additional Service Revenue Required			$ -	$ 80,412	$ 162,131	$ 276,834	$ 369,346	$ 464,504
Other Income								
Other Operating Revenue			$ 29,601	$ 29,664	$ 29,713	$ 29,771	$ 29,746	$ 29,720
Construction Fund Interest Income			-	-	-	-	-	-
Debt Reserve Fund Interest Income			-	-	-	-	-	-
Operating Fund Interest Income			1,882	1,982	2,023	2,192	2,271	2,331
Rate Stabilization Interest Income			1,365	1,339	1,336	1,360	1,423	1,497
Project Revenues			$ 799,178	$ 886,128	$ 972,880	$ 1,092,452	$ 1,184,004	$ 1,268,639
Operating Expense								
Water & Wastewater Operations			$ (359,451)	$ (397,126)	$ (428,875)	$ (456,379)	$ (479,134)	$ (504,027)
Direct Interdepartmental Charges			(205,220)	(214,200)	(225,662)	(233,793)	(240,984)	(248,945)
Water Treatment Plant Sludge			-	-	-	-	-	-
Total Operating Expense			$ (564,671)	$ (611,326)	$ (654,537)	$ (690,172)	$ (720,118)	$ (752,972)

Combined System Cash Flow

Finplan CF Data - 3

	2023	2024	2025	2026	2027	2028
Net Revenues						
Transfer from Rate Stabilization Fund	5,000	100	600	(5,400)	(7,300)	(7,500)
Net Revenues	$ 239,507	$ 274,902	$ 318,943	$ 396,880	$ 456,586	$ 508,167
Debt Service						
Senior Debt Service						
Revenue Bonds						
Outstanding Revenue Bonds	$ (187,747)	$ (185,847)	$ (183,090)	$ (183,088)	$ (183,091)	$ (166,318)
Pennvest Parity Bonds	(10,935)	(12,031)	(16,329)	(23,721)	(29,283)	(32,313)
Projected Future Revenue Bonds	-	(21,083)	(53,880)	(92,771)	(129,341)	(175,213)
Commercial Paper	(900)	(900)	(900)	(900)	(900)	(900)
Projected WIFIA	-	(17)	(956)	(4,812)	(8,532)	(16,153)
Total Senior Debt Service	$ (199,582)	$ (219,878)	$ (255,154)	$ (305,292)	$ (351,146)	$ (390,897)
Subordinate Debt Service						
Outstanding General Obligation Bonds	$ -	$ -	$ -	$ -	$ -	$ -
Pennvest Subordinate Bonds	-	-	-	-	-	-
Total Subordinate Debt Service	$ -	$ -	$ -	$ -	$ -	$ -
Transfer to Escrow	-	-	-	-	-	-
Total Debt Service on Bonds	$ (199,582)	$ (219,878)	$ (255,154)	$ (305,292)	$ (351,146)	$ (390,897)
Capital Account Deposit	$ (23,383)	$ (24,295)	$ (25,242)	$ (26,226)	$ (27,249)	$ (28,312)
End of Year Balance (Transfer to Residual Fund)	$ 16,542	$ 30,729	$ 38,547	$ 65,361	$ 78,191	$ 88,958

		2023	2024	2025	2026	2027	2028
Combined System Cash Flow							**Finplan CF Data - 3**
Residual Fund							
Beginning Balance		$ 16,102	$ 15,095	$ 15,079	$ 15,078	$ 15,047	$ 15,025
Plus:							
End of Year Revenue Fund Balance		16,542	30,729	38,547	65,361	78,191	88,958
Deposit for Transfer to City General Fund		1,945	1,999	2,026	2,084	2,149	2,192
Interest Income		155	150	150	150	150	149
Less:							
Transfer to Construction Fund		(16,600)	(29,800)	(34,400)	(58,150)	(72,800)	(86,100)
Transfer to City General Fund		(1,945)	(1,999)	(2,026)	(2,084)	(2,149)	(2,192)
Transfer to Debt Service Reserve Fund		(1,105)	(1,096)	(4,298)	(7,392)	(5,562)	(3,030)
Ending Balance		$ 15,095	$ 15,079	$ 15,078	$ 15,047	$ 15,025	$ 15,002
Rate Stabilization Fund							
Beginning Balance		$ 138,989	$ 133,989	$ 133,889	$ 133,289	$ 138,689	$ 145,989
Transfer to/from Revenue Fund		(5,000)	(100)	(600)	5,400	7,300	7,500
Ending Balance		$ 133,989	$ 133,889	$ 133,289	$ 138,689	$ 145,989	$ 153,489
Debt Service Coverage							
Senior Debt Service Excluding Escrow		$ 199,582	$ 219,878	$ 255,154	$ 305,292	$ 351,146	$ 390,897
Net Revenues for Coverage		$ 239,507	$ 274,902	$ 318,943	$ 396,880	$ 456,586	$ 508,167
Total Senior Debt Service Coverage		**1.20**	**1.25**	**1.25**	**1.30**	**1.30**	**1.30**
Total Senior Debt Service Coverage - Current Rever	**1.17**	**1.17**	**1.24**	**1.24**	**1.30**	**1.30**	**1.30**
Total Debt Service Coverage	**1.07**	**1.07**	**1.12**	**1.13**	**1.19**	**1.20**	**1.21**

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TY RATE CF

Index	Description	Table
CF	**TY Rate Cashflow Worksheet**	
TY Rate CF Data - 1	Water System Cash Flow	Schedule BV-2: Table 4-1
TY Rate CF Data - 2	Wastewater System Cash Flow	Schedule BV-2: Table 7-1
TY Rate CF Data - 3	Combined System Cash Flow	

Water System Cash Flow

TY Rate CF Data - 1

			2023	2024	2025	2026	2027	2028
Revenue Fund								
Water Service - Existing Rates			$ 294,038	$ 296,093	$ 298,680	$ 301,466	$ 301,071	$ 300,328
Total Service Revenue - Existing Rates			$ 294,038	$ 296,093	$ 298,680	$ 301,466	$ 301,071	$ 300,328
Additional Service Revenue Required								
Fiscal Year	% Increase	Months Effective						
2023	0.00%	10	$ -	$ -	$ -	$ -	$ -	$ -
2024	18.90%	12		55,962	56,451	56,977	56,902	56,762
2025	9.00%	10			26,092	32,260	32,218	32,138
2026	12.51%	10				39,893	48,804	48,684
2027	9.37%	10					33,595	41,052
2028	11.62%	10						45,438
Total Additional Service Revenue Required			$ -	$ 55,962	$ 82,542	$ 129,130	$ 171,520	$ 224,074
Other Income								
Other Operating Revenue			$ 13,558	$ 13,554	$ 13,584	$ 13,617	$ 13,607	$ 13,596
Construction Fund Interest Income			-	-	-	-	-	-
Debt Reserve Fund Interest Income			-	-	-	-	-	-
Operating Fund Interest Income			751	793	814	885	922	966
Rate Stabilization Interest Income			552	549	547	557	582	612
Project Revenues			$ 308,899	$ 366,950	$ 396,167	$ 445,656	$ 487,702	$ 539,576
Operating Expense								
Water Operations			$ (125,131)	$ (142,055)	$ (154,500)	$ (162,694)	$ (171,466)	$ (180,864)
Direct Interdepartmental Charges			(84,315)	(87,881)	(92,063)	(94,714)	(97,347)	(100,068)
Water Treatment Plant Sludge			(14,570)	(16,592)	(18,043)	(20,081)	(21,491)	(22,989)
Total Operating Expense			$ (224,016)	$ (246,528)	$ (264,605)	$ (277,489)	$ (290,303)	$ (303,921)

Water System Cash Flow	2023	2024	2025	2026	2027	2028
						TY Rate CF Data - 1
Net Revenues						
Transfer from/(to) Rate Stabilization Fund	$ 710	$ (10,213)	$ 224	$ (2,160)	$ (2,920)	$ (3,000)
Net Revenues	$ 85,594	$ 110,209	$ 131,786	$ 166,007	$ 194,478	$ 232,655
Debt Service						
Senior Debt Service						
Revenue Bonds						
Outstanding Bonds	$ (66,577)	$ (72,886)	$ (71,804)	$ (71,550)	$ (71,464)	$ (67,822)
Pennvest Parity Bonds	(4,579)	(5,324)	(8,218)	(11,549)	(15,451)	(17,382)
Projected Future Bonds	-	(9,625)	(24,074)	(39,398)	(53,655)	(76,708)
Commercial Paper	(171)	(314)	(376)	(389)	(497)	(900)
Projected WIFIA	-	(17)	(956)	(4,812)	(8,532)	(16,153)
Total Senior Debt Service	$ (71,327)	$ (88,166)	$ (105,429)	$ (127,697)	$ (149,599)	$ (178,965)
Subordinate Debt Service						
Outstanding General Obligation Bonds	$ -	$ -	$ -	$ -	$ -	$ -
Pennvest Subordinate Bonds						
Total Subordinate Debt Service	$ -	$ -	$ -	$ -	$ -	$ -
Transfer to Escrow	-	-	-	-	-	-
Total Debt Service on Bonds	(71,327)	(88,166)	(105,429)	(127,697)	(149,599)	(178,965)
Capital Account Deposit	$ (9,072)	$ (9,426)	$ (9,794)	$ (10,176)	$ (10,573)	$ (10,985)
End of Year Balance (Transfer to Residual Fund)	$ 5,194	$ 12,616	$ 16,564	$ 28,133	$ 34,307	$ 42,704

	2023	2024	2025	2026	2027	2028
Water System Cash Flow						**TY Rate CF Data - 1**
Residual Fund						
Beginning Balance	$ 6,441	$ 6,046	$ 6,096	$ 6,124	$ 6,105	$ 6,074
Plus:						
End of Year Revenue Fund Balance	5,194	12,616	16,564	28,133	34,307	42,704
Deposit for Transfer to City General Fund	738	762	780	810	846	875
Interest Income	62	60	61	61	61	61
Less:						
Transfer to Construction Fund	(5,200)	(12,000)	(13,800)	(24,900)	(30,500)	(40,800)
Transfer to City General Fund	(738)	(762)	(780)	(810)	(846)	(875)
Transfer to Debt Service Reserve Fund	(451)	(626)	(2,797)	(3,313)	(3,898)	(1,930)
Ending Balance	$ 6,046	$ 6,096	$ 6,124	$ 6,105	$ 6,074	$ 6,110
Rate Stabilization Fund						
Beginning Balance	$ 55,596	$ 54,886	$ 65,098	$ 64,874	$ 67,034	$ 69,954
Transfer to/from Revenue Fund	(710)	10,213	(224)	2,160	2,920	3,000
Ending Balance	$ 54,886	$ 65,098	$ 64,874	$ 67,034	$ 69,954	$ 72,954
Debt Service Coverage						
Senior Debt Service Excluding Escrow	$ 71,327	$ 88,166	$ 105,429	$ 127,697	$ 149,599	$ 178,965
Net Revenues for Coverage	$ 85,594	$ 110,209	$ 131,786	$ 166,007	$ 194,478	$ 232,655
Total Senior Debt Service Coverage	**1.20**	**1.25**	**1.25**	**1.30**	**1.30**	**1.30**
Total Senior Debt Service Coverage - Current Revenue	**1.19**	**1.25**	**1.24**	**1.30**	**1.30**	**1.30**
Total Debt Service Coverage	**1.06**	**1.13**	**1.14**	**1.20**	**1.21**	**1.22**

Wastewater System Cash Flow

TY Rate CF Data - 2

			2023	2024	2025	2026	2027	2028
				$ 519,199				
Revenue Fund								
Wastewater Service - Existing Rates			$ 472,292	$ 476,637	$ 478,997	$ 480,829	$ 480,147	$ 470,259
Total Service Revenue - Existing Rates			$ 472,292	$ 476,637	$ 478,997	$ 480,829	$ 480,147	$ 470,259
Additional Service Revenue Required								
Fiscal Year	% Increase	Months Effective						
2023	0.00%	10	$ -	$ -	$ -	$ -	$ -	$ -
2024	8.92%	12		42,562	42,703	42,766	42,703	41,488
2025	8.66%	10			36,885	45,359	45,295	44,320
2026	12.83%	10				59,579	72,904	71,368
2027	7.04%	10					36,925	44,176
2028	7.13%	10						39,078
Total Additional Service Revenue Required			$ -	$ 42,562	$ 79,588	$ 147,704	$ 197,826	$ 240,429
Other Income								
Other Operating Revenue			$ 16,043	$ 16,111	$ 16,130	$ 16,153	$ 16,139	$ 16,125
Construction Fund Interest Income			-	-	-	-	-	-
Debt Reserve Fund Interest Income			-	-	-	-	-	-
Operating Fund Interest Income			1,131	1,189	1,210	1,307	1,349	1,364
Rate Stabilization Interest Income			812	791	789	803	841	886
Project Revenues			$ 490,279	$ 537,289	$ 576,713	$ 646,796	$ 696,303	$ 729,063
Operating Expense								
Wastewater Operations			$ (234,320)	$ (255,072)	(274,375)	$ (293,685)	$ (307,668)	$ (323,163)
Direct Interdepartmental Charges			(120,906)	(126,318)	(133,599)	(139,078)	(143,637)	(148,878)
Water Treatment Plant Sludge			14,570	16,592	18,043	20,081	21,491	22,989
Total Operating Expense			$ (340,655)	$ (364,798)	$ (389,931)	$ (412,683)	$ (429,815)	$ (449,051)

	2023	2024	2025	2026	2027	2028
Wastewater System Cash Flow						**TY Rate CF Data - 2**
Net Revenues						
Transfer from Rate Stabilization Fund	$ 4,290	$ (7,799)	$ 376	$ (3,240)	$ (4,380)	$ (4,500)
Net Revenues after Operations	$ 153,914	$ 164,693	$ 187,157	$ 230,873	$ 262,108	$ 275,512
Debt Service						
Senior Debt Service						
Revenue Bonds						
Outstanding Bonds	$ (121,170)	$ (112,961)	$ (111,286)	$ (111,539)	$ (111,627)	$ (98,496)
Pennvest Parity Bonds	(6,356)	(6,706)	(8,110)	(12,172)	(13,832)	(14,931)
Projected Future Bonds	-	(11,458)	(29,806)	(53,373)	(75,687)	(98,505)
Commercial Paper	(729)	(586)	(524)	(511)	(403)	-
Projected WIFIA	-	-	-	-	-	-
Total Senior Debt Service	$ (128,255)	$ (131,712)	$ (149,726)	$ (177,595)	$ (201,548)	$ (211,932)
Subordinate Debt Service						
Outstanding General Obligation Bonds	$ -	$ -	$ -	$ -	$ -	$ -
Pennvest Subordinate Bonds						
Total Subordinate Debt Service	$ -	$ -	$ -	$ -	$ -	$ -
Transfer to Escrow	-	-	-	-	-	-
Total Debt Service on Bonds	(128,255)	(131,712)	(149,726)	(177,595)	(201,548)	(211,932)
Capital Account Deposit	$ (14,310)	$ (14,868)	$ (15,448)	$ (16,051)	$ (16,677)	$ (17,327)
End of Year Balance (Transfer to Residual Fund)	$ 11,348	$ 18,113	$ 21,984	$ 37,228	$ 43,884	$ 46,253

	2023	2024	2025	2026	2027	2028
Wastewater System Cash Flow						TY Rate CF Data - 2
Residual Fund						
Beginning Balance	$ 9,661	$ 9,049	$ 8,983	$ 8,955	$ 8,943	$ 8,951
Plus:						
End of Year Revenue Fund Balance	11,348	18,113	21,984	37,228	43,884	46,253
Deposit for Transfer to City General Fund	1,208	1,236	1,246	1,274	1,303	1,317
Interest Income	93	90	89	89	89	89
Less:						
Transfer to Construction Fund	(11,400)	(17,800)	(20,600)	(33,250)	(42,300)	(45,300)
Transfer to City General Fund	(1,208)	(1,236)	(1,246)	(1,274)	(1,303)	(1,317)
Transfer to Debt Service Reserve Fund	(654)	(469)	(1,501)	(4,079)	(1,664)	(1,101)
Ending Balance	$ 9,049	$ 8,983	$ 8,955	$ 8,943	$ 8,951	$ 8,893
Rate Stabilization Fund						
Beginning Balance	$ 83,393	$ 79,103	$ 86,902	$ 86,527	$ 89,767	$ 94,147
Transfer to/from Revenue Fund	(4,290)	7,799	(376)	3,240	4,380	4,500
Ending Balance	$ 79,103	$ 86,902	$ 86,527	$ 89,767	$ 94,147	$ 98,647
Debt Service Coverage						
Senior Debt Service Excluding Escrow	$ 128,255	$ 131,712	$ 149,726	$ 177,595	$ 201,548	$ 211,932
Net Revenues for Coverage	$ 153,914	$ 164,693	$ 187,157	$ 230,873	$ 262,108	$ 275,512
Total Senior Debt Service Coverage	**1.20**	**1.25**	**1.25**	**1.30**	**1.30**	**1.30**
Total Senior Debt Service Coverage - Current Revenue	**1.16**	**1.25**	**1.24**	**1.30**	**1.30**	**1.30**
Total Debt Service Coverage	**1.08**	**1.12**	**1.13**	**1.19**	**1.20**	**1.20**

Combined System Cash Flow

TY Rate CF Data - 3

			2023	2024	2025	2026	2027	2028
Revenue Fund								
Water Service - Existing Rates			$ 294,038	$ 296,093	$ 298,680	$ 301,466	$ 301,071	$ 300,328
Wastewater Service - Existing Rates			472,292	476,637	478,997	480,829	480,147	470,259
Total Service Revenue - Existing Rates			$ 766,330	$ 772,731	$ 777,677	$ 782,295	$ 781,218	$ 770,587
Additional Service Revenue Required								
Fiscal Year	% Increase	Months Effective						
2023	0.00%	10	0	$ -	$ -	$ -	$ -	$ -
2024	12.75%	12		98,523	99,154	99,743	99,605	98,250
2025	8.80%	10			62,977	77,619	77,512	76,458
2026	12.70%	10				99,472	121,709	120,052
2027	8.00%	10					70,520	85,228
2028	9.00%	10						84,516
Total Additional Service Revenue Required			$ -	$ 98,523	$ 162,131	$ 276,834	$ 369,346	$ 464,504
Other Income								
Other Operating Revenue			$ 29,601	$ 29,664	$ 29,713	$ 29,771	$ 29,746	$ 29,720
Construction Fund Interest Income			-	-	-	-	-	-
Debt Reserve Fund Interest Income			-	-	-	-	-	-
Operating Fund Interest Income			1,882	1,982	2,023	2,192	2,271	2,331
Rate Stabilization Interest Income			1,365	1,339	1,336	1,360	1,423	1,497
Project Revenues			$ 799,178	$ 904,239	$ 972,880	$ 1,092,452	$ 1,184,004	$ 1,268,639
Operating Expense								
Water & Wastewater Operations			$ (359,451)	$ (397,126)	$ (428,875)	$ (456,379)	$ (479,134)	$ (504,027)
Direct Interdepartmental Charges			(205,220)	(214,200)	(225,662)	(233,793)	(240,984)	(248,945)
Water Treatment Plant Sludge			-	-	-	-	-	-
Total Operating Expense			$ (564,671)	$ (611,326)	$ (654,537)	$ (690,172)	$ (720,118)	$ (752,972)

Combined System Cash Flow

TY Rate CF Data - 3

	2023	2024	2025	2026	2027	2028
Net Revenues						
Transfer from Rate Stabilization Fund	5,000	(18,011)	600	(5,400)	(7,300)	(7,500)
Net Revenues	$ 239,507	$ 274,902	$ 318,943	$ 396,880	$ 456,586	$ 508,167
Debt Service						
Senior Debt Service						
Revenue Bonds						
Outstanding Revenue Bonds	$ (187,747)	$ (185,847)	$ (183,090)	$ (183,088)	$ (183,091)	$ (166,318)
Pennvest Parity Bonds	(10,935)	(12,031)	(16,329)	(23,721)	(29,283)	(32,313)
Projected Future Revenue Bonds	-	(21,083)	(53,880)	(92,771)	(129,341)	(175,213)
Commercial Paper	(900)	(900)	(900)	(900)	(900)	(900)
Projected WIFIA	-	(17)	(956)	(4,812)	(8,532)	(16,153)
Total Senior Debt Service	$ (199,582)	$ (219,878)	$ (255,154)	$ (305,292)	$ (351,146)	$ (390,897)
Subordinate Debt Service						
Outstanding General Obligation Bonds	$ -	$ -	$ -	$ -	$ -	$ -
Pennvest Subordinate Bonds	-	-	-	-	-	-
Total Subordinate Debt Service	$ -	$ -	$ -	$ -	$ -	$ -
Transfer to Escrow	-	-	-	-	-	-
Total Debt Service on Bonds	$ (199,582)	$ (219,878)	$ (255,154)	$ (305,292)	$ (351,146)	$ (390,897)
Capital Account Deposit	$ (23,383)	$ (24,295)	$ (25,242)	$ (26,226)	$ (27,249)	$ (28,312)
End of Year Balance (Transfer to Residual Fund)	$ 16,542	$ 30,729	$ 38,547	$ 65,361	$ 78,191	$ 88,958

	2023	2024	2025	2026	2027	2028
Combined System Cash Flow						**TY Rate CF Data - 3**
Residual Fund						
Beginning Balance	$ 16,102	$ 15,095	$ 15,079	$ 15,078	$ 15,047	$ 15,025
Plus:						
End of Year Revenue Fund Balance	16,542	30,729	38,547	65,361	78,191	88,958
Deposit for Transfer to City General Fund	1,945	1,999	2,026	2,084	2,149	2,192
Interest Income	155	150	150	150	150	149
Less:						
Transfer to Construction Fund	(16,600)	(29,800)	(34,400)	(58,150)	(72,800)	(86,100)
Transfer to City General Fund	(1,945)	(1,999)	(2,026)	(2,084)	(2,149)	(2,192)
Transfer to Debt Service Reserve Fund	(1,105)	(1,096)	(4,298)	(7,392)	(5,562)	(3,030)
Ending Balance	$ 15,095	$ 15,079	$ 15,078	$ 15,047	$ 15,025	$ 15,002
Rate Stabilization Fund						
Beginning Balance	$ 138,989	$ 133,989	$ 152,000	$ 151,400	$ 156,800	$ 164,100
Transfer to/from Revenue Fund	(5,000)	18,011	(600)	5,400	7,300	7,500
Ending Balance	$ 133,989	$ 152,000	$ 151,400	$ 156,800	$ 164,100	$ 171,600
Debt Service Coverage						
Senior Debt Service Excluding Escrow	$ 199,582	$ 219,878	$ 255,154	$ 305,292	$ 351,146	$ 390,897
Net Revenues for Coverage	$ 239,507	$ 274,902	$ 318,943	$ 396,880	$ 456,586	$ 508,167
Total Senior Debt Service Coverage	**1.20**	**1.25**	**1.25**	**1.30**	**1.30**	**1.30**
Total Senior Debt Service Coverage - Current Revenue	**1.17**	**1.25**	**1.24**	**1.30**	**1.30**	**1.30**
Total Debt Service Coverage	**1.07**	**1.12**	**1.13**	**1.19**	**1.20**	**1.21**

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COST OF SERVICE

Index	Description	Table
COST OF SERVICE	**Cost of Service Worksheet**	
Cost of Service - 1	Water System Cost of Service	Schedule BV-2: Table 4-2
Cost of Service - 2	Wastewater System Cost of Service	Schedule BV-2: Table 7-2
Cost of Service - 3	Combined System Cost of Service	

Water System Cost of Service

Cost of Service - 1

	2023	2024	2025	2026	2027	2028
Operating Expenses						
Operating Expense	$ 125,131	$ 142,055	$ 154,500	$ 162,694	$ 171,466	$ 180,864
Direct Interdepartmental Charges	84,315	87,881	92,063	94,714	97,347	100,068
Water Treatment Plant Sludge	14,570	16,592	18,043	20,081	21,491	22,989
Subtotal	$ 224,016	$ 246,528	$ 264,605	$ 277,489	$ 290,303	$ 303,921
Residual Fund Transfer	3,822	9,038	11,539	18,795	22,109	26,280
Rate Stabilization Fund Transfer	(522)	7,316	(156)	1,443	1,882	1,846
Total	$ 227,316	$ 262,882	$ 275,988	$ 297,727	$ 314,294	$ 332,047
Other Income						
Other Operating Revenue	$ (13,558)	$ (13,554)	$ (13,584)	$ (13,617)	$ (13,607)	$ (13,596)
Interest	(959)	(961)	(948)	(963)	(969)	(971)
Net Revenue Requirement - Operating Expense	$ 212,799	$ 248,368	$ 261,457	$ 283,147	$ 299,719	$ 317,480
Capital Expenses						
Debt Service						
Senior Debt Service						
Revenue Bonds						
Outstanding Bonds	$ 66,577	$ 72,886	$ 71,804	$ 71,550	$ 71,464	$ 67,822
Pennvest Parity Bonds	4,579	5,324	8,218	11,549	15,451	17,382
Projected Future Bonds	-	9,625	24,074	39,398	53,655	76,708
Commercial Paper	171	314	376	389	497	900
Projected WIFIA	-	17	956	4,812	8,532	16,153
Transfer to Escrow	-	-	-	-	-	-
Subordinate Debt Service						
Outstanding General Obligation Bonds	-	-	-	-	-	-
Pennvest Subordinate Bonds						
Capital Account Deposit	9,072	9,426	9,794	10,176	10,573	10,985
Subtotal	$ 80,400	$ 97,593	$ 115,222	$ 137,873	$ 160,171	$ 189,950

	2023	2024	2025	2026	2027	2028
Residual Fund Transfer	1,372	3,578	5,025	9,338	12,198	16,424
Rate Stabilization Fund Transfer	(188)	2,897	(68)	717	1,038	1,154
Total	$ 81,584	$ 104,068	$ 120,178	$ 147,929	$ 173,407	$ 207,529
Other Income						
Other Operating Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service Reserve Fund Release	-	-	-	-	-	-
Interest	(344)	(380)	(413)	(479)	(535)	(607)
Net Revenue Requirement - Capital Expense	$ 81,240	$ 103,687	$ 119,766	$ 147,450	$ 172,872	$ 206,922
Total Net Revenue Requirement	$ 294,038	$ 352,055	$ 381,223	$ 430,596	$ 472,591	$ 524,402
Revenue CHECK	$ 294,038	$ 352,055	$ 381,223	$ 430,596	$ 472,591	$ 524,402

Wastewater System Cost of Service

Cost of Service - 2

	2023	2024	2025	2026	2027	2028
Operating Expenses						
Operating Expense	$ 234,320	$ 255,072	$ 274,375	$ 293,685	$ 307,668	$ 323,163
Direct Interdepartmental Charges	120,906	126,318	133,599	139,078	143,637	148,878
Water Treatment Plant Sludge	(11,214)	(12,934)	(13,910)	(15,075)	(15,825)	(17,049)
Total Operating Expense	$ 344,011	$ 368,457	$ 394,064	$ 417,689	$ 435,480	$ 454,991
Residual Fund Transfer	8,079	13,051	15,606	25,646	29,490	31,025
Rate Stabilization Fund Transfer	(3,054)	5,619	(267)	2,232	2,943	3,018
Total	$ 349,036	$ 387,127	$ 409,403	$ 445,567	$ 467,913	$ 489,034
Other Income						
Other Operating Revenue	$ (16,043)	$ (16,111)	$ (16,130)	$ (16,153)	$ (16,139)	$ (16,125)
Interest	(1,390)	(1,446)	(1,434)	(1,483)	(1,506)	(1,545)
Net Revenue Requirement - Operating Expense	$ 331,603	$ 369,570	$ 391,840	$ 427,931	$ 450,268	$ 471,364
Capital Expenses						
Debt Service						
Senior Debt Service						
Revenue Bonds						
Outstanding Bonds	$ 121,170	$ 112,961	$ 111,286	$ 111,539	$ 111,627	$ 98,496
Pennvest Parity Bonds	6,356	6,706	8,110	12,172	13,832	14,931
Projected Future Bonds	-	11,458	29,806	53,373	75,687	98,505
Commercial Paper	729	586	524	511	403	-
Projected WIFIA	-	-	-	-	-	-
Transfer to Escrow	-	-	-	-	-	-
Subordinate Debt Service						
Outstanding General Obligation Bonds	-	-	-	-	-	-
Pennvest Subordinate Bonds						
Capital Account Deposit	14,310	14,868	15,448	16,051	16,677	17,327
Water Treatment Plant Sludge - Capital Component	(3,356)	(3,659)	(4,133)	(5,006)	(5,666)	(5,940)
Subtotal	$ 139,209	$ 142,921	$ 161,041	$ 188,639	$ 212,559	$ 223,319

	2023	2024	2025	2026	2027	2028
Residual Fund Transfer	3,269	5,062	6,378	11,582	14,394	15,228
Rate Stabilization Fund Transfer	(1,236)	2,180	(109)	1,008	1,437	1,482
Total	$ 141,243	$ 150,163	$ 167,310	$ 201,229	$ 228,389	$ 240,029
Other Income						
Other Operating Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service Reserve Fund Release	-	-	-	-	-	-
Interest	(554)	(534)	(565)	(627)	(684)	(705)
Net Revenue Requirement - Capital Expense	$ 140,689	$ 149,629	$ 166,745	$ 200,602	$ 227,705	$ 239,324
Total Net Revenue Requirement	$ 472,292	$ 519,199	$ 558,585	$ 628,532	$ 677,973	$ 710,688
Revenue CHECK	$ 472,292	$ 519,199	$ 558,585	$ 628,532	$ 677,973	$ 710,688

Combined System Cost of Service

Cost of Service - 3

	2023	2024	2025	2026	2027	2028
Operating Expenses						
Operating Expense	$ 359,451	$ 397,126	$ 428,875	$ 456,379	$ 479,134	$ 504,027
Direct Interdepartmental Charges	$ 205,220	$ 214,200	$ 225,662	$ 233,793	$ 240,984	$ 248,945
Water Treatment Plant Sludge	$ 3,356	$ 3,659	$ 4,133	$ 5,006	$ 5,666	$ 5,940
Subtotal	$ 568,027	$ 614,985	$ 658,670	$ 695,178	$ 725,784	$ 758,912
Residual Fund Transfer	11,901	22,089	27,145	44,441	51,599	57,305
Rate Stabilization Fund Transfer	(3,576)	12,935	(423)	3,675	4,825	4,864
Total	$ 576,352	$ 650,009	$ 685,392	$ 743,294	$ 782,208	$ 821,081
Other Income						
Other Operating Revenue	$ (29,601)	$ (29,664)	$ (29,713)	$ (29,771)	$ (29,746)	$ (29,720)
Interest	$ (2,349)	$ (2,407)	$ (2,382)	$ (2,446)	$ (2,475)	$ (2,516)
Net Revenue Requirement - Operating Expense	$ 544,402	$ 617,938	$ 653,296	$ 711,077	$ 749,987	$ 788,845
Capital Expenses						
Debt Service						
Senior Debt Service						
Revenue Bonds						
Outstanding Bonds	$ 187,747	$ 185,847	$ 183,090	$ 183,088	$ 183,091	$ 166,318
Pennvest Parity Bonds	10,935	12,031	16,329	23,721	29,283	32,313
Projected Future Bonds	-	21,083	53,880	92,771	129,341	175,213
Commercial Paper	900	900	900	900	900	900
Projected WIFIA	-	17	956	4,812	8,532	16,153
Transfer to Escrow	-	-	-	-	-	-
Subordinate Debt Service						
Outstanding General Obligation Bonds	$ -	$ -	$ -	$ -	$ -	$ -
Pennvest Subordinate Bonds						
Capital Account Deposit	$ 23,383	$ 24,295	$ 25,242	$ 26,226	$ 27,249	$ 28,312
Water Treatment Plant Sludge - Capital Component	$ (3,356)	$ (3,659)	$ (4,133)	$ (5,006)	$ (5,666)	$ (5,940)
Subtotal	$ 219,609	$ 240,514	$ 276,263	$ 326,512	$ 372,730	$ 413,269

	2023	2024	2025	2026	2027	2028
Residual Fund Transfer	4,641	8,640	11,402	20,920	26,592	31,653
Rate Stabilization Fund Transfer	(1,424)	5,076	(177)	1,725	2,475	2,636
Total	$ 222,826	$ 254,231	$ 287,488	$ 349,158	$ 401,797	$ 447,558
Other Income						
Other Operating Revenue	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service Reserve Fund Release	$ -	$ -	$ -	$ -	$ -	$ -
Interest	(898)	(914)	(977)	(1,106)	(1,219)	(1,312)
Net Revenue Requirement - Capital Expense	$ 221,928	$ 253,316	$ 286,511	$ 348,051	$ 400,578	$ 446,246
Total Net Revenue Requirement	$ 766,330	$ 871,254	$ 939,807	$ 1,059,129	$ 1,150,564	$ 1,235,091
Revenue CHECK	$ 766,330	$ 871,254	$ 939,807	$ 1,059,129	$ 1,150,564	$ 1,235,091

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INDEX

The "Units" worksheet develops the units of service for retail and contract customers, treatment plants, and pumping stations. It also develops equivalent bills and meters.

Range	Description	Page Number	Table
UnitsInd	Index	Units-1	
CSUNITS	OC Contract Service Sewer Units	Units-2	SCHEDULE BV_2: TABLE 7-4
UNTSER	Units of Sewer Service	Units-3	
TRMTUTS	Treatment Plant Units	Units-4	
PSUTS	Pumping Stations Units	Units-5	
SWRUTS	Sewer Units	Units-6	SCHEDULE BV-2: TABLE 7-3
TPFS	Trtmt Plant Flows and Strengths	Units-7	
CCSF	Customer Type Sanitary Flows	Units-8	
RTLUNT	Retail Sewer Units	Units-9	
BILLTAB	FY 2016 Bill Distribution & TY Number of Bills	Units-10	
TYBILLS	FY 2024 Test Year Sewer Bills	Units-11	
TYMTRS	FY 2024 Test Year Equiv. Sewer Meters	Units-12	
TYUOS	FY 2024 Units of Wastewater Service	Units-13	
CCAS	Contract Customers Average Strengths	Units-14	SCHEDULE BV-2: TABLE 7-5
RATIOS	Equiv. Bill and Meter Ratios	Units-15	
CNTRCTUNI	Contract Maximum Limits	Units-16	

The "Pltdes" worksheet contains wastewater plant design data for the Northeast, Southwest, and Southeast treatment plants, and historical treatment plants influent flows and strengths.

Range	Description	Page Number	Table
PltdesInd	Index	Pltdes-1	
NEDESG	NEWPCP Design Conditions	Pltdes-2	
SWDESG	SWWPCP Design Conditions	Pltdes-3	
SEDESG	SEWPCP Design Conditions	Pltdes-4	
WWFS	WWTP Flows & Strengths	Pltdes-5	

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
PlantInd - Index	P.N. 135647.0100	January 27, 2023 1:55 p.m.					Plant-1

Fixed Asset Listing as of date 6/30/2022

Range	Description	Page Number	Table
PlantInd	Index	Plant-1	
PLTFUNC	Plant Functions	Plant-2	
NEPA1	NE Plant Assets (Non-WPAP) as of 6/30/2022	Plant-3	
NEPA2	'NE Plant Assets (WPAP) as of 6/30/2022	Plant-4	
SWPA1	SW Plant Assets (Non-WPAP) as of 6/30/2022	Plant-5	
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SEPA1	SE Plant Assets (Non-WPAP) as of 6/30/2022	Plant-7	
SEPA2	SE Plant Assets (WPAP) as of 6/30/2022	Plant-8	
SPLTFNC	All Plants - Assets by Plant Function as of 6/30/2022	Plant-9	
SLOCID	All Locations - Total Assets by Location ID as of 6/30/2022	Plant-10	
XXXXX	PAGE NOT IN USE	Plant-11	
SFAL	Summary of Fixed Asset Listing Control Totals as of 6/30/2022	Plant-12	

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
SPLTIndex - Index	P.N. 135647.0100	January 31, 2023 1:00 p.m.			Spltallo-1

Fixed Asset Listing as of date 6/30/2022

The "Spltallo" worksheet allocates sewer treatment plant investment and annual depreciation to cost functions. It also allocates wastewater system investment to individual contract customers.

Range	Description	Page Number	Table
SPLTIndex	Index	Spltallo-1	
NEInvest	Northeast Water Pollution Control Treatment Plant Investment	Spltallo-2	
SWInvest	Southwest Water Pollution Control Treatment Plant Investment	Spltallo-3	
SEInvest	Southeast Water Pollution Control Treatment Plant Investment	Spltallo-4	
TotalInvest	Water Pollution Control Treatment Plant Investment	Spltallo-5	
NEALLO1	Allocation of Test Year Investment for the NE WPCP - Part 1	Spltallo-6	Schedule BV-2: Table 7-12
NEALLO2	Allocation of Test Year Investment for the NE WPCP - Part 2	Spltallo-7	
NEALLO3	NE WPCP Alloc of Federal Grants For WPAP Projects	Spltallo-8	
SWALLO1	Allocation of Test Year Investment for the SW WPCP	Spltallo-9	Schedule BV-2: Table 7-13
SWALLO2	SW WPCP Alloc of Federal Grants For WPAP Projects	Spltallo-10	
SEALLO1	Allocation of Test Year Investment for the SE WPCP	Spltallo-11	Schedule BV-2: Table 7-14
SEALLO2	SE WPCP Alloc of Federal Grants For WPAP Projects	Spltallo-12	
SWReAllo1	SW WPAP Sludge Thickener Allocated To NE and SE Plants - Part 1	Spltallo-13	
SWReAllo2	Summary of SW WPAP Plant Allocated To NE and SE Plants - Part	Spltallo-14	
SWReAllo3	SW WPAP Sludge Digestion Allocated To NE and SE Plants - Part 3	Spltallo-15	
SWReAllo4	SW WPAP Sludge Gas Facilities Allocated To NE and SE Plants - Pa	Spltallo-16	
SWReAllo5	SW WPAP Sludge Disposal (Centrifuges) Allocated To NE and SE P	Spltallo-17	
SWReAllo6	SW WPAP Composting Facilities Allocated To NE and SE Plants - P	Spltallo-18	
SWReAllo7	SW WPAP Dewatering Facilities Allocated To NE and SE Plants - Pa	Spltallo-19	
SWReAllo8	SW Non-WPAP Sludge Disposal Facilities Allocated To NE and SE	Spltallo-20	
SWReAllo9	SW Non-WPAP Digesters Allocated To NE and SE Plants - Part 9	Spltallo-21	
SWReAllo10	SW WPAP Prelim. Trtmt Bldg Allocated To NE and SE Plants - Part	Spltallo-22	
SWReAllo11	SW WPAP Grit & Ash Transfer Allocated To NE and SE Plants - Pa	Spltallo-23	
ALLOC	Allocation of TY Plant Investment	Spltallo-24	
INVSTCap1	WPCP Investment Per Unit Of Capacity	Spltallo-25	Schedule BV-2: APPENDIX I TABLE 1
INVSTCap2	SW WPCP Treatment Plant Unit Costs	Spltallo-26	
INVSTCap3	Whlsl Units of Service for Treatment Plants	Spltallo-27	
TWNPALLO1	Abington Allocated Investment	Spltallo-28	Schedule BV-2: APPENDIX I TABLE 2
TWNPALLO2	Cheltenham Allocated Investment	Spltallo-29	Schedule BV-2: APPENDIX I TABLE 5
TWNPALLO3	Lower Merion Allocated Investment	Spltallo-30	Schedule BV-2: APPENDIX I TABLE 7
TWNPALLO4	Lower Moreland Allocated Investment	Spltallo-31	Schedule BV-2: APPENDIX I TABLE 8
TWNPALLO5	Lower Southhampton Allocated Investment	Spltallo-32	Schedule BV-2: APPENDIX I TABLE 9
TWNPALLO6	Springfield (excl. Wyndmoor) Allocated Investment	Spltallo-33	Schedule BV-2: APPENDIX I TABLE 10
CONVREV	Revisions to Conveyance Calculations	Spltallo-34	
TWNPALLO7	Sprngfield (Wyndmoor) Allocated Investment	Spltallo-35	Schedule BV-2: APPENDIX I TABLE 11
TWNPALLO8	Bensalem Allocated Investment	Spltallo-36	Schedule BV-2: APPENDIX I TABLE 3
TWNPALLO9	Bucks County Allocated Investment	Spltallo-37	Schedule BV-2: APPENDIX I TABLE 4
TWNPALLO10	DELCORA Allocated Investment	Spltallo-38	Schedule BV-2: APPENDIX I TABLE 6
TWNPALLO11	Upper Darby Allocated Investment	Spltallo-39	Schedule BV-2: APPENDIX I TABLE 12
CONVALLO	Treatment Plant Conveyance Investment Alloc To Townships	Spltallo-40	
LANDALLO	Allocation Of Land Investment To Contract Customers	Spltallo-41	
NEPLTINV	Northeast Water Pollution Control Treatment Plant Investment	Spltallo-42	
TWNSHP	Township Contributed Investment	Spltallo-43	
TYDepr	Test Year Annual Depreciation Expense	Spltallo-44	
TYInvest	Test Year Depreciable Plant Investment	Spltallo-45	
RTLInvest	Depreciable Plant Invest Alloc To Retail Service	Spltallo-46	

The "Somallo" worksheet allocates Wastewater System operation and maintenance expense to functional cost components. It also allocates O&M expense to the individual contract customers.

Range	Description	Page Number	Table
SOMIndex	Index	Somallo-1	
TYO&M	Test Year O&M Expenses	Somallo-2	
WO&M	Test Year O&M Expenses - Water	Somallo-3	
SO&M	Test Year O&M Expenses - Sewer	Somallo-4	
CL100A	Not in Use	Somallo-5	
CL100B	Not in Use	Somallo-6	
CL200A	Not in Use	Somallo-7	
CL200B	Not in Use	Somallo-8	
CL200LEA	Not in Use	Somallo-9	
CL200LEB	Not in Use	Somallo-10	
CL300A	Not in Use	Somallo-11	
CL300B	Not in Use	Somallo-12	
CL300LEA	Not in Use	Somallo-13	
CL300LEB	Not in Use	Somallo-14	
CL400A	Not in Use	Somallo-15	
CL400B	Not in Use	Somallo-16	
CL100SUM	Class 100 O&M Summary	Somallo-17	
CL200SUM	Class 200 O&M Summary	Somallo-18	
CL300SUM	Class 300 O&M Summary	Somallo-19	
CL400SUM	Class 400 O&M Summary	Somallo-20	
POWER	Test Year Power Costs	Somallo-21a	
GAS	Test Year Gas Costs	Somallo-21b	
TOTALOM	Test Year O&M Summary	Somallo-22	
NEOM	Allocation of O&M Expense to NE WPCP	Somallo-23	
SWOM	Allocation of O&M Expense to SW WPCP	Somallo-24	
SEOM	Allocation of O&M Expense to SE WPCP	Somallo-25	
RESPON	Treatment Plant Responsibilities	Somallo-26	
NEOMALLO1	Allocation of O&M For The NE WPCP - Page 1	Somallo-27	Schedule BV-2: Table 7-8
NEOMALLO2	Allocation of O&M For The NE WPCP - Page 2	Somallo-28	Schedule BV-2: Table 7-8
BASISALLO	Basis of Allocation of O&M Expense	Somallo-29	
NEOMSUM	Summary of Allocated O&M NE WPCP	Somallo-30	
SWOMALLO1	Allocation of O&M For The SW WPCP - Page 1	Somallo-31	Schedule BV-2: Table 7-9
SWOMALLO2	Allocation of O&M For The SW WPCP - Page 2	Somallo-32	Schedule BV-2: Table 7-9
SWOMSUM	Summary of Allocated O&M SW WPCP	Somallo-33	
SEOMALLO1	Allocation of O&M For The SE WPCP - Page 1	Somallo-34	Schedule BV-2: Table 7-10
SEOMALLO2	Allocation of O&M For The SE WPCP - Page 2	Somallo-35	Schedule BV-2: Table 7-10
SEOMSUM	Summary of Allocated O&M SE WPCP	Somallo-36	
OMALLO	Test Year O&M to Functional Components	Somallo-37	Schedule BV-2: Table 7-7
MISCOM	Miscellaneous Other O&M Allocations	Somallo-38	
TYOM	Test Year O&M to Functional Cost Components	Somallo-39	
TRMTPUMP	Unit Treatment & Pumping O&M to Contract Customers	Somallo-40	Schedule BV-2: APPENDIX I TABLE 13
TWNALLO1	O&M Allocated to Abington	Somallo-41	Schedule BV-2: APPENDIX I TABLE 14
TWNALLO2	O&M Allocated to Bensalem	Somallo-42	Schedule BV-2: APPENDIX I TABLE 15
SWMAINT	Allocation of Sewer Maintenance O&M to Townships	Somallo-43	
TWNALLO3	O&M Allocated to Buck County	Somallo-44	Schedule BV-2: APPENDIX I TABLE 16
TWNALLO4	O&M Allocated to Cheltenham	Somallo-45	Schedule BV-2: APPENDIX I TABLE 17
TWNALLO5	O&M Allocated to Lower Moreland	Somallo-46	Schedule BV-2: APPENDIX I TABLE 20
TWNALLO6	O&M Allocated to Lower Southampton	Somallo-47	Schedule BV-2: APPENDIX I TABLE 21
TWNALLO7	O&M Allocated to DELCORA	Somallo-48	Schedule BV-2: APPENDIX I TABLE 18
TWNALLO8	O&M Allocated to Springfield (excl. Wyndmoor)	Somallo-49	Schedule BV-2: APPENDIX I TABLE 22
TWNALLO9	O&M Allocated to Lower Merion	Somallo-50	Schedule BV-2: APPENDIX I TABLE 19
TWNALLO10	O&M Allocated to Upper Darby	Somallo-51	Schedule BV-2: APPENDIX I TABLE 24
TWNALLO11	O&M Allocated to Springfield (incl. Wyndmoor)	Somallo-52	Schedule BV-2: APPENDIX I TABLE 23
CONTRTOM	Summary of O&M Allocated to Contract Customers	Somallo-53	
RTLOM	Operation And Maintenance Expense Allocated To Retail	Somallo-54	Schedule BV-2: Table 7-6
MISCREV	Misc Revenue Adjustments	Somallo-55	

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
RETIndex - Index	P.N. 135647.0100	January 31, 2023 1:13 p.m.					Retcos-1

The "Retcos" worksheet develops unit costs of service and allocates the retail cost of service among retail customer types. It summarizes the allocated cost of service for contract customers, and it summarizes the cost of providing stormwater treatment.

Range	Description	Page Number	Table
RETIndex	Index	Retcos-1	
WWUnits	Units Of Wastewater Service	Retcos-2	
TOTOM	Total Contract and Retail O&M	Retcos-3	
DEPR	Test Year Depreciation	Retcos-4	
COLLSYS	Allocation Of Costs Between Sanitary and Stormwater	Retcos-5	
CONTRTPLN	Depreciable Plant Allocable To Contract Customers	Retcos-6	
RTLDPLNT	Determination Of Depreciable Plant Allocable To Retail Service	Retcos-7	
WWUCOS	Unit Costs Of Retail Wastewater Service	Retcos-8	Schedule BV-2: Table 7-16
ICROR	Inside City Rate Of Return	Retcos-9	
LUMPSUM	Annual Lump Sum Costs For Sewer Maintenance, Customer Related Costs, And Capital Costs	Retcos-10	
CTRCTCOS	Summary Of Allocated Cost Of Service for Contract Customers	Retcos-11	Schedule BV-2: Table 7-15
RTLCC	Allocation Of O&M Expense To Retail Service - Customer Costs	Retcos-12	
RTLPLNT	Allocation Of O&M Expense To Retail Service - Plant	Retcos-13	
RTLII	Allocated Infiltration/Inflow Costs for Inside City Retail Service	Retcos-14	Schedule BV-2: Table 7-18
RTLCCALLO	Allocation Of Capital Costs To Retail Service	Retcos-15	
RTLCOS	Retail Cost Of Service	Retcos-16	
RTLCOSSUM	Retail Cost Of Service Summary	Retcos-17	
XXXXX	PAGE NOT IN USE	Retcos-18	
RTLCOLL	Allocation Of O&M Expense To Retail Service - Collection System	Retcos-19	
GSCOS	Residential Excluding Senior Citizens Cost Of Service	Retcos-20	Schedule BV-2: Table 7-17 [Line 1]
XXXXX	PAGE NOT IN USE	Retcos-21	
RTLSINVEST	Retail Sewer Investment And Annual Costs Related To Sanitary Wastewater And Storm Water Functions	Retcos-22	
RTLPINVEST	Plant Investment Allocated To Retail Service Customers	Retcos-23	Schedule BV-2: Table 7-11
CONTINV	DELCORA Contributed Investment	Retcos-24	
SWCOS	Storm Water Cost Summary	Retcos-25	Schedule BV-2: Table 7-19

This table is designed to calculate Water Treatment Plant Sludge for each year of the study period
Whenever revenue requirements are changed, the "Update Table" macro button will need to be invoked several times in order for the fiscal year sludge calculations to stabilize and remain unchanged. For example, if the test year is the second year of the study period, the "Update Table" macro button will need to be invoked at least four times until the sludge value for that test year stops changing. It is suggested that the "Update Table" macro button be invoked until all years stabilize.
NOTE: For the macro to operate properly, there must be positive beginning values for Water Treatment Plant Sludge below. If ERR is in the row below, the macro will not work.
Replace ERR with a reasonable value, and the macro should work. **The linked Financial Plan & WCOS model files must be opened to run the macro**
After running the macro, copy the Water Treatment Plant Sludge values to the Previous Iteration's Values line. Do the same with O&M values.

Update Table	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	Test Year
	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$
O&M Portion of Line Below	11,214,006	12,933,521	13,910,151	15,074,774	15,824,938	17,049,272	18,266,204	18,438,716	19,580,247	20,551,929	21,422,051	22,547,059	23,580,106	24,502,706	25,368,949	12,933,521
Water Treatment Plant Sludg	14,570,012	16,592,337	18,043,183	20,080,960	21,490,504	22,989,007	25,125,836	25,693,968	27,761,152	29,496,778	30,939,410	33,088,401	35,159,797	36,812,915	38,089,332	
SW Allocation	39.5%	38.6%	38.4%	39.0%	39.2%	38.8%	39.1%	39.2%	39.4%	39.5%	39.4%	39.6%	39.7%	39.7%	38.9%	38.6%

Table last updated: Friday, January 6, 2023 - 5:36:28 PM

Previous Allocations

O&M Portion of Line Below	11,214,006	12,933,521	13,910,151	15,074,774	15,824,938	17,049,272	18,266,204	18,438,716	19,580,247	20,551,929	21,422,051	22,547,059	23,580,106	24,502,706	25,368,949
Water Treatment Plant Sludg	14,570,012	16,592,337	18,043,183	20,080,960	21,490,504	22,989,007	25,125,836	25,693,968	27,761,152	29,496,778	30,939,410	33,088,401	35,159,797	36,812,915	38,089,332
SW Allocation	39.5%	38.6%	38.4%	39.0%	39.2%	38.8%	39.1%	39.2%	39.4%	39.5%	39.4%	39.6%	39.7%	39.7%	38.9%

The "Ratedsn" worksheet develops retail cost of service wastewater rates for treating a Mcf of wastewater.

Range	Description	Page Number	Table
RDSNIndex	Index	Ratedsn-1	
ICRTLCOS	Inside City Retail Service Unit Costs Of Service For Rate Design	Ratedsn-2	
CSTSERV	Total Retail Cost of Service	Ratedsn-3	
RTLUCOS	Retail Unit Costs of Service	Ratedsn-4	
RTLADJCOS	Adjusted Retail Unit Costs	Ratedsn-5	Schedule BV-2: Table 8-1
DSCUSTCOS	Discount Customer COS Recovered by Other Retail Customers	Ratedsn-6	
ADJSUR	Adjusted COS Rates for Surcharge Customers	Ratedsn-7	
AVGCOST	Average Cost for Each Mcf of Water Billed - Adjusted COS Basis	Ratedsn-8	Schedule BV-2: Table 8-3
TYCOS	Test Year COS Adjusted to Recover Discounted COS from All Classes	Ratedsn-9	

The "Rates" worksheet develops contract service lump sum charges and unit costs.

Range	Description	Page Number	Table
RATESIndex	Index	Rates-1	
WHLCOST	Wholesale Lump Sum Costs - Maintenance, Customer & Capital Costs	Rates-2	
WHLALLO	Summary of Allocated Costs for Wholesale Customers	Rates-3	
IIRATE	Contract Service Rate Design Adjustment to Recover I/I Costs	Rates-4	
WHLCHARG	Summary Of Charges For Wholesale Contract Customers	Rates-5	
CTRCTREV1	Contract Service Revenues - Page 1	Rates-6	
CTRCTREV2	Contract Service Revenues - Page 2	Rates-7	
PLANTOM	Unit Net O&M Costs by Plant	Rates-8	

The "Servchg" worksheet develops the cost of service monthly service charge for 5/8 inch meters.

Range	Description	Page Number	Table
SERVIndex	Index	Servchg-1	
SRVCHG	Service Charge Design	Servchg-2	
ADJRTLCOS	Adjusted Retail COS Unit Costs	Servchg-3	
ADJCOSSUM	Summary of Adjusted COS Service Charges	Servchg-4	Schedule BV-2: Table 8-2
EQMBR	Equivalent Meter & Bill Ratios	Servchg-5	

The "SW LagRate" worksheet calculated projected billings and revenues under proposed stormwater rates.

Range	Page Number	Description
	SW LagRate - 1	PROJECTED BILLABLE PARCELS
	SW LagRate - 2	PROJECTED BILLABLE ACCOUNTS
	SW LagRate - 3	PROJECTED BILLABLE IMPERVIOUS AREA (1000 sq ft)
	SW LagRate - 4	PROJECTED BILLABLE GROSS AREA (1000 sq ft)
	SW LagRate - 5	PROJECTED BILLINGS UNDER COS RATES
	SW LagRate - 6	PROPOSED RATES (ADJUSTED FOR DISCOUNT RECOVERY AND LAG FACTOR)
	SW LagRate - 7	PROJECTED BILLINGS UNDER PROPOSED RATES
	SW LagRate - 8	STORMWATER REVENUES UNDER PROPOSED RATES-TEST YEAR 2024

File: SCOS23_24_ver1 (version 1).xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
LAGIndex - Index	P.N. 135647.0100	January 31, 2023 1:41 p.m.					LagRate-1

The "LagRate" worksheet refines cost of service rates to recognize billing lag and rate implementation refinements and develops proposed Sewer System rates for the test year and two following years.

Range	Description	Page Number	Table
LAGIndex	Index	LagRate-1	
COSRates	Existing and COS Rates	LagRate-2	
BILLCONS	Projected Accounts, Bills and Consumption	LagRate-3	
PBILLERates	Projected Gross Billings Under Existing Rates	LagRate-4	
BILLMETER	Historical Accounts by Meter Size & Billed Volume	LagRate-5	
BILLMETER1	FY 2024 Bills by Meter Size & Billed Volume	LagRate-6	
EBILLS	Historical Billings Under Existing Rates	LagRate-7	
BILLTABFTR	FY 2024 Bill Tab Adjustment Factors	LagRate-7a	
EUNITCHRG	Unit Charges Under Existing Rates	LagRate-8	
PBILLS	Billings Under COS Rates	LagRate-9	
PUNITCHRG	Unit Charges Under COS Rates	LagRate-10	
PBILLPRates	Projected Billings Under COS Rates	LagRate-11	
PBILLSUM	Summary of Projected Billings Under COS Rates	LagRate-12	
RECPTS	Calculation of Receipts (Under Proposed Rates) Reflecting Lag	LagRate-13	
TYRECPTS	Test Year Receipts with Lag	LagRate-14	
ADJCOS	Modified COS Rates to Account for Lag	LagRate-15	
CTRCTUnits	Contract Service Customers Billing Units	LagRate-16	
WHLCHRGS	Summary of Existing Charges for Wholesale Contract Customers	LagRate-17	
PRATES	Proposed Contract Rates and Percent Incr. Over Existing Rates	LagRate-18	
CTRCTANAI	Cntrct Serv. Proposed Rates Receipts Analysis - Part 1	LagRate-19	
CTRCTANAI	Cntrct Serv. Proposed Rates Receipts Analysis - Part 2	LagRate-19a	
COSCLASS	COS & Adjusted COS by Class	LagRate-20	
CTRCTACOS	Contract Customers Allocated Cost of Service	LagRate-21	
EREVCOM	Comparison of Revenue Under Existing Rates to COS	LagRate-22	
CTRCTREVC	Comparison of Contract Revenues Under Existing Rates and Adjusted Rat	LagRate-23	
TYCSTSERV	Test Year Cost of Service	LagRate-24	
PRATESGS	Proposed Wastewater Rates for General Service	LagRate-25	Schedule BV-2: Table 8-4
XXXXXX	Septic Hauler Fee Calculation	LagRate-26	
TYPBILLS	Typical Bills for Water and Wastewater	LagRate-27	
XXXXXX	PAGE NOT IN USE	LagRate-28	
XXXXXX	PAGE NOT IN USE	LagRate-29	
XXXXXX	PAGE NOT IN USE	LagRate-30	
PHRATESTA	Four Years of Phased Rates (No trending)	LagRate-31	
PHASE1BILL	Transition Phase 1 Typical Bills	LagRate-32	
PHASE2BILL	Transition Phase 2 Typical Bills	LagRate-33	
PHASE3BILL	Transition Phase 3 Typical Bills	LagRate-34	
CHRGCMP1	Comparison 1 of Typical Bills	LagRate-35	
CHRGCMP2	Comparison 2 of Typical Bills	LagRate-36	
PROPRCPTS	Page 1 of FY 2024 Proposed Receipts Calcs	LagRate-37	
PROPRCPTS	Page 2 of FY 2024 Proposed Receipts Calcs	LagRate-38	
XXXXXX	PAGE NOT IN USE	LagRate-39	
SSERVCHGS	2024 Components of Sewer Service Charges	LagRate-40	
XXXXXX	PAGE NOT IN USE	LagRate-41	
XXXXXX	PAGE NOT IN USE	LagRate-42	
SSERVCHGS	Summary of Components of Regular Sewer Service Charges	LagRate-43	
SSERVCHGS	Summary of Components of Discount Sewer Service Charges	LagRate-44	

SCOS23_24.XLS

UNITS

The "Units" worksheet develops the units of service for retail and contract customers, treatment plants, and pumping stations. It also develops equivalent bills and meters.

Range	Description	Page Number	Table
UnitsInd	Index	Units-1	
CSUNITS	OC Contract Service Sewer Units	Units-2	SCHEDULE BV_2: TABLE 7-4
UNTSER	Units of Sewer Service	Units-3	
TRMTUTS	Treatment Plant Units	Units-4	
PSUTS	Pumping Stations Units	Units-5	
SWRUTS	Sewer Units	Units-6	SCHEDULE BV-2: TABLE 7-3
TPFS	Trtmt Plant Flows and Strengths	Units-7	
CCSF	Customer Type Sanitary Flows	Units-8	
RTLUNT	Retail Sewer Units	Units-9	
BILLTAB	FY 2016 Bill Distribution & TY Number of Bills	Units-10	
TYBILLS	FY 2024 Test Year Sewer Bills	Units-11	
TYMTRS	FY 2024 Test Year Equiv. Sewer Meters	Units-12	
TYUOS	FY 2024 Units of Wastewater Service	Units-13	
CCAS	Contract Customers Average Strengths	Units-14	SCHEDULE BV-2: TABLE 7-5
RATIOS	Equiv. Bill and Meter Ratios	Units-15	
CNTRCTUNI	Contract Maximum Limits	Units-16	

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
CSUNITS - OC Contract Service Sewer Units	P.N. 135647.0100	January 27, 2023 1:44 p.m.			Units-2

Reference: Customer-19 Financial Plan Model

OUTSIDE CITY CONTRACT SERVICE UNITS OF WASTEWATER SERVICE

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(1)	(12)	(13)	(14)	(15)	
			Northeast WPC Plant							Southwest WPC Plant					Southeast WPC Plant		
Line No.		Units	Abington	Bensalem	Bucks County	Cheltenham	Lower Moreland	Lower Southhampton	Total Northeast	DELCORA	Lower Merion	Springfield (Excluding Wyndmoor)	Upper Darby	Total Southwest	Springfield (Wyndmoor)	Total	
	FY 2024 Test Year																
	Volume:								1,468,000	Total Northeast excluding Cheltenham							
1	Sanitary Wastewater	(Mcf)	92,000	150,000	894,000	411,000	62,000	270,000	1,879,000	1,087,000	310,000	109,000	451,000	1,957,000	18,000	3,854,000	
2	Infiltration	(Mcf)	4,500	5,600	35,100	15,000	2,800	7,500	70,500		14,900	2,200	16,600	33,700	900	105,100	
3	Total	(Mcf)	96,500	155,600	929,100	426,000	64,800	277,500	1,949,500	1,087,000	324,900	111,200	467,600	1,990,700	18,900	3,959,100	
									1,523,500	Total Northeast excluding Cheltenham							
	Suspended Solids:																
4	Sanitary Wastewater	(1,000 lbs)	998	1,568	10,541	3,069	626	1,964	18,765	12,017	3,234	2,141	4,392	21,784	215	40,765	
5	Infiltration	(1,000 lbs)	20	24	153	66	12	33	308		65	10	73	148	4	460	
6	Total	(1,000 lbs)	1,018	1,592	10,694	3,135	638	1,997	19,073	12,017	3,299	2,151	4,465	21,932	219	41,225	
	BOD																
7	Sanitary Wastewater	(1,000 lbs)	1,343	1,623	10,369	2,682	470	1,633	18,120	10,202	2,760	2,116	3,745	18,823	166	37,109	
8	Infiltration	(1,000 lbs)	3	3	22	9	2	5	44		9	1	10	20	1	65	
9	Total	(1,000 lbs)	1,346	1,626	10,391	2,691	472	1,638	18,164	10,202	2,769	2,117	3,755	18,843	167	37,174	
	Contract Maximum Units									Units-16	Units-16	Units-16					
	Capacity:		Units-16	Units-16	Units-16	Units-16	Units-16	Units-16	10,126	Total Northeast excluding Cheltenham			Units-16		Units-16		
	Sanitary Wastewater	(cfs)	9.542	11.740	74.260	31.750	5.880	15.790		155.000	31.570	4.600	35.000		1.930		
10	Sanitary Wastewater	(Mcf/day)	824	1,014	6,416	2,743	508	1,364	12,869	13,392	2,728	397	3,024	19,541	167	32,577	Units-3
11	Infiltration	(Mcf/day)	20	20	140	60	10	30	280		60	10	70	140	0	420	1.5
12	Total	(Mcf/day)	844	1,034	6,556	2,803	518	1,394	13,149	13,392	2,788	407	3,094	19,681	167	32,997	I/I
									10,346	Total Northeast excluding Cheltenham							
	Volume:		Units-16	Units-16	Units-16	Units-16	Units-16	Units-16		Units-16	Units-16	Units-16	Units-16		Units-16		
	Sanitary Wastewater	(mgd)	4.453	6.133	24.000	13.410	1.900	7.140		50.000	14.500	3.200	17.000		1.000		
13	Sanitary Wastewater	(Mcf)	217,292	299,271	1,171,123	654,370	92,714	348,409	2,783,179	2,439,840	707,553	156,150	829,545	4,133,088	48,797	6,965,064	
14	Infiltration	(Mcf)	4,500	5,600	35,100	15,000	2,800	7,500	70,500		14,900	2,200	16,600	33,700	900	105,100	1.5%
15	Total	(Mcf)	221,792	304,871	1,206,223	669,370	95,514	355,909	2,853,679	2,439,840	722,453	158,350	846,145	4,166,788	49,697	7,070,164	I/I
	Suspended Solids:		Units-16	Units-16	Units-16	Units-16	Units-16	Units-16		Units-16	Units-16	Units-16	Units-16		Units-16		
16	Sanitary Wastewater	(1,000 lbs)	2,481	3,734	13,400	5,635	966	6,000	32,216	19,487	7,250	3,300	7,349	37,386	200	69,802	
17	Infiltration (a)	(1,000 lbs)	20	24	153	66	12	33	308		65	10	73	148	4	460	
18	Total	(1,000 lbs)	2,501	3,758	13,553	5,701	978	6,033	32,524	19,487	7,315	3,310	7,422	37,534	204	70,262	
	BOD:		Units-16	Units-16	Units-16	Units-16	Units-16	Units-16		Units-16	Units-16	Units-16	Units-16		Units-16		
19	Sanitary Wastewater	(1,000 lbs)	2,102	5,340	13,400	4,900	729	5,500	31,971	21,771	6,871	3,100	6,831	38,573	155	70,699	
20	Infiltration	(1,000 lbs)	3	3	22	9	2	5	44		9	1	10	20	1	65	
21	Total	(1,000 lbs)	2,105	5,343	13,422	4,909	731	5,505	32,015	21,771	6,880	3,101	6,841	38,593	156	70,764	

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

(a) I/I SS ppm allowance	70	70
(a) I/I BOD ppm allowance	10	10

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
UNTSER - Units of Sewer Service	P.N. 135647.0100	January 27, 2023 1:44 p.m.			Units-3

Reference: Customer-12 Financial Plan Model

UNITS OF WASTEWATER SERVICE
Test Year 2024

Customer Type	(1) FY 2024 Test Year (a) Mcf Wtr Sales * 0.95	(2) Capacity Flow Rate Collection System (b) Mcf/day (7) / 365 * capacity ftr	(3) Capacity Flow Rate Pumping and Treatment (c) Mcf/day (7) / 365 * capacity ftr
Residential (5/8)	2,521,335	27,631	10,362
Residential (>5/8)	397,965	4,361	1,635
Commercial (5/8)	270,465	2,964	1,112
Commercial (>5/8)	1,242,212	13,613	5,105
Industrial (5/8)	5,798	64	24
Industrial (>5/8)	47,999	526	197
Public Utilities (5/8)	304	3	1
Public Utilities (>5/8)	9,774	107	40
Senior Citizens (5/8)	114,057	1,250	469
Senior Citizens (>5/8)	98	1	0
Water Plant Sludge	292,800	3,209	1,203
Housing Authority	145,224	1,591	597
Charities & Schools	118,608	1,300	487
Hospital/University	50,294	551	207
Hand Billed	406,523	4,455	1,671
xxxxxxxxxx	0	0	0
Sewer Only	142,990	1,567	588
Groundwater	211,696	4,640	1,450
Fire Meters	95	1	0
Scheduled (Flat Rate)	59	1	0
xxxxxxxxxx	0	0	0
Subtotal Retail Sanitary	5,978,295	67,835	25,148
	Units-4 - above		
I/I	12,021,605	263,487	82,340
Total Retail Service	17,999,900	331,322	107,488
Contract Service:	Units-2	Units-2	Units-2
Sanitary	3,854,000	32,577	32,577
I/I	105,100	420	420
Total	3,959,100	32,997	32,997
Total System	21,959,000	364,319	140,485

(a) Adjusted to exclude 5% not entering sewers.
(b) Retail capacity factor = 4.0, I/I and Groundwater capacity factor = 8.0.
(c) Retail capacity factor = 1.5, I/I and Groundwater capacity factor = 2.5.

Capacity Factors	
Sanitary Sewerage:	
Collection System Capacity Factor	4.0
Pumping and Trtmt Capacity Factor	1.5
Infiltration/Inflow:	
Collection System Capacity Factor	8.0
Pumping and Trtmt Capacity Factor	2.5

Note: Groundwater is assigned the I/I peaking factors

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
TRMTUTS - Treatment Plant Units	P.N. 135647.0100	January 27, 2023 1:44 p.m.			Units-4

TREATMENT PLANTS UNITS OF SERVICE

	FY 2024 Test Year Volume			FY 2024 Test Year Capacity			FY 2024 Test Year Treatment Plant			
									average plant strengths	
Plant	Total	Contract Customers	Net Retail	Total	Contract Customers	Net Retail	SS	BOD	SS	BOD
	Mcf	Mcf	Mcf	Mcf/day	Mcf/day	Mcf/day	1,000 lbs	1,000 lbs	ppm	ppm
	Units-7	Units-2		Units-3	Units-2				Pltdes-5	Pltdes-5
NE	8,995,000	1,949,500	7,045,500	57,546	13,149	44,397	107,822	80,041	192	143
SW	8,914,000	1,990,700	6,923,300	57,028	19,681	37,347	81,226	55,340	146	100
SE	4,050,000	18,900	4,031,100	25,911	167	25,744	33,758	26,749	134	106
Total	21,959,000	3,959,100	17,999,900	140,485	32,997	107,488	222,806	162,130	163	118

PUMPING STATIONS UNITS OF SERVICE

Central Schuylkill Pumping Station

Volume:	3,425,000	Mcf/yr
Capacity:		
Total Capacity of CSPS (Mcf/day)	22,110	Prior Rate Proceeding
Contract Maximum Springfield (excluding Wyndmoor) (Mcf/day)	370	Prior Rate Proceeding

Neill Drive Pumping Station

Volume:	61,250	Mcf/yr
Capacity:		
Total Capacity of NDPS (Mcf/day)	370	Prior Rate Proceeding

UNITS OF WASTEWATER SERVICE
Test Year 2024

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		Capacity Flow Rate		Strength		Customer			
Customer Class	FY 2024 Test Year	Collection System	Pumping and Treatment	Suspended Solids (b)	BOD (c)	Equivalent Bills	Equivalent Meters	Equivalent Service Meters	Bills
	Mcf	Mcf/day	Mcf/day	1,000 lbs	1,000 lbs				
	Units-3	(7) / 365	(8) * capacity factor			Units-11	Units-12	Units-12	
Residential	2,919,305	31,992	11,998	54,649	53,739	5,336,266	477,314	444,398	5,306,988
Commercial	1,512,677	16,577	6,216	28,317	27,845	531,071	111,993	38,934	450,012
Industrial	53,797	590	221	1,007	990	15,100	4,114	1,090	12,084
Public Utilities	10,078	110	41	189	186	4,075	1,547	218	2,556
Senior Citizens	114,155	1,251	469	2,137	2,101	253,864	21,174	21,155	253,848
Sewer Only	142,990	1,567	588	2,677	2,632	1,314	463	61	756
Groundwater	211,696	4,640	1,450	925	132				
Surcharge	0	0	0	2,152	13,842				
Water Treatment Plant Sludge	292,800	3,209	1,203	27,200					
Housing Authority	145,224	1,591	597	2,719	2,673	70,174	9,138	5,605	66,336
Charities & Schools	118,608	1,300	487	2,220	2,183	32,863	12,706	1,423	19,224
Hospital/University	50,294	551	207	942	926	2,362	1,279	34	768
Hand Billed	406,523	4,455	1,671	7,610	7,483	8,036	4,500	90	2,388
xxxxxxxxxx	0	0	0	0	0	0	0	0	0
Fire Meters	95	1	0	2	2	0	0	0	0
Scheduled (Flat Rate)	59	1	0	1	1	120	10	10	120
xxxxxxxxxx	0	0	0	0	0	0	0	0	0
Subtotal Retail Sanitary	5,978,300	67,835	25,148	132,747	114,735	6,255,245	644,238	513,017	6,115,080
I/I	12,021,600	263,487	82,340	52,496	7,499				
Total Retail Service	17,999,900	331,322	107,488	185,243	122,234	6,255,245	644,238	513,017	6,115,080
Contract Service:		Units-3	Units-3	Units-9	Units-9				
Sanitary	3,854,000	32,577	32,577	40,765	37,109				
I/I	105,100	420	420	459	66				
Total	3,959,100	32,997	32,997	41,224	37,175				
Total System	21,959,000	364,319	140,485	226,467	159,410				

(a) Adjusted to exclude 5% not entering sewers.
(b) Retail SS @ 300 mg/l
(c) Retail BOD @ 295 mg/l

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
TPFS - Trtmt Plant Flows and Strengths	P.N. 135647.0100	January 27, 2023 1:44 p.m.			Units-7

Units of Service - Treatment Plant Flows and Strengths
Test Year 2024

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
			BOD				SS			
			Basis of Allocation				Basis of Allocation			
Plant	Influent Flow		Average Strength	Total Pounds	Allocation of Total Pounds	Resulting Average Strength	Average Strength	Total Pounds	Allocation of Total Pounds	Resulting Average Strength
	mgd Pltdes-5	Mcf Units-4	ppm Pltdes-5	1,000 lbs Units-4	1,000 lbs Allocate Units-6 on Col. (4)	ppm (5)/(1)/365 /.00834	ppm Pltdes-5	1,000 lbs Units-4	1,000 lbs Allocate Units-6 on Col. (8)	ppm (9)/(1)/365 /0.00834
NE	184	8,995,000	143	80,041	78,699	140	192	107,822	109,593	195
SW	183	8,914,000	100	55,340	54,411	98	146	81,226	82,561	148
SE	83	4,050,000	106	26,749	26,300	104	134	33,758	34,313	136
Total	450	21,959,000	118	162,130	159,410	116	163	222,806	226,467	165

ESTIMATED ANNUAL SANITARY WASTEWATER CONTRIBUTION BY CUSTOMER TYPE

Test Year 2024

Line No.	Customer Type	(1) Total Volume Billable for Wastewater Service (a)	(2) Estimated Wastewater Contribution Factor	(3) Estimated Annual Sanitary Wastewater Volume
		Mcf		Mcf
		(3) / [(2)/100]		Units-6
1	Residential	3,073,000	95	2,919,305
2	Commercial	1,592,300	95	1,512,677
3	Industrial	56,600	95	53,797
4	Public Utilities	10,600	95	10,078
5	Senior Citizens	120,200	95	114,155
6	Sewer Only	150,500	95	142,990
7	Groundwater	211,700	100	211,696
8	Housing Authority	152,900	95	145,224
9	Charities & Schools	124,900	95	118,608
10	Hospital/University	52,900	95	50,294
11	Hand Billed	427,900	95	406,523
12	xxxxxxxxxx	0	95	0
13	Fire Meters	100	95	95
14	Scheduled	100	95	59
15	xxxxxxxxxx	0	95	0
16	Total Retail	5,973,700	95	5,685,500
17	Contract Service (b)	3,854,000	100	3,854,000
18	Total System	9,827,700	97	9,539,500

Mcf - Thousand cubic feet

(a) Water purchased by retail service customers and wastewater flows from contract service customers and wastewater only customers.
(b) Includes areas served under contracts with 10 separate suburban authorities.

Units of Service - Retail
Average BOD and SS Strengths
Test Year 2024

Line No.		(1) BOD	(2) SS	(3) Volume	(4) BOD	(5) SS
		1,000 lbs	1,000 lbs	mgd	mg/l	mg/l
			Calc from Units-6			
1	Total Pounds Flowing Into Treatment Plants	162,130	222,806	450.0	118.356	162.651
	Less Infiltration /Inflow Contribution					
	Contract Customers			2.2		
2	BOD @ 10 ppm x 105,100.0 Mcf	66				
3	SS @ 70 ppm x 105,100.0 Mcf		459			
	Retail Customers			246.4		
4	BOD @ 10 ppm x 12,021,600 Mcf	7,499				
5	SS @ 70 ppm x 12,021,600 Mcf		52,496			
		Units-2	Units-2	Units-2		
6	Less Contract Customers Sanitary Contribution	37,109	40,765	79.0		
7	Subtotal Retail Sanitary Contribution	117,456	129,086	122.4		
8	Less Surcharge Excess Strength Contribution	13,842	2,152		Projection based average loading per account and projected surcharge accounts	
9	Less Water Treatment Plant Sludge (a)		27,200	6.0	Based on historical WTP Sludge volume and loading data	
10	Net Normal Strength Retail	103,613	99,734	116.4		
11	Resulting Retail Average Strength of Sanitary Volume Contributed to Collection System	292.418	281.470			
					Estimated Infiltration/Inflow Strengths	
		USE	USE		BOD	SS
12	Average Retail Strengths (mg/l)	295	300		10	70

(a) Includes 27,200,000 lbs. of SS from Water Treatment Plant sludge.

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
BILLTAB - FY 2016 Bill Distribution & TY Number of Bills	P.N. 135647.0100	January 27, 2023 1:44 p.m.			Units-10

Source: Financial Planning Model - Btab

	Total Count	5/8" R	3/4" Z	1" Q	1-1/4" Y	1-1/2" P	2" X	3" O	4" W	6" N	8" V	10" E	12" T	
Percentage Distribution of Accounts														
Residential	1.000000	0.973652	0.000152	0.021644	0.000000	0.002521	0.001536	0.000340	0.000118	0.000028	0.000007	0.000002	0.000000	x
Commercial	1.000000	0.759749	0.000245	0.092193	0.000000	0.041661	0.059158	0.024763	0.015048	0.005361	0.001333	0.000490	0.000000	
Industrial	1.000000	0.492582	0.000000	0.228487	0.000000	0.080119	0.114738	0.061325	0.015826	0.006924	0.000000	0.000000	0.000000	
Public Utilities	1.000000	0.407216	0.000000	0.195876	0.000000	0.077320	0.144330	0.097938	0.041237	0.025773	0.010309	0.000000	0.000000	
Senior Citizens	1.000000	0.999501	0.000000	0.000499	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
Sewer Only	1.000000	0.730159	0.015873	0.079365	0.000000	0.000000	0.063492	0.000000	0.047619	0.031746	0.015873	0.015873	0.000000	x
Groundwater	1.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	x
Housing Authority	1.000000	0.927626	0.000000	0.005472	0.000000	0.033716	0.019064	0.006531	0.004590	0.002118	0.000883	0.000000	0.000000	x
Charities & Schools	1.000000	0.429766	0.000000	0.134894	0.000000	0.062430	0.111483	0.105909	0.139353	0.013935	0.002230	0.000000	0.000000	x
Hospital/University	1.000000	0.044444	0.000000	0.162963	0.000000	0.059259	0.111111	0.259259	0.207407	0.118519	0.022222	0.014815	0.000000	x
Hand Billed	1.000000	0.077626	0.000000	0.036530	0.000000	0.041096	0.136986	0.273973	0.273973	0.114155	0.027397	0.018265	0.000000	
Scheduled	1.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
xxxxxxxxxx	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
xxxxxxxxxx	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	x
Fire Service	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	

Number of Bills - TY 2024	
Residential	5,306,988
Commercial	450,012
Industrial	12,084
Public Utilities	2,556
Senior Citizens	253,848
Sewer Only	756
Groundwater	60
Housing Authority	66,336
Charities & Schools	19,224
Hospital/University	768
Hand Billed	2,388
Scheduled	120
xxxxxxxxxx	0
xxxxxxxxxx	0
Fire Service	0

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
TYBILLS - FY 2024 Test Year Sewer Bills	P.N. 135647.0100	January 27, 2023 1:44 p.m.			Units-11

Reference: Financial Plan Model Customer-1 and Assumptions-41

EQUIVALENT WASTEWATER BILLS
Retail Customers
Excludes Water Only; Includes Sewer Only
Test Year 2024

	FY 2024 Test Year Number of Bills(a)	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"	6"	8"	10"	12"	14"
	Ref. A	Test Years bills allocated based on Units-10												
Equivalent Bill Factor		1.0	1.0	1.1	1.2	1.2	1.5	2.0	4.0	7.0	10.0	15.0	20.0	23.0
Residential														
Bills														
5/8"	5,131,272	5,131,272												
>5/8"	175,716		1,017	144,345	0	16,810	10,247	2,265	786	185	46	15	0	
Total Bills	5,306,988	5,131,272	1,017	144,345	0	16,810	10,247	2,265	786	185	46	15	0	
Equivalent Bills	5,336,266	5,131,272	1,017	158,780	0	20,172	15,371	4,530	3,144	1,295	460	225	0	
Commercial														
Bills														
5/8"	334,128	334,128												
>5/8"	115,884		118	44,469	0	20,095	28,535	11,944	7,258	2,586	643	236	0	
Total Bills	450,012	334,128	118	44,469	0	20,095	28,535	11,944	7,258	2,586	643	236	0	
Equivalent Bills	531,071	334,128	118	48,916	0	24,114	42,803	23,888	29,032	18,102	6,430	3,540	0	
Industrial														
Bills														
5/8"	5,880	5,880												
>5/8"	6,204		0	2,793	0	980	1,403	750	193	85	0	0	0	
Total Bills	12,084	5,880	0	2,793	0	980	1,403	750	193	85	0	0	0	
Equivalent Bills	15,100	5,880	0	3,072	0	1,176	2,105	1,500	772	595	0	0	0	
Public Utilities														
Bills														
5/8"	996	996												
>5/8"	1,560		0	515	0	203	380	258	109	68	27	0	0	
Total Bills	2,556	996	0	515	0	203	380	258	109	68	27	0	0	
Equivalent Bills	4,075	996	0	567	0	244	570	516	436	476	270	0	0	
Senior Citizens														
Bills														
5/8"	253,692	253,692												
>5/8"	156		0	156	0	0	0	0	0	0	0	0	0	
Total Bills	253,848	253,692	0	156	0	0	0	0	0	0	0	0	0	
Equivalent Bills	253,864	253,692	0	172	0	0	0	0	0	0	0	0	0	
Sewer Only														
Bills	756	552	12	60	0	0	48	0	36	24	12	12	0	
Equivalent Bills	1,314	552	12	66	0	0	72	0	144	168	120	180	0	

Groundwater													
Bills	60	60	0	0	0	0	0	0	0	0	0	0	0
Equivalent Bills	60	60	0	0	0	0	0	0	0	0	0	0	0
Housing Authority													
Bills	66,336	61,534	0	363	0	2,237	1,265	433	304	141	59	0	0
Equivalent Bills	70,174	61,534	0	399	0	2,684	1,898	866	1,216	987	590	0	0
Charities & Schools													
Charities & Schools													
Bills	19,224	8,262	0	2,593	0	1,200	2,143	2,036	2,679	268	43	0	0
Equivalent Bills	32,863	8,262	0	2,852	0	1,440	3,215	4,072	10,716	1,876	430	0	0
Hospitals and Universities													
Bills	768	35	0	125	0	46	85	199	159	91	17	11	0
Equivalent Bills	2,362	35	0	138	0	55	128	398	636	637	170	165	0
Hand Billed													
Bills	2,388	186	0	87	0	98	327	654	654	273	65	44	0
Equivalent Bills	8,036	186	0	96	0	118	491	1,308	2,616	1,911	650	660	0
Scheduled													
Bills	120	120	0	0	0	0	0	0	0	0	0	0	0
Equivalent Bills	120	120	0	0	0	0	0	0	0	0	0	0	0
xxxxxxxxxx													
Bills	0	0	0	0	0	0	0	0	0	0	0	0	0
Equivalent Bills	0	0	0	0	0	0	0	0	0	0	0	0	0
xxxxxxxxxx													
Bills	0	0	0	0	0	0	0	0	0	0	0	0	0
Equivalent Bills	0	0	0	0	0	0	0	0	0	0	0	0	0
Fire Service													
Bills	0	0	0	0	0	0	0	0	0	0	0	0	0
Equivalent Bills	0	0	0	0	0	0	0	0	0	0	0	0	0
Total													
Bills	6,115,080	5,796,657	1,147	195,506	0	41,669	44,433	18,539	12,178	3,721	912	318	0
Equivalent Bills	6,255,245	5,796,657	1,147	215,058	0	50,003	66,653	37,078	48,712	26,047	9,120	4,770	0

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
TYMTRS - FY 2024 Test Year Equiv. Sewer Meters	P.N. 135647.0100	January 27, 2023 1:44 p.m.			Units-12

EQUIVALENT WASTEWATER "METERS"
Retail Customers
Excludes Water Only; Includes Sewer Only
Test Year 2024

	FY 2024 Test Year Number of Meters(a)	5/8	3/4	1	1 1/4	1 1/2	2	3	4	6	8	10	12	14
		Number of Bills (Units-11) / 12												
Equivalent Meter Factor (Capacity)		1.0	1.5	2.5	3.8	5.0	8.0	15.0	25.0	50.0	80.0	115.0	215.0	225.0
Equivalent Meter Factor (Service)		1.0	1.0	1.1	1.2	1.2	2.1	10.0	12.0	15.0	19.0	25.0	28.0	45.0
Residential														
Meters	442,250	427,606	85	12,029	0	1,401	854	189	66	15	4	1	0	
Equivalent Meters	477,314	427,606	128	30,073	0	7,005	6,832	2,835	1,650	750	320	115	0	
Equivalent Service	444,398	427,606	85	13,232	0	1,681	1,793	0	0	0	0	0	0	0
Commercial														
Meters	37,503	27,844	10	3,706	0	1,675	2,378	995	605	216	54	20	0	
Equivalent Meters	111,993	27,844	15	9,265	0	8,375	19,024	14,925	15,125	10,800	4,320	2,300	0	
Equivalent Service	38,934	27,844	10	4,077	0	2,010	4,994	0	0	0	0	0	0	0
Industrial														
Meters	1,008	490	0	233	0	82	117	63	16	7	0	0	0	
Equivalent Meters	4,114	490	0	583	0	410	936	945	400	350	0	0	0	
Equivalent Service	1,090	490	0	256	0	98	246	0	0	0	0	0	0	0
Public Utilities														
Meters	214	83	0	43	0	17	32	22	9	6	2	0	0	
Equivalent Meters	1,547	83	0	108	0	85	256	330	225	300	160	0	0	
Equivalent Service	218	83	0	47	0	20	67	0	0	0	0	0	0	0
Senior Citizens														
Meters	21,154	21,141	0	13	0	0	0	0	0	0	0	0	0	
Equivalent Meters	21,174	21,141	0	33	0	0	0	0	0	0	0	0	0	
Equivalent Service	21,155	21,141	0	14	0	0	0	0	0	0	0	0	0	0
Sewer Only														
Meters	63	46	1	5	0	0	4	0	3	2	1	1	0	
Equivalent Meters	463	46	2	13	0	0	32	0	75	100	80	115	0	
Equivalent Service	61	46	1	6	0	0	8	0	0	0	0	0	0	0
Groundwater														
Meters	5	5	0	0	0	0	0	0	0	0	0	0	0	
Equivalent Meters	5	5	0	0	0	0	0	0	0	0	0	0	0	
Equivalent Service	5	5	0	0	0	0	0	0	0	0	0	0	0	0
Housing Authority														
Meters	5,527	5,128	0	30	0	186	105	36	25	12	5	0	0	
Equivalent Meters	9,138	5,128	0	75	0	930	840	540	625	600	400	0	0	
Equivalent Service	5,605	5,128	0	33	0	223	221	0	0	0	0	0	0	0

Charities & Schools														
Charities & Schools														
Meters	1,603	689	0	216	0	100	179	170	223	22	4	0	0	
Equivalent Meters	12,706	689	0	540	0	500	1,432	2,550	5,575	1,100	320	0	0	
Equivalent Service	1,423	689	0	238	0	120	376	0	0	0	0	0	0	0
Hospital/University														
Meters	64	3	0	10	0	4	7	17	13	8	1	1	0	
Equivalent Meters	1,279	3	0	25	0	20	56	255	325	400	80	115	0	
Equivalent Service	34	3	0	11	0	5	15	0	0	0	0	0	0	0
Hand Billed														
Meters	200	16	0	7	0	8	27	55	55	23	5	4	0	
Equivalent Meters	4,500	16	0	18	0	40	216	825	1,375	1,150	400	460	0	
Equivalent Service	90	16	0	8	0	10	57	0	0	0	0	0	0	0
Scheduled														
Meters	10	10	0	0	0	0	0	0	0	0	0	0	0	
Equivalent Meters	10	10	0	0	0	0	0	0	0	0	0	0	0	
Equivalent Service	10	10	0	0	0	0	0	0	0	0	0	0	0	0
xxxxxxxxxx														
Meters	0	0	0	0	0	0	0	0	0	0	0	0	0	
Equivalent Meters	0	0	0	0	0	0	0	0	0	0	0	0	0	
Equivalent Service	0	0	0	0	0	0	0	0	0	0	0	0	0	0
xxxxxxxxxx														
Meters	0	0	0	0	0	0	0	0	0	0	0	0	0	
Equivalent Meters	0	0	0	0	0	0	0	0	0	0	0	0	0	
Equivalent Service	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fire Service														
Meters	0	0	0	0	0	0	0	0	0	0	0	0	0	
Equivalent Meters	0	0	0	0	0	0	0	0	0	0	0	0	0	
Equivalent Service	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total (b)														
Meters	509,596	483,056	96	16,292	0	3,473	3,703	1,547	1,015	311	76	27	0	
Equivalent Meters	644,238	483,056	145	40,733	0	17,365	29,624	23,205	25,375	15,550	6,080	3,105	0	
Equivalent Service	513,017	483,056	96	17,921	0	4,168	7,776	0	0	0	0	0	0	

(a) Including Wastewater Only.
(b) Excludes Groundwater

TABLE WH - 4

UNITS OF WASTEWATER SERVICE
TEST YEAR 2024

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
			Capacity Flow Rate		Strength		Customer			
Line No.	Customer Type	FY 2024 Test Year Volume	Collection System	Pumping and Treatment	Suspended Solids	BOD	Equivalent Bills	Equivalent Meters	Equivalent Service	Bills
		Mcf Units-6	Mcf/day Units-6	Mcf/day Units-6	1,000 lbs Units-6	1,000 lbs Units-6	Units-6	Units-6	Units-6	
1	Residential	2,919,305	31,992	11,998	54,649	53,739	5,336,266	477,314	444,398	5,306,988
2	Commercial	1,512,677	16,577	6,216	28,317	27,845	531,071	111,993	38,934	450,012
3	Industrial	53,797	590	221	1,007	990	15,100	4,114	1,090	12,084
4	Public Utilities	10,078	110	41	189	186	4,075	1,547	218	2,556
5	Senior Citizens	114,155	1,251	469	2,137	2,101	253,864	21,174	21,155	253,848
6	Sewer Only	142,990	1,567	588	2,677	2,632	1,314	463	61	756
7	Groundwater	211,696	4,640	1,450	925	132	0	0	0	0
8	Surcharge				2,152	13,842				0
9	Water Treatment Plant Sludge	292,800	3,209	1,203	27,200					
10	Housing Authority	145,224	1,591	597	2,719	2,673	70,174	9,138	5,605	66,336
11	Charities	168,901	1,851	694	3,162	3,109	35,225	13,985	1,456	19,992
12	Hand Billed	406,523	4,455	1,671	7,610	7,483	8,036	4,500	90	2,388
13	xxxxxxxxxx	0	0	0	0	0	0	0	0	0
14	Fire Meters	95	1	0	2	2	0	0	0	0
15	Scheduled	59	1	0	1	1	120	10	10	120
16	xxxxxxxxxx	0	0	0	0	0	0	0	0	0
17	Subtotal Retail Sanitary	5,978,300	67,835	25,148	132,747	114,735	6,255,245	644,238	513,017	6,115,080
18	Infiltration/Inflow	12,021,600	263,487	82,340	52,496	7,499				0
19	Total Retail Service	17,999,900	331,322	107,488	185,243	122,234	6,255,245	644,238	513,017	6,115,080
20	Contract Service:									
21	Sanitary	3,854,000	32,577	32,577	40,765	37,109				
22	Infiltration/Inflow	105,100	420	420	459	66				
23	Total Contract Service	3,959,100	32,997	32,997	41,224	37,175				
24	Total System	21,959,000	364,319	140,485	226,467	159,410				

TABLE WH - 4

ESTIMATED AVERAGE WASTEWATER STRENGTH CONCENTRATIONS FOR CONTRACT CUSTOMERS

Test Year 2024

	Projected Wastewater Strength Loadings	
	Suspended Solids 1,000 lbs	BOD 1,000 lbs
Abington	998	1,343
Bensalem	1,568	1,623
Bucks County	10,541	10,369
Cheltenham	3,069	2,682
DELCORA	12,017	10,202
Lower Merion	3,234	2,760
Lower Moreland	626	470
Lower Southhampton	1,964	1,633
Springfield (excluding Wyndmoor)	2,141	2,116
Springfield (Wyndmoor)	215	166
Upper Darby	4,392	3,745

lbs - pounds

EQUIVALENT BILL AND METER RATIOS

Meter Size	Equivalent Factors: Bills	Equivalent Factors: Meters Capacity Basis	Equivalent Factors: Service Cost Basis
	Units-11	Units-12	
5/8	1.00	1.00	1.00
3/4	1.00	1.50	1.00
1	1.10	2.50	1.10
1-1/4	1.20	3.80	1.20
1-1/12	1.20	5.00	1.20
2	1.50	8.00	2.10
3	2.00	15.00	10.00
4	4.00	25.00	12.00
6	7.00	50.00	15.00
8	10.00	80.00	19.00
10	15.00	115.00	25.00
12	20.00	215.00	28.00

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
CNTRCTUNITS - Contract Maximum Limits	P.N. 135647.0100	January 27, 2023 1:44 p.m.			Units-16

Summary of Wholesale Contract Agreements

Township	Flow Limits: Maximum Annual Avg (mgd)	Instantaneous Maximum (cfs)	Maximum Annual Loadings SS (1,000 lbs)	Maximum Annual Loadings BOD (1,000 lbs)	
Springfield					
Erdenheim	3.200	4.600	3,300	3,100	
Wyndmoor	1.000	1.930	200	155	
Lower Merion	14.500	31.570	7,250	6,871	
Delcora	50.000	155.000	19,487.0	21,771.0	x
Upper Darby	17.000	35.000	7,348.5	6,831.0	
Abington	4.453	9.542	2,481.0	2,102.0	
Bensalem	6.133	11.740	3,734	5,340	
Bucks County	24.000	74.260	13,400	13,400	
Cheltenham	13.4101	31.750	5,635	4,900	
Lower Moreland	1.900	5.880	966	729	
Lower Southampton	7.140	15.790	6,000	5,500	

Reference: Existing Wholesale Contract Agreements

Lower Moreland	Maximum Annual Avg (mgd)	Instantaneous Maximum (cfs)	Max Annual Loadings SS (1,000 lbs)	Max Annual Loadings BOD (1,000 lbs)
2023	1.900	5.880	966	729
2024	1.900	5.880	966	729
2025	1.900	5.880	966	729
2026	1.900	5.880	966	729
2027	1.900	5.880	966	729
2028	1.900	5.880	966	729
2029	1.900	5.880	966	729
2030	1.900	5.880	966	729
2031	1.900	5.880	966	729
2032	1.900	5.880	966	729
2033	1.900	5.880	966	729
2034	1.900	5.880	966	729
2035	1.900	5.880	966	729
2036	1.900	5.880	966	729
2037	1.900	5.880	966	729
TY 2024	1.900	5.880	966	729

SCOS23_24.XLS

PLTDES

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
PltdesInd - Index	P.N. 135647.0100	January 27, 2January 27, 2023 1:49 p.m.					Pltdes-1

The "Pltdes" worksheet contains wastewater plant design data for the Northeast, Southwest, and Southeast treatment plants, and historical treatment plants influent flows and strengths.

Range	Description	Page Number	Table
PltdesInd	Index	Pltdes-1	
NEDESG	NEWPCP Design Conditions	Pltdes-2	
SWDESG	SWWPCP Design Conditions	Pltdes-3	
SEDESG	SEWPCP Design Conditions	Pltdes-4	
WWFS	WWTP Flows & Strengths	Pltdes-5	

METHOD TO ESTIMATE SLUDGE QUANTITIES AT WASTEWATER TREATMENT PLANTS WITH ACTIVATED SLUDGE TREATMENT PROCESS

Treatment Plant: NEWPCP
Assumed Year of Operation: Design Conditions
8.34 lbs/gallon

Line No.		mgd	%	mg/l	Sludge Quantities ppd	Sludge Quantities %	
	Plant Influent						
1	Flow - mgd	184					Pltdes-5
2	SS Strength - mg/l			192.16			Pltdes-5
3	BOD Strength - mg/l			142.65			Pltdes-5
4	Solid: (SS) - ppd				295,422		Line 1 x Line 2 x 8.34
	Primary Treatment						
5	SS Removed - %		50.0				
6	SS Removed - mg/l			96.08			Line 2 x Line 5
7	BOD Removed - %		22.5				
8	BOD Removed - mg/l			32.10			Line 3 x Line 7
	Solids Removed:						
9	SS - ppd				147,711		Line 4 x Line 5
	Secondary Treatment						
	Influent Strength						
10	SS - mg/l			96.08			Line 2 - Line 6
11	BOD - mg/l			110.55			Line 3 - Line 8
12	Solids: (SS) - ppd				147,711		Line 4 - Line 9
	Solids accumulated						
13	SS - ppd				76,810	47.5	Line 12 x 0.52
14	BOD ppd				84,977	52.5	Line 11 x Line 1 x 8.34 x 0.5
15	Total - ppd				161,787	100.0	Line 13 + Line 14
	Plant Effluent						
	Solids:						
16	Assume - mg/l			30.00			
17	Total - ppd				46,120		Line 1 x 8.34 x Line 16
18	SS related - ppd				21,907		Line 13 x Line 17
19	BOD related - ppd				24,213		Line 17 - Line 18
	Solids to Digesters						
20	SS from primary treatment- ppd				147,711		Line 9
21	SS from secondary treatment - ppd				54,903		Line 13 - Line 18
22	Total SS - ppd				202,614	76.9	Line 20 + Line 21
23	BOD - ppd				60,764	23.1	Line 14 - Line 19
24	Total Solids - ppd				263,378	100.0	Line 22 + Line 23
25	Dry Solids Concentration - %		4.2				
26	Volume - mgd	0.75191					Line 24 / (Line 25 x 8.34 x 1mil)
27	Volatile Solids - ppd				200,820		Line 9 x 0.8 + Line 21 x 0.62 + Line 23 x 0.8
28	Volatile Solids - %		76.25				100 x Line 27 / Line 24
29	Fixed Solids - ppd				62,558		Line 24 - Line 27

	Solids from Digesters				
	Volatile Solids				
30	VSS Destroyed - ppd			111,697	Line 9 x 0.46 + line 23 x 0.72
31	VSS Remaining - ppd			89,123	Line 27 - Line 30
32	Total Solids - ppd			151,681	Line 29 + Line 31
33	Dry Solids Concentration - %		2.7		
34	Volume - mgd	0.67360			Line 32 / (Line 33 x 8.34 x 1mil)

METHOD TO ESTIMATE SLUDGE QUANTITIES AT WASTEWATER TREATMENT PLANTS WITH ACTIVATED SLUDGE TREATMENT PROCESS

Treatment Plant: SWWPCP
Assumed Year of Operation: Design Conditions

Line No.		mgd	%	mg/l	Sludge Quantities ppd	Sludge Quantities %	
	Plant Influent						
1	Flow - mgd	183					Pltdes-5
2	SS Strength - mg/l			146.08			Pltdes-5
3	BOD Strength - mg/l			99.53			Pltdes-5
4	Solid: (SS) - ppd				222,542		Line 1 x Line 2 x 8.34
	Primary Treatment						
5	SS Removed - %		45				
6	SS Removed - mg/l			65.74			Line 2 x Line 5
7	BOD Removed - %		25.00				
8	BOD Removed - mg/l			24.88			Line 3 x Line 7
	Solids Removed:						
9	SS - ppd				100,144		Line 4 x Line 5
	Secondary Treatment						
	Influent Strength						
10	SS - mg/l			80.34			Line 2 - Line 6
11	BOD - mg/l			74.65			Line 3 - Line 8
12	Solids: (SS) - ppd				122,398		Line 4 - Line 9
	Solids accumulated						
13	SS - ppd				63,647	52.8	Line 12 x 0.52
14	BOD ppd				56,859	47.2	Line 11 x Line 1 x 8.34 x 0.5
15	Total - ppd				120,506	100.0	Line 13 + Line 14
	Plant Effluent						
	Solids:						
16	Assume - mg/l			30.00			
17	??? - ppd				45,703		Line 1 x 8.34 x Line 16
18	SS related - ppd				24,131		Line 13 x Line 17
19	BOD related - ppd				21,572		Line 17 - Line 18
	Solids to Digesters						
20	SS from primary treatment- ppd				100,144		Line 9
21	SS from secondary treatment - ppd				39,516		Line 13 - Line 18
22	Total SS - ppd				139,660	79.8	Line 20 + Line 21
23	BOD - ppd				35,287	20.2	Line 14 - Line 19
24	Total Solids - ppd				174,947	100.0	Line 22 + Line 23
25	Dry Solids Concentration - %		4.00				
26	Volume - mgd	0.52442					Line 24 / (Line 25 x 8.34 x 1mil)
27	Volatile Solids - ppd				132,845		Line 9 x 0.8 + Line 21 x 0.62 + Line 23 x 0.8
28	Volatile Solids - %		75.93				100 x Line 27 / Line 24
29	Fixed Solids - ppd				42,102		Line 24 - Line 27

	Solids from Digesters				
	Volatile Solids				
30	VSS Destroyed - ppd			71,473	Line 9 x 0.46 + line 23 x 0.72
31	VSS Remaining - ppd			61,372	Line 27 - Line 30
32	Total Solids - ppd			103,474	Line 29 + Line 31
33	Dry Solids Concentration - %		3.00		
34	Volume - mgd	0.41357			Line 32 / (Line 33 x 8.34 x 1mil)

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
SEDESG - SEWPCP Design Conditions	P.N. 135647.0100	January 27, 2 January 27, 2023 1:49 p.m.			Pltdes-4

METHOD TO ESTIMATE SLUDGE QUANTITIES AT WASTEWATER TREATMENT PLANTS WITH ACTIVATED SLUDGE TREATMENT PROCESS

Treatment Plant: SEWPCP
Assumed Year of Operation: Design Conditions

Line No.		mgd	%	mg/l	Sludge Quantities ppd	Sludge Quantities %	
	Plant Influent						
1	Flow - mgd	83					Pltdes-5
2	SS Strength - mg/l			133.63			Pltdes-5
3	BOD Strength - mg/l			105.88			Pltdes-5
4	Solid: (SS) - ppd				92,499		Line 1 x Line 2 x 8.34
	Primary Treatment						
5	SS Removed - %		55.00				
6	SS Removed - mg/l			73.49			Line 2 x Line 5
7	BOD Removed - %		40.00				
8	BOD Removed - mg/l			42.35			Line 3 x Line 7
	Solids Removed:						
9	SS - ppd				50,874		Line 4 x Line 5
	Secondary Treatment						
	Influent Strength						
10	SS - mg/l			60.14			Line 2 - Line 6
11	BOD - mg/l			63.53			Line 3 - Line 8
12	Solids: (SS) - ppd				41,625		Line 4 - Line 9
	Solids accumulated						
13	SS - ppd				21,645	49.6	Line 12 x 0.52
14	BOD ppd				21,988	50.4	Line 11 x Line 1 x 8.34 x 0.5
15	Total - ppd				43,633	100.0	Line 13 + Line 14
	Plant Effluent						
	Solids:						
16	Assume - mg/l			30.00			
17	??? - ppd				20,767		Line 1 x 8.34 x Line 16
18	SS related - ppd				10,300		Line 13 x Line 17
19	BOD related - ppd				10,467		Line 17 - Line 18
	Solids to Digesters						
20	SS from primary treatment- ppd				50,874		Line 9
21	SS from secondary treatment - ppd				11,345		Line 13 - Line 18
22	Total SS - ppd				62,219	84.4	Line 20 + Line 21
23	BOD - ppd				11,521	15.6	Line 14 - Line 19
24	Total Solids - ppd				73,740	100.0	Line 22 + Line 23
25	Dry Solids Concentration - %		4.00				
26	Volume - mgd	0.22104					Line 24 / (Line 25 x 8.34 x 1mil)
27	Volatile Solids - ppd				56,950		Line 9 x 0.8 + Line 21 x 0.62 + Line 23 x 0.8
28	Volatile Solids - %		77.23				100 x Line 27 / Line 24
29	Fixed Solids - ppd				16,790		Line 24 - Line 27

	Solids from Digesters				
	Volatile Solids				
30	VSS Destroyed - ppd			31,697	Line 9 x 0.46 + line 23 x 0.72
31	VSS Remaining - ppd			25,253	Line 27 - Line 30
32	Total Solids - ppd			42,043	Line 29 + Line 31
33	Dry Solids Concentration - %		3.00		
34	Volume - mgd	0.16804			Line 32 / (Line 33 x 8.34 x 1mil)

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
WWFS - WWTP Flows & Strengths	P.N. 135647.0100	January 27, 2 January 27, 2023 1:49 p.m.			Pltdes-5

HISTORICAL WASTEWATER TREATMENT PLANT FLOWS & STRENGTHS

											Simple Average			Weighted Average			
Arithmetic Averages	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	All Data	Last 3 Years	Last 2 Years	All Data	Last 3 Years	Last 2 Years	Current Study
		BD-26a	BD-26a														
Northeast Plant																	
Influent Flow - mgd	182	156	174	162	148	149	175	204	171	178	170	184	175				184
Influent SS - mg/l	219	243	232	187	187	208	208	190	197	190	206	192	194	206	192	193	192
Influent BOD - mg/l	142	161	149	145	146	152	139	129	144	157	146	143	151	146	143	151	143
Southwest Plant																	
Influent Flow - mgd	181	162	176	165	155	152	162	190	173	185	170	183	179				183
Influent SS - mg/l	156	168	161	172	162	164	176	144	157	138	160	146	148	159	146	147	146
Influent BOD - mg/l	105	112	108	118	125	122	127	97	105	97	112	100	101	111	100	101	100
Southeast Plant																	
Influent Flow - mgd	76	77	80	78	75	75	77	90	78	81	79	83	80				83
Influent SS - mg/l	130	141	142	142	150	146	154	134	138	129	141	134	134	140	134	133	134
Influent BOD - mg/l	116	113	106	105	124	122	124	107	119	92	113	106	106	113	106	105	106

SCOS23_24.XLS

PLANT

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
PlantInd - Index	P.N. 135647.0100	January 27, 2023 1:55 p.m.					Plant-1

Fixed Asset Listing as of date 6/30/2022

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PLTFUNC	Plant Functions	Plant-2	
NEPA1	NE Plant Assets (Non-WPAP) as of 6/30/2022	Plant-3	
NEPA2	'NE Plant Assets (WPAP) as of 6/30/2022	Plant-4	
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SEPA1	SE Plant Assets (Non-WPAP) as of 6/30/2022	Plant-7	
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SFAL	Summary of Fixed Asset Listing Control Totals as of 6/30/2022	Plant-12	

Reference:

Plant Function ID	Plant Function Description
66	NE Grit Chamber
67	NE Pumping Station
68	NE Services Building
69	NE Meters, Vaults and Connection Sewers
70	NE Settling & Aeration Tanks
71	NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
72	NE Sludge Digestion System
73	NE Sludge Dewatering
74	NE Lagoons
75	NE Locker Bldg.
76	NE Chlorination Facilities
77	NE Admin. Bldg.
78	NE Heating Plant
79	NE Electrical Substation
80	NE Sludge Incinerators
81	NE Site
82	NE Sludge Residue Fusion Plant
83	NE Aeration Tank No. 1
84	NE Prelim. Treatment Bldg.
85	NE Elect. Bldg.
86	NE Primary Sedimentation Tanks
87	NE Final Sedimentation Tanks
88	NE Effluent Conduit
89	NE Sludge Thickener Bldg.
90	NE Sludge Transfer Station, Proc. & Loading Term.
91	NE Barges
92	NE Engineering, Design
93	SW Screen, Blower, Prim. Sludge PS, Grit
94	SW Grease Burner
95	SW Settling Tanks
96	SW Sludge Handling & Machine Shop
97	SW Sludge Digestion
98	SW Belt Filter System
99	SW Chlorination Facilities
100	SW Office & Equip. Building
101	SW Sludge Disposal
102	SW Electrical Substation
103	SW Waste Gas Burner
104	SW Elevated Water Tank
105	SW Dewatering Facilities
106	SW General Improvements
107	SW Site
108	SW Compressor Bldg.
109	SW Aeration Tanks
110	SW Sedimentation Tanks
111	SW Electrical Bldg.
112	SW Oxygen Supply
113	SW Effluent PS
114	SW Admin. Bldg.
115	SW Shop & Maintenance Bldg.
116	SW Warehouse
117	SW Primary Sedimentation Tanks
118	SW Preliminary Treatment Building
119	SW Influent PS
120	SW Scum Concentration Bldg.
121	SW Sludge Thickener Bldg.
122	SW Sludge Digestion Facilities
123	SW Composting Facilities
124	SW Sludge Gas Facilities
125	SW Outfall Line
126	SE Main PS
127	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
128	SE Settling Tanks & Flocculation Channel
129	SE Grease Bldg.
130	SE Blower & Primary Sludge PS
131	SE Storage Bldg.
132	SE Sludge Force Main to SW Plant
133	SE Main Effluent Conduit
134	SE Influent PS
135	SE Effluent PS
136	SE Aeration Tanks
137	SE Compressor Bldg.
138	SE Site
139	SE Primary Sedimentation Tanks
140	SE Final Sedimentation Tanks
141	SE Scum Concentration Facility

File: SCOS23_24_ver1.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2024 | Budget Yr 2023 | Ver. 1a
NEPA1 - NE Plant Assets (Non-WPAP) as of 6/30/2022 | P.N. 135647.0100 | January 27, 2023 1:55 p.m. | Plant-3

Reference: FY22 F-6 Fixed Assets 10.25.22.xlsx

Year	Month	Depot	Work Order	Non-WPAP	Plant Function ID	Description	Cost $		Plant Function
1996	6	54	1698	0	81	GALLERYLIGHTING IMP	4,745		NE Site
1996	6	54	2897	0	81	INST TANKMONITORING/LEAKDETE	53,126		NE Site
1997	6	54	3038	0	81	ASBESTOS REMOVAL & REPLCEILIN	0	Retired as of 2019	NE Site
2001	2	54	70001	0	81	ACCESS CONT&ALARMSYS	1,252,847	Projects added since the 1999 FAL.	NE Site
1998	2	54	70002	0	81	PERIMETERCHAINLINK FENCE	900,520		NE Site
1999	6	54	70003	0	81	HIGH MASTLIGHTING SYS OVERHAU	0	This item does not appear in the 2022 FAL.	NE Site
2000	3	54	70003	0	81	HIGH MSATLIGHTING SYS OVERHAU	0	Projects added since the 1999 FAL. This item does not appear ir	NE Site
1999	6	54	71000	0	86	REHABPRIMARY&FINALTKS	2,965,842	Projects added since the 1999 FAL.	NE Primary Sedimentation Tanks
1999	6	54	71000	0	87	REHABPRIMARY&FINALTKS	2,965,842	Projects added since the 1999 FAL.	NE Final Sedimentation Tanks
2002	4	54	71001	0	78	REPL TWO 600 HPBOILERS	1,279,843	Projects added since the 2002 FAL.	NE Heating Plant
2000	3	54	71002	0	84	REPL INFLUENTBARSCREEN	0	Projects added since the 1999 FAL. / Retired 2016	NE Prelim. Treatment Bldg.
1999	9	54	71003	0	72	REPL OFSLUDGE GAS BURNERS	447,957	Projects added since the 1999 FAL.	NE Sludge Digestion System
2013	4	54	71004	0	72	DEMOL - 6 OLD DIGESTERS-NEWPCP-GEN C	0	Retired as of 2019	NE Sludge Digestion System
2013	4	54	71005	0	72	DEMOL - 6 OLD DIGESTERS-NEWPCP-MECH	0	Retired as of 2019	NE Sludge Digestion System
1998	1	54	71007	0	81	POLYURETHANE SILICONEROOF	156,439		NE Site
2010	6	54	71007	0	81	**POLYURETHANE SILICONEROOF **	708		NE Site
1998	11	54	71008	0	81	RESTOR WROUGHT IRONPICKET FEN	79,390	Projects added since the 1999 FAL.	NE Site
2000	10	54	71010	0	81	REPL LOW/VOLTSWITCHGEAR/TRIP	1,190,631	Projects added since the 1999 FAL.	NE Site
2001	11	54	71011	0	73	GENCONST-RENOVBELT FILTERBL	507,460	Projects added since the 2002 FAL.	NE Sludge Dewatering
2001	4	54	71012	0	73	MECH-RENOV BELTFILTER BLDG	136,495	Projects added since the 1999 FAL.	NE Sludge Dewatering
2001	10	54	71013	0	73	ELECT-RENOVBELT FILTERBLDG	177,388	Projects added since the 1999 FAL.	NE Sludge Dewatering
2003	4	54	71015	0	89	MECH-DISSOLVED AIR FLOTATION S	2,223,714		NE Sludge Thickener Bldg.
2004	10	54	71016	0	78	CONST OLD HEAT PLT TO OFFICES	735,945		NE Heating Plant
2005	4	54	71017	0	77	CONV/OFFICES-DEM/INSTL HVAC	280,674		NE Admin. Bldg.
2006	1	54	71018	0	77	ELEC OLD HEATING PKT TO OFFICE	215,255		NE Admin. Bldg.
2006	7	54	71019	0	78	ELECTR CONVERSION OLD HEATING PLNT	489,411		NE Heating Plant
2002	3	54	71020	0	78	ROOFING-OLDHEATER BLDG	296,593	Projects added since the 2002 FAL.	NE Heating Plant
2002	1	54	71021	0	89	ELECT-IMPDISSOLVAIRFLOTATIO	322,286	Projects added since the 2002 FAL.	NE Sludge Thickener Bldg.
2002	3	54	71022	0	72	MECH-REHAB DIGESTERVALVES	378,051	Projects added since the 2002 FAL.	NE Sludge Digestion System
2002	3	54	71023	0	84	HVAC IMP-PRELTREATBLDG	860,258	Projects added since the 2002 FAL. Addition as of 2019	NE Prelim. Treatment Bldg.
2006	6	54	71024	0	76	CONST SOD HYPOCHLORITE FAC	1,674,323	Addition as of 2019	NE Chlorination Facilities
2004	7	54	71025	0	76	CONST-SODHYPOCHLORITE FAC	2,348,162	Addition as of 2019	NE Chlorination Facilities
2006	7	54	71026	0	76	ELECTR SODHYDRO FACILITIES -NORTHEA	466,995		NE Chlorination Facilities
2004	10	54	71027	0	76	HVAC SOD HYPOCHLORITE	443,921		NE Chlorination Facilities
2004	1	54	71028	0	76	PLUMB-SODHYPOCHLORITE FAC	52,351		NE Chlorination Facilities
2000	10	54	71029	0	83	RBCDEMPROJECT-PHASEI	0	Projects added since the 1999 FAL and Additions as of 2019; Re	NE Aeration Tank No. 1
2002	1	54	71031	0	72	ELECT-REHABDIGESTER VALVES	154,344		NE Sludge Digestion System
2001	2	54	71032	0	81	EMERGREPL GLYCOLLINES	151,090	Projects added since the 1999 FAL.	NE Site
2007	4	54	71033	0	70	General CON. FOR AERATION SYSTEM REHA	13,149,371	Addition as of 2019	NE Settling & Aeration Tanks
2003	11	54	71035	0	66	REPL MECHBARSCREEN	429,128	Addition as of 2019	NE Grit Chamber
2004	10	54	71036	0	77	Rehab Masonry Walls, Roofing St	666,670	Addition as of 2019	NE Admin. Bldg.
2006	4	54	71037	0	72	DIGESTER GAS PIPEING REPL	1,469,801	Addition as of 2019	NE Sludge Digestion System
2005	9	54	71038	0	67	MOTOR CONT REPL STGE 1 PUMP 1&2	415,308		NE Pumping Station
2005	2	54	71039	0	80	HEAT EXCHANGER REPL DIGESTOR	1,590,064	Addition as of 2019	NE Sludge Incinerators
2008	7	54	71041	0	78	ELECTICAL HVAC IMPROVEMENTS	258,871	Addition as of 2019	NE Heating Plant
2004	5	54	71042	0	87	REHABFINALSEDTANKS	2,108,718		NE Final Sedimentation Tanks
2006	11	54	71043	0	92	UPGRADE SCADA SYTM PHASE I- NORTHEA	543,748		NE Engineering, Design
2007	7	54	71044	0	66	REHAB. OF GRIT CHANNEL AERATION SYST	1,054,166	Addition as of 2020	NE Grit Chamber
2007	7	54	71045	0	91	REHAB. OF PIER 217 N. AT NORTHEAST WA	2,599,932		NE Barges
2005	3	54	71046	0	78	REPL NATURAL GAS PIPE VAR LOC	423,402		NE Heating Plant
2006	3	54	71047	0	66	REPL MECHANICAL BAR SCREENS	2,540,493		NE Grit Chamber
2007	5	54	71048	0	66	ELECTR WORK- REPLACE MECHAN BAR SC	336,978		NE Grit Chamber
2010	6	54	71049	0	66	Screenings Conveyor modifications	2,491,247	Addition as of 2019	NE Grit Chamber
2009	7	54	71050	0	66	Screenings Conveyor Modifications -Electrical	565,562		NE Grit Chamber
2009	1	54	71053	0	91	Rehab of Pier 217	759,892		NE Barges
2010	4	54	71054	0	89	R/R Replacement of DAF Floated Sludge Pumps &	1,327,802		NE Sludge Thickener Bldg.
2010	2	54	71060	0	72	Gas Storage Tank Inspection and Bladder replacem	1,325,070		NE Sludge Digestion System
2010	10	54	71061	0	71	Replace Existing Blower Building Switchgear	2,698,751		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
2010	1	54	71062	0	85	Power Distribution System Study	589,603		NE Elect. Bldg.
2007	3	54	71074	0	77	R/R-REHAB OUT BLDG,REPLACE DOORS TH	328,352		NE Admin. Bldg.
2018	6	54	71081	0	79	REPLACEMENT 15KV PRIMARY SWITCHGE	1,249,264	Addition as of 2020	NE Electrical Substation
2018	6	54	71083	0	79	REPLACEMENT 15KV PRIMARY SWITCHGE	295,990	Addition as of 2020	NE Electrical Substation
1987	10	54	BN74121	0	81	RELOCATE TELEPHONE CABLE ETC.	0	Expensed in 2019	NE Site
1988	6	54	G639	0	77	ALTERELEC-SERVICES&ADMBLDG	11,928		NE Admin. Bldg.
1988	6	54	G679	0	90	SLUDGE CAKESTAGINGPAD	0	Retired	NE Sludge Transfer Station, Proc. & Loading Term.
1988	6	54	G683	0	86	ADDNLLIGHTING ATPRIM SED TNK	13,562		NE Primary Sedimentation Tanks
1996	6	54	G684	0	67	GENCONVERSION-PSTO STORAGE B	48,789		NE Pumping Station
1996	6	54	G689	0	86	REHABOZONESYSIN PRIMSEDBA	0	Retired	NE Primary Sedimentation Tanks
1997	6	54	G689	0	86	REHABOZONESYSIN PRIMSEDBA	0	Retired	NE Primary Sedimentation Tanks
1996	6	54	G692	0	80	MODINCINERATORCONTROLROOM	19,098		NE Sludge Incinerators

1996	6	54	G695	0	88	INSTLBARSCREENS-EFFLUENT CON	0	Retired	NE Effluent Conduit
1992	1	54	G698	0	69	ODOR CTRL&KNIFEGATE VALVES	0	Retired	NE Meters, Vaults and Connection Sewers
1993	6	54	G700	0	81	GENCONST-EQUIPSTOR BLDG/YARD	1,686,340		NE Site
1994	12	54	G700	0	81	GENCONST-EQUIPSTORAGEBLDG	38,853		NE Site
1993	6	54	G701	0	81	MECH WORK-EQUIPSTOR BLDG/YARD	101,500		NE Site
1995	1	54	G701	0	81	MECH-EQUIP STORAGE BLDGOUTDOO	13,593		NE Site
1993	6	54	G702	0	81	ELEC WORK-EQUIPSTOR BLDG/YARD	136,359		NE Site
1996	6	54	G702	0	81	ELECT-EAUIPSTORAGEBLDG OUTDO	15,225		NE Site
1991	10	54	G705	0	72	CATWALKDIGESTER GAS STORAGE	340,721		NE Sludge Digestion System
1997	6	54	G705	0	72	CATWALKDIGESTER GAS STORAGE	121		NE Sludge Digestion System
1995	6	54	G709	0	86	REPL METAL DOORS-PRIMSEDTNKS	197,206		NE Primary Sedimentation Tanks
1991	8	54	G712	0	69	EMERGGEN-JUNCTION CHAMBER A	67,117		NE Meters, Vaults and Connection Sewers
1996	6	54	G712	0	69	EMERGGEN-JUNCTION CHAMBER A	736		NE Meters, Vaults and Connection Sewers
1997	6	54	G712	0	69	EMERGGENJUNCTION CHAMBER A	78		NE Meters, Vaults and Connection Sewers
1991	1	54	G717	0	66	REHABGRIT REMOVERS, GRITPUMP	371,999		NE Grit Chamber
1991	12	54	G719	0	66	NEWGRIT STORAGE	0	Retired	NE Grit Chamber
1996	6	54	G719	0	66	NEWGRIT STORAGE	0	Retired	NE Grit Chamber
1992	3	54	G722	0	77	STORAGEFACIL-OLDADMINBLDG	0	Expired noted 2011	NE Admin. Bldg.
1982	9	54	MP30091	0	84	ENGR SERVICES-PRELIM TREAT BLD	0	Retired 2019	NE Prelim. Treatment Bldg.
2003	6	54	MP389	0	92	G&HENG-INSTRU TROUB/SHOOTING	0	Retired 2019	NE Engineering, Design
1996	6	54	N542	0	87	GREASE REMOVAL-TREAT FINAL TAN	0	Retired as of 2022	NE Final Sedimentation Tanks
1996	6	54	N544	0	77	GENCONST/MECH-ADMIN COMPLEX P	265,417		NE Admin. Bldg.
1996	6	54	N545	0	77	HVAC-ADMIN COMPLEX PHASE I	32,401		NE Admin. Bldg.
1996	6	54	N546	0	77	PLUMB- ADMIN COMPLEX PHASE I	17,909		NE Admin. Bldg.
1996	6	54	N547	0	77	ELECT- ADMIN COMPLEX PHASE I	26,652		NE Admin. Bldg.
1996	6	54	N570	0	81	GENCONST/MECH-ELECT FAC MOD	26,041		NE Site
1996	6	54	N598	0	69	GEN-METERVAULTS/SEWERS-PHII	11,066		NE Meters, Vaults and Connection Sewers
1990	6	54	N651	0	81	ELEC CONST-NEDRAINAGE DIST	1,306,058		NE Site
1990	10	54	N651	0	81	ELEC CONST-NEDRAINAGE DIST	55,962		NE Site
1996	6	54	N653	0	81	GENCONST-MAINTENANCEBLDG	28,462		NE Site
1996	6	54	N656	0	81	ELECT-MAINTENANCEBLDG	15,988		NE Site
1996	6	54	N663	0	69	ELECT-MODMETERING CHAMBER	24,333		NE Meters, Vaults and Connection Sewers
1997	6	54	N663	0	69	ELECT-MODMETERING CHAMBER	243		NE Meters, Vaults and Connection Sewers
1996	6	54	N664	0	81	LANDSCAPING&MISC WORK	7,101		NE Site
1997	6	54	N664	0	81	LANDSCAPING&MISC WORK	487		NE Site
2000	6	54	N668	0	81	HEAT,VENT SLUDGETRFSTAT	4,303	Projects added since the 1999 FAL. Most N668 projects are WP	NE Site
1997	6	54	N697	0	81	DEMOLITION	1,143,013		NE Site
1997	6	54	N703	0	86	GENCONST-EXISTPRIM SED TAN	19,748,781		NE Primary Sedimentation Tanks
1997	6	54	N704	0	86	MODELECTRIC PRIMSEDTANKS	1,923,145		NE Primary Sedimentation Tanks
1997	8	54	N713	0	79	INSTLNEWOUTDOORSUBSTATION	1,119,930		NE Electrical Substation
1997	6	54	N714	0	86	MODHVAC PRIMARY SED TANKS	232,661		NE Primary Sedimentation Tanks
1997	6	54	N715	0	86	MODPLUMBING PRIMSEDTANKS	179,669		NE Primary Sedimentation Tanks
1995	1	54	N724	0	81	MOD-48 INAIRHEADER	188,046		NE Site
1993	6	54	N727	0	81	ERECTING 2 VENTILATING STACKS	373,670		NE Site
1995	11	54	N728	0	81	INSTAL 730 HPBOILER	462,655		NE Site
1995	5	54	N729	0	69	RELOCOF RPZ BACKFLOWPRE	92,247		NE Meters, Vaults and Connection Sewers
1995	11	54	N730	0	77	REHABHVAC-OLD ADMIN BLDG	289,374		NE Admin. Bldg.
1995	3	54	N731	0	86	INSTAL HVAC-PRIM SED TANKS	36,574		NE Primary Sedimentation Tanks
1995	2	54	N734	0	72	REHABSLUDGE GAS STORAGE TANK	404,921		NE Sludge Digestion System
1996	6	54	N735	0	81	FURN & INSTALSTORAGEFAC-STOR	86,242		NE Site
1996	1	54	N737	0	87	FLOW CONTROL FINAL SED TANKS	331,671		NE Final Sedimentation Tanks
1997	6	54	N740	0	72	REHABSLUDGE DIG MIX RECIR SYS	0	Retired	NE Sludge Digestion System
1995	11	54	N741	0	89	ROOF-POLYSILICONE-SLUDTHICK	401,695		NE Sludge Thickener Bldg.
1995	5	54	N742	0	72	POLY SILICONEROOF-SLUDDIGEST	0	Retired as of 2022	NE Sludge Digestion System
1997	7	54	N748	0	81	NEWALUMINUM WINDOWS	437,961		NE Site
1998	6	54	P1051	0	86	ENGR-REHAB PRIMSEDTANKS	0	Retired 2017	NE Primary Sedimentation Tanks
1998	6	54	P1148	0	66	MODGRIT,SCREENINGS,&SCUM D	0	Retired 2017	NE Grit Chamber
2000	6	54	P1148	0	66	MODGRIT,SCREENINGS,SCUM DISP	0	Retired 2017	NE Grit Chamber
2002	6	54	P1148	0	66	MODGRIT,SCREENINGS,SCUM DISP	0	Retired 2017	NE Grit Chamber
2001	6	54	P1198	0	76	ENGDESIGN SERVSODHYPOCHLORI	0	Retired 2019	NE Chlorination Facilities
2004	6	54	P1198	0	76	ENGDESIGN SERVSODHYPOCHLORI	0	Retired 2019	NE Chlorination Facilities
2001	6	54	P1220	0	92	ENGSER-EVAL HVACEQUIPSLDTH	0	Retired 2019	NE Engineering, Design
2004	6	54	P1220	0	89	EVAL HVACEQUIPSLUD THICK BLD	0	Retired 2019	NE Sludge Thickener Bldg.
2002	6	54	P1225	0	92	ENGSERV-METCALF & EDDY	0	Retired 2019	NE Engineering, Design
2005	6	54	P1225	0	72	REPL SLUDGEGASPIPING	0		NE Sludge Digestion System
2002	6	54	P1227	0	83	AERATION SYS REHAB,AIR PIPE,AP	0	Retired 2019	NE Aeration Tank No. 1
2004	6	54	P1227	0	70	PROCESS AIR PIPE, APPURT, SUPPORT..	0	Retired 2019	NE Settling & Aeration Tanks
2004	6	54	P1227	0	70	REHABAERATION SYS,DISPRBC'&apos	0	Retired 2019	NE Settling & Aeration Tanks
2004	9	54	P1227	0	66	SCREENINGS CONVEYOR MODIFICATIONS	0	Retired 2019	NE Grit Chamber
2000	9	54	P1240	0	92	G&H-ADD''LENGDESIGN SERVIC	0	Retired 2017	NE Engineering, Design
1972	5	54	P-295	0	92	ENGR SERVICES	0	Retired 2017	NE Engineering, Design
1971	10	54	P-307	0	92	SOIL&FDN INVES NEWPC	0	Retired 2019	NE Engineering, Design
1983	6	54	P311916	0	81	RELOCATE,REROUTE CABLE FACILIT	0	Retired 2017	NE Site
1980	1	54	P-325	0	92	ENGR SERVNEWPCP	2,510,000	Partial Retirnement in 2017	NE Engineering, Design
1990	6	54	P-325	0	92	ENGR SERVICE - DETAILDISIGN	11,281,737	Partial Retirnement in 2017	NE Engineering, Design
1976	1	54	P-325	0	92	ENGR SERVICES-NEWWPC	0	Retired 2019	NE Engineering, Design

1974	2	54	P-325	0	92	DETAILED DSGNNEWPCP	0	Retired 2019				NE Engineering, Design
1991	6	54	P-325	0	92	ENGR SERVICE - DETAILDESIGN	55,582	Partial Retirnement in 2017				NE Engineering, Design
1979	6	54	P-325	0	92	DETAIL DESIGN	1,825,000	Partial Retirnement in 2017				NE Engineering, Design
1992	6	54	P-325	0	92	ENGR SERVICE - DETAILDESIGN	68,914	Partial Retirnement in 2017				NE Engineering, Design
1993	6	54	P-325	0	92	ENGR SERVICE - DETAILDESIGN	577,887	Partial Retirnement in 2017				NE Engineering, Design
1974	11	54	P-325	0	92	DESIGN NEWPCP	0	Retired 2019				NE Engineering, Design
1997	6	54	P-325	0	92	ENGR SERVICE-DETAILDESIGN	130,038	Partial Retirnement in 2017	130,038	0		NE Engineering, Design
1997	6	54	P-325	0	92	ENGSERVICE-DETAIL DESIGN	0	Partial Retirnement in 2017				NE Engineering, Design
1973	10	54	P-356	0	92	DESIGN STUDS FOR WPC	0	Retired 2019				NE Engineering, Design
1980	8	54	P-467	0	77	MODIFY SERVICES&ADMINBLDGS	0	Retired 2017				NE Admin. Bldg.
1987	4	54	P-514	0	77	CPMSCHEDULING SERVICES	402,158					NE Admin. Bldg.
1985	6	54	P-572	0	81	PLANSMAINTSHOP & REVIEWWARE	0	Retired 2017				NE Site
1984	1	54	P-583	0	87	VALU ENGR-MODEXISTFINSEDTK	0	Retired 2017				NE Final Sedimentation Tanks
1986	6	54	P-614	0	92	VALU ENGR-MODSLDG DGST&NU DEW	0	Retired 2017				NE Engineering, Design
1991	6	54	P-667	0	77	ENGR-CONST,START UPCOMPUTER M	0	Retired 2019				NE Admin. Bldg.
1992	6	54	P-667	0	77	ENGR-CONST,START UPCOMPUTER M	0	Retired 2019				NE Admin. Bldg.
1993	4	54	P-667	0	77	ENGR-CONST,START UPCOMPUTER M	0	Retired 2019				NE Admin. Bldg.
1997	6	54	P-667	0	77	ENG-CONST,STARARTUP COMPUTER	0	Retired 2019				NE Admin. Bldg.
1998	6	54	P-667	0	77	ENG-CONST, START-UPCOMPUTER	0	Retired 2019				NE Admin. Bldg.
1991	6	54	P-674	0	73	ENGR SERVFORCONSTDEWTRFAC	1,523,193					NE Sludge Dewatering
1998	12	54	P-674	0	73	ENGR SERVFORCONSTDEWTRFAC	5,696					NE Sludge Dewatering
1991	8	54	P-683	0	81	LANDSCAPECONSULTANT	0	Retired 2017				NE Site
1989	3	54	P-690	0	73	MODIFY SLUDGEDEWATERING FAC	0	Retired 2017				NE Sludge Dewatering
1990	6	54	P-703	0	90	ENGR SERVSLDG TRANS & DOCKING	0	Retired 2017				NE Sludge Transfer Station, Proc. & Loading Term.
1993	10	54	P-703	0	92	ENGR SERVSLDG TRANS & DOCKING	0	Retired 2017				NE Engineering, Design
1990	6	54	P-704	0	90	DESIGN SLUDGETRANSFER STATION	275,979					NE Sludge Transfer Station, Proc. & Loading Term.
1991	6	54	P-736	0	77	ENGR SERVUPDATE COMPUTERSPEC	0	Retired 2017				NE Admin. Bldg.
1996	6	54	P-769	0	86	ENGR DESIGN&CONSTPRIMARYTANK	1,644,907					NE Primary Sedimentation Tanks
1996	6	54	P-834	0	77	ENGSERV-PROGAPPL SOFTWAREMO	0	Retired 2017				NE Admin. Bldg.
1990	2	54	P-858	0	92	VALUEENGR MODIFYSLUDGE FACIL	0	Retired 2017				NE Engineering, Design
1997	6	54	P-861	0	72	FINALDESIGN 2 SLUDGEDISGSTRS	0	Retired 2017				NE Sludge Digestion System
1999	7	54	P-967	0	92	ENGSERV-VARIOUS PROJECTS	0	Retired 2019				NE Engineering, Design
1986	12	54	PV02181	0	81	GRAD,PAVE,LANDSCAPE,YARD PIPIN	6,294					NE Site
1986	12	54	PV05126	0	81	GRAD,PAVE,LANDSCAPE,YARD PIPIN	63,584					NE Site
1983	2	54	PV42977	0	81	ELESERV SPL DEL PT-3030 LEWIS	273,213					NE Site
1986	6	54	PV46861	0	81	GRAD,PAVE,LANDSCAPEETC	12,448					NE Site
1986	6	54	PV61994	0	81	GRAD,PAVE,LANDSCAPEETC.	10,975					NE Site
1965	5	54	SD-323-NE	0	69	48IN CIDR LINE	70,551					NE Meters, Vaults and Connection Sewers
1964	5	54	SD-353-NE	0	81	PLUMBING&HEATING FOR WAREHOUSE	30,546					NE Site
1967	8	54	SD-376-NE	0	81	STEEL"H"PILES	22,790					NE Site
1967	8	54	SD-376-NE	0	68	CONSTRUC OFSERV BLD	289,605					NE Services Building
1971	6	54	SD-426-NE	0	77	ADDTO ADMIN BLDG	348,685					NE Admin. Bldg.
1972	5	54	SD-427-NE	0	77	MISC ITEMS	0	Expensed in 2019				NE Admin. Bldg.
1972	5	54	SD-427-NE	0	81	PNRDIST&OTDRLGTSY	100,073					NE Site
1971	5	54	SD-429-NE	0	77	PLMB SYS-ADMIN BLDG	75,463					NE Admin. Bldg.
2006	0	54	SD-601-NEO	0	81	CONV BLDG-INTERCEPTH	52,586	x				NE Site
2007	0	54	SD-602-NEO	0	81	CONV BLDG-INTERCEPTH	26,430	x				NE Site
2007	0	54	SD-603-NEO	0	81	CONV BLDG-INTERCEPTH	13,677	x				NE Site
2007	6	54	V68104662	0	77	REPL PIPES FOR FUEL TANKS	0	Retired				NE Admin. Bldg.
2007	0	54	W702	0	81	REDECK PIERS-LOADING TERMINAL	185,575	Projects added since the 1999 FAL.				NE Site
2006	7	54	64006	0	78	ELECTR CONVERSION OLD HEATING PLNT	0	x				NE Heating Plant
2010	6	54	71049	0	66	Screenings Conveyor modifications	1,390	Projects edited since the 2020 FAL.				NE Grit Chamber
2011	11	54	71059	0	92	UPGRADE SCADA SYTM PHASE I-NEWPCP	4,651,796	Addition as of 2019				NE Engineering, Design
2013	5	54	71064	0	91	Barge Rehab-NEWPCP	3,119,342	x				NE Barges
2014	6	54	71065	0	81	R/R REPLACE EXISTING FST SET 1 RET SLU	6,765,235	Addition as of 2019				NE Site
2005	6	54	P1225	0	72	**REPL SLUDGEGASPIPING **	0	Retired				NE Sludge Digestion System
2016	6	54	71049	0	66	Screenings Conveyor modifications	8,808					NE Grit Chamber
2015	6	54	71054	0	89	R/R Replacement of DAF Floated Sludge Pumps &	499					NE Sludge Thickener Bldg.
2016	3	54	71063	0	81	Redirection of Area Drains at St Depart from outfa	1,884,359	Addition as of 2019				NE Site
2013	10	54	71066	0	79	REPLACEMENT 15KV PRIMARY SWITCHGE	3,021,441	Addition as of 2019				NE Electrical Substation
2015	6	54	71069	0	87	MODIFICATION TO SET 2 AT FINAL SEDIME	0					NE Final Sedimentation Tanks
2016	1	54	71084	0	83	REPLACEMENT 480V OUTDOOR SWITCHGE	1,518,784					NE Aeration Tank No. 1
2014	7	54	71103	0	77	**POLYURETHANEELASSILICONEATRENEV	**266,978**	Projects edited since the 2020 FAL.				NE Admin. Bldg.
2007		54	71034	0	83	ELECTRICAL WORK FOR AERATION SYSTE	1,047,512					NE Aeration Tank No. 1
		54	P1225	0	90	**REPL SLUDGEGASPIPING **	0	Retired 2019				NE Sludge Transfer Station, Proc. & Loading Term.
2016	3	54	71080	0	81	REHAB OF PLANT WTR SYSTEM	**0**	100% Green				NE Site
2015	1	54	71079	0	81	FRANKFORD HIGH LEVEL SWR MANHOLE I	**0**	100% Green				NE Site
2017	6	54	71031	0	72	**ELECT-REHABDIGESTER VALVES **	12,338					NE Sludge Digestion System
2017	6	54	71063	0	81	Redirection of Area Drains at St Depart from outfa	422,705					NE Site
2017	6	54	71066	0	81	REPLACEMENT 15KV PRIMARY SWITCHGE	**138,164**	Project edited since the 2020 FAL.				NE Site
2018	2	54	71067	0	87	Replacement of 480V Outdoor Switchgear on Set 2	**104,935**	Recorded as Green/10% of Historical Costs Applied to Plant. U				NE Final Sedimentation Tanks
2017	6	54	71084	0	83	REPLACEMENT 480V OUTDOOR SWITCHGE	10,614					NE Aeration Tank No. 1
2015	3	54	71058	0	66	R/R Hydrogritters - Elec at NEWPCP	**1,043,871**	Project edited since the 2020 FAL.				NE Grit Chamber
2018	9	54	71090	0	76	By-Pass Conduit From PST Set1 Tanks to Chlorin	**0**	100% Green				NE Chlorination Facilities
2018	5	54	71106	0	73	New Gravity Thickeners at NEWPCP -Plumbing	**793,536**	Updated COA %				NE Sludge Dewatering
2020	1	54	71110	0	81	Repair and Replace Piles for Pier 217N -	**3,217,071**	Project edited since the 2020 FAL.				NE Site

2019	9	54	71117	0	72	NE Roof Digester Tanks- Electrical -	**1,224,035**	Project edited since the 2020 FAL.	
2015	3	54	71057	0	66	R/R Hydrogritters - Mech at NEWPCP	5,804,662		
2019	5	54	71086	0	73	New Gravity Thickeners at NEWPCP	35,084,996	Updated COA %	
2020	8	54	71087	0	73	New Gravity Thickeners at NEWPCP - Elec.	7,822,172	Updated COA %	
2021	7	54	71105	0	73	New Gravity Thickeners at NEWPCP -HVAC	371,011	Updated COA %	
2021	7	54	71111	0	72	Gas Storage Tank Inspection and Bladder Replacem	885,480		
2021	7	54	71115	0	89	Replace Roof on Digester Tanks - NEWPCP	5,935,622		
-	-	54		0	77	General Plant	5,029,505	x	NE Admin. Bldg.
TOTAL NE PLANT ASSETS (Non-WPAP)							206,839,138	x	

File: SCOS23_24_ver1.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2024 | Budget Yr 2023 | Ver. 1a
NEPA2 - 'NE Plant Assets (WPAP) as of 6/30/2022 | P.N. 135647.0100 | January 27, 2023 1:55 p.m. | Plant-4
Reference: FY22 F-6 Fixed Assets 1025.22.xlsx

Year	Month	Depot	Work Order	WPAP	Plant Function ID	Description	Cost $		
1987	6	54	N500	1	86	GEN CONST-PRIMARY SEDIMENT TNK	11,984,855	Value changed from 1999 FAL	NE Primary Sedimentation Tanks
1987	6	54	N501	1	86	ELECTRIC-PRIMARY SEDIMENT TNKS	1,944,347		NE Primary Sedimentation Tanks
1989	5	54	N501	1	86	ELECTRIC-PRIMARY SEDIMENT TNKS	22,751		NE Primary Sedimentation Tanks
1988	6	54	N501	1	86	ELECTRIC-PRIMARY SEDIMENT TNKS	102,070		NE Primary Sedimentation Tanks
1985	12	54	N502	1	86	PLUMB - PRIM SEDIMENTATION TKS	18,384		NE Primary Sedimentation Tanks
1985	9	54	N502	1	86	PLUMB - PRIM SEDIMENTATION TKS	134,819		NE Primary Sedimentation Tanks
1987	6	54	N506	1	69	GEN CONST&MECH-METER VLTS, ETC	7,462,096		NE Meters, Vaults and Connection Sewers
1988	3	54	N506	1	69	GEN CONST METER VLTS&CONN SEWR	140,403		NE Meters, Vaults and Connection Sewers
1985	12	54	N509	1	86	HVAC PRIM SEDIMENTATION TNKS	340,688		NE Primary Sedimentation Tanks
1985	12	54	N509	1	86	HVAC PRIM SEDIMENTATION TNKS	33,695		NE Primary Sedimentation Tanks
1987	6	54	N519	1	69	ELECTRIC-METER VLTS & CONN SEW	150,035		NE Meters, Vaults and Connection Sewers
1988	4	54	N519	1	69	ELECTRIC-METER VLTS & CONN SEW	5,507		NE Meters, Vaults and Connection Sewers
1988	6	54	N520	1	84	GEN CONST&MECH-PRELIM TREAT BL	45,726		NE Prelim. Treatment Bldg.
1993	5	54	N520	1	84	GEN CONST&MECH-PRELIM TREAT BL	363,063		NE Prelim. Treatment Bldg.
1987	6	54	N520	1	84	GEN CONST-MECH-PRELIM TREAT BL	29,129,434	Value changed from 1999 FAL	NE Prelim. Treatment Bldg.
1992	3	54	N521	1	84	HEAT&VENT-PRELIM TREATMENT BLD	96,621		NE Prelim. Treatment Bldg.
1987	6	54	N521	1	84	HEAT&VENT-PRELIN BLDG	1,451,779		NE Prelim. Treatment Bldg.
1991	6	54	N522	1	84	PLUMBING-PRELIM TREATMENT BLDG	18,031		NE Prelim. Treatment Bldg.
1987	6	54	N522	1	84	PLUMBING-PRELIM TREATMENT BLDG	318,657		NE Prelim. Treatment Bldg.
1988	3	54	N523	1	84	ELECTRIC-PRELIM TREATMENT BLDG	112,704		NE Prelim. Treatment Bldg.
1987	6	54	N523	1	84	ELECTRIC-PRELIM TREATMENT BLDG	2,074,432		NE Prelim. Treatment Bldg.
1985	9	54	N526	1	85	PLUMB - ELECTRICAL BLDG	0	Retired 2019	NE Elect. Bldg.
1988	2	54	N528	1	76	GEN CONST&MECH-CHLORINATION FA	0	Retired 2011	NE Chlorination Facilities
1987	6	54	N528	1	76	GEN CONST&MECH-CHLORINATION FA	0	Retired 2011	NE Chlorination Facilities
1987	6	54	N529	1	76	HEAT&VENT-CHLORINATION FACILIT	0	Retired 2011	NE Chlorination Facilities
1987	9	54	N529	1	76	HEAT&VENT-CHLORINATION FACILIT	0	Retired 2011	NE Chlorination Facilities
1987	4	54	N530	1	76	PLUMBING-CHLORINATION FACILITI	0	Retired 2011	NE Chlorination Facilities
1987	6	54	N531	1	76	ELECTRIC-CHLORINATION FACILITI	0	Retired 2011	NE Chlorination Facilities
1988	6	54	N531	1	76	ELECTRIC-CHLORINATION FACILITI	0	Retired 2011	NE Chlorination Facilities
1988	10	54	N531	1	76	ELECTRIC-CHLORINATION FACILITI	0	Retired 2011	NE Chlorination Facilities
1987	6	54	N532	1	71	GEN CONST-SCUM DISPOSAL FACILI	2,046,505		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1987	6	54	N533	1	71	HEAT,VENT-SCUM DISPOSAL FACILI	101,010		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1986	4	54	N534	1	71	PLUMBING - SCUM DISPOSAL BLDG	26,894		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1988	6	54	N535	1	71	ELECTRIC-SCUM DISPOSAL FACILIT	304,121		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1996	6	54	N548	1	77	GEN CON/MECH-ADMIN COMP PH II	234,980		NE Admin. Bldg.
1996	6	54	N551	1	77	ELECT-ADMIN COMPLEX PH II	87,962		NE Admin. Bldg.
0	0	54	N554	1	83	GEN CONST- MOD AERATION TANKS	0	This item does not appear in the 2002 FAL.	NE Aeration Tank No. 1
0	0	54	N554	1	83	GEN CONST-MOD AERATION TANKS	0	This item does not appear in the 2002 FAL.	NE Aeration Tank No. 1
1985	11	54	N554	1	83	GEN CONST-AERATION TANKS	16,946,922	Value changed from 1999 FAL	NE Aeration Tank No. 1
1987	6	54	N555	1	83	ELECTRIC-MODITY AREATION TANKS	2,493,868	Value changed from 1999 FAL	NE Aeration Tank No. 1
1988	6	54	N555	1	83	ELECTRIC-MODIFY AERATION TANKS	67,757		NE Aeration Tank No. 1
1989	2	54	N555	1	83	ELECTRIC-MODIFY AERATION TANKS	30,147		NE Aeration Tank No. 1
1987	6	54	N556	1	83	STRUCT & MECH - AERATION TANKS	11,636,913	Value changed from 1999 FAL	NE Aeration Tank No. 1
1988	1	54	N556	1	83	STRUCT & MECH - AERATION TANKS	12,871		NE Aeration Tank No. 1
0	0	54	N556	1	83	STRUCT & MECH-AERATION TANKS	0	This item does not appear in the 2002 FAL.	NE Aeration Tank No. 1
1985	9	54	N557	1	83	ELECTRICAL - AERATION TANKS	429,811	Value changed from 1999 FAL	NE Aeration Tank No. 1
0	0	54	N557	1	83	ELECTRIC - AERATION TANKS	0	This item does not appear in the 2002 FAL.	NE Aeration Tank No. 1
1987	8	54	N558	1	71	GEN CONST&MECH-BLOWER BLDG MOD	10,029		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1987	6	54	N558	1	71	GEN CONST&MECH-BLOWER BLDG MOD	8,343,587		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1987	6	54	N559	1	71	HEAT,VENT-BLOWER BLDG MODIFICA	230,783		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1988	6	54	N559	1	71	HEAT,VENT-BLOWER BLDG MODIFICA	16,291		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1988	9	54	N559	1	71	HEAT,VENT-BLOWER BLDG MODIFICA	4,638		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1986	6	54	N560	1	71	PLUMBING - MOD BLOWER BLDG	60,110		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1987	6	54	N561	1	71	ELECTRIC-BLOWER BLDG MODIFICAT	2,365,256		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1988	6	54	N561	1	71	ELECTRIC-BLOWER BLDG MODIFICAT	2,823		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1989	6	54	N561	1	71	ELECTRIC-BLOWER BLDG MODIFICAT	22,830		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1991	6	54	N561	1	71	ELECTRIC-BLOWER BLDG MODICICAT	26,121		NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg
1987	6	54	N562	1	86	GEN CONST&MECH-SEDIMENTATION T	28,103,981		NE Primary Sedimentation Tanks
1991	6	54	N562	1	86	GEN CONST&MECH-SEDIMENTATION T	2,826		NE Primary Sedimentation Tanks
1993	4	54	N562	1	86	GEN CONST&MECH-SEDIMENTATION T	556,474		NE Primary Sedimentation Tanks
1987	6	54	N563	1	87	HEAT,VENT-FINAL SEDIMENTATION	319,781		NE Final Sedimentation Tanks
1987	11	54	N563	1	87	HEAT,VENT-FINAL SEDIMENTATION	4,380		NE Final Sedimentation Tanks
1987	6	54	N564	1	87	PLUMBING-FINAL SEDIMENTATION T	203,551		NE Final Sedimentation Tanks
1988	1	54	N564	1	87	PLUMBING-FINAL SEDIMENTATION T	8,937		NE Final Sedimentation Tanks
1987	6	54	N565	1	81	ELECTRIC WIRING FOR EQUIPMENT	4,126,696		NE Site
1988	6	54	N565	1	81	ELECTRIC WIRING FOR EQUIPMENT	64,915		NE Site
1989	3	54	N565	1	81	ELECTRIC WIRING FOR EQUIPMENT	18,899		NE Site
1990	6	54	N566	1	87	GEN CONST&MECH-FNL SED TKS MOD	17,765,432		NE Final Sedimentation Tanks
1991	6	54	N566	1	87	GEN CONST&MECH-FNL SED TKS MOD	284,895		NE Final Sedimentation Tanks

1992	6	54	N566	1	87	GEN CONST&MECH-FNL SED TKS MOD	39,462		NE Final Sedimentation Tanks
1993	9	54	N566	1	87	GEN CONST&MECH-FLN SED TKS MOD	40,178		NE Final Sedimentation Tanks
1990	6	54	N567	1	87	HEAT,VENT-FINAL SED TANKS MOD	227,843		NE Final Sedimentation Tanks
1992	10	54	N567	1	87	HEAT,VENT-FINAL SED TANKS MOD	27,011		NE Final Sedimentation Tanks
1990	6	54	N568	1	87	PLUMBING-FINAL SED TANKS MOD	186,968		NE Final Sedimentation Tanks
1991	3	54	N568	1	87	PLUMBING-FINAL SED TANKS MOD	2,839		NE Final Sedimentation Tanks
1997	6	54	N568	1	87	PLUMB-FINAL SED TANKS	18,287		NE Final Sedimentation Tanks
1990	6	54	N569	1	87	ELECTRIC-FINAL SED TANKS MOD	1,641,490		NE Final Sedimentation Tanks
1991	6	54	N569	1	87	ELECTRIC-FINAL SED TANKS MOD	19,490		NE Final Sedimentation Tanks
1992	6	54	N569	1	87	ELECTRIC-FINAL SED TANKS MOD	27,311		NE Final Sedimentation Tanks
1993	1	54	N569	1	87	ELECTRIC-FINAL SED TANKS MOD	15,147		NE Final Sedimentation Tanks
1996	6	54	N569	1	87	ELECT-FINAL SED TANKS MOD	7,976		NE Final Sedimentation Tanks
1987	6	54	N576	1	89	GEN CONST&MECH-SLUDGE THICK BL	26,425,524	Value changed from 1999 FAL	NE Sludge Thickener Bldg.
1988	6	54	N576	1	89	GEN CONST&MECH-SLUDGE THICK BL	1,040,786		NE Sludge Thickener Bldg.
1988	8	54	N576	1	89	GEN CONST&MECH-SLUDGE THICK BL	3,890		NE Sludge Thickener Bldg.
1987	6	54	N577	1	89	HEAT,VENT-SLUDGE THICKENER BLD	3,237,980		NE Sludge Thickener Bldg.
1988	5	54	N577	1	89	HEAT/VENT SLUDGE THICKENER BLD	22,234		NE Sludge Thickener Bldg.
1986	4	54	N578	1	89	PLUMBING-SLDG THICKENER BLDG	616,270		NE Sludge Thickener Bldg.
1987	6	54	N579	1	89	ELECTRIC-SLUDGE THICKENER BLDG	2,375,695		NE Sludge Thickener Bldg.
1988	6	54	N579	1	89	ELECTRIC-SLUDGE THICKENER BLDG	53,342		NE Sludge Thickener Bldg.
1990	6	54	N579	1	89	ELECTRIC-SLUDGE THICKENER BLDG	6,172		NE Sludge Thickener Bldg.
1990	10	54	N579	1	89	ELECTRIC-SLUDGE THICKENER BLDG	14,189		NE Sludge Thickener Bldg.
0	0	54	N580	1	72	STRUCT & MECH- SLUDGE DIGESTIO	0	This item does not appear in the 2002 FAL.	NE Sludge Digestion System
1988	6	54	N580	1	72	STRUCT&MECH-SLUDGE DIGESTION F	5,216		NE Sludge Digestion System
1993	4	54	N580	1	72	STRUCT&MECH-SLUDGE DIGESTION F	25,792		NE Sludge Digestion System
1987	6	54	N580	1	72	STRUCT&MECH-SLUDGE DIGESTION F	23,337,229	Value changed from 1999 FAL	NE Sludge Digestion System
1987	6	54	N581	1	72	HEAT,VENT-SLUDGE DIGESTION FAC	1,217,018		NE Sludge Digestion System
1986	10	54	N582	1	72	PLUMBING-SLDG DIGEST & GAS FAC	509,701		NE Sludge Digestion System
1987	6	54	N583	1	72	ELEC SYS-SLUDGE DIGESTION FAC	2,992,719	Value changed from 1999 FAL	NE Sludge Digestion System
1988	6	54	N583	1	72	ELEC SYS-SLUDGE DIGESTION FAC	25,242		NE Sludge Digestion System
1990	6	54	N583	1	72	ELEC SYS-SLUDGE DIGESTION FAC	35,517		NE Sludge Digestion System
1991	6	54	N583	1	72	ELEC SYS-SLUDGE DIGESTION FAC	68,315		NE Sludge Digestion System
1988	6	54	N657	1	81	HIGH MAST LIGHTING	641,773		NE Site
1988	9	54	N657	1	81	HIGH MAST LIGHTING	35,378		NE Site
1988	6	54	N658	1	81	GRAD,PAVE,LANDSCAPE,YARD PIPIN	2,301,080		NE Site
1989	8	54	N658	1	81	GRAD,PAVE,LANDSCAPE,YARD PIPIN	19,487		NE Site
1990	6	54	N661	1	81	GRADING, PAVING & DRAINAGE	900,858		NE Site
1992	6	54	N661	1	81	GRADING, PAVING & DRAINAGE	24,504		NE Site
1997	6	54	N661	1	81	GRADING, PAVING, & DRAINAGE	478		NE Site
1990	6	54	N667	1	90	GEN CONST SLUDGE TRANS STATION	9,190,152		NE Sludge Transfer Station, Proc. & Loading Term.
1991	6	54	N667	1	90	GEN CONST SLUDGE TRANS STATION	101,498		NE Sludge Transfer Station, Proc. & Loading Term.
1999	6	54	N667	1	90	GEN CONST SLUDGE TRANS STATION	2,747		NE Sludge Transfer Station, Proc. & Loading Term.
1990	6	54	N668	1	90	HEAT,VENT-SLUDGE TRANSFER STAT	803,419		NE Sludge Transfer Station, Proc. & Loading Term.
1990	12	54	N668	1	90	HEAT,VENT-SLUDGE TRANSFER STAT	7,382		NE Sludge Transfer Station, Proc. & Loading Term.
1997	6	54	N668	1	90	HEAT, VENT-SLUDGE TRANSFER STA	105,152		NE Sludge Transfer Station, Proc. & Loading Term.
1990	6	54	N669	1	90	PLUMBING -SLUDGE TRANSFER STAT	259,825		NE Sludge Transfer Station, Proc. & Loading Term.
0	0	54	N669	1	90	PLUMBING-SLUDGE TRANSFER STATI	0	This item does not appear in the 2002 FAL.	NE Sludge Transfer Station, Proc. & Loading Term.
1990	6	54	N670	1	90	ELECTRIC -SLUDGE TRANSFER STAT	1,035,385		NE Sludge Transfer Station, Proc. & Loading Term.
1991	6	54	N670	1	90	ELECTRIC -SLUDGE TRANSFER STAT	6,698		NE Sludge Transfer Station, Proc. & Loading Term.
1993	1	54	N670	1	90	ELECTRIC -SLUDGE TRANSFER STAT	10,824		NE Sludge Transfer Station, Proc. & Loading Term.
0	0	54	N670	1	90	ELECTRIC-SLUDGE TRANSFER STAT	0	This item does not appear in the 2002 FAL.	NE Sludge Transfer Station, Proc. & Loading Term.
1990	6	54	N671	1	90	GEN CONST&MECH-SLDG PROC&LOAD	7,488,454		NE Sludge Transfer Station, Proc. & Loading Term.
1991	6	54	N671	1	90	GEN CONST&MECH-SLDG PROC&LOAD	72,583		NE Sludge Transfer Station, Proc. & Loading Term.
1992	6	54	N671	1	90	GEN CONST&MECH-SLDG PROC&LOAD	181,621		NE Sludge Transfer Station, Proc. & Loading Term.
1993	6	54	N671	1	90	GEN CONST&MECH-SLDG PRO&LOAD	245,060		NE Sludge Transfer Station, Proc. & Loading Term.
1993	9	54	N671	1	90	GEN CONST&MECH-SLDG PRO & LOAD	19,685		NE Sludge Transfer Station, Proc. & Loading Term.
1990	6	54	N672	1	90	ELECTRIC-SLDG PROC&LOAD TERM	424,098		NE Sludge Transfer Station, Proc. & Loading Term.
1991	6	54	N672	1	90	ELECTRIC-SLDG PROC&LOAD TERM	18,119		NE Sludge Transfer Station, Proc. & Loading Term.
1992	10	54	N672	1	90	ELECTRIC-SLDG PROC&LOAD TERM	2,959		NE Sludge Transfer Station, Proc. & Loading Term.
1996	6	54	N673	1	91	TWO SLUDGE BARGES	10,597		NE Barges
1990	6	54	N673	1	91	TWO SLUDGE BARGES	4,474,226		NE Barges
1991	6	54	N675	1	77	GEN CONST - ADM BLDG & MAINT F	6,056,574	$9,514,300 These facilities received only about 3% federal	NE Admin. Bldg.
1992	6	54	N675	1	77	GEN CONST - ADM BLDG & MAINT F	112,498	|| grants, per Joe Clare 10/7/99 email to JRM	NE Admin. Bldg.
1993	5	54	N675	1	77	GEN CONST - ADM BLDG & MAINT F	2,440	|| (filed with PN 31416.0100 Miscellaneous	NE Admin. Bldg.
1991	6	54	N676	1	77	HVAC - ADMIN BLDG & MAINT FACI	790,186	|| Correspondence).	NE Admin. Bldg.
1992	3	54	N676	1	77	HVAC - ADMIN BLDG & MAINT FACI	110,567	||	NE Admin. Bldg.
0	0	54	N676	1	77	HVAC-ADMIN BLDG & MAINT FACIL	0	This item does not appear in the 2002 FAL.	NE Admin. Bldg.
1991	6	54	N677	1	77	PLUMBING - ADMIN BLDG & MAINT	481,628	||	NE Admin. Bldg.
1991	7	54	N677	1	77	PLUMBING - ADMIN BLDG & MAINT	66,776	||	NE Admin. Bldg.
1991	6	54	N678	1	77	ELECTRICAL - ADMIN BLDG & MAIN	1,673,674	||	NE Admin. Bldg.
1992	6	54	N678	1	77	ELECTRICAL - ADMIN BLDG & MAIN	206,484	||	NE Admin. Bldg.
1992	11	54	N678	1	77	ELECTRICAL - ADMIN BLDG & MAIN	12,662	||	NE Admin. Bldg.
1997	6	54	N678	1	77	ELECT-ADMIN BLDG & MAIN	811	||	NE Admin. Bldg.
1995	9	54	N691	1	77	COMPUTER MONITOR & CONTROL SYS	4,125,315		NE Admin. Bldg.
1981	9	54	SD-466-NE	1	81	FRANKFORD HIGH LEVEL SEWER	76,178	Partial Retirnement in 2017	NE Site
1977	5	54	SD-466-NE	1	81	GAS MAIN PIKE ST	44,045	Partial Retirnement in 2017	NE Site

1980	6	54	SD-466-NE	1	81	ADDITIONAL FRK HIGH LEVEL SEWR	3,421,127	Partial Retirnement in 2017	NE Site
0	0	54	SD-524-NE	1	85	CONSTR ELEC BLDG	0	This item does not appear in the 2002 FAL.	NE Elect. Bldg.
1985	6	54	SD-525-NE	1	85	HEAT & VENT NEW ELECTRICAL BLD	27,367		NE Elect. Bldg.
1980	6	54	SD-525-NE	1	85	HEATING & VENT FOR ELEC BLDG	47,395		NE Elect. Bldg.
1980	6	54	SD-526-NE	1	85	PLUMB FOR NEW ELEC BLDG	24,557		NE Elect. Bldg.
1984	6	54	SD-527-NE	1	85	ELEC SYS FOR ELECTRICAL BLDG	838,704		NE Elect. Bldg.
1984	6	54	SD-536-NE	1	88	TREATED WASTWTR EFFLU CONDUITS	1,877,876		NE Effluent Conduit
2006	0	54	SD-541-NE	1	81	SITE PREP FOR NEW PLANT	3,276,700		NE Site
2006	0	54	SD-541-NE	1	81	SITE PREP FOR NEW PLANT	1,343,810		NE Site
1998	6	54	N668	1	90	HEAT, VENT-SLUDGE TRANSFER STAT	62,899		NE Sludge Transfer Station, Proc. & Loading Term.
1991	3	54	N568	1	87	ELECTRIC-FINAL SED TANKS MOD	19,093		NE Final Sedimentation Tanks
1999	6	54	N668	1	87	HEAT, VENT-SLUDGE TRF STATION	93,207		NE Final Sedimentation Tanks
TOTAL NE PLANT ASSETS (WPAP)							270,356,541	x	
TOTAL NE PLANT ASSETS							477,195,679		
							477,195,679	(0)	

File: SCOS23_24_ver1.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2024 | Budget Yr 2023 | Ver. 1a
SWPA1 - SW Plant Assets (Non-WPAP) as of 6/30/2022 | P.N. 135647.0100 | January 27, 2023 1:55 p.m. | Plant-5
Reference: FY22 F-6 Fixed Assets 10.25.22.xlsx

Year	Month	Depot	Work Order	Non-WPAP	Plant Function ID	Description	Cost $		Plant Function
1979	10	55	P-427	0	107	PROJ SCHEDULER-CONST	0	Retired 2017	SW Site
1988	8	55	1618	0	107	GEN CONST - AUTO MAINT FAC	0	This item does not appear in the 2002 FAL.	SW Site
1990	1	55	1618	0	107	REHAB AUTO MAINTENANCE FACILIT	0	This item does not appear in the 2002 FAL.	SW Site
1988	9	55	1619	0	107	H V A C - AUTO MAINT FAC	0	This item does not appear in the 2002 FAL.	SW Site
1989	7	55	1621	0	107	ELECTRIC - AUTO MAINT FAC	0	This item does not appear in the 2002 FAL.	SW Site
1996	6	55	1698	0	107	GALLERY LIGHTING IMP	4,606		SW Site
1994	6	55	1701	0	107	PAVING / REPAVING	0	This item does not appear in the 2022 FAL.	SW Site
1996	6	55	2897	0	107	INST TANK MONITORING/LEAK DECT	53,126		SW Site
1990	6	55	CP02211A	0	96	REHAB SLDGE COLLECTOR SYS TNKS	1,023,604		SW Sludge Handling & Machine Shop
1980	6	55	E-8248	0	115	HEAT & VENT - SHOP&MAINT BLDG	156,304		SW Shop & Maintenance Bldg.
0	0	55	G565	0	99	REHAB CHLORINATION SYSTEM	0	This item does not appear in the 2002 FAL.	SW Chlorination Facilities
0	0	55	G565	0	99	REHAB CHLORINATION SYSTEM	0	This item does not appear in the 2002 FAL.	SW Chlorination Facilities
0	0	55	G566	0	99	REHAB CHLORINATION SYSTEM	0	This item does not appear in the 2002 FAL.	SW Chlorination Facilities
0	0	55	G566	0	99	REHAB CHLORINATION SYSTEM	0	This item does not appear in the 2002 FAL.	SW Chlorination Facilities
0	0	55	G566	0	99	REHAB CHLORINATION SYSTEM	0	This item does not appear in the 2002 FAL.	SW Chlorination Facilities
1989	6	55	G567	0	107	RESTR PICKET FENCE-PARKING LOT	44,678		SW Site
1987	6	55	G568	0	104	CONST PLANT WATER TANK DRAIN	15,588		SW Elevated Water Tank
1988	6	55	G568	0	104	WATER TANK DRAIN	47,069		SW Elevated Water Tank
1988	6	55	G571	0	115	IMPROVE STORAGE RM- MAINT&SHOP	6,561		SW Shop & Maintenance Bldg.
1996	6	55	G587	0	107	HIGH MAST LIGHTING OVERHAUL	8,680		SW Site
1990	2	55	G588	0	122	REHAB SLDG DIGESTER PIPING	46,977		SW Sludge Digestion Facilities
1994	10	55	G589	0	94	ELEC & MECH REHAB GREASE INCEN	0	Retired as of 2022	SW Grease Burner
1996	6	55	G595	0	93	GRIT & ASH STORAGE AREA	0	Retired as of 2022	SW Screen, Blower, Prim. Sludge PS, Grit
1990	12	55	G599	0	96	FORCE MN&PUMP FAC, SLUDGE PROC	0	Retired as of 2022	SW Sludge Handling & Machine Shop
1991	2	55	G600	0	96	FORCE MN&PUMP FAC- SLUDGE PROC	0	Retired as of 2022	SW Sludge Handling & Machine Shop
1990	6	55	G601	0	93	GRIT REMOVERS - PRE-TREATMENT	17,200		SW Screen, Blower, Prim. Sludge PS, Grit
1990	12	55	G601	0	93	GRIT REMOVERS - PRE-TREATMENT	111,978		SW Screen, Blower, Prim. Sludge PS, Grit
1996	6	55	G601	0	93	GRIT REMOVERS-PRE TREATMENT	1,542		SW Screen, Blower, Prim. Sludge PS, Grit
1990	6	55	G602	0	110	REHAB FINAL SEDIMENTATION TNKS	673,524		SW Sedimentation Tanks
1991	2	55	G602	0	110	REHAB FINAL SEDIMENTATION TNKS	80,505		SW Sedimentation Tanks
1996	6	55	G603	0	115	GEN & MECH-SHOP AREA DEWATERIN	0	Retired as of 2022	SW Shop & Maintenance Bldg.
0	0	55	G605	0	94	OIL,PUMP,DRAIN,GREASE TRAP	0	This item does not appear in the 2002 FAL.	SW Grease Burner
1996	6	55	G612	0	119	NEW SLIDE GATE & SLUICE GATE A	0	Retired as of 2022	SW Influent PS
1996	6	55	G617	0	107	NET CATWALKS FOR OVERHAUL CRAN	11,465		SW Site
1992	9	55	G618	0	107	REPL VARIABLE SPEED DRIVES	326,704		SW Site
0	0	55	G618	0	107	REPL VARIABLE SPEED DRIVES	0	This item does not appear in the 2002 FAL.	SW Site
1991	2	55	G622	0	107	REPR STEAM BOILERS & ACCESSORI	116,759		SW Site
1992	6	55	G623	0	107	REPR HEAT EXCHANGE & WTR MAKE-	447,828		SW Site
1992	12	55	G623	0	107	REPR HEAT EXCHANGE & WTR MAKE-	1,948		SW Site
1995	10	55	G639	0	107	PAINTING & APPURTENANT EL TANK	201,191		SW Site
1995	5	55	N729	0	107	RELOC OF RPZ BACKFLOW PRE	92,247		SW Site
0	0	55	P1005	0	114	COMPUTERIZED MAINT MGMT SYS	0	Retired 2011	SW Admin. Bldg.
1973	4	55	P-322	0	107	SOIL&FOUND INV-SWWPC	0	Retired 2019	SW Site
1975	2	55	P-323	0	107	DESIGN FOR SW WPCP	0	Retired 2019	SW Site
1989	6	55	P-324	0	107	ENGR SERVICE - PLANS & SPECS	7,869,295		SW Site
1974	4	55	P-324	0	107	DETAIL DSGN SW WPCP	0	Retired 2019	SW Site
1976	8	55	P-324	0	107	PLN&SPECS FOR SW WPC	0	Retired 2019	SW Site
1977	11	55	P-324	0	107	PLNS&SPCS FOR SW WPC	3,788,000		SW Site
1978	12	55	P-324	0	107	DETAIL DESIGN	2,790,000		SW Site
1976	10	55	P402	0	93	CRIT PTH MET CON SCH	0	Retired 2017	SW Screen, Blower, Prim. Sludge PS, Grit
1982	6	55	P-431	0	107	ENG SERV,CONSULT-EXPAN SWWPCP	128,146		SW Site
1983	10	55	P-473	0	122	ENGR SERV REPAIR SLDGE DIG 1&3	0	Retired 2017	SW Sludge Digestion Facilities
1985	6	55	P-506	0	114	CPM SCHEDULING SERVICES	616,334		SW Admin. Bldg.
1989	6	55	P-506	0	114	CPM SCHEDULING SERVICE	189,746		SW Admin. Bldg.
1985	6	55	P-572	0	115	PLANS MAINT SHOP & REVIEW WARE	0	Retired 2017	SW Shop & Maintenance Bldg.
1990	6	55	P-574	0	107	CONST MANAGEMENT SERVICES	0	Retired 2017	SW Site
0	0	55	P-610	0	123	ENGR SERV SLUDGE COMPOSTING FA	0	This item does not appear in the 2002 FAL.	SW Composting Facilities
0	0	55	P-610	0	123	ENG SERV-SLUDGE COMPOSTING FAC	0	This item does not appear in the 2002 FAL.	SW Composting Facilities
0	0	55	P-690	0	105	MODIFY SLUDGE DEWATERING FAC	0	This item does not appear in the 2002 FAL.	SW Dewatering Facilities
0	0	55	P-738	0	107	ENGR SERV CONST BARGES/DOCKING	0	This item does not appear in the 2002 FAL.	SW Site
0	0	55	P-738	0	96	ENG SERV-SLUDGE BARGES & DOCKI	0	This item does not appear in the 2002 FAL.	SW Sludge Handling & Machine Shop
0	0	55	P-981	0	107	SLUDGE LAGOON STAB EVALUATION	0	This item does not appear in the 2002 FAL.	SW Site
0	0	55	PV11422	0	105	GEN CONST-SLDG DEWTR FAC	0	This item does not appear in the 2002 FAL.	SW Dewatering Facilities
1984	12	55	PV23713	0	115	IMPROVE STORAGE RM MAINT&SHOP	0	Retired 2019	SW Shop & Maintenance Bldg.
0	0	55	PV28734	0	99	REHAB CHLORINATION SYSTEM	0	This item does not appear in the 2002 FAL.	SW Chlorination Facilities
1986	6	55	PV41925	0	116	NEW ROOFING - WAREHOUSE BLDG	56,660		SW Warehouse
1987	6	55	PV51824	0	104	CONST PLANT WATER TANK DRAIN	32,960		SW Elevated Water Tank
0	0	55	PV51826	0	99	REHAB CHLORINATION SYSTEM	0	This item does not appear in the 2002 FAL.	SW Chlorination Facilities
1986	12	55	PV76219	0	115	GEN CONST&MECH MAINT FACILITY	46,170		SW Shop & Maintenance Bldg.

1988	6	55	R&R8801	0	117	CLARIFIER REHABILITATION	374,706		SW Primary Sedimentation Tanks
1988	6	55	R&R8806	0	122	PUMPS&PIPING DIGEST#16-E.COAST	115,427		SW Sludge Digestion Facilities
0	0	55	SD-318-SWO01	0	119	NEW ENTR-PS 26&PASSY	0	This item does not appear in the 2002 FAL.	SW Influent PS
1971	12	55	SD-356-SW	0	102	PILES UNDER ELEC SBS	0	Retired as of 2022	SW Electrical Substation
1971	12	55	SD-356-SW	0	107	MISC CONCRETE&PAVING	0	Retired as of 2022	SW Site
1971	12	55	SD-356-SW	0	107	MISC EQUIP	0	Retired as of 2022	SW Site
1971	12	55	SD-356-SW	0	107	EXCAVATION	0	Retired as of 2022	SW Site
1971	12	55	SD-356-SW	0	107	PIPES&VALVES	0	Retired as of 2022	SW Site
0	0	55	SD-437-SW	0	107	REHAB DISPERS CHMBR-70TH&DICKS	0	This item does not appear in the 2002 FAL.	SW Site
0	0	55	SD-438-SW	0	107	REMOTE MONITOR SYS-70TH&DICKS	0	This item does not appear in the 2002 FAL.	SW Site
0	0	55	SD-438-SW	0	107	REMOTE MONITOR SYS-70TH&DICKS	0	This item does not appear in the 2002 FAL.	SW Site
1981	6	55	SD-515-SW	0	107	HEATING & VENT RECYCLE CTR	0	Retired 2019	SW Site
1981	6	55	SD-537-SWO	0	123	GRADE PAVE&DRNAGE-COMPOST AREA	0	Retired as of 2022	SW Composting Facilities
1984	2	55	SD-551-SW	0	107	GRADING,PAVING,FENCE-COMP.AREA	0	Retired as of 2022	SW Site
1983	8	55	SD-555-SW	0	107	CONCRETE PAD,WALKWAY,DRIVEWAY	9,813		SW Site
1988	6	55	W444	0	122	REPAIR SLUDGE DIGESTER TANK #1	255,488		SW Sludge Digestion Facilities
1993	6	55	W640	0	112	MOD LIQUID OXYGEN SYSTEM	214,899		SW Oxygen Supply
1996	6	55	W640	0	112	MOD LIQUID OXYGEN SYSTEM	598,395		SW Oxygen Supply
1996	6	55	W642	0	107	REPL HVAC	9,071		SW Site
1996	2	55	W645	0	107	OIL PUMP,PIPING,SANITARY DRAIN	173,420		SW Site
1995	8	55	W646	0	122	RENOVATION OF DIGESTERS 1&2	564,187		SW Sludge Digestion Facilities
1997	6	55	W647	0	97	REHAB DISOLVED AIR FLOAT TANKS	1,413,241		SW Sludge Digestion
1995	2	55	W649	0	93	MOD TO GRIT/ASH PAD	0	Retired as of 2022	SW Screen, Blower, Prim. Sludge PS, Grit
1997	6	55	W650	0	117	REHAB OF PRIM SED TANKS	2,468,594		SW Primary Sedimentation Tanks
1994	12	55	W651	0	116	FURN/INSTAL STOR FAC WHSE BLDG	326,183		SW Warehouse
1997	6	55	W652	0	96	INSTAL SLUDGE TRANSFER PUMP	266,457		SW Sludge Handling & Machine Shop
1997	6	55	W661	0	97	GEN CONST & MECH- AIR FLOAT TA	1,143,729		SW Sludge Digestion
1997	6	55	W663	0	121	REPL VAR SPEED DRIVE DIG SLUD	129,103		SW Sludge Thickener Bldg.
1997	6	55	W675	0	107	INSTL PLANT PF CAPACITORS & SE	179,332		SW Site
1997	6	55	W692	0	93	INSTL INFFLUENT CHANNEL BAR SC	60,581		SW Screen, Blower, Prim. Sludge PS, Grit
1997	6	55	W703	0	124	REPL 6 IN SLUDGE GAS PIPE	0	Retired as of 2022	SW Sludge Gas Facilities
1997	6	55	3038	0	107	ASBESTOS REMOVAL & REPL CEILIN	33,291		SW Site
1994	6	55	P-324	0	107	PLANS & SPECS FOR SW WPC	26,391		SW Site
1998	6	55	P1053	0	107	ENG SERV TO EVALUATE HVAC SYS	0	Retired 2017	SW Site
1997	4	55	P1098	0	107	DESIGN ANAL-SLUD LAGOON -REPAIR	0	Retired 2017	SW Site
1998	6	55	P1125	0	118	REB HVAC-PRELIM TREAT BLDG	0	Retired 2017	SW Preliminary Treatment Building
1998	6	55	P1130	0	107	GEN SERV-SUPPL PWD RESOURCES	0	Retired 2019	SW Site
1998	6	55	P1139	0	107	ENG SERV-DESIGN/CONST HVAC	0	Retired 2019	SW Site
1998	6	55	P1148	0	93	MOD GRIT, SCREENINGS, SCUM DISP	0	Retired 2017	SW Screen, Blower, Prim. Sludge PS, Grit
1996	3	55	W648	0	97	REPL VAR SPEED DRIVE SLUDGE PU	939,380		SW Sludge Digestion
1996	11	55	W653	0	124	REPL OF SLUDGE GAS BURNERS	270,319		SW Sludge Gas Facilities
1996	10	55	W664	0	113	REHAB EFFLUENT PUMP CONTROLS	96,711		SW Effluent PS
1997	6	55	W669	0	109	ELECT-DISSOLVED AIR FLOTATION	676,633		SW Aeration Tanks
1997	6	55	W671	0	124	REHAB-SLUD GAS SYSTEM	162,594		SW Sludge Gas Facilities
1997	2	55	W679	0	107	REPAIR HIGH MAST LIGHT POLES	164,002		SW Site
1997	9	55	W685	0	93	GRIT INCINERATOR BYPASS SYS	223,227		SW Screen, Blower, Prim. Sludge PS, Grit
1996	11	55	W688	0	97	INSTL SLUD TFR PUMP #2	124,152		SW Sludge Digestion
1997	5	55	W697	0	107	MOD TRAVELING BRIDGE CRANES	196,764		SW Site
0	0	55	W699	0	97	INSTL TWO MECH MIXERS-SLUDG D	0	This item does not appear in the 2002 FAL.	SW Sludge Digestion
1997	2	55	W701	0	114	POLY SILICONE ROOF-ADMIN-PRELI	290,957		SW Admin. Bldg.
1997	9	55	61009	0	107	REMOVE UNDERGRD STORAGE TKS	0	Retired 2019	SW Site
1999	6	55	73005	0	107	MOD PLANT STORM & DRAIN SYS	578,829		SW Site
1998	8	55	73006	0	107	ELECT-WAREHOUSE & ADJ FAC	316,540	Value changed as of 2020	SW Site
1999	6	55	73007	0	124	REPL SLUD GAS PIPING-PHASE 2	0	Retired as of 2022	SW Sludge Gas Facilities
1998	7	55	73011	0	124	REHAB SLDG GAS STOR TK COVER	357,977		SW Sludge Gas Facilities
1998	7	55	73015	0	107	WATERPROOFING OF WAREHOUSE NO2	226,173		SW Site
1998	8	55	P-324	0	107	PLANS & SPECS FOR SW WPC	25,719		SW Site
1998	5	55	W670	0	122	REHAB-SLUD DIG MIXING/RECIRCUL	1,206,239		SW Sludge Digestion Facilities
1998	10	55	W681	0	110	ELEVATING FINAL SED TK FLIGHTS	2,534,789		SW Sedimentation Tanks
1998	10	55	W682	0	107	MOD PLANT DRAIN SYSTEM	281,452		SW Site
1996	11	55	W688	0	97	INSTL SLUD TFR PUMP #2	1,004		SW Sludge Digestion
1997	2	55	W701	0	107	POLY SILICONE ROOF-ADMIN-PRELI	1,018		SW Site
1998	3	55	W705	0	124	INSTL DIG GAS FLOW METER	189,770		SW Sludge Gas Facilities
2001	2	55	70001	0	106	ACCESS CONT & ALARM SYS	834,453	Projects added since the 1999 FAL.	SW General Improvements
1999	2	55	73002	0	99	HVAC-SODIUM HYPOCHLORITE FAC	482,395	Projects added since the 1999 FAL.	SW Chlorination Facilities
1999	2	55	73003	0	99	PLUMB-SODIUM HYPOCHLORITE FAC	84,402	Projects added since the 1999 FAL.	SW Chlorination Facilities
2000	2	55	73004	0	99	ELECT-SODIUM HYPOCHLORITE FAC	179,181	Projects added since the 1999 FAL.	SW Chlorination Facilities
1999	6	55	73005	0	107	MOD PLANT STORM DRAIN SYS	4,699	Projects added since the 1999 FAL.	SW Site
2000	2	55	73007	0	124	REPL SLUDGE GAS PIPING-PHASE 2	0	Projects added since the 1999 FAL. Retired as of 2022.	SW Sludge Gas Facilities
2001	1	55	73008	0	114	CONST-ALT/ENCLOS INT COURT ADM	575,465	Projects added since the 1999 FAL.	SW Admin. Bldg.
2000	1	55	73010	0	114	ELECT-ENCLOSUR INT COURT ADMIN	53,962	Projects added since the 1999 FAL.	SW Admin. Bldg.
2001	6	55	73012	0	124	INSTL-2ND ELECT SERV GAS SLUD	367,651	Projects added since the 1999 FAL.	SW Sludge Gas Facilities
2000	8	55	73022	0	106	ELECT-RENOV SOUTH SIDE	279,718	Projects added since the 1999 FAL.	SW General Improvements
1999	7	55	P-967	0	106	ENG SERV-VARIOUS PROJECTS	0	Retired 2019	SW General Improvements
1998	6	55	P1130	0	106	ENGR SERV TO SUPPL PWD RESOURC	0	Retired 2019	SW General Improvements
2000	6	55	P1139	0	107	ENG SERV-DESIGN/CONST HVAC SYS	0	Retired 2019	SW Site

2001	6	55	P1201	0	106	CONVER OF HALON SUPPRESSION SY	0	Retired 2017	SW General Improvements
2001	6	55	P1220	0	121	ENG SER-EVAL HVAC EQUIP SLD TH	0	Retired 2019	SW Sludge Thickener Bldg.
0	0	55	P1222	0	106	ENG SERV-METCALF & EDDY	0	Retired 2011	SW General Improvements
0	0	55	P1228	0	107	DRIOX PIPING & VALVES UPGRADE	0	Retired 2011	SW Site
2000	9	55	P1240	0	106	G&H-ADD'L ENG DESIGN SERVICES	0	Retired 2017	SW General Improvements
1999	1	55	W634	0	118	REPL HOT WATER CORES-PREM TREA	810,239	Projects added since the 1999 FAL.	SW Preliminary Treatment Building
2000	10	55	W662	0	117	REHAB SCUM PS-PRIM SED TANKS	869,460	Projects added since the 1999 FAL.	SW Primary Sedimentation Tanks
1998	10	55	W673	0	106	COMBINED WITH W680-ROOF-POLY	27,176	Projects added since the 1999 FAL.	SW General Improvements
1998	10	55	W680	0	122	POLY SILICONE ROOF-DIG TK THIC	1,035,182	Projects added since the 1999 FAL.	SW Sludge Digestion Facilities
2000	1	55	W689	0	106	OPERATOR INTERFACE NETWORK	1,422,361	Projects added since the 1999 FAL.	SW General Improvements
2000	2	55	W690	0	119	REHAB INFLUENT PUMPS	440,725	Projects added since the 1999 FAL.	SW Influent PS
1999	1	55	W693	0	93	REPL GRIT PIPING & VALVES	643,391	Projects added since the 1999 FAL.	SW Screen, Blower, Prim. Sludge PS, Grit
1998	11	55	W694	0	106	REHAB 15KV SWITCHGEAR	764,547	Projects added since the 1999 FAL.	SW General Improvements
2000	1	55	W707	0	106	ARCHITECT-RENOV SAMPLE PREP LA	156,349	Projects added since the 1999 FAL.	SW General Improvements
2000	1	55	W708	0	106	MECH/PLUMB-RENOV SAMPLE PREP L	128,438	Projects added since the 1999 FAL.	SW General Improvements
1999	9	55	W709	0	106	ELECT-RENOV SAMPLE PREP LAB	32,599	Projects added since the 1999 FAL.	SW General Improvements
2002	8	55	73001	0	99	INSTL-SODIUM HYPOCHLORITE FAC	429,831	Projects added since the 2002 FAL.	SW Chlorination Facilities
2002	1	55	73013	0	107	INSTL-STBY LIGHT, BATPK, GENERAT	621,892	Projects added since the 2002 FAL.	SW Site
2002	1	55	73017	0	122	REHAB DIGESTER TKS 1 & 2	444,154	Projects added since the 2002 FAL. and Additions in 2019	SW Sludge Digestion Facilities
2002	5	55	73018	0	110	CONCRETE REPAIR-NEW FINAL SED	1,988,080	Projects added since the 2002 FAL.	SW Sedimentation Tanks
2001	10	55	73020	0	106	INSTL - PROGRAMMABLE CONTROLLER	988,779	Value changed in 2020/ Projects added since the 2002 FAL.	SW General Improvements
2003	6	55	73021	0	114	REHAB HVAC - ADMIN	**0**	Projects added since the 2002 FAL. Retired as of 2022.	SW Admin. Bldg.
2002	2	55	73035	0	96	REHAB-RET SLDG LINE CONTROL SY	361,771	Projects added since the 2002 FAL.	SW Sludge Handling & Machine Shop
0	0	55	MP389	0	104	G&H -DESIGN SLUD DEWTR FAC	0	Retired 2011	SW Elevated Water Tank
0	0	55	91201	0	102	REHAB OF PHONE SYTM- SWWPCP	0	Retired 2012	SW Electrical Substation
2003	12	55	73016	0	114	RENOVATION OFHVAC SYS	2,579,829	Additions in 2019	SW Admin. Bldg.
2003	3	55	73019	0	121	SLDTHK-LO/VOLT,SWITGR,MVCIRC	1,430,815		SW Sludge Thickener Bldg.
2006	4	55	73023	0	116	GEN CONST NEW OFFICES WAREHOUSES	199,641		SW Warehouse
2006	7	55	73024	0	116	HVAC WORK FOR NEW OFFICES-TOILET FA	53,719		SW Warehouse
2007	0	55	73026	0	116	ELECTR WORK FOR NEW OFFICES-TOILET	102,287		SW Warehouse
2003	12	55	73027	0	114	EMERGREPL FUELOILLINES	540,833		SW Admin. Bldg.
2003	12	55	73028	0	114	FIBERGLASS DOORS	746,072		SW Admin. Bldg.
2003	8	55	73029	0	106	MECH-REHAB VALVES&ACTUATORS	1,217,328		SW General Improvements
2007	5	55	73031	0	118	ELECTR WORK FOR RENOVATION OF HVAC	2,390,364	Additions in 2019	SW Preliminary Treatment Building
2004	3	55	73032	0	106	ELECT-REHABVALVES & ACTUATORS	115,962		SW General Improvements
2004	10	55	73033	0	110	MECH FINAL SED TK SCUM REMOVAL	2,642,660		SW Sedimentation Tanks
2005	1	55	73034	0	110	ELECT FINAL SED TK SCUM REMOVAL	931,411		SW Sedimentation Tanks
2003	10	55	73037	0	123	IMPROVERESIDUAL PAD	691,838	Additions in 2019	SW Composting Facilities
2004	11	55	73038	0	93	REPL SLUICE GATE OPERATORS	**720,250**	Project edited since the 2020 FAL.	SW Screen, Blower, Prim. Sludge PS, Grit
2005	2	55	73040	0	112	EXT PAINTING CRYOGENIC OXYGEN	418,113		SW Oxygen Supply
2005	4	55	73044	0	116	REPL TRANSFORMERS WAREHOUSE 2	115,559		SW Warehouse
2004	6	55	P1139	0	118	ENGSERV-DESIGN/CONSTHVAC SYS	0	Retired 2011	SW Preliminary Treatment Building
2003	6	55	P1201	0	102	CONVER HALON SUPPRESSION SYS	0	Retired 2017	SW Electrical Substation
2005	6	55	P1225	0	93	REHABPLANTWTRSYS,GRIT PAD I	0	Retired 2011	SW Screen, Blower, Prim. Sludge PS, Grit
2005	6	55	P1225	0	93	**REHABPLANTWTRSYS,GRIT PAD I**	0	Retired 2019	SW Screen, Blower, Prim. Sludge PS, Grit
2002	6	55	P1225	0	106	ENGSERV-METCALF & EDDY	0	Retired 2019	SW General Improvements
2005	6	55	P1326	0	114	NORTHSIDEHVAC INP,START-UPCE	0	Retired 2017	SW Admin. Bldg.
2005	3	55	P5103095	0	114	Repl Cable and Telephone Systems	0	Retired 2017	SW Admin. Bldg.
2005	3	55	P5109676	0	114	Inst New 25 Pair Cable	0	Retired 2017	SW Admin. Bldg.
1999	4	55	P1188	0	124	ENG STEAM INJECTION PILOT STUDY	0	Retired 2019	SW Sludge Gas Facilities
2006	6	55	V68919662	0	114	REPL PIPES FOR FUEL TANKS	52,132		SW Admin. Bldg.
2007	5	55	72046	0	100	HVAC WORK FOR NEW OFFICES-TOILET FA	0	Retired 2019	SW Office & Equip. Building
2008	1	55	73025	0	116	PLUMBING WORK FOR NEW OFFICES AND	107,345		SW Warehouse
2007	9	55	73030	0	114	HVAC WORK FOR RENOVATION OF THE HV	29,160,535	Additions in 2019	SW Admin. Bldg.
2009	1	55	73036	0	107	Rehab of Plant Water System	1,461,303	Additions in 2019	SW Site
2010	8	55	73039	0	112	MECH. WORK FOR REHAB OF OXYGENATIC	2,282,327	Additions in 2019	SW Oxygen Supply
2008	1	55	73041	0	96	REPLACEMENT OF WASTE SLUDGE PIPES A	641,786		SW Sludge Handling & Machine Shop
2008	7	55	73042	0	110	REHAB PRIMARY SED. TANKS SW	4,331,902		SW Sedimentation Tanks
2009	9	55	73043	0	117	S.W.- Rehab. Power Dist. System at PST (SC11-2	**2,244,340**	Project edited since the 2020 FAL.	SW Primary Sedimentation Tanks
2011	12	55	73046	0	96	Rehab of Sludge Return Piping	4,853,488		SW Sludge Handling & Machine Shop
2009	11	55	73049	0	117	S.W.- Rehab. of Final Sed. Tanks (SC06-09-08)	7,936,302		SW Primary Sedimentation Tanks
2011	3	55	73050	0	107	Repl of Roadway Lighting	1,415,955		SW Site
2011	2	55	73051	0	124	Replace Sludge Gas Lines	3,720,309	Additions in 2019	SW Sludge Gas Facilities
2009	10	55	73052	0	93	S.W.- Rehab. Grit Collector Tanks (SC11-19-08)	978,444	Additions in 2019	SW Screen, Blower, Prim. Sludge PS, Grit
2014	3	55	73053	0	107	MED AND LOW VOLTAGE SWITCHGR REPL	2,740,250	Value changed in 2020	SW Site
2010	11	55	73054	0	111	Inspect, Test and Calibrate Electrical System	688,454		SW Electrical Bldg.
2011	3	55	73055	0	106	REPLACE DOORS	1,195,181		SW General Improvements
2013	6	55	73056	0	124	WASTE GAS BURNER REHAB-SW	3,144,632	Additions in 2019	SW Sludge Gas Facilities
2013	7	55	73056	0	124	WASTE GAS BURNER REHAB-SW	113,769		SW Sludge Gas Facilities
2013	9	55	73057	0	118	replace 480v switchgear and 208v unit substation-p	1,209,042		SW Preliminary Treatment Building
2014	2	55	73059	0	113	install/sluice gate at effluent pumping station-swwp	100,591	Additions in 2019	SW Effluent PS
2014	4	55	73068	0	107	NEW PERVIOUS FOR PARKING LOT-SWWPC	919,902		SW Site
2016	6	55	73068	0	107	NEW PERVIOUS FOR PARKING LOT-SWWPC	133,191		SW Site
2010	4	55	75021	0	107	70th & Dicks-Rehab. Of Sluice Gat Chamber-Gen.	2,154,494	Additions in 2019	SW Site
2016	6	55	75021	0	107	**REHABSLUICEGATECHAMBER-70TH/DICK	98,428	Additions in 2019	SW Site
2010	4	55	75022	0	107	70th & Dicks-Rehab. Of Sluice Gat Chamber-Gen.	582,229		SW Site

1985	8	55	W544	0	107	**STORMWTRDRAINS SLDGCOMP SW**	543,790		SW Site
1985	8	55	W544	0	107	**STORMWTRDRAINS SLDGCOMP SW**	88,525		SW Site
2008	3	55	P1394	0	112	REHAB OXYGEN SYS	0	Retired 2019	SW Oxygen Supply
2015	6	55	73039	0	112	MECH. WORK FOR REHAB OF OXYGENATIC	157		SW Oxygen Supply
2015	6	55	73050	0	107	Repl of Roadway Lighting	513	Additions in 2019	SW Site
2016	6	55	73051	0	124	Replace Sludge Gas Lines	36,062	Additions in 2019	SW Sludge Gas Facilities
2015	6	55	73055	0	106	REPLACE DOORS	52		SW General Improvements
2016	6	55	73056	0	124	WASTE GAS BURNER REHAB-SW	66,290	Additions in 2019	SW Sludge Gas Facilities
2019	5	55	73058	0	97	Digester Roof Replacement (General) at SWWPCP	8,825,367		SW Sludge Digestion
2016	6	55	P5103095	0	106	**Repl Cable and Telephone Systems **	0	Retired 2017	SW General Improvements
2017	12	55	73070	0	119	REPLACE/REHAB INFLUENT SCREW PUMPS	4,692,729		SW Influent PS
2017	12	55	73072	0	95	INSTALL OF PNEUMATIC SYS FOR FLOC TA	2,466,651		SW Settling Tanks
2018	8	55	73071	0	113	Effluent Pump Addition at SWWPCP	1,316,143	Updated COA %	SW Effluent PS
2019	1	55	73088	0	97	Digester Roof Replacement (Elec) at SWWPCP	880,910		SW Sludge Digestion
2021	11	55	73064	0	110	Concrete Repairs and Coating of Aeration Tanks at	4,452,828		SW Sedimentation Tanks
2019	4	55	73073	0	124	Replace Sludge Return Line at Aeration Tanks at S	3,241,094		SW Sludge Gas Facilities
2020	1	55	73075	0	107	Replace Digester Gas Underground Piping and Reh	3,021,466		SW Site
-	-	55		0	114	General Plant	4,986,576		SW Admin. Bldg.
TOTAL SW PLANT ASSETS (Non-WPAP)							172,043,018	x	

File: SCOS23_24_ver1.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2024 | Budget Yr 2023 | Ver. 1a
SWPA2 - SW Plant Assets (WPAP) as of 6/30/2022 | P.N. 135647.0100 | January 27, 2023 1:55 p.m. | Plant-6
Reference: FY22 F-6 Fixed Assets 10.25.22.xlsx

Year	Month	Depot	Work Order	WPAP	Plant Function ID	Description	Cost $		Plant Function
1981	6	55	SD-450-SW	1	112	CYROGENIC OXYGEN SUPPLY SYSTEM	767		SW Oxygen Supply
1982	6	55	SD-450-SW	1	112	OXYGEN SUPPLY & OXYGENATION SY	11,031,650		SW Oxygen Supply
1981	6	55	SD-451-SW	1	122	OXYGEN ACTIVATED SLUDGE SYSTEM	3,004		SW Sludge Digestion Facilities
1982	6	55	SD-451-SW	1	112	OXYGEN SUPPLY&OXYGENATION SYST	3,011		SW Oxygen Supply
1977	1	55	SD-452-SW	1	107	TIMBR PILES&FILL MAT	368,206		SW Site
1977	1	55	SD-452-SW	1	107	RC SNG BBL OTFL CND	1,254,174		SW Site
1978	7	55	SD-453-SW	1	107	STEEL SHEATHING	8,645		SW Site
1978	7	55	SD-453-SW	1	105	RELOC DEWTR LEADER	0	This item does not appear in the 2002 FAL.	SW Dewatering Facilities
1978	7	55	SD-453-SW	1	107	BROKEN STONE	10,780		SW Site
1978	7	55	SD-453-SW	1	107	ELEC WRK&STW PUMP	13,450		SW Site
1978	7	55	SD-453-SW	1	107	ELEC & TEL DUCTS	22,915		SW Site
1978	7	55	SD-453-SW	1	102	13.2KV PRIM SERV	37,351		SW Electrical Substation
1978	7	55	SD-453-SW	1	107	EXC-LOW IVERT EGLE C	44,730		SW Site
1978	7	55	SD-453-SW	1	109	AERATION TANKS	269,200		SW Aeration Tanks
1978	7	55	SD-453-SW	1	107	REPL SPILLWAY EMBNK	311,917		SW Site
1978	7	55	SD-453-SW	1	107	RIP-RAP	332,579		SW Site
1978	7	55	SD-453-SW	1	110	FINAL TANKS	673,200		SW Sedimentation Tanks
1978	7	55	SD-453-SW	1	107	EMBNK ON&OFF SITE	1,354,136		SW Site
1978	7	55	SD-453-SW	1	107	SITE PREP FOR SWWPCP	3,451,797		SW Site
1978	7	55	SD-453-SW	1	107	EXC & BACKFILL	3,469,083		SW Site
1982	7	55	SD-454-SW	1	108	CONSTR OF COMPRESSOR BLDG	15,868		SW Compressor Bldg.
1980	6	55	SD-454-SW	1	108	CONSTR OF COMPRESSOR BLDG	1,954,899		SW Compressor Bldg.
1980	1	55	SD-455-SW	1	107	HEATING & VENTILATIO	2,649		SW Site
1978	4	55	SD-455-SW	1	107	HEATING & VENTILATIO	273,831		SW Site
1980	6	55	SD-457-SW	1	108	PLMB SYS FOR COMPRESSOR BLDG	63,563		SW Compressor Bldg.
1977	12	55	SD-457-SW	1	108	PLMB SYS FOR COMPRESSOR BLDG	7,315		SW Compressor Bldg.
1981	6	55	SD-458-SW	1	108	COMPRESSOR BLDG ELEC SYSTEM	3,232		SW Compressor Bldg.
1980	6	55	SD-458-SW	1	108	ELEC WORK FOR COMPRESSOR BLDG	818,499		SW Compressor Bldg.
1985	1	55	SD-459-SW	1	109	STRUCT & EQUIP AERATION TANKS	137,758		SW Aeration Tanks
1980	6	55	SD-459-SW	1	109	CONSTR OF AERATION TANKS	11,127,534		SW Aeration Tanks
1980	6	55	SD-460-SW	1	109	HEAT & VENT FOR AERATION TANKS	110,929		SW Aeration Tanks
1980	6	55	SD-461-SW	1	109	PLUMBING FOR AERATION TANKS	85,303		SW Aeration Tanks
1981	6	55	SD-462-SW	1	109	AERATION TANKS ELEC SYSTEM	5,500		SW Aeration Tanks
1980	6	55	SD-462-SW	1	109	ELEC SYST FOR AERATION TANKS	961,595		SW Aeration Tanks
1984	10	55	SD-463-SW	1	110	GEN CONST FINAL SEDIMENTATION	130,520		SW Sedimentation Tanks
1980	6	55	SD-463-SW	1	110	CONST OF SEDIMINTATION TANKS	21,833,411	Value changed from 1999 FAL	SW Sedimentation Tanks
1980	6	55	SD-464-SW	1	110	HEAT & VENT SYS FOR SED TANKS	163,987		SW Sedimentation Tanks
1979	6	55	SD-465-SW	1	107	ADDITIONAL ENGINEER	1,684		SW Site
1979	6	55	SD-465-SW	1	110	PLUMB SYS-SED TANKS	115,630		SW Sedimentation Tanks
1980	6	55	SD-465-SW	1	110	PLMB SYST FOR FINAL SED TANKS	20,636		SW Sedimentation Tanks
1980	6	55	SD-466-SW	1	117	ELEC SYS FOR SEDIMINTATION TAN	1,799,644		SW Primary Sedimentation Tanks
1981	6	55	SD-467-SW	1	113	GEN CONSTR OF EFFLUENT PMP STA	57,193		SW Effluent PS
1980	6	55	SD-467-SW	1	113	CONST EFFLUENT PUMPING STAT	3,529,235	Value changed from 1999 FAL	SW Effluent PS
1985	4	55	SD-467-SW	1	113	STRUCT&EQUIP-EFFLUENT PUMP STA	37,058		SW Effluent PS
1980	6	55	SD-468-SW	1	113	HEAT/VENT FOR EFFLUENT PP ST	176,714		SW Effluent PS
1980	6	55	SD-469-SW	1	113	PLUMB FOR EFFLUENT PUMP ST	33,077		SW Effluent PS
1985	1	55	SD-470-SW	1	113	ELEC SYSTEM EFFLUENT PUMP STAT	35,550		SW Effluent PS
1980	6	55	SD-470-SW	1	113	ELEC SYS EFFLUENT PUMP ST	734,277		SW Effluent PS
1982	6	55	SD-471-SW	1	114	GEN CONSTR ADMIN BLDG SWWPCP	14,551		SW Admin. Bldg.
1980	6	55	SD-471-SW	1	114	CONST OF ADMIN BLDG	1,786,399		SW Admin. Bldg.
1983	3	55	SD-472-SW	1	114	HEAT & VENT ADMIN BLDG & PLAZA	7,206		SW Admin. Bldg.
1980	6	55	SD-472-SW	1	107	ADMIN. BLDG. SWWPCP HVAC	214,254		SW Site
1980	6	55	SD-473-SW	1	114	PLMB SYS FOR ADMIN BLDG	190,002		SW Admin. Bldg.
1981	6	55	SD-474-SW	1	114	ADMIN BLDG&PLAZA AREA ELEC SYS	2,014		SW Admin. Bldg.
1980	6	55	SD-474-SW	1	114	ADMIN BLDG&PLAZA ELEC SYS	249,208		SW Admin. Bldg.
1983	4	55	SD-474-SW	1	114	ADMIN BLDG&PLAZA AREA ELEC SYS	8,669		SW Admin. Bldg.
1983	10	55	SD-475-SW	1	115	GEN CONST - SHOP & MAINT BLDG	162,291		SW Shop & Maintenance Bldg.
1980	6	55	SD-475-SW	1	115	CONST OF SHOP & MNTENANCE BLDS	1,540,602		SW Shop & Maintenance Bldg.
1984	6	55	SD-476-SW	1	115	HEAT/VENT - SHOP & MAINT BLDGS	1,019		SW Shop & Maintenance Bldg.
1980	6	55	SD-476-SW	1	115	HEAT/VENT SHOP & MAINT BLDS	431,533		SW Shop & Maintenance Bldg.
1980	6	55	SD-476-SW	1	115	HEAT/VENT SHOP & MAINT BLDS	156,304		SW Shop & Maintenance Bldg.
1980	6	55	SD-477-SW	1	115	PLMB SYS FOR SHOP & MAINT BLDG	136,019		SW Shop & Maintenance Bldg.
1981	6	55	SD-478-SW	1	115	SHOP&MAINT BLDG ELEC SYSTEM	12,855		SW Shop & Maintenance Bldg.
1980	6	55	SD-478-SW	1	115	ELEC SYS FOR SHOP & MAINT BLDG	200,315		SW Shop & Maintenance Bldg.
1982	6	55	SD-479-SW	1	116	STRUCT&MECHAN-WAREHSE&OTHR FAC	5,888		SW Warehouse
1980	6	55	SD-479-SW	1	116	MECH WORK FOR WAREHOUSE	1,261,584		SW Warehouse
1980	6	55	SD-480-SW	1	116	HEAT & VENT WORK AT WAREHOUSE	121,239		SW Warehouse
1982	12	55	SD-481-SW	1	115	PLUMB WORK AT SW WAREHOUSE	2,076		SW Shop & Maintenance Bldg.
1980	6	55	SD-481-SW	1	116	PLUMB WORK AT SW WAREHOUSE	45,161		SW Warehouse

1985	4	55	SD-482-SW	1	111	ELEC SYS WAREHOUSE,OTHER FACIL	11,271		SW Electrical Bldg.
1980	6	55	SD-482-SW	1	116	ELEC WORK AT SW WAREHOUSE	120,992		SW Warehouse
1978	6	55	SD-484-SW	1	111	CONSTR OF ELEC BLDG	486,415		SW Electrical Bldg.
1983	5	55	SD-485-SW	1	111	HEAT & VENT ELECTRICAL BLDG	16,368		SW Electrical Bldg.
1979	6	55	SD-485-SW	1	111	HEAT & VENT FOR SW ELEC BLDG	99,119		SW Electrical Bldg.
1979	6	55	SD-486-SW	1	111	PLMB SYS FOR NEW ELEC BLDG	27,276		SW Electrical Bldg.
1981	5	55	SD-486-SW	1	111	PLMB SYS FOR ELEC BLDG	1,700		SW Electrical Bldg.
1982	1	55	SD-487-SW	1	111	ELECTRICAL SYS NEW ELEC BLDG	24,840		SW Electrical Bldg.
1979	6	55	SD-487-SW	1	111	ELEC WORK FOR NEW ELEC BLDG	851,022		SW Electrical Bldg.
1985	3	55	SD-488-SW	1	117	STRUCT & EQUIP PRIM SED TANKS	5,984,416	Value changed from 1999 FAL	SW Primary Sedimentation Tanks
1980	6	55	SD-492-SW	1	104	ELEVATED STORAGE TANK	200,306		SW Elevated Water Tank
1980	6	55	SD-492-SW	1	104	ELEVATED STORAGE TANK FOUNDATI	66,768		SW Elevated Water Tank
1984	10	55	SD-496-SW	1	118	PLUMBING - PRELIM TREAT BLDG	399,136		SW Preliminary Treatment Building
1985	6	55	SD-498-SW	1	119	STRUCT & EQUIP INFLU PUMP STAT	4,029,646		SW Influent PS
1980	6	55	SD-502-SW	1	120	CONST SCUM CONCENTRATION BLDG	701,564	Value changed from 1999 FAL	SW Scum Concentration Bldg.
1982	12	55	SD-503-SW	1	120	HEAT/VENT SCUM CONCENT BLDG	104,649		SW Scum Concentration Bldg.
1985	3	55	SD-504-SW	1	120	PLUMBING-SCUM CONCENTRATION BL	1,300		SW Scum Concentration Bldg.
1980	6	55	SD-504-SW	1	120	PLUMB SCUM CONCENTRATION BLDG	49,003		SW Scum Concentration Bldg.
1980	6	55	SD-506-SW	1	121	CONST SLUDGE THICKNER BLDG	9,906,146	Value changed from 1999 FAL	SW Sludge Thickener Bldg.
1982	11	55	SD-507-SW	1	121	HEATING VENT SLUDGE THICK BLDG	65,239		SW Sludge Thickener Bldg.
1980	6	55	SD-507-SW	1	121	HEATING VENT SLUDGE THICK BLDG	1,848,517		SW Sludge Thickener Bldg.
1980	6	55	SD-508-SW	1	121	PLUMB SLUDGE THICKNER BLDG	295,057		SW Sludge Thickener Bldg.
1984	2	55	SD-511-SW	1	122	HEAT/VENT - SLUDGE DIGEST FACI	1,078,961		SW Sludge Digestion Facilities
1983	4	55	SD-523-SW	1	106	LANDSCAPE & MISCELLANEOUS WORK	85,803		SW General Improvements
1980	6	55	SD-523-SW	1	107	LANDSCAPE & MISCELLANEOUS WORK	2,371,971		SW Site
1983	8	55	SD-524-SW	1	107	ELEC WRK FOR ROADS,SEWERS,ETC	210,285		SW Site
1984	11	55	SD-525-SW	1	107	GEN CONST-ROAD,STRM SWR,LND SC	1,510,776		SW Site
1985	6	55	SD-526-SW	1	107	ELECTRICAL 4 ROADS,STORM SEWR	343,905		SW Site
1984	11	55	SD-531-SW	1	124	STRUCT & EQUIP SLUDGE GAS FACI	6,245,739	Value changed from 1999 FAL	SW Sludge Gas Facilities
1985	4	55	SD-532-SW	1	124	HEAT, VENT-SLUDGE GAS FACILITY	1,332,722		SW Sludge Gas Facilities
1984	3	55	SD-533-SW	1	124	PLUMBING 4 SLUDGE GAS FACILITY	144,405		SW Sludge Gas Facilities
1985	4	55	SD-534-SW	1	124	ELECTRICAL-SLUDGE GAS FACILITY	689,576		SW Sludge Gas Facilities
1980	6	55	SD-535-SW	1	109	PHASE 5 AER TNK PLUMBING	73,072		SW Aeration Tanks
1987	6	55	W458	1	108	ELEC SYSTEM-COMPRESSOR BLDG	57,426		SW Compressor Bldg.
1997	6	55	W458	1	108	ELECT- COMPRESSOR BLDG	0	This item does not appear in the 2002 FAL.	SW Compressor Bldg.
1987	6	55	W460	1	109	HEAT,VENT- AERATION TANKS	13,083		SW Aeration Tanks
1987	6	55	W461	1	109	PLUMBING - AERATION TANKS	1,705		SW Aeration Tanks
1989	6	55	W461	1	109	PLUMBING - AERATION TANKS	28,559		SW Aeration Tanks
1986	9	55	W462	1	109	ELECTRIC-AERATION TANKS	17,590		SW Aeration Tanks
1987	6	55	W466	1	117	ELECTRIC-SEDIMENTATION TNKS	62,817		SW Primary Sedimentation Tanks
1987	6	55	W468	1	113	HEAT,VENT - EFFLUENT PUMP STAT	2,697		SW Effluent PS
1989	11	55	W468	1	113	HEAT,VENT - EFFLUENT PUMP STAT	32,589		SW Effluent PS
1987	6	55	W469	1	113	PLUMBING - EFFLUENT PUMP STATI	0	Retired 2019	SW Effluent PS
1987	6	55	W471	1	114	GEN CONSTR ADMIN BLDG & PLAZA	0	Retired 2019	SW Admin. Bldg.
1997	6	55	W473	1	114	PLUMB SYS FOR ADMIN BLDG	0	This item does not appear in the 2002 FAL.	SW Admin. Bldg.
1986	9	55	W478	1	115	ELECTRIC-SHOP & MAINT BLDG	7,042		SW Shop & Maintenance Bldg.
1986	4	55	W489	1	117	HEAT & VENT - PRIM SEDIMEN TKS	29,462		SW Primary Sedimentation Tanks
1986	4	55	W490	1	117	PLUMBING-PRIMARY SEDIMENTATION	51,508		SW Primary Sedimentation Tanks
1987	6	55	W491	1	117	ELEC SYS-PRIMARY SEDIMENT TANK	762,088		SW Primary Sedimentation Tanks
1989	6	55	W491	1	117	ELEC SYS-PRIMARY SEDIMENT TANK	22,559		SW Primary Sedimentation Tanks
1987	6	55	W493	1	104	ELECTRIC FOR ELEVATED TANKS	34,365		SW Elevated Water Tank
1986	5	55	W494	1	118	STRUCT & EQUIP PRELIM TREAT BL	13,758,383		SW Preliminary Treatment Building
1987	6	55	W495	1	118	HEAT,VENT-PRELIM TREAT BLDG	2,051,426		SW Preliminary Treatment Building
1988	3	55	W495	1	118	HEAT/VENT PRELIMINARY TREAT BL	48,058		SW Preliminary Treatment Building
1987	3	55	W497	1	118	ELECT-PRELIMIN TREATMENT BLDG	2,337,574		SW Preliminary Treatment Building
1987	1	55	W499	1	119	HEAT/VENT-INFLUENT PUMPING STA	257,570		SW Influent PS
1987	1	55	W500	1	119	PLUMBING-INFLUENT PUMP STATION	16,657		SW Influent PS
1987	1	55	W500	1	119	PLUMBING-INFLUENT PUMP STATION	55,771		SW Influent PS
1986	5	55	W501	1	119	ELEC - INFLUENT PUMPING STAT	586,635		SW Influent PS
1985	8	55	W502	1	120	STRUCT&EQUIP-SCUM CONCENT BLDG	39,690		SW Scum Concentration Bldg.
1986	2	55	W505	1	120	ELEC WORK - SCUM CONCENT BLDG	177,963		SW Scum Concentration Bldg.
1985	8	55	W506	1	121	STRUCT&EQUIP SLDG THICKENING B	295,612		SW Sludge Thickener Bldg.
1985	8	55	W506	1	121	STRUCT&EQUIP SLDG THICKENING B	525,535		SW Sludge Thickener Bldg.
1987	1	55	W508	1	121	PLUMBING-SLUDGE THICKENER BLDG	68,147		SW Sludge Thickener Bldg.
1987	6	55	W509	1	121	ELECTRICAL-SLUDGE THICKENER BL	466,954	Value changed from 1999 FAL	SW Sludge Thickener Bldg.
1991	6	55	W510	1	122	STRUCT&MECH-SLUDGE DIGESTION F	1,925		SW Sludge Digestion Facilities
1993	4	55	W510	1	122	STRUCT&MECH-SLUDGE DIGESTION F	113,127		SW Sludge Digestion Facilities
1987	6	55	W510	1	122	STRUCT&MECH -SLUDGE DIGESTION	13,255,875	Value changed from 1999 FAL	SW Sludge Digestion Facilities
1987	6	55	W512	1	122	PLUMBING-SLUDGE DIGESTION FACI	394,748		SW Sludge Digestion Facilities
1989	6	55	W512	1	122	PLUMBING-SLUDGE DIGESTION FACI	6,951		SW Sludge Digestion Facilities
1986	9	55	W513	1	122	ELECTRIC-SLUDGE DIGESTION FACI	1,210,139		SW Sludge Digestion Facilities
1987	6	55	W518	1	93	STRUCT&MECH-GRIT&ASH TRNS STAT	0	Retired as of 2022	SW Screen, Blower, Prim. Sludge PS, Grit
1988	6	55	W518	1	93	STRUCT&MECH-GRIT&ASH TRNS STAT	0	Retired as of 2022	SW Screen, Blower, Prim. Sludge PS, Grit
1989	6	55	W518	1	93	STRUCT&MECH-GRIT&ASH TRNS STAT	0	Retired as of 2022	SW Screen, Blower, Prim. Sludge PS, Grit
1989	10	55	W518	1	93	STRUCT&MECH-GRIT&ASH TRNS STAT	0	Retired as of 2022	SW Screen, Blower, Prim. Sludge PS, Grit
1987	6	55	W519	1	93	HEAT,VENT-GRIT&ASH TRANS STATI	0	Retired as of 2022	SW Screen, Blower, Prim. Sludge PS, Grit

1991	4	55	W519	1	93	HEAT,VENT-GRIT&ASH TRANS STATI	0	Retired as of 2022	SW Screen, Blower, Prim. Sludge PS, Grit
1987	6	55	W520	1	93	PLUMBING-GRIT&ASH TRANS STATIO	0	Retired as of 2022	SW Screen, Blower, Prim. Sludge PS, Grit
1988	6	55	W520	1	93	PLUMBING-GRIT&ASH TRANS STATIO	0	Retired as of 2022	SW Screen, Blower, Prim. Sludge PS, Grit
1989	6	55	W520	1	93	PLUMBING-GRIT&ASH TRANS STATIO	0	Retired as of 2022	SW Screen, Blower, Prim. Sludge PS, Grit
1987	6	55	W521	1	93	ELECTRICAL-GRIT&ASH TRANS STAT	0	Retired as of 2022	SW Screen, Blower, Prim. Sludge PS, Grit
1988	3	55	W521	1	93	ELECTRIC-GRIT&ASH TRANS STATIO	0	Retired as of 2022	SW Screen, Blower, Prim. Sludge PS, Grit
1987	6	55	W522	1	114	COMPUT MONITOR&CONTROL SYSTEM	0	Value changed from 1999 FAL	SW Admin. Bldg.
1988	6	55	W522	1	114	COMPUT MONITOR&CONTROL SYSTEM	0	This item does not appear in the 2007 FAL.	SW Admin. Bldg.
1989	6	55	W522	1	114	COMPUT MONITOR&CONTROL SYSTEM	0	This item does not appear in the 2007 FAL.	SW Admin. Bldg.
1988	6	55	W527	1	122	STRUCT&MECH-MOD SLUDGE FACILIT	866,250		SW Sludge Digestion Facilities
1989	6	55	W527	1	122	STRUCT&MECH-MOD SLUDGE FACILIT	31,299		SW Sludge Digestion Facilities
1987	6	55	W527	1	122	STRUCT & MECH-MOD SLUDGE FACIL	14,487,839		SW Sludge Digestion Facilities
1987	6	55	W528	1	122	HEAT,VENT-MOD SLUDGE FACILITIE	1,288,838		SW Sludge Digestion Facilities
1988	2	55	W528	1	96	HEAT & VENT MODIFY SLUDGE FACI	8,863		SW Sludge Handling & Machine Shop
1987	6	55	W529	1	122	PLUMBING-MOD SLUDGE FACILITIES	451,693		SW Sludge Digestion Facilities
1987	8	55	W529	1	122	PLUMBING-MOD SLUDGE FACILITIES	3,371		SW Sludge Digestion Facilities
1987	6	55	W530	1	122	ELECTRICAL-MOD SLUDGE FACILITI	2,767,705		SW Sludge Digestion Facilities
1987	10	55	W530	1	122	ELECTRICAL-MOD SLUDGE FACILITI	140,639		SW Sludge Digestion Facilities
1997	6	55	W530	1	122	ELECTRICAL-MOD SLUDGE FACILITY	0	This item does not appear in the 2002 FAL.	SW Sludge Digestion Facilities
1993	6	55	W556	1	107	STORM SEWERS, LANDSCAPING, ETC	2,416,153		SW Site
1993	9	55	W556	1	107	STORM SEWERS, LANDSCAPING, ETC	6,953		SW Site
1991	6	55	W557	1	107	STORM SEWERS, LANDSCAPING, ETC	204,749		SW Site
TOTAL SW PLANT ASSETS (WPAP)							172,291,422	x	
TOTAL SW PLANT ASSETS							344,334,440		
							344,334,440	(0)	

File: SCOS23_24_ver1.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2024 | Budget Yr 2023 | Ver. 1a
SEPA1 - SE Plant Assets (Non-WPAP) as of 6/30/2022 | P.N. 135647.0100 | January 27, 2023 1:55 p.m. | Plant-7
Reference: FY22 F-6 Fixed Assets 10.25.22.xlsx

Year	Month	Depot	Work Order	Non-WPAP	Plant Function ID	Description	Cost $		Plant Function
1996	6	56	1698	0	138	GALLERY LIGHTING IMP	4,607		SE Site
1996	6	56	2897	0	138	INST TANK MONITORING/LEAK DETE	54,737		SE Site
1996	6	56	E235	0	138	LEAKAGE MOINTORING/TELEMETRY-1	27,995		SE Site
1996	6	56	E237	0	138	SEPTAGE TFR STATION	45,062		SE Site
1996	6	56	E257	0	138	YARD PIPING	46,944		SE Site
1996	6	56	E264	0	126	GEN-SCREENING GRIT FAC & TFR S	56,444		SE Main PS
1996	6	56	E286	0	138	GEN-SLUDGE HANDLING FAC	9,311		SE Site
1996	6	56	E291	0	131	HVAC- WAREHOUSE & STORAGE FAC	5,741		SE Storage Bldg.
0	0	56	E306	0	138	AIR COND OF ELEC SUBSTATIONS	0	This item does not appear in the 2003 FAL.	SE Site
1996	6	56	E309	0	138	COMBINED SEWER OVERFLOW PROJEC	43,134		SE Site
1995	8	56	E314	0	138	SWITCHGEAR TEST & REHAB	40,249		SE Site
1997	6	56	E316	0	139	SLUD COLL EQUIP-PRIM SED TANKS	1,217,759		SE Primary Sedimentation Tanks
1997	6	56	E319	0	138	REPL LV SWITCHGEAR CIRCUIT BKR	206,658		SE Site
1996	6	56	G238	0	127	GRIT STORAGE AREA	21,217		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
1996	6	56	G239	0	131	GEN -EQUIP STORAGE BLDG	10,241		SE Storage Bldg.
1991	5	56	G303	0	131	GEN CONST-EQUIP STORAGE BLDG	584,110		SE Storage Bldg.
1990	10	56	G304	0	131	MECHANICAL-EQUIP STORAGE BLDG	110,918		SE Storage Bldg.
1991	5	56	G305	0	131	ELECTRICAL-EQUIP STORAGE BLDG	111,737		SE Storage Bldg.
1996	4	56	G307	0	132	SLUD TRSF PUMP SEAL WTR SYS	528,525		SE Sludge Force Main to SW Plant
1991	3	56	G308	0	127	NEW GRIT STORAGE	137,388		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
1976	1	56	M98	0	138	TEST BORING-VAR LOC	0	This item does not appear in the 2011 FAL.	SE Site
1995	5	56	N729	0	138	RELOC OF RPZ BACKFLOW PRE	95,046		SE Site
1972	5	56	P-295	0	138	ENGR SERVICES	0	Retired 2017	SE Site
1975	2	56	P-323	0	138	DESIGN FOR SE WPCP	0	Retired 2019	SE Site
1976	1	56	P-332	0	138	SOIL INVESTIGATION	0	Retired 2017	SE Site
1978	9	56	P-357	0	138	ENGR SERV-ADVICE,CONSULT,OPER	0	Retired 2011	SE Site
1990	6	56	P-357	0	138	ADVICE,CONSULT&STUDI	0	Retired 2017	SE Site
0	0	56	P-455	0	127	DESIGN ADMINISTRATIVE COMPLEX	0	This item does not appear in the 2002 FAL.	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
1989	6	56	P-484	0	127	CPM SCHEDULING SERVICE	2,930,341		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
1988	8	56	PV07930	0	138	ELECTRIC SERVICE LINE	5,032		SE Site
1986	12	56	PV09054	0	138	GEN CONST & MECH WORK	13,230		SE Site
1987	6	56	PV39897	0	131	NEW ROOFING - WAREHOUSE BLDG	10,140		SE Storage Bldg.
1986	6	56	PV41701	0	138	GEN CONST & MECH WORK	87,562		SE Site
1951	6	56	SD-101-SE	0	132	INTERCEPTING SEWER	2,476,035		SE Sludge Force Main to SW Plant
1951	3	56	SD-105-SE	0	132	INTERCEPTING SEWER	1,847,598		SE Sludge Force Main to SW Plant
1952	4	56	SD-106-SE	0	138	48IN RC PIPE	117,581		SE Site
1952	4	56	SD-106-SE	0	138	EXCAVATION&PILES	274,702		SE Site
1953	9	56	SD-112-SE	0	138	COLL SYS INTERCEPT C	74,173		SE Site
1956	10	56	SD-114-G	0	138	ELEC INSTL	29,103		SE Site
1955	6	56	SD-114-SE	0	138	COLL SYS INTERCEP SE	3,417,035		SE Site
0	0	56	SD-140-SE	0	138	EFFL&STORMWTR COND-EXCAV DREDG	0	This item does not appear in the 2002 FAL.	SE Site
1955	11	56	SD-141-SE	0	138	50000 GAL WTR TANK	40,850		SE Site
0	0	56	SD-145-GO	0	138	LADDER SAFETY DEVICE-WATR STOR	0	This item does not appear in the 2002 FAL.	SE Site
0	0	56	SD-156-GO	0	138	CNTRL CONDUC-SEWPCP	0	This item does not appear in the 2002 FAL.	SE Site
0	0	56	SD-165-GO	0	138	F&I ELEC CONT-CRANE	0	This item does not appear in the 2002 FAL.	SE Site
0	0	56	SD-165-GO	0	138	F&I ELEC CONTR-CRANE	0	This item does not appear in the 2002 FAL.	SE Site
0	0	56	SD-198-SE	0	138	2 TON CRANE	0	This item does not appear in the 2002 FAL.	SE Site
1969	7	56	SD-198-SE	0	138	CONCRETE PILES	7,964		SE Site
1969	7	56	SD-198-SE	0	131	CONSTR OF EQUIP BLDG	100,703		SE Storage Bldg.
0	0	56	SD-207-SEO	0	127	HOTWTR HEAT-NEW OFF-TOILET-LOC	0	This item does not appear in the 2003 FAL.	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
1970	6	56	SD-208-SEO	0	131	PLUMBING FOR EQUIP BLDG	11,774		SE Storage Bldg.
0	0	56	SD-209-SEO	0	127	GEN CONSTR-NEW OFFIC	0	This item does not appear in the 2002 FAL.	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
0	0	56	SD-211-SEO	0	138	ARC ELECT LIGHT-EQUIPMENT BLDG	0	This item does not appear in the 2002 FAL.	SE Site
0	0	56	SD-214-SE	0	129	PLUMBING-GREASE BURNER BLDG	0	This item does not appear in the 2002 FAL.	SE Grease Bldg.
0	0	56	SD-224-SEO	0	128	INST-BTRFLY VALV-FLOC TANKS	0	This item does not appear in the 2002 FAL.	SE Settling Tanks & Flocculation Channel
1983	4	56	SD-230-SE	0	138	HIGH MST,LOW LEV STREET LIGHTI	4,300		SE Site
1980	6	56	SD-230-SE	0	138	HIGHMAST&STREET LEVEL LIGHT-SE	128,084		SE Site
1997	6	56	72009	0	127	REPL GRIT CHANNEL SLUICE GATE	79,927		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
1997	7	56	E310	0	127	REHAB GRIT TRANSPORT SY	0	Retired 2011	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
0	0	56	E311	0	133	REPL LIQUID CHLORINE LINES	0	Value changed from 1999 FAL	SE Main Effluent Conduit
1997	8	56	E318	0	140	INSTL SLUDGE COLL EQUIP-FINAL	0	This item does not appear in the 2022 FAL. Retired in 2021	SE Final Sedimentation Tanks
1998	6	56	P1148	0	127	MOD GRIT, SCREENINGS, SCUM DIS	0	Retired 2017	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
1999	6	56	70003	0	138	HIGH MAST LIGHTING SYS OVERHAU	0	This item does not appear in the 2022 FAL. Retired in 2021	SE Site
1998	8	56	72000	0	127	REPL SLUICE GATES	182,364		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
1999	2	56	72002	0	126	REPL LOW/VOLT SWITCHGEAR-IPS-S	182,715		SE Main PS
0	0	56	72010	0	127	EMERG REPR-INFLUENT BAR RACK	0	This item does not appear in the 2002 FAL.	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2000	3	56	70003	0	138	HIGH MAST LIGHTING SYS OVERHAU	0	This item does not appear in the 2022 FAL. Retired in 2021	SE Site
1998	8	56	72000	0	127	REPL SLUICE GATES	1,392	Projects added since the 1999 FAL.	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2001	2	56	72001	0	138	REFURBISING ELEVATED STEEL WTR	367,143	Projects added since the 1999 FAL.	SE Site

2000	12	56	72004	0	138	GEN CONST-ADMIN/MAINT BLDG	874,832	Projects added since the 1999 FAL.	SE Site
2000	9	56	72005	0	138	HVAC WORK-ADMIN/MAINT BLDG	182,943	Projects added since the 1999 FAL.	SE Site
2000	9	56	72006	0	138	PLUMB-ALTERATIONS ADMIN/MAINT	105,580	Projects added since the 1999 FAL.	SE Site
2000	8	56	72007	0	138	ELECT-ALTER ADMIN/MAINT BLDG	194,554	Projects added since the 1999 FAL.	SE Site
1998	9	56	E315	0	134	REHAB INFLUENT PUMPS	0	This item does not appear in the 2022 FAL. Retired in 2021	SE Influent PS
1998	7	56	E317	0	136	EXT PAINTING-CRYOGENIC OXYGEN	0	Retired 2011	SE Aeration Tanks
1999	7	56	P-967	0	138	ENG SERV-VARIOUS PROJECTS	0	Retired 2019	SE Site
2001	6	56	P1198	0	133	ENG DESIGN SERV SOD HYPOCHLORI	0	Retired 2011	SE Main Effluent Conduit
2001	6	56	P1201	0	138	CONVER HALON SUPPRESSION SYS	0	Retired 2011	SE Site
2002	6	56	P1225	0	138	ENG SERV-METCALF & EDDY	0	Retired 2019	SE Site
2002	6	56	P1226	0	138	ENG SERV-HAZEN & SAWYER	0	Retired 2019	SE Site
2002	3	56	72003	0	138	ACCESS CONT & ALARM SYS	714,370	Projects added since the 2002 FAL.	SE Site
2001	12	56	72008	0	136	REPL CHANNEL/AERATION AIR BLOW	1,279,953	Projects added since the 2002 FAL.	SE Aeration Tanks
2002	5	56	72017	0	136	ELECT-CHANNEL/AERATION AIR BLO	352,275	Projects added since the 2002 FAL.	SE Aeration Tanks
2001	12	56	72025	0	127	MECH REHAB GRIT COLL SCREW CON	0	This item does not appear in the 2022 FAL. Retired in 2021	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2002	8	56	72027	0	138	CONST/APPURT-PREFAB BLDG-SWITC	320,128	Projects added since the 2002 FAL.	SE Site
2002	7	56	72028	0	138	MECH/APPURT-PREFAB BLDG-SWITCH	73,267	Projects added since the 2002 FAL.	SE Site
2002	8	56	80003	0	138	LIGHTING EFFICIENCY IMP	0	This item does not appear in the 2022 FAL. Retired in 2021	SE Site
2003	6	56	P1201	0	138	CONVER HALON SUPPRESSION SYS	0	Retired 2011	SE Site
2003	12	56	72011	0	138	INSTLNEWDIST CONTSYS	2,998,664		SE Site
2003	11	56	72018	0	140	REPL PRIMSLUD TRF PUMPS	0	Retired 2016	SE Final Sedimentation Tanks
2003	1	56	72019	0	126	ELECT-REPL EXIST PRIMPUMPS	0	Retired 2016	SE Main PS
2003	2	56	72020	0	127	HVAC RENOV-IPS,SCREEN,GRIT FAC	573,129	Additions in 2019	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2007	0	56	72021	0	128	GEN CON- SODHYDRO FACILITIES WTR DE	2,226,039		SE Settling Tanks & Flocculation Channel
2005	11	56	72022	0	128	ELECT SOD HYPOCHLORITE FAC	161,493		SE Settling Tanks & Flocculation Channel
2006	2	56	72023	0	128	HVAC SOD HYPOCHLORITE FAC	198,415		SE Settling Tanks & Flocculation Channel
2005	6	56	72024	0	128	PLUMB SOD HYPOCHLORITE FAC	138,953		SE Settling Tanks & Flocculation Channel
2003	6	56	72026	0	135	REPL LVSWITCHGEAR EFFLUENTPS	550,890		SE Effluent PS
2002	11	56	72029	0	138	ELECT-PREFAB BLDG-SWITCHGEAR	300,319		SE Site
2004	12	56	72030	0	136	REHAB COMP/MONITOR CONT AERATI	1,563,504		SE Aeration Tanks
2003	12	56	72031	0	127	GRIT PAD IMPROVEMENTS	321,761		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2003	10	56	72034	0	134	NEWPRECASTCONCRETE-SAMPLING	65,981		SE Influent PS
2004	4	56	72036	0	138	INSPEC/CALIBRAT-ELECTPW SYS	281,446		SE Site
2005	5	56	72037	0	134	REPL INFLUENT PUMP CONTROLS	507,946	Additions in 2019	SE Influent PS
2005	2	56	72041	0	138	REPL WINDOWS VAR BLDGS	743,305		SE Site
2005	4	56	72042	0	138	HVAC WK COMPRESSOR	552,453	Additions in 2019	SE Site
2007	0	56	72046	0	127	TELEPHONE LINES - SEWPCP	0	Retired 2011	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2005	5	56	72047	0	138	MOD PLANT RDS TRUCK ACCESS	288,512		SE Site
1998	1	56	E313	0	139	PRIM SED-SLIDE GATES,REHAB FLO	450,981		SE Primary Sedimentation Tanks
2004	6	56	P1198	0	128	ENGDESIGN SER HYPOCHLORITE	0	Retired 2019	SE Settling Tanks & Flocculation Channel
2005	6	56	P1326	0	138	BURNSENG-PRE-CONSTSERVICES	0	Retired 2011	SE Site
2005	6	56	P1225	0	141	ENGSERV-SCUMREMOVAL	0	Retired 2011	SE Scum Concentration Facility
2005	6	56	P1226	0	127	HAZEN-REPAIR GRITEJECTORS	0	Retired 2011	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2005	1	56	P1229	0	141	RENEWSCUM TROUGHS FINAL TKS	0	Retired 2011	SE Scum Concentration Facility
2004	12	56	P4115136	0	138	Commun and Control Telecom	0	Retired 2011	SE Site
2004	11	56	P5108029	0	138	Telecom Commun Control	0	Retired 2011	SE Site
2004	12	56	P5103093	0	138	Telecom Commun Control	0	Retired 2011	SE Site
2004	9	56	V16321618	0	138	Inst Telecom Equip	11,701		SE Site
2004	9	56	V16657618	0	138	Inst Telecom Equip	36,125		SE Site
2004	10	56	V25354618	0	138	Inst Telecom Equip	41,063		SE Site
2007	2	56	71074	0	128	GEN CON- SODHYDRO FACILITIES WTR DE	0	Retired 2016	SE Settling Tanks & Flocculation Channel
2008	7	56	72038	0	140	Renew Scum Pipes in Final Tanks - SE	1,879,207	Additions in 2019	SE Final Sedimentation Tanks
2009	12	56	72044	0	127	GEN. AND MECH WORK FOR REHAB OF GR	2,457,213	Additions in 2019	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2008	3	56	72045	0	138	Electric & Instrumentation Work	1,045,687		SE Site
2007	8	56	72048	0	134	MODIFICATIONS TO THE ROTARY BRIDGE	257,520		SE Influent PS
2008	3	56	72050	0	138	EXPANSION JOINT REPAIRS AND GALLERY	1,001,897		SE Site
2009	11	56	72053	0	138	GENERAL CONSTRUCTION AND MECHANIC	3,073,634	Additions in 2019	SE Site
2008	5	56	72054	0	139	REHAB. OF PRIMARY SEDIMENTATION TAN	0	This item does not appear in the 2022 FAL. Retired in 2021	SE Primary Sedimentation Tanks
2009	10	56	72055	0	138	Electric for Haul Improvements	339,598	Additions in 2019	SE Site
2010	4	56	72060	0	138	REPLACEMENT OF LOW VOLTAGE SWITCH	326,473		SE Site
2010	1	56	72061	0	128	Rehab Of Sodium Hypochlorite Mixing Chamber	931,701	Additions in 2019	SE Settling Tanks & Flocculation Channel
2011	2	56	72063	0	127	Rehab of Grit Tanks	**2,116,374**	Project edited since the 2020 FAL.	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2001	6	56	P1198	0	128	**ENGDESIGN SERVSODHYPOCHLORI**	0	Retired 2019	SE Settling Tanks & Flocculation Channel
2005	6	56	P1225	0	140	**ENGSERV-SCUMREMOVAL **	0	Retired 2019	SE Final Sedimentation Tanks
2005	6	56	P1226	0	127	**HAZEN-REPAIR GRITEJECTORS **	0	Retired 2019	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2005	1	56	P1229	0	140	**RENEWSCUM TROUGHS FINAL TKS **	0	Retired 2019	SE Final Sedimentation Tanks
2005	6	56	P1326	0	138	**BURNSENG-PRE-CONSTSERVICES **	0	Retired 2017	SE Site
1978	9	56	P-357	0	138	**ADVICE,CONSULT&STUDI **	0	Retired 2017	SE Site
2004	12	56	P4115136	0	138	**Commun and Control Telecom **	0	Retired 2017	SE Site
2004	12	56	P5103093	0	138	**Telecom Commun Control **	0	Retired 2017	SE Site
2004	11	56	P5108029	0	138	**Telecom Commun Control **	0	Retired 2017	SE Site
1976	1	56	M-198	0	138	**TEST BORING-VARLOC **	16,052		SE Site
2013	4	56	72064	0	138	REPLACE SLUDGEPUMPS/SLUDGE GRINDE	0	This item does not appear in the 2022 FAL. Retired in 2021	SE Site
2013	4	56	72065	0	138	REPLACE SLUDGEPUMPS/SLUDGE GRINDE	550,956	Additions in 2019	SE Site
2014	4	56	72067	0	138	NEW POLYURETHANE/SILICONE ROOFING	586,064		SE Site
2014	3	56	72084	0	138	Install- solar photovoltaic energy generation system	2,246,362		SE Site

2015	6	56	72084	0	138	Install- solar photovoltaic energy generation system	3,551		SE Site
2016	6	56	72084	0	138	Install- solar photovoltaic energy generation system	164,023	Additions in 2019	SE Site
2007	2	56	72046	0	138	TELEPHONE LINES - SEWPCP	29,253		SE Site
2016	6	56	72044	0	127	GEN. AND MECH WORK FOR REHAB OF GR	1,330		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2016	6	56	72061	0	128	Rehab Of Sodium Hypochlorite Mixing Chamber	6,521		SE Settling Tanks & Flocculation Channel
2016	4	56	72076	0	127	REPLACEMENT OF INFLUENT BAR RACKS-	3,054,161	Updated COA %	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
2017	6	56	72076	0	127	REPLACEMENT OF INFLUENT BAR RACKS-	**147,570**	Updated COA %	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
		56		0	138	General Plant	1,911,216		SE Site
TOTAL SE PLANT ASSETS (Non-WPAP)							54,004,515	x	

File: SCOS23_24_ver1.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2024 | Budget Yr 2023 | Ver. 1a
SEPA2 - SE Plant Assets (WPAP) as of 6/30/2022 | P.N. 135647.0100 | January 27, 2023 1:55 p.m. | Plant-8
Reference: FY22 F-6 Fixed Assets 10.25.22.xlsx

Year	Month	Depot	Work Order	WPAP	Plant Function ID	Description	Cost $		Plant Function
1989	3	56	E240	1	138	SITE PREP FOR NEW PLANT	28,736		SE Site
1987	6	56	E241	1	140	GEN CONST-FINAL SEDIMENTAT TNK	18,677,434	Value changed from 1999 FAL	SE Final Sedimentation Tanks
1987	11	56	E241	1	140	GEN CONST&MECH-FINAL SED TANKS	9,251		SE Final Sedimentation Tanks
1987	6	56	E242	1	140	ELECTRIC-FINAL SEDIMENTAT TANK	1,728,720		SE Final Sedimentation Tanks
1988	6	56	E242	1	140	ELECTRIC-FINAL SEDIMENTAT TANK	69,440		SE Final Sedimentation Tanks
1988	12	56	E242	1	140	ELECTRIC-FINAL SEDIMENTAT TANK	28,315		SE Final Sedimentation Tanks
1986	1	56	E243	1	140	PLUMBING-FINAL SEDIMENTATION T	94,191		SE Final Sedimentation Tanks
1986	6	56	E244	1	140	HEAT&VENT- FINAL SEDIMEN TANKS	110,018		SE Final Sedimentation Tanks
1987	6	56	E245	1	136	GEN CONST & MECH EQ-AERATION T	13,800,230	Value changed from 1999 FAL	SE Aeration Tanks
1988	6	56	E245	1	136	GEN CONST & MECH EQ-AERATION T	66,696		SE Aeration Tanks
1990	8	56	E245	1	136	GEN CONST & MECH EQ-AERATION T	67,720		SE Aeration Tanks
1988	6	56	E246	1	136	ELECTRICAL - AERATION TANKS	242,861		SE Aeration Tanks
1987	6	56	E246	1	136	ELECTRICAL AERATION TANKS	1,379,766		SE Aeration Tanks
1986	9	56	E247	1	136	PLUMBING-OXYGEN AERATION TNKS	132,837		SE Aeration Tanks
1987	4	56	E248	1	136	HEAT,VENT-OXYGEN AERATION TANK	102,047		SE Aeration Tanks
1987	6	56	E249	1	137	OXYGEN SUPPLY SYSTEM	0	Retired 2011	SE Compressor Bldg.
1988	6	56	E249	1	137	OXYGEN SUPPLY SYSTEM	0	Retired 2011	SE Compressor Bldg.
1990	11	56	E249	1	137	OXYGEN SUPPLY SYSTEM	0	Retired 2011	SE Compressor Bldg.
1987	6	56	E250	1	137	OXYGEN SUPPLY SYSTEM- SEE E249	0	Retired 2011	SE Compressor Bldg.
1988	6	56	E250	1	137	OXYGEN SUPPLY SYSTEM- SEE E249	0	Retired 2011	SE Compressor Bldg.
1986	3	56	E251	1	138	13.2KV FEEDER,13.8 METLCLD SWI	665,772		SE Site
1987	6	56	E252	1	138	DRAINAGE & FENCING,YARD PIPING	0	This item does not appear in the 2022 FAL. Retired in 2021	SE Site
1987	10	56	E252	1	138	DRAINAGE & FENCING,YARD PIPING	0	This item does not appear in the 2022 FAL. Retired in 2021	SE Site
1997	6	56	E252	1	138	DRAINAGE & FENCING, YARD PIPIN	0	This item does not appear in the 2002 FAL.	SE Site
1987	6	56	E253	1	137	GEN CONST&MECH-COMPRESSOR BLDG	4,873,495	Value changed from 1999 FAL	SE Compressor Bldg.
1988	6	56	E253	1	137	GEN CONST&MECH-COMPRESSOR BLDG	5,770		SE Compressor Bldg.
1990	7	56	E253	1	137	GEN CONST&MECH-COMPRESSOR BLDG	55,841		SE Compressor Bldg.
1987	6	56	E254	1	137	ELECTRIC - COMPRESSOR BLDG	2,330,997		SE Compressor Bldg.
1988	6	56	E254	1	137	ELECTRIC - COMPRESSOR BLDG	12,210		SE Compressor Bldg.
1988	8	56	E254	1	137	COMPRESSOR BLDG	3,112		SE Compressor Bldg.
1987	6	56	E255	1	137	PLUMBING - COMPRESSOR BLDG.	0	Retired 2019	SE Compressor Bldg.
1986	5	56	E256	1	137	HEAT,VENT,AIR - COMPRESS BLDG	326,759		SE Compressor Bldg.
1988	5	56	E260	1	134	GEN CONST&MECH-INFLUENT PUMPIN	59,135		SE Influent PS
1987	6	56	E260	1	134	GEN CONST & MECH-INFLUENT PUMP	13,042,228	Value changed from 1999 FAL	SE Influent PS
1987	6	56	E261	1	134	HEAT&VENT-INFLUENT PUMPING STA	1,317,254		SE Influent PS
1988	6	56	E261	1	134	HEAT&VENT-INFLUENT PUMPING STA	48,044		SE Influent PS
1989	6	56	E261	1	135	HEAT&VENT-INFLUENT PUMPING STA	5,758		SE Effluent PS
1987	6	56	E262	1	134	PLUMBING-INFLUENT PUMPING STAT	206,816		SE Influent PS
1988	3	56	E262	1	134	PLUMBING-INFLUENT PUMPING STAT	11,368		SE Influent PS
1987	6	56	E263	1	134	ELECTRIC-INFLUENT PUMPING STAT	1,672,260		SE Influent PS
1988	6	56	E263	1	134	ELECTRIC-INFLUENT PUMPING STAT	27,846		SE Influent PS
1990	1	56	E263	1	134	ELECTRIC-INFLUENT PUMPING STAT	31,159		SE Influent PS
1988	6	56	E268	1	139	GEN CONST&MECH-PRIMARY SED TAN	16,300		SE Primary Sedimentation Tanks
1989	6	56	E268	1	139	GEN CONST&MECH-PRIMARY SED TAN	9,428		SE Primary Sedimentation Tanks
1987	6	56	E268	1	139	GEN CONST&MECH-PRIMARY SED TAN	14,934,054	Value changed from 1999 FAL.	SE Primary Sedimentation Tanks
1987	6	56	E269	1	139	HEAT&VENT-PRIMARY SED TANKS	330,709		SE Primary Sedimentation Tanks
1987	11	56	E269	1	139	HEAT&VENT-PRIMARY SED TANKS	38,592		SE Primary Sedimentation Tanks
1987	4	56	E270	1	139	PLUMBING-PRIMARY SED TANKS	108,242		SE Primary Sedimentation Tanks
1987	6	56	E271	1	139	ELECTRIC- PRIMARY SED TANKS	1,356,350		SE Primary Sedimentation Tanks
1987	11	56	E271	1	139	ELECTRIC- PRIMARY SED TANKS	9,709		SE Primary Sedimentation Tanks
1986	2	56	E272	1	141	GEN CONST SCUM CONCENT FACIL	2,238,902		SE Scum Concentration Facility
1986	12	56	E273	1	141	HEAT&VENT-SCUM CONCENT FACILIT	0		SE Scum Concentration Facility
1986	6	56	E274	1	141	PLUMBING - SCUM CONCENT FACILI	0		SE Scum Concentration Facility
1986	9	56	E275	1	141	ELECTRIC-SCUM CONCENTRATION FA	0		SE Scum Concentration Facility
1987	11	56	E276	1	135	GEN CONST&MECH-EFFLUENT PUMP S	25,410		SE Effluent PS
1987	6	56	E276	1	135	GEN CONST-&MECH-EFFLUENT PUMP	8,558,549		SE Effluent PS
1987	4	56	E277	1	135	HEAT&VENT-EFFLUENT PUMPING STA	465,402		SE Effluent PS
1986	4	56	E278	1	135	PLUMB - EFFLUENT PUMPING STAT	92,634		SE Effluent PS
1987	6	56	E279	1	135	ELECTRIC - EFFLUENT PUMPING ST	0	Value changed from 1999 FAL. This item does not appear in the	SE Effluent PS
1988	6	56	E279	1	135	ELECTRIC - EFFLUENT PUMPING ST	0	This item does not appear in the 2022 FAL.	SE Effluent PS
1988	8	56	E279	1	135	ELECTRIC - EFFLUENT PUMPING ST	0	This item does not appear in the 2022 FAL.	SE Effluent PS
1987	6	56	E280	1	127	GEN CONST&MECH-ADMINISTRATION	0	This item does not appear in the 2022 FAL.	SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
1988	1	56	E280	1	126	GEN CONST&MECH-ADMINISTRATION	0	This item does not appear in the 2022 FAL.	SE Main PS
1987	6	56	E281	1	138	HEAT&VENT,&FUME HOOD BLOWER	0	Retired 2011	SE Site
1987	12	56	E281	1	138	HEAT&VENT,FUME HOOD BLOWER	0	Retired 2011	SE Site
1986	9	56	E282	1	127	PLUMBING - ADMINISTRATION BLDG	174,876		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
1987	6	56	E283	1	126	ELECTRIC - ADMINISTRATION BLDG	672,951		SE Main PS
1988	6	56	E283	1	127	ELECTRIC - ADMINISTRATION BLDG	68,962		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs
1988	12	56	E283	1	127	ELECTRIC - ADMINISTRATION BLDG	17,482		SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs

1987	6	56	E284	1	138	COMPUTER MONITOR & CONTROL SYS	0	This item does not appear in the 2002 FAL.	SE Site
1987	11	56	E284	1	138	COMPUTER MONITOR & CONTROL SYS	0	This item does not appear in the 2002 FAL.	SE Site
1987	6	56	E290	1	131	GEN CONST-WAREHOUSE & STORAGE	679,228		SE Storage Bldg.
1988	3	56	E290	1	131	GEN CONST-WAREHOUSE & STORAGE	7,822		SE Storage Bldg.
1987	6	56	E293	1	131	ELECTRIC-WAREHOUSE & STORAGE	0	This item does not appear in the 2022 FAL. Retired in 2021	SE Storage Bldg.
1988	6	56	E293	1	131	ELECTRIC-WAREHOUSE & STORAGE	0	This item does not appear in the 2022 FAL. Retired in 2021	SE Storage Bldg.
1988	10	56	E293	1	131	ELECTRIC-WAREHOUSE & STORAGE	0	This item does not appear in the 2022 FAL. Retired in 2021	SE Storage Bldg.
1989	6	56	E294	1	138	GRAD,PAV,DRAIN,LANDSCAPE,PIPIN	0	This item does not appear in the 2022 FAL. Retired in 2021	SE Site
1990	6	56	E294	1	138	GRAD,PAV,DRAIN,LANDSCAPE,PIPIN	0	This item does not appear in the 2022 FAL. Retired in 2021	SE Site
1990	11	56	E294	1	138	GRAD,PAV,DRAIN,LANDSCAPE,PIPIN	0	This item does not appear in the 2022 FAL. Retired in 2021	SE Site
1989	6	56	E295	1	138	HIGH MAST LIGHTING	0	This item does not appear in the 2022 FAL. Retired in 2021	SE Site
1989	11	56	E295	1	138	HIGH MAST LIGHTING	0	This item does not appear in the 2022 FAL. Retired in 2021	SE Site
1987	6	56	E296	1	138	GEN CONST&MECH-MAINTENANCE FAC	3,143,165		SE Site
1988	1	56	E296	1	138	GEN CONST&MECH-MAINTENANCE FAC	84,424		SE Site
1989	6	56	E297	1	138	HEAT,VENT-MAINTENANCE FACILITI	0	This item does not appear in the 2022 FAL. Retired in 2021	SE Site
1987	8	56	E297	1	138	HEAT,VENT-MAINTENANCE FACILITY	0	This item does not appear in the 2022 FAL. Retired in 2021	SE Site
1987	6	56	E298	1	138	PLUMBING-MAINTENANCE FACILITIE	181,858		SE Site
1988	1	56	E298	1	138	PLUMBING-MAINTENANCE FACILITIE	41,618		SE Site
1987	6	56	E299	1	138	ELECTRIC-MAINTENANCE FACILITIE	601,062		SE Site
1988	6	56	E299	1	138	ELECTRICAL - MAINT. FACILITIES	30,519		SE Site
1989	4	56	E299	1	138	ELECTRICAL - MAINT. FACILITIES	14,067		SE Site
1987	4	56	E300	1	138	LOW LEVEL LIGHTING	65,473		SE Site
1981	6	56	SD-240-SE	1	138	SITE PREP FOR NEW PLANT	8,248,157		SE Site
1980	5	56	SD-240-SE	1	138	SITE PREP FOR NEW PLANT	15,690,895	Value changed from 1999 FAL	SE Site
1985	2	56	SD-255-SE	1	137	PLUMBING - COMPRESSOR BLDG.	275,780		SE Compressor Bldg.
1983	6	56	SD-258-SE	1	133	TWIN 7'X9'HIGH EFFLU CONDUIT	9,217,648		SE Main Effluent Conduit
1990	9	56	E249	1	137	OXYGEN SUPPLY SYSTEM	0	Retired 2011	SE Compressor Bldg.
TOTAL SE PLANT ASSETS (WPAP)							128,634,354		
TOTAL SE PLANT ASSETS							182,638,869		
							182,638,869	(0)	

File: SCOS23_24_ver1.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2024 | Budget Yr 2023 | Ver. 1a
SPLTFNC - All Plants - Assets by Plant Function as of 6/30/2022 | P.N. 135647.0100 | January 27, 2023 1:55 p.m. | Plant-9

Plant Function Description	Plant Function ID Plant-2	NE Non-WPAP Cost Plant-3	NE WPAP Cost Plant-4	SW Non-WPAP Cost Plant-5	SW WPAP Cost Plant-6	SE Non-WPAP Cost Plant-7	SE WPAP Cost Plant-8	WPAP Fixed Asset Listing Total Cost Increased to Recognize Additional Engineering and Design Costs ("Soft Costs") NE-WPAP	SW-WPAP	SE-WPAP
								0.848 (a)	0.809 (a)	0.821 (a)
NE Grit Chamber	66	14,648,303	0	0	0	0	0	0	0	0
NE Pumping Station	67	464,097	0	0	0	0	0	0	0	0
NE Services Building	68	289,605	0	0	0	0	0	0	0	0
NE Meters, Vaults and Connection Sewers	69	266,371	7,758,041	0	0	0	0	9,148,633	0	0
NE Settling & Aeration Tanks	70	13,149,371	0	0	0	0	0	0	0	0
NE Blower Bldg., Supernat. Tank, Scum Ejector Bldg	71	2,698,751	13,560,998	0	0	0	0	15,991,743	0	0
NE Sludge Digestion System	72	6,642,839	28,216,749	0	0	0	0	33,274,468	0	0
NE Sludge Dewatering	73	46,421,947	0	0	0	0	0	0	0	0
NE Lagoons	74	0	0	0	0	0	0	0	0	0
NE Locker Bldg.	75	0	0	0	0	0	0	0	0	0
NE Chlorination Facilities	76	4,985,752	0	0	0	0	0	0	0	0
NE Admin. Bldg. (b)	77	8,257,421	13,962,557	0	0	0	0	16,465,279	0	0
NE Heating Plant	78	3,484,064	0	0	0	0	0	0	0	0
NE Electrical Substation	79	5,686,625	0	0	0	0	0	0	0	0
NE Sludge Incinerators	80	1,609,162	0	0	0	0	0	0	0	0
NE Site	81	23,143,079	16,295,928	0	0	0	0	19,216,896	0	0
NE Sludge Residue Fusion Plant	82	0	0	0	0	0	0	0	0	0
NE Aeration Tank No. 1	83	2,576,910	31,618,289	0	0	0	0	37,285,718	0	0
NE Prelim. Treatment Bldg.	84	860,258	33,610,447	0	0	0	0	39,634,961	0	0
NE Elect. Bldg.	85	589,603	938,023	0	0	0	0	1,106,159	0	0
NE Primary Sedimentation Tanks	86	26,942,347	43,244,890	0	0	0	0	50,996,333	0	0
NE Final Sedimentation Tanks	87	5,511,166	20,953,278	0	0	0	0	24,709,054	0	0
NE Effluent Conduit	88	0	1,877,876	0	0	0	0	2,214,476	0	0
NE Sludge Thickener Bldg.	89	10,211,618	33,796,082	0	0	0	0	39,853,870	0	0
NE Sludge Transfer Station, Proc. & Loading Term.	90	275,979	20,038,560	0	0	0	0	23,630,377	0	0
NE Barges	91	6,479,166	4,484,823	0	0	0	0	5,288,706	0	0
NE Engineering, Design	92	21,644,702	0	0	0	0	0	0	0	0
SW Screen, Blower, Prim. Sludge PS, Grit	93	0	0	2,756,613	0	0	0	0	0	0
SW Grease Burner	94	0	0	0	0	0	0	0	0	0
SW Settling Tanks	95	0	0	2,466,651	0	0	0	0	0	0
SW Sludge Handling & Machine Shop	96	0	0	7,147,105	8,863	0	0	0	10,956	0
SW Sludge Digestion	97	0	0	13,327,783	0	0	0	0	0	0
SW Belt Filter System	98	0	0	0	0	0	0	0	0	0
SW Chlorination Facilities	99	0	0	1,175,809	0	0	0	0	0	0
SW Office & Equip. Building	100	0	0	0	0	0	0	0	0	0
SW Sludge Disposal	101	0	0	0	0	0	0	0	0	0
SW Electrical Substation	102	0	0	0	37,351	0	0	0	46,169	0
SW Waste Gas Burner	103	0	0	0	0	0	0	0	0	0
SW Elevated Water Tank	104	0	0	95,617	301,439	0	0	0	372,607	0
SW Dewatering Facilities	105	0	0	0	0	0	0	0	0	0
SW General Improvements	106	0	0	7,162,943	85,803	0	0	0	106,061	0
SW Site	107	0	0	31,893,126	18,199,622	0	0	0	22,496,443	0
SW Compressor Bldg.	108	0	0	0	2,920,802	0	0	0	3,610,386	0
SW Aeration Tanks	109	0	0	676,633	12,831,828	0	0	0	15,861,345	0
SW Sedimentation Tanks	110	0	0	17,635,698	22,937,384	0	0	0	28,352,761	0
SW Electrical Bldg.	111	0	0	688,454	1,518,011	0	0	0	1,876,404	0
SW Oxygen Supply	112	0	0	3,513,891	11,035,428	0	0	0	13,640,826	0
SW Effluent PS	113	0	0	1,513,445	4,638,390	0	0	0	5,733,486	0
SW Admin. Bldg.	114	0	0	39,792,442	2,258,049	0	0	0	2,791,161	0
SW Shop & Maintenance Bldg.	115	0	0	209,035	2,650,056	0	0	0	3,275,718	0
SW Warehouse	116	0	0	961,394	1,554,864	0	0	0	1,921,958	0
SW Primary Sedimentation Tanks	117	0	0	13,893,402	8,712,494	0	0	0	10,769,461	0
SW Preliminary Treatment Building	118	0	0	4,409,645	18,594,577	0	0	0	22,984,644	0
SW Influent PS	119	0	0	5,133,454	4,946,279	0	0	0	6,114,066	0
SW Scum Concentration Bldg.	120	0	0	0	1,074,169	0	0	0	1,327,774	0
SW Sludge Thickener Bldg.	121	0	0	1,559,918	13,471,207	0	0	0	16,651,677	0
SW Sludge Digestion Facilities	122	0	0	3,667,654	36,102,364	0	0	0	44,625,913	0
SW Composting Facilities	123	0	0	691,838	0	0	0	0	0	0
SW Sludge Gas Facilities	124	0	0	11,670,467	8,412,442	0	0	0	10,398,569	0
SW Outfall Line	125	0	0	0	0	0	0	0	0	0
SE Main PS	126	0	0	0	0	239,159	672,951	0	0	819,672
SE Screen, Admin, Garage, Mach. Shop, Grit, Chmbrs	127	0	0	0	0	12,024,166	261,320	0	0	318,295
SE Settling Tanks & Flocculation Channel	128	0	0	0	0	3,663,122	0	0	0	0
SE Grease Bldg.	129	0	0	0	0	0	0	0	0	0
SE Blower & Primary Sludge PS	130	0	0	0	0	0	0	0	0	0
SE Storage Bldg.	131	0	0	0	0	945,364	687,050	0	0	836,845
SE Sludge Force Main to SW Plant	132	0	0	0	0	4,852,158	0	0	0	0
SE Main Effluent Conduit	133	0	0	0	0	0	9,217,648	0	0	11,227,342

SE Influent PS	134	0	0	0	0	831,448	16,416,110			0		0	19,995,262	
SE Effluent PS	135	0	0	0	0	550,890	9,147,753			0		0	11,142,208	
SE Aeration Tanks	136	0	0	0	0	3,195,732	15,792,157			0		0	19,235,270	
SE Compressor Bldg.	137	0	0	0	0	0	7,883,964			0		0	9,602,879	
SE Site	138	0	0	0	0	24,154,530	28,795,746			0		0	35,073,990	
SE Primary Sedimentation Tanks	139	0	0	0	0	1,668,740	16,803,384			0		0	20,466,972	
SE Final Sedimentation Tanks	140	0	0	0	0	1,879,207	20,717,369			0		0	25,234,311	
SE Scum Concentration Facility	141	0	0	0	0	0	2,238,902			0		0	2,727,043	
		NE Non-WPAP	NE WPAP	SW Non-WPAP	SW WPAP	SE Non-WPAP	SE WPAP	Total	NE Non-WPAP	NE WPAP	SW Non-WPAP	SW WPAP	SE Non-WPAP	SE WPAP	
		206,839,138	270,356,541	172,043,018	172,291,422	54,004,515	128,634,354	1,004,168,989	206,839,138	318,816,673	172,043,018	212,968,385	54,004,515	156,680,089	
			477,195,679		344,334,440		182,638,869	1,004,168,989		525,655,811		385,011,403		210,684,604	1,121,351,819
										Soft Costs Equal Difference in Totals =			$1,121,351,819 -	$1,004,168,989	117,182,830

(a) These percentages are the ratios of Construction Costs to Total Costs from the PWD Reimbursement Status Report supplied by Joe Clare on 10/7/99 (BD-28a). The differences between Construction Costs and Total Costs are "soft costs" representing engineering, design, and administrative costs not included in the fixed asset listing.

(b) $9,514,300.0 of the WPAP facilities received only about 3% federal grants, per Joe Clare 10/7/99 email to JRM (filed with PN 31416.0100 Miscellaneous Correspondence).

Depot	Location	Total
		$
0	Building & Related - Undetermined Location (a)	2,742,946,071
1	Building & Related - Belmont RWPS	21,966,338
2	Building & Related - Belmont FWPS	15,844,985
3	Building & Related - Belmont Filters	108,830,399
4		131,238
5	Building & Related - HS to Roxborough Expressway	0
6	Building & Related - Queen Lane RWPS	10,700,184
7	Building & Related - Queen Lane HS FWPS	24,109,126
8	Building & Related - Queen Lane Filters	104,547,122
11	Building & Related - Roxborough HS FWPS	3,412,463
12	Building & Related - Upper Roxborough Filters	4,565,929
13	Building & Related - Lower Roxborough Filters	57,752
14	Radios	7,298,174
15	Meters	46,226,870
17	Building & Related - Torressdale RWPS	17,022,129
18	Building & Related - Torresdale FWPS	18,854,799
19	Building & Related - Torresdale HS FWPS	4,536,276
20	Building & Related - Baxter Filters	174,213,237
22	Building & Related - Foxchase FWPS	5,873,963
23	Building & Related - Oak Lane FWPS	4,214,467
24	Building & Related - Oak Lane Reservoir	8,243,000
25	Building & Related - Lardner's Point FWPS	4,232,434
26	Building & Related - East Park FWPS	2,672,730
27	Building & Related - East Park Reservoir	129,895,643
28	Building & Related - Race Street HP PS	0
29	Building & Related - Fairhill HP PS	0
30	Building & Related - West Oak Lane FWPS	6,925,588
31	Building & Related - Load Control Center	4,258,574
32	Building & Related - Distribution	25,506,983
33	Building & Related - Automotive Garage	5,178,258
34	Building & Related - ARA Towers	10,362,534
35	Building & Related - Design Related	289,994
37		4,059,365
38		1,753,027
39	Building & Related - Fairmount Water Works	4,217,575
40	Building & Related - Meter Shop	1,836,857
41		920,403
42	Building & Related - Auto Repair Facility (Fox & Robts. Sts.)	960,935
43	Building & Related - Centralized Laboratory	19,323,938
44	Building & Related - Repair Shop	484,339
45	Building & Related - Building Maintenance	4,791,846
47	Building & Related - Central Stores	392,415
48		0
49	Building & Related - IBM Unit 29th & Cambria	529,038
51	Building & Related - Sewer Maintenance	14,936,828
54	Building & Related - NE Treatment	477,195,679
55	Building & Related - SW Treatment	344,334,440
56	Building & Related - SE Treatment	182,638,869
57	Building & Related - Sewer Maintenance Headquarters Bldg.	25,834,345
58	Building & Related - Frankford Grit	0
59		70,997,400
60	Building & Related - Bank Street PS	45,031
61	Building & Related - Central Schuykill PS	4,032,861
62	Building & Related - Neill Drive PS	1,560,247
63	Building & Related - Mingo Creek PS	8,901,165
65	Building & Related - Milnor Street PS	126,587
66	Building & Related - Ford Road PS	122,579
67	Building & Related - 42nd Street PS	2,149,312
68	Building & Related - Sludge Management	53,851,044
71	Building & Related - Broad & Boulevard PS	0
72	Building & Related - Passyunk & Vare PS	0
73	Building & Related - Industrial Waste	803,654
75	Building & Related - Rennard Street PS	1,565,285
76	Building & Related - Lockhart Street PS	169,529
77	Building & Related - Linden Avenue PS	196,085
80	Building & Related - Somerton Tanks	4,140,615
81		275,493
85	Building & Related - Chappel Hill PS	0
86	Building & Related - Chappel Hill & Belfry Dr. PS	1,409,062

91	Building & Related - Lardner's Point Sewer System	1,358,352
92		7,350,338
94		3,288,669
95		1,677,521
	LTCP Infrastructure	291,588,941
	Total	5,052,736,928

(a) Location ID 0 (zero) includes the following:

Building & Related - Undetermined Location	42,608,743
Water Mains	988,057,473
Sewer Mains	1,712,279,854
Total -	2,742,946,071
Check -	2,742,946,071

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
SFAL - Summary of Fixed Asset Listing Control Totals as of 6/30/2022	P.N. 135647.0100	January 27, 2023 1:55 p.m.			Plant-12

Reference: FY22 F-6 Fixed Assets 10.25.22.xlsx

Depot	Location Description		FY 2023 Fixed Asset Listing	Total $	
1,000	Water Mains	988,057,473		988,057,473	
2,000	Sewer Mains	1,712,279,854		1,712,279,854	
0	Building & Related - Undetermined Location and Admin	42,608,743		42,608,743	
1	Building & Related - Belmont RWPS	21,966,338		21,966,338	
2	Building & Related - Belmont FWPS	15,844,985		15,844,985	
3	Building & Related - Belmont Filters	108,830,399		108,830,399	
4		131,238		131,238	
5	Building & Related - HS to Roxborough Expressway	0		0	
6	Building & Related - Queen Lane RWPS	10,700,184		10,700,184	
7	Building & Related - Queen Lane HS FWPS	24,109,126		24,109,126	
8	Building & Related - Queen Lane Filters	104,547,122		104,547,122	
11	Building & Related - Roxborough HS FWPS	3,412,463		3,412,463	
12	Building & Related - Upper Roxborough Filters	4,565,929		4,565,929	
13	Building & Related - Lower Roxborough Filters	57,752		57,752	
14	Radios	7,298,174		7,298,174	
15	Meters	30,226,870	16,000,000	46,226,870	
17	Building & Related - Torressdale RWPS	17,022,129		17,022,129	
18	Building & Related - Torresdale FWPS	18,854,799		18,854,799	
19	Building & Related - Torresdale HS FWPS	4,536,276		4,536,276	
20	Building & Related - Baxter Filters	174,213,237		174,213,237	
22	Building & Related - Foxchase FWPS	5,873,963		5,873,963	
23	Building & Related - Oak Lane FWPS	4,214,467		4,214,467	
24	Building & Related - Oak Lane Reservoir	8,243,000		8,243,000	
25	Building & Related - Lardner's Point FWPS	4,232,434		4,232,434	
26	Building & Related - East Park FWPS	2,672,730		2,672,730	
27	Building & Related - East Park Reservoir	129,895,643		129,895,643	
28	Building & Related - Race Street HP PS			0	
29	Building & Related - Fairhill HP PS			0	
30	Building & Related - West Oak Lane FWPS	6,925,588		6,925,588	
31	Building & Related - Load Control Center	4,258,574		4,258,574	
32	Building & Related - Distribution	25,506,983		25,506,983	
33	Building & Related - Automotive Garage	5,178,258		5,178,258	
34	Building & Related - ARA Towers	10,362,534		10,362,534	
35	Building & Related - Design Related	289,994		289,994	
37	PC Equipment & Vehicles	4,059,365		4,059,365	
38	PC Equipment & Vehicles	1,753,027		1,753,027	
39	Building & Related - Fairmount Water Works	4,217,575		4,217,575	
40	Building & Related - Meter Shop	1,836,857		1,836,857	
41	Vehicles	920,403		920,403	
42	Building & Related - Auto Repair Facility (Fox & Robts. Sts.)	960,935		960,935	
43	Building & Related - Centralized Laboratory	19,323,938		19,323,938	
44	Building & Related - Repair Shop	484,339		484,339	
45	Building & Related - Building Maintenance	4,791,846		4,791,846	
47	Building & Related - Central Stores	392,415		392,415	
48				0	
49	Building & Related - IBM Unit 29th & Cambria	529,038		529,038	
51	Building & Related - Sewer Maintenance	14,936,828		14,936,828	x
54	Building & Related - NE Treatment	477,195,679		477,195,679	
55	Building & Related - SW Treatment	344,334,440		344,334,440	
56	Building & Related - SE Treatment	182,638,869		182,638,869	
57	Building & Related - Sewer Maintenance Headquarters Bldg.	25,834,345		25,834,345	
58	Building & Related - Frankford Grit			0	
59	Manayunk Sewer Basin	70,997,400		70,997,400	
60	Building & Related - Bank Street PS	45,031		45,031	
61	Building & Related - Central Schuykill PS	4,032,861		4,032,861	
62	Building & Related - Neill Drive PS	1,560,247		1,560,247	
63	Building & Related - Mingo Creek PS	8,901,165		8,901,165	
65	Building & Related - Milnor Street PS	126,587		126,587	
66	Building & Related - Ford Road PS	122,579		122,579	
67	Building & Related - 42nd Street PS	2,149,312		2,149,312	
68	Building & Related - Sludge Management	53,851,044		53,851,044	0
71	Building & Related - Broad & Boulevard PS	0		0	
72	Building & Related - Passyunk & Vare PS	0		0	
73	Building & Related - Industrial Waste	803,654		803,654	
75	Building & Related - Rennard Street PS	1,565,285		1,565,285	
76	Building & Related - Lockhart Street PS	169,529		169,529	
77	Building & Related - Linden Avenue PS	196,085		196,085	

Sewer Plant Including Sewer's Share of Common Plant Above and Land Not Included on This Page

Total Sewer Plant This Page		3,196,097,148	
Plus NE WPAP Including "Soft Costs" (a)	Plant-9	318,816,673	x
Less NE WPAP Excluding "Soft Costs" (a)	Plant-9	(270,356,541)	x
Plus SW WPAP Including "Soft Costs" (a)	Plant-9	212,968,385	x
Less SW WPAP Excluding "Soft Costs" (a)	Plant-9	(172,291,422)	x
Plus SE WPAP Including "Soft Costs" (a)	Plant-9	156,680,089	x
Less SE WPAP Excluding "Soft Costs" (a)	Plant-9	(128,634,354)	x
Plus Sludge Management Including "Soft Costs" (a	Spltallo-3	66,564,949	x
Less Sludge Management Excluding "Soft Costs" (	This Page	(53,851,044)	x
Sewer Plant Including "Soft Costs" (a)		3,325,993,883	
Land Not Included Here But Included in Spltallo-5			
NE WPCP	Spltallo-2	913,000	x
SW WPCP	Spltallo-3	664,000	x
SE WPCP	Spltallo-4	151,000	x
Sewer Share of Water & Sewer A&G		41,960,777	
General Plant Land To Be Included with Mains (Spltallo-5)	Spltallo-5	1,816,000	x
Subtotal Sewer Plant		3,371,498,660	
Less Facilities Excluded as Not Used and Useful (See Footnotes (a) & (b) on Spltallo-2.)		(14,648,000)	x
Total Sewer Plant		3,356,850,660	
Total Sewer Plant (Rounded)		3,356,851,000	
Total Sewer Plant from Spltallo-5	Spltallo-5	3,356,850,000	
Difference		(1,000)	

(a) See footnote (a) on Plant-9 for an explanation of "soft costs."

80	Building & Related - Somerton Tanks	4,140,615	4,140,615				
81	Vehicles	275,493	275,493				
85	Building & Related - Chappel Hill PS		0				
86	Building & Related - Chappel Hill & Belfry Dr. PS	1,409,062	1,409,062				
91	Building & Related - Lardner's Point Sewer System	1,358,352	1,358,352				
92	Vehicles	7,350,338	7,350,338				
94	Vehicles	3,288,669	3,288,669				
95	Vehicles	1,677,521	1,677,521				
	LTCP Infrastructure	291,588,941	291,588,941				
	Total	5,036,736,928	5,052,736,928				
	Water and Common A&G Total		1,829,885,553	Comparable total from WCOS:	1,829,885,553	Difference =	0

SCOS23_24.XLS

SPLTALLO

Fixed Asset Listing as of date 6/30/2022

The "Spltallo" worksheet allocates sewer treatment plant investment and annual depreciation to cost functions. It also allocates wastewater system investment to individual contract customers.

Range	Description	Page Number	Table
SPLTIndex	Index	Spltallo-1	
NEInvest	Northeast Water Pollution Control Treatment Plant Investment	Spltallo-2	
SWInvest	Southwest Water Pollution Control Treatment Plant Investment	Spltallo-3	
SEInvest	Southeast Water Pollution Control Treatment Plant Investment	Spltallo-4	
TotalInvest	Water Pollution Control Treatment Plant Investment	Spltallo-5	
NEALLO1	Allocation of Test Year Investment for the NE WPCP - Part 1	Spltallo-6	Schedule BV-2: Table 7-12
NEALLO2	Allocation of Test Year Investment for the NE WPCP - Part 2	Spltallo-7	
NEALLO3	NE WPCP Alloc of Federal Grants For WPAP Projects	Spltallo-8	
SWALLO1	Allocation of Test Year Investment for the SW WPCP	Spltallo-9	Schedule BV-2: Table 7-13
SWALLO2	SW WPCP Alloc of Federal Grants For WPAP Projects	Spltallo-10	
SEALLO1	Allocation of Test Year Investment for the SE WPCP	Spltallo-11	Schedule BV-2: Table 7-14
SEALLO2	SE WPCP Alloc of Federal Grants For WPAP Projects	Spltallo-12	
SWReAllo1	SW WPAP Sludge Thickener Allocated To NE and SE Plants - Part 1	Spltallo-13	
SWReAllo2	Summary of SW WPAP Plant Allocated To NE and SE Plants - Part	Spltallo-14	
SWReAllo3	SW WPAP Sludge Digestion Allocated To NE and SE Plants - Part 3	Spltallo-15	
SWReAllo4	SW WPAP Sludge Gas Facilities Allocated To NE and SE Plants - P	Spltallo-16	
SWReAllo5	SW WPAP Sludge Disposal (Centrifuges) Allocated To NE and SE P	Spltallo-17	
SWReAllo6	SW WPAP Composting Facilities Allocated To NE and SE Plants - P	Spltallo-18	
SWReAllo7	SW WPAP Dewatering Facilities Allocated To NE and SE Plants - P	Spltallo-19	
SWReAllo8	SW Non-WPAP Sludge Disposal Facilities Allocated To NE and SE	Spltallo-20	
SWReAllo9	SW Non-WPAP Digesters Allocated To NE and SE Plants - Part 9	Spltallo-21	
SWReAllo10	SW WPAP Prelim. Trtmt Bldg Allocated To NE and SE Plants - Part	Spltallo-22	
SWReAllo11	SW WPAP Grit & Ash Transfer Allocated To NE and SE Plants - Pa	Spltallo-23	
ALLOC	Allocation of TY Plant Investment	Spltallo-24	
INVSTCap1	WPCP Investment Per Unit Of Capacity	Spltallo-25	Schedule BV-2: APPENDIX I TABLE 1
INVSTCap2	SW WPCP Treatment Plant Unit Costs	Spltallo-26	
INVSTCap3	Whlsl Units of Service for Treatment Plants	Spltallo-27	
TWNPALLO1	Abington Allocated Investment	Spltallo-28	Schedule BV-2: APPENDIX I TABLE 2
TWNPALLO2	Cheltenham Allocated Investment	Spltallo-29	Schedule BV-2: APPENDIX I TABLE 5
TWNPALLO3	Lower Merion Allocated Investment	Spltallo-30	Schedule BV-2: APPENDIX I TABLE 7
TWNPALLO4	Lower Moreland Allocated Investment	Spltallo-31	Schedule BV-2: APPENDIX I TABLE 8
TWNPALLO5	Lower Southhampton Allocated Investment	Spltallo-32	Schedule BV-2: APPENDIX I TABLE 9
TWNPALLO6	Springfield (excl. Wyndmoor) Allocated Investment	Spltallo-33	Schedule BV-2: APPENDIX I TABLE 10
CONVREV	Revisions to Conveyance Calculations	Spltallo-34	
TWNPALLO7	Sprngfield (Wyndmoor) Allocated Investment	Spltallo-35	Schedule BV-2: APPENDIX I TABLE 11
TWNPALLO8	Bensalem Allocated Investment	Spltallo-36	Schedule BV-2: APPENDIX I TABLE 3
TWNPALLO9	Bucks County Allocated Investment	Spltallo-37	Schedule BV-2: APPENDIX I TABLE 4
TWNPALLO10	DELCORA Allocated Investment	Spltallo-38	Schedule BV-2: APPENDIX I TABLE 6
TWNPALLO11	Upper Darby Allocated Investment	Spltallo-39	Schedule BV-2: APPENDIX I TABLE 12
CONVALLO	Treatment Plant Conveyance Investment Alloc To Townships	Spltallo-40	
LANDALLO	Allocation Of Land Investment To Contract Customers	Spltallo-41	
NEPLTINV	Northeast Water Pollution Control Treatment Plant Investment	Spltallo-42	
TWNSHP	Township Contributed Investment	Spltallo-43	
TYDepr	Test Year Annual Depreciation Expense	Spltallo-44	
TYInvest	Test Year Depreciable Plant Investment	Spltallo-45	
RTLInvest	Depreciable Plant Invest Alloc To Retail Service	Spltallo-46	

File: SCOS23_24_ver1.xls Philadelphia Water Department (PWD) CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE Test Year 2024 Budget Yr 2023 Ver. 1a
NEInvest - Northeast Water Pollution Control Treatment P P.N. 135647.0100 January 27, 2023 2:13 p.m. Spltallo-2

NORTHEAST WATER POLLUTION CONTROL TREATMENT PLANT INVESTMENT

Test Year 2024

Line No.	Description	(1) Preliminary 6/30/2022 Plant in Service $1,000 Plant-9 Plant-12	(2) Allocated Cap. Int. and Cap. Pension & Ben. $1,000	(3) Final 6/30/2022 Plant in Service $1,000 (1)+(2)	(4) Test Year CWIP Plus Wt. Add'ns to Plant in Service $1,000 BOX 2	(5) Subtotal Columns (3)+(4) $1,000	(6) Allocate Test Year Common A&G $1,000 Spltallo-5	(7) FY 2024 Test Year Plant in Service $1,000
	WPCP (Non-Abatement)							
1	Frankford Grit Chamber	0	0	0	0	0	0	0
2	Plant Grit Chamber(a)	0	0	0	0	0	0	0
3	Pumping Station(a)	1,324	0	1,324	0	1,324	46	1,370
4	Settling and Aeration Tanks	45,603	0	45,603	0	45,603	1,595	47,198
5	Blower Bldg, Supernatant Tank Prim Sldge Hse & Scum Ejector Bldg	2,699	0	2,699	0	2,699	94	2,793
6	Sludge Digestion System	6,643	0	6,643	0	6,643	232	6,875
7	Lagoons	0	0	0	0	0	0	0
8	Sludge Dewatering	48,031	0	48,031	0	48,031	1,680	49,711
9	Centrifuge System (WO-79-2831)		0	0	0	0	0	0
10	Effluent Conduit	0	0	0	0	0	0	0
11	Chlorination Facilities	4,986	0	4,986	0	4,986	174	5,160
12	Aeration Tank No. 1	2,577	0	2,577	0	2,577	90	2,667
13	Sludge Thickener Building	10,212	0	10,212	0	10,212	357	10,569
14	Sludge Transfer Station	276	0	276	0	276	10	286
15	Loading Terminal/Barges	6,479	0	6,479	0	6,479	227	6,706
16	Subtotal	128,830	0	128,830	0	128,830	4,505	133,335
	Admin. & Gen. Facilities							
17	Admin. & Serv. Bldg.	8,547	0	8,547	0	8,547	299	8,846
18	Locker Bldg	0	0	0	0	0	0	0
19	Heating Plant	3,484	0	3,484	0	3,484	122	3,606
20	Electrical Building	590	0	590	0	590	21	611
21	Electrical Substation	5,687	0	5,687	0	5,687	199	5,886
	Land & Site Preparation	Ref:B						
22	Land	913	0	913	0	913	32	945
23	Site(b)	23,143	0	23,143	0	23,143	810	23,953
24	Total Land & Site	24,056	0	24,056	0	24,056	842	24,898
25	Meter Vaults & Connecting Sewers	266	0	266	0	266	9	275
26	Engineering & Design	21,645	0	21,645	0	21,645	759	22,404
27	Subtotal A & G	64,275	0	64,275	0	64,275	2,251	66,526
28	Total WPCP (Non-WPAP)	193,105	0	193,105	0	193,105	6,756	199,861

BOX 1 - CHECK OF COL 1 vs. TOTAL FROM "PLANT"

Line 51 Less Line 22 (Land not included in PLANT)			511,008
Plus Total from Footnote (a)			14,648
Plus Total from Footnote (b)			0
Subtotal			525,656
Check from PLANT	525,655,811	/1,000 =	525,656
Plus items included under "Collection - Building & Related" from SPLANT91.WK4, LINK_NE36 (FHL Interceptor and "Other Collection"), included under Collection System on Spltallo-5.	0	/1,000 =	0
Less Frankford Grit Chamber from Plant-12	0	/1,000 =	0
Total			525,656
Check from Plant Worksheet: Plant-9	525,655,811	/1,000 =	525,656

BOX 2 - CWIP

Weighted Test Year Additions Plus CI and CFB (Abatement):		
Projected Plant Additions		0
		0
Weighted Test Year Additions Plus CI and CFB (Non-Abatement):		0
Projected Plant Additions		
		0
	Total	0

	WPAP							
29	Engr, Serv, Design, Testing	0	0	0	0	0	0	0	
30	Electrical Building	1,106	0	1,106	0	1,106	39	1,145	x
31	Aeration Tank #1	37,286	0	37,286	0	37,286	1,305	38,591	x
32	Site	19,217	0	19,217	0	19,217	672	19,889	x
33	Sludge Digestion	33,274	0	33,274	0	33,274	1,164	34,438	x
34	Sludge Residue Fusion Plant(a)	0	0	0	0	0	0	0	
35	New Preliminary Trtmt Bldg	39,635	0	39,635	0	39,635	1,387	41,022	x
36	Chlorination	0	0	0	0	0	0	0	x
37	Primary Sedimentation Tanks	50,996	0	50,996	0	50,996	1,784	52,780	x
38	New Scum Disposal Facilities		0	0	0	0	0	0	
39	New Sludge Thickener Building	39,854	0	39,854	0	39,854	1,395	41,249	x
40	New Final Sedimentation Tanks	24,709	0	24,709	0	24,709	865	25,574	x
41	Blower Building	15,992	0	15,992	0	15,992	560	16,552	x
42	Meter Vaults & Connecting Sewers	9,149	0	9,149	0	9,149	320	9,469	x
43	New Aeration Tanks		0	0	0	0	0	0	
44	New Centrifuge Building		0	0	0	0	0	0	
45	Effluent Conduit	2,214	0	2,214	0	2,214	77	2,291	x
46	Sludge Transfer Station	23,630	0	23,630	0	23,630	827	24,457	x
47	Sludge Cake Staging Pad		0	0	0	0	0	0	
48	Loading Terminal/Barges	5,289	0	5,289	0	5,289	185	5,474	x
49	Administration Bldg. (c)	16,465	0	16,465	0	16,465	576	17,041	x
50	Total WPAP	318,816	0	318,816	0	318,816	11,156	329,972	
51	TOTAL PLANT	511,921	0	511,921	0	511,921	17,912	529,833	
			0						

(a) Facilities excluded as not used or useful include:

	$
Plant Grit Chamber - 6/30/2022	14,648
Plant Grit Chamber - 6/30/89	0
Plant Grit Chamber	14,648
Pumping Station	
Sludge Residue Fusion Plant	
	14,648

(b) Truck Maintenance Garage excluded as not used or useful:

$

(c) $9,514,300.0 of the WPAP facilities received only about 3% federal grants, per Joe Clare 10/7/99 email to JRM (filed with PN 31416.0100 Miscellaneous Correspondence).

File: SCOS23_24_ver1.xls Philadelphia Water Department (PWD) CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE Test Year 2024 Budget Yr 2023 Ver. 1a
SWInvest - Southwest Water Pollution Control Treatment 1P.N. 135647.0100 January 27, 2023 2:13 p.m. Spltallo-3

References:

SOUTHWEST WATER POLLUTION CONTROL TREATMENT PLANT INVESTMENT

Test Year 2024

Line No.	Description	(1) Preliminary 6/30/2022 Plant in Service $1,000 Plant-9 BOX 4	(2) Allocated Cap. Int. and Cap. Pension & Ben. $1,000	(3) Final 6/30/2022 Plant in Service $1,000 (1)+(2)	(4) Test Yr CWIP Plus Wt. Add'ns to Plant in Service $1,000 BOX 2	(5) Subtotal Columns $1,000 (3)+(4)	(6) Allocate Test Year Common A&G $1,000 Spltallo-5	(7) FY 2024 Test Year Plant in Service $1,000	(4) Test Yr CWIP Plus Wt. Add'ns to Plant in Service Less CI & FB $1,000 BOX 2
	WPCP (Non-Abatement)								
1	Screen, Blower, Primary Sludge Pump Sta. & Grit Chambers	12,300	0	12,300	0	12,300	430	12,730	0
2	Grease Burner	0	0	0	0	0	0	0	0
3	Sedimentation Tanks	33,996	0	33,996	0	33,996	1,189	35,185	0
4	Sludge Handling & Machine Shop	7,147	0	7,147	0	7,147	250	7,397	0
5	Sludge Digestion	16,995	0	16,995	0	16,995	595	17,590	0
6	Sludge Disposal	0	0	0	0	0	0	0	0
7	Belt Filter System	0	0	0	0	0	0	0	0
8	Centrifuge System		0	0	0	0	0	0	0
9	Outfall Line (SD-152-SW)		0	0	0	0	0	0	0
10	Chlorination Facilities	1,176	0	1,176	0	1,176	41	1,217	0
11	Dewatering Facilities	0	0	0	0	0	0	0	0
12	Aeration Tanks	677	0	677	0	677	24	701	0
13	Oxygen Supply	3,514	0	3,514	0	3,514	123	3,637	0
14	Effluent Pump Station	1,513	0	1,513	0	1,513	53	1,566	0
15	Sludge Thickener Building	1,560	0	1,560	0	1,560	55	1,615	0
16	Composting Facilities	692	0	692	0	692	24	716	0
17	Sludge Gas Facilities	11,670	0	11,670	0	11,670	408	12,078	0
18	Subtotal	91,240	0	91,240	0	91,240	3,192	94,432	0
	Admin. & Gen. Facilities								
19	Office & Gen. Facilities	0	0	0	0	0	0	0	0
20	Electrical Substation	688	0	688	0	688	24	712	0
21	Elevated Water Tank	96	0	96	0	96	3	99	0
22	General Improvements	46,955	0	46,955	0	46,955	1,643	48,598	0
	Land & Site Preparation	Ref. B							
23	Land	664	0	664	0	664	23	687	0
24	Site	31,893	0	31,893	0	31,893	1,116	33,009	0
25	Total Land & Site	32,557	0	32,557	0	32,557	1,139	33,696	0
26	Shop & Maintenance Building	209	0	209	0	209	7	216	
27	Warehouse	961	0	961	0	961	34	995	
28	Subtotal A & G	81,466	0	81,466	0	81,466	2,850	84,316	0
29	Total WPCP (Non-WPAP)	172,706	0	172,706	0	172,706	6,042	178,748	0
	WPAP								
30	Influent Pumping Station	6,114	0	6,114	0	6,114	214	6,328	0
31	Preliminary Treatment Bldg	22,985	0	22,985	0	22,985	804	23,789	0
32	Primary Sedimentation Tanks	10,769	0	10,769	0	10,769	377	11,146	0
33	Aeration Tanks	15,861	0	15,861	0	15,861	555	16,416	0
34	Oxygen Supply	13,641	0	13,641	0	13,641	477	14,118	0
35	Compressor Bldg	3,610	0	3,610	0	3,610	126	3,736	0
36	Final Tanks	28,353	0	28,353	0	28,353	992	29,345	0
37	Elevated Water Tank	373	0	373	0	373	13	386	0
38	Scum Concentration Bldg	1,328	0	1,328	0	1,328	46	1,374	0
39	Sludge Thickener Bldg	16,652	0	16,652	0	16,652	583	17,235	0
40	Sludge Digestion Facilities	44,637	0	44,637	0	44,637	1,562	46,199	0
41	Composting Facility	0	0	0	0	0	0	0	0
42	Effluent Pumping Station	5,733	0	5,733	0	5,733	201	5,934	0

BOX 1 - CHECK OF COL 1 vs. TOTAL FROM "PLANT"

Line 56 Less Line 23 (Land not included in PLANT)				451,576
Less Depot 68 included in line 56 (from BOX 4)				(66,565)
Subtotal				385,011
Less Mag. Flow Meter				0
Total				385,011
Check from Plant Worksheet:	Plant-9	385,011,403	/1,000 =	385,011

BOX 2 - CWIP

Weighted Test Year Additions Plus CI and CFB:		
Projected Plant Additions		0
	Check	0
Weighted Test Year Additions Plus CI and CFB (Non-Abatement):		
Projected Plant Additions		0
		0
GRAND TOTAL.....	Check	0
	Total	0

BOX 4 - COMPOSTING FACILITIES, SLUDGE DEWATERING, NEW CENTRIFUGES

Investment related to composting operations includes:	Per Fixed Asset Listing $	Fixed Asset Listing Times Plant-9 1/0.809 To Include ""Soft Costs" (a) $
Investment at Depot 68	0	0
Subtotal	0	0
Investment related to sludge dewatering includes:		
Investment at Depot 68	42,257,310	52,234,005
Subtotal	42,257,310	52,234,005
Investment related to new centrifuges includes:		
Investment at Depot 68	11,593,734	14,330,944
Subtotal	11,593,734	14,330,944
Total Depot 68 Increased to Include "Soft Costs"	53,851,044	66,564,949

(a) This factor is 1 divided by the ratio of Construction Costs to Total Costs from the PWD Reimbursement Status Report supplied by Joe Clare on 10/7/99 (BD-28a). The difference between Construction Cost and Total Cost is "soft cost" representing engineering, design, and administrative costs not included in the fixed asset listing.

43	Outfall Conduit	0	0	0	0	0	0	0	0
44	Sludge Gas Facilities	10,399	0	10,399	0	10,399	364	10,763	0
45	Computer System		0	0	0	0	0	0	0
46	Admin. Bldg & General Improvements	2,897	0	2,897	0	2,897	101	2,998	0
47	Shop & Maintenance Bldg	3,276	0	3,276	0	3,276	115	3,391	0
48	Warehouse	1,922	0	1,922	0	1,922	67	1,989	0
49	Electrical Bldg	1,923	0	1,923	0	1,923	67	1,990	0
50	Site	22,496	0	22,496	0	22,496	787	23,283	0
51	New Centrifuges	14,331	0	14,331	0	14,331	501	14,832	0
52	Eng. Serv., Design, Testing		0	0	0	0	0	0	0
53	Dewatering Facilities	52,234	0	52,234	0	52,234	1,828	54,062	0
54	Grit & Ash Transfer Station		0	0	0	0	0	0	0
55	Total WPAP	279,534	0	279,534	0	279,534	9,780	289,314	0
56	TOTAL PLANT	452,240	0	452,240	0	452,240	15,822	468,062	0
	TEST VALUE		0						

BOX 3 - USED IN Spltallo-13

A&G Facilities	$ [Col. (7)]		
Sludge Thickener Bldg	17,235		
Total WPAP	289,314		
A&G:			
Computer System	0		
Administration Bldg	2,998		
Shop & Maint. Bldg	3,391		
Warehouse	1,989		
Electrical Bldg	1,990		
Site	23,283	TOTAL WPAP LESS A&G	255,663
Eng Serv, etc.	0	SLUDGE THICKENER BLDG	
		AS A % OF TOTAL WPAP	
Subtotal A&G	33,651	LESS A&G	6.7413%

==> A&G RELATED TO SLUDGE THICKENER BLDG:

6.74% x 33,651 = 2,269

File: SCOS23_24_ver1.xls Philadelphia Water Department (PWD) CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE Test Year 2024 Budget Yr 2023 Ver. 1a
SEInvest - Southeast Water Pollution Control Treatment PlP.N. 135647.0100 January 27, 2023 2:13 p.m. Spltallo-4
References:

SOUTHEAST WATER POLLUTION CONTROL TREATMENT PLANT INVESTMENT

Test Year 2024

Line No.	Description	(1) Preliminary 6/30/2022 Plant in Service $1,000 Plant-9	(2) Allocated Cap. Int. and Cap. Pension & Ben. $1,000	(3) Final 6/30/2022 Plant in Service $1,000 (1)+(2)	(4) Test Yr CWIP Plus Wt. Ad's to Plant in Service $1,000	(5) Subtotal Columns $1,000 (3)+(4)	(6) Allocate Test Year Common A&G $1,000 Spltallo-5	(7) FY 2024 Test Year Plant in Service $1,000
	WPCP (Non-Abatement)							
1	Main Pumping Station	1,071	0	1,071	0	1,071	37	1,108
2	Screen, Admin., Garage, Machine Shop, Grit Chmbrs & Collecting Channel	12,024	0	12,024	0	12,024	421	12,445
3	Settling tanks & Floc. Channel	7,211	0	7,211	0	7,211	252	7,463
4	Grease Building	0	0	0	0	0	0	0
5	Blower & Prim. Sludge Pump. Sta.	0	0	0	0	0	0	0
6	Sludge Force Main	4,852	0	4,852	0	4,852	170	5,022
7	Main Effluent Conduit	551	0	551	0	551	19	570
8	Compressor Building	0	0	0	0	0	0	0
9	Subtotal	25,709	0	25,709	0	25,709	899	26,608
	Admin. & Gen. Facilities							
10	Electrical Substation			0	0	0	0	0
11	Storage Building	945	0	945	0	945	33	978
	Land & Site Preparation	Ref. B						
12	Land	151	0	151	0	151	5	156
13	Site	24,155	0	24,155	0	24,155	845	25,000
14	Total Land & Site	24,306	0	24,306	0	24,306	850	25,156
15	Other	0	0	0	0	0	1	1
16	Subtotal A & G	25,251	0	25,251	0	25,251	884	26,135
17	Total WPCP (Non WPAP)	50,960	0	50,960	0	50,960	1,783	52,743
	WPAP							
18	Scum Concentration Facilities	2,727	0	2,727	0	2,727	95	2,822
19	Influent Pump Station and Screen & Grit Chamber	21,133	0	21,133	0	21,133	739	21,872
20	Effluent Conduit	11,227	0	11,227	0	11,227	393	11,620
21	Compressor Bldg	9,603	0	9,603	0	9,603	336	9,939
22	Effluent Pump Station	11,142	0	11,142	0	11,142	390	11,532
23	Sludge Handling Facilities	0	0	0	0	0	0	0
24	Sludge Force Main	1,882	0	1,882	0	1,882	66	1,948
25	Primary Sedimentation	20,467	0	20,467	0	20,467	716	21,183
26	Aeration	22,431	0	22,431	0	22,431	785	23,216
27	Final Sedimentation	25,234	0	25,234	0	25,234	883	26,117
28	Site	35,074	0	35,074	0	35,074	1,227	36,301
29	Computer Systems		0	0	0	0	0	0
30	Switchgear		0	0	0	0	0	0
31	Storage Building	837	0	837	0	837	29	866
32	Admin. Complex		0	0	0	0	0	0
33	Yard		0	0	0	0	0	0
34	Grease Bldg	0	0	0	0	0	0	0
35	Eng. Serv., Design, Testing		0	0	0	0	0	0
36	Total WPAP	161,757	0	161,757	0	161,757	5,659	167,416
37	TOTAL PLANT	212,717	0	212,717	0	212,717	7,442	220,159
			0					
	TOTAL CAP INTEREST ALLOCATED TO NE, SW, SE		0					
			0					

BOX 1 - CHECK OF COL 1 vs. TOTAL FROM PLANT WORKSHEET

Line 37 Less Line 12 (Land not included in PLANT worksheet)				212,566
Plus Collection Related				
Subtotal				212,566
Less Mains included (a)		1,882,052	/1,000 =	(1,882)
Total				210,684
Check from Plant Worksheet:	Plant-9	210,684,604	/1,000 =	210,685

(a) Work Order SD-435-SW is listed under sewer Mains in Fixed Asset listing. This project has been included under the SE Plant data here, and removed from the total value of sewer mains on page SPLTALLO5 of this file.

BOX 2 - CWIP

Weighted Test Year Additions Plus CI and CFB:	
Projected CWIP - WPAP	0
Projected CWIP - NON - WPAP	0
	0
Check	

References: A Spltallo-2, Spltallo-3, and Spltallo-4

FY 2024 TEST YEAR PLANT IN SERVICE

Line No.	Description	(1) (b) Total PIS @ 6/30/2022 $1,000 Ref. A BOX 1 & 4	(2) Test Yr CWIP Plus Wt. Add'ns to Plant in Service $1,000 BOX 3	(3) FY 2024 Test Year Plant in Service $1,000 (1) + (2)	(4) Allocated Commn A&G Allocate On Col. 3 Excluding Mains $1,000 BOX 4 & Plant-12	(5) FY 2024 Test Year Plant in Service Including Gen. Plant $1,000 (3) + (4)
1	Collection System - Mains (a)	1,822,166	0	1,822,166	1,816	1,823,982
2	- FHL Interceptor	0		0		0
3	Pumping	22,440		22,440	785	23,225
4	LTCP Investment	291,589	0	291,589		291,589
	Treatment					
	Non - WPAP					
5	Northeast (NE)	193,105	0	193,105	6,756	199,861
6	Southeast (SE)	50,960	0	50,960	1,783	52,743
7	Southwest (SW)	172,706	0	172,706	6,042	178,748
8	Frankford Grit Chamber	0		0	0	0
9	Total Non - WPAP	416,771	0	416,771	14,581	431,352
	WPAP					
10	Northeast (NE)	318,816	0	318,816	11,156	329,972
11	Southeast (SE)	161,757	0	161,757	5,659	167,416
12	Southwest (SW)	279,534	0	279,534	9,780	289,314
13	Total WPAP	760,107	0	760,107	26,595	786,702
14	Total Treatment	1,176,878	0	1,176,878	41,176	1,218,054
15	Subtotal All Above	3,313,073	0	3,313,073	43,777	3,356,850
16	Common A&G Investment Plant-12 & below	43,777		43,777		
17	Total Plant	3,356,850	0	3,356,850	43,777	3,356,850

(a) Includes collection system building and related
(b) Includes land

BOX 1 - COLLECTIONS	$
Plant in Service at 6/30/2022	
Collections - Mains	
Sewer Maint. (Plant-10)	40,771,172
Other Collection	0
Mains, $1,712,279,854, Less Mains Included with SE WPCP, $1,882,052, see Spltallo-4	1,781,395,202
Subtotal	1,822,166,374
FHL Interceptor (Spltallo-2)	0
Pumping	22,439,749

BOX 3a - Collection System CWIP

Weighted Test Year Additions Plus CI and CFB:

PC-30 Construction (Sewer Portion Only)	0
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
	0

BOX 3b - Collection System CWIP

Weighted Test Year Additions Plus CI and CFB:

xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
xxxxxxxxxxxxxxx	
	0

BOX 4 - Land not included in previous files/worksheets

Description	Cost $1,000
Sewer Maintenance Yard	19
Frankford Grit	14
Central Schuylkill PS	10
Neill Dr PS	1
Ford Rd PS	1
42nd St PS	1
Mill Cr Flood Control	142
Frankford Cr Flood Control	477
2925 E. Castor Ave	703
NE Corner Fox & Roberts	448
**********	
**********	
**********	
**********	
Total - Include with General Plant, Mains	1,816

Table_WW-9A

ALLOCATION OF TEST YEAR INVESTMENT FOR THE NORTHEAST WATER POLLUTION CONTROL PLANT TO FUNCTIONAL COST COMPONENTS
Test Year 2024

Line No.	Description	Col. (1) Reference	(1) Total Investment	(2) Retail, Abington, Bensalem, Bucks Cty W&SA, Lower Moreland, and Lower Southampton Capacity	(3) Retail, Abington, Bensalem, Bucks Cty W&SA, Cheltenham, Lower Moreland, and Lower Southampton Volume	(4) Capacity	(5) Suspended Solids	(6) BOD	Basis of Allocation
			$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	
	NON-WATER POLLUTION ABATEMENT PROGRAM FACILITIES								
1	Preliminary Treatment Facilities	Spltallo-2, Ln 2	0			0			100% Capacity
2	Primary Sedimentation Basins	Spltallo-7	5,677		5,677				100% Volume
3	Pumping Station	Spltallo-2, Ln 3	1,370			1,370			100% Capacity
4	Aeration Facilities	Spltallo-7	18,758					18,758	100% BOD
5	Primary Sludge Pumps	Spltallo-7	1,259				1,259		100% SS
6	Scum Ejectors	Spltallo-7	197				197		100% SS
7	Effluent Conduit	Spltallo-2, Ln 10	0			0			100% Capacity
8	Final Sedimentation Basins	Spltallo-7	9,873		9,873				100% Volume
9	Recirculation Pumps	Spltallo-7	1,777		1,777				100% Volume
10	Digesters	Spltallo-7	19,325				14,494	4,831	75% SS - 25% BOD
11	Sludge Dewatering	Spltallo-2,Ln 8 & Spltallo-20,Ln 171	49,711				37,283	12,428	75% SS - 25% BOD
12	Centrifuge System	Spltallo-2, Ln 9	0				0	0	75% SS - 25% BOD
13	Sludge Lagoons	Spltallo-2, Ln 7	0				0	0	75% SS - 25% BOD
14	Frankford Grit Chamber	Spltallo-2, Ln 1	0			0			100% Capacity
15	Chlorination Facilities	Spltallo-2, Ln 11	5,160			5,160			100% Capacity
16	Aeration Tank No. 1	Spltallo-2, Ln 12	2,667					2,667	100% BOD
17	Sludge Thickener Building	Spltallo-2, Ln 13	10,569				5,285	5,284	50% SS - 50% BOD
18	Sludge Transfer Station	Spltallo-2, Ln 14	286				215	71	75% SS - 25% BOD
19	Loading Terminal/Barges	Spltallo-2, Ln 15	6,706				5,030	1,676	75% SS - 25% BOD
20	Subtotal All Above		133,335	0	17,327	6,530	63,763	45,715	
	Administrative and General Facilities								
21	Administrative and General Plant	Spltallo-2, Ln 27 - Ln 22	65,581						
22	Land	Spltallo-2, Ln 22	945						
23	Subtotal		66,526	1,544	14,406	5,960	22,921	21,695	Allocated based on TOTAL NE WPCP INVESTMENT
24	Total Non-Water Pollution Abatement Program Facilities		199,861	1,544	31,733	12,490	86,684	67,410	

	WATER POLLUTION ABATEMENT PROGRAM FACILITIES									
25	New Preliminary Treatment Building	Spltallo-2, Ln 35	41,022	10,256		30,766			100% Capacity	
26	Primary Sedimentation Tanks Modifications	Spltallo-2, Ln 37	52,780		52,780				100% Volume	
27	Blower Building	Spltallo-2, Ln 41	16,552					16,552	100% BOD	
28	Aeration Tank No. 1	Spltallo-2, Ln 31	38,591					38,591	100% BOD	
29	New Aeration Tanks	Spltallo-2, Ln 43	0					0	100% BOD	
30	Chlorination Facilities	Spltallo-2, Ln 36	0			0			100% Capacity	
31	New Scum Disposal Facilities	Spltallo-2, Ln 38	0				0		100% SS	
32	New Sludge Thickener Building	Spltallo-2, Ln 39	41,249				20,625	20,624	50% SS - 50% BOD	
33	Effluent Conduits	Spltallo-2, Ln 45	2,291			2,291			100% Capacity	
34	New Final Sedimentation Tanks	Spltallo-2, Ln 40	25,574		25,574				100% Volume	
35	Sludge Digestion System Modifications	Spltallo-2, Ln 33	34,438				25,829	8,609	75% SS - 25% BOD	
36	Sludge Residue Fusion Plant	Spltallo-2, Ln 34	0				0	0	75% SS - 25% BOD	
37	New Centrifuge Building	Spltallo-2, Ln 44	0				0	0	75% SS - 25% BOD	
38	Composting Facilities	Spltallo-18,Ln 119	0				0	0	75% SS - 25% BOD	
39	Sludge Dewatering	Spltallo-18,Ln 145	26,096				19,572	6,524	75% SS - 25% BOD	
40	Frankford High Level Interceptor	(a)	0			0			100% Capacity	(a) Included under Collection System on Spltallo-5.
41	Sludge Transfer Station	Spltallo-2, Ln 46	24,457				18,343	6,114	75% SS - 25% BOD	
42	Loading Terminal/Barges	Spltallo-2, Ln 48	5,474				4,106	1,368	75% SS - 25% BOD	
43	Sludge Cake Staging Pad	Spltallo-2, Ln 47	0				0	0	75% SS - 25% BOD	
44	Subtotal		308,524	10,256	78,354	33,057	88,475	98,382		
45	Admin. and General Facili	Spltallo-2,Ln50-[Spltallo-6,Lns 25-37+Lns 40-43]	47,544	1,104	10,295	4,260	16,381	15,504	Allocated based on TOTAL NE WPCP INVESTMENT	
46	Adjustment for Joint Use Facilities	Spltallo-18, Ln 123 & 149	3,435				2,576	859		
47	Total Water Pollution Abatement Program facilities		359,503	11,360	88,649	37,317	107,432	114,745		
48	TOTAL NORTHEAST WPC PLANT BOOK COST		559,364	12,904	120,382	49,807	194,116	182,155		
49	Less Federal Grants	Spltallo-8	238,122	7,825	59,785	25,223	69,544	75,745		
50	ADJUSTED TOTAL NORTHEAST WPC PLANT INVESTMENT		321,242	5,079	60,597	24,584	124,572	106,410		
			100.0%	1.6%	18.9%	7.7%	38.8%	33.1%		

File: SCOS23_24_ver1.xls Philadelphia Water Department (PWD) CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE Test Year 2024 Budget Yr 2023 Ver. 1a
NEALLO2 - Allocation of Test Year Investment for the NE P.N. 135647.0100 January 27, 2023 2:13 p.m. Spltallo-7

BOX 1 - CALCULATION OF LINES 2, 4 THRU 6, 8 THRU 10

	EPA Cost Estimates $1,000 PN 12065.100, Co(?) 15.3	Spread TY Plant on EPA Estimates
Primary Sedimentation Basins	1,150	5,677
Aeration Facilities		
Aeration Basins	2,500	
Blower Bldg. (Blowers)	1,300	
Subtotal	3,800	18,758
Primary Sludge Pumps		
Primary Basins Sludge Pumps	190	
"B" Road Pump Station	65	
Subtotal	255	1,259
Blower Bldg. (Scum Ejectors)	40	197
Final Sedimentation Basins	2,000	9,873
Recirculation Pumps		
Blower Bldg (Return Sludge Pmps)	260	
"C" Road Pump Station	100	
Subtotal	360	1,777
Digesters		
Sludge Digestion	3,900	
Blower Bldg (Supernatant Tanks)	15	
Subtotal	3,915	19,325
TOTAL	11,520	56,866
TEST YEAR PLANT	Spltallo-2	
Settling and Aeration Tanks	47,198	
Blower Bldg, Supernatant Tank Prim		
Sldge Hse & Scum Ejector Bldg	2,793	
Sludge Digestion System	6,875	
TOTAL	56,866	0

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NEALLO3 - NE WPCP Alloc of Federal Grants For WPA1P.N. 135647.0100 January 27, 2023 2:13 p.m. Spltallo-8

NORTHEAST WPC PLANT ALLOCATION OF ESTIMATED TEST YEAR FEDERAL GRANTS FOR WPAP PROJECTS

Line No.	Description	Col. (1) Reference	(1) Average Test Year Net Book Cost (a) $1,000	(2) Total Federal Grants @ 70.3% Percent $1,000 (1)*70.3% (d)	(3) Retail,Abington, Bensalem, Bucks Cty W&SA, Lower Moreland, and Lower Southampton - Capacity $1,000	(4) Retail, Abington, Bensalem, Bucks Cty W&SA, Cheltenham, Lower Moreland, and Lower Southampton Volume $1,000	(5) Capacity $1,000	(6) Suspended Solids $1,000	(7) BOD $1,000	Basis of Allocation		
	WATER POLLUTION ABATEMENT PROGRAM FACILITIES											
1	New Preliminary Treatment Building	Spltallo-2, Ln 35	39,635	27,863	6,966		20,897			100% Capacity	27,863	0
2	Primary Sedimentation Tanks Modifications	Spltallo-2, Ln 37	50,996	35,850		35,850				100% Volume	35,850	0
3	Blower Building	Spltallo-2, Ln 41	15,992	11,242					11,242	100% BOD	11,242	0
4	Aeration Tank No. 1	Spltallo-2, Ln 31	37,286	26,212					26,212	100% BOD	26,212	0
5	New Aeration Tanks	Spltallo-2, Ln 43	0	0					0	100% BOD	0	0
6	Chlorination Facilities	Spltallo-2, Ln 36	0	0			0			100% Capacity	0	0
7	New Scum Disposal Facilities	Spltallo-2, Ln 38	0	0				0		100% SS	0	0
8	New Sludge Thickener Building	Spltallo-2, Ln 39	39,854	28,017				14,009	14,008	50% SS - 50% BOD	28,017	0
9	Effluent Conduits	Spltallo-2, Ln 45	2,214	1,556			1,556			100% Capacity	1,556	0
10	New Final Sedimentation Tanks	Spltallo-2, Ln 40	24,709	17,370		17,370				100% Volume	17,370	0
11	Sludge Digestion System Modifications	Spltallo-2, Ln 33	33,274	23,392				17,544	5,848	75% SS - 25% BOD	23,392	0
12	Sludge Residue Fusion Plant	Spltallo-2, Ln 34	0	0				0	0	75% SS - 25% BOD	0	0
13	New Centrifuge Building	Spltallo-2, Ln 44	0	0				0	0	75% SS - 25% BOD	0	0
14	Composting Facilities(b)	Spltallo-18, Ln 107	0	0				0	0	75% SS - 25% BOD	0	0
15	Sludge Dewatering(b)	Spltallo-19, Ln 133	25,213	18,027				13,521	4,506	75% SS - 25% BOD	7,996	10,031
16	Frankford High Level Interceptor	Spltallo-6, Ln 40	0	0			0			100% Capacity	0	0
17	Sludge Transfer Station	Spltallo-2, Ln 46	23,630	16,612				12,459	4,153	75% SS - 25% BOD	16,612	0
18	Loading Terminal/Barges	Spltallo-2, Ln 48	5,289	3,718				2,789	929	75% SS - 25% BOD	3,718	0
19	Sludge Cake Staging Pad	Spltallo-2, Ln 47	0	0				0	0	75% SS - 25% BOD	0	0
20	Subtotal		298,092	209,859	6,966	53,220	22,453	60,322	66,898		199,828	10,031
21	Admin. and Gen'l Facilities											
22	Receiving 3% Federal Grants (e)	3%	9,514	285	9	72	30	82	92		285	0
23	All Other	(Spltallo-2,Lns 29,30,32,42,49) - Ln22	36,423	25,605	850	6,493	2,740	7,360	8,162		25,643	(38)
24	Total Admin. and Gen'l Facilities		45,937	25,890	859	6,565	2,770	7,442	8,254		25,928	(38)
25	Adjust. for Joint Use Facili	Spltallo-18, Ln 111 & Spltallo-19 Ln 137	3,319	2,373				1,780	593		1,184	1,189
26	Total Water Poll. Abatement Prog. Facilities		347,348	238,122	7,825	59,785	25,223	69,544	75,745		226,940	11,182
				238,122	Check							

(a) Excludes allocated pension & benefits, capitalized interest, and general plant.
(b) Includes allocated portion of SWWPCP facilities. 0 Include CWIP
(c) Prior to adjustment for allocated portion of SWWPCP A&G.
(d) Federal grant Reimbursement Status Report received 10/7/99 from Joe Clare (BD-28a). Also filed with Support calcs for this study.
(e) $9,514,300.0 of the WPAP facilities received only about 3% federal grants, per Joe Clare 10/7/99 email to JRM (BD-28). Also filed with Support calcs for this study.

Table_WW-9B

ALLOCATION OF TEST YEAR INVESTMENT FOR THE SOUTHWEST WATER POLLUTION CONTROL PLANT TO FUNCTIONAL COST COMPONENTS
Test Year 2024

Line No.	Description	Col. (1) Reference		(1) Total Investment $1,000	(2) Retail - Capacity $1,000	(3) Volume $1,000	(4) Capacity $1,000	(5) Suspended Solids $1,000	(6) BOD $1,000	Basis of Allocation	
						Retail, DELCORA, Lower Merion, Springfield (excluding Wyndmoor), and Upper Darby					
	NON-WATER POLLUTION ABATEMENT PROGRAM FACILITIES										
1	Raw Wastewater Pumping Station	Spltallo-3	Ln 1	12,730	12,730					100% Capacity	
2	Sludge Digestion Facilities	Spltallo-21	Ln 195	11,863				8,656	3,207	75% SS - 25% BOD	
3	Sludge Disposal Facilities	Spltallo-20	Ln 173	0				0	0	75% SS - 25% BOD	
4	Scum Incineration	Spltallo-3	Ln 2	0				0		100% SS	SS/BOD 210
5	Outfall Line	Spltallo-3	Ln 9	0			0			100% Capacity	
6	Settling Tanks	Spltallo-3	Ln 3	35,185		35,185				100% Volume	
7	Sludge Handling	Spltallo-3	Ln 4	7,397				5,548	1,849	75% SS - 25% BOD	
8	Chlorination Facilities	Spltallo-3	Ln 10	1,217			1,217			100% Capacity	
9	Dewatering Facilities	Spltallo-3	Ln 11	0				0	0	75% SS - 25% BOD	
10	Aeration Tanks	Spltallo-3	Ln 12	701					701	100% BOD	
11	Oxygen Supply	Spltallo-3	Ln 13	3,637					3,637	100% BOD	
12	Effluent Pump Station	Spltallo-3	Ln 14	1,566			1,566			100% Capacity	
13	Sludge Thickener Building	Spltallo-3	Ln 15	1,615				808	807	50% SS - 50% BOD (a)	
14	Composting Facilities	Spltallo-3	Ln 16	716				537	179	75% SS - 25% BOD (a)	
15	Sludge Gas Facilities	Spltallo-3	Ln 17	12,078				9,059	3,019	75% SS - 25% BOD (a)	
16	Subtotal			88,705	12,730	35,185	2,783	24,608	13,399		
	Administrative and General Facilities										
17	Administrative and General Plant	Spltallo-3	Ln 28 - Ln 23	83,629							
18	Land	Spltallo-3	Ln 23	687							
19	Subtotal			84,316	5,797	23,017	8,835	24,847	21,820	Allocated based on TOTAL SW WPCP INVESTMENT	
20	Adjustment for Joint Use Facilities	Spltallo-20, Ln 176 & Spltallo-21 Ln 198		(5,114)				(4,051)	(1,063)		
21	Total Non-Water Pollution Abatement Program Facilities			167,907	18,527	58,202	11,618	45,404	34,156		

	WATER POLLUTION ABATEMENT PROGRAM FACILITIES										
22	Influent Pumping Station	Spltallo-3	Ln 30	6,328	6,328					100% Capacity	
23	Preliminary Treatment Building	Spltallo-22	Ln 217	20,330			20,330			100% Capacity (a)	
24	Primary Sedimentation Tanks	Spltallo-3	Ln 32	11,146		11,146				100% Volume	
25	Aeration Tanks	Spltallo-3	Ln 33	16,416					16,416	100% BOD	SS/BOD 210
26	Oxygen Supply System	Spltallo-3	Ln 34	14,118					14,118	100% BOD	SS/BOD 210
27	Compressor Building	Spltallo-3	Ln 35	3,736					3,736	100% BOD	SS/BOD 210
28	Final Tanks	Spltallo-3	Ln 36	29,345		29,345				100% Volume	SS/BOD 210
29	Scum Concentration Building	Spltallo-3	Ln 38	1,374				1,374		100% SS	SS/BOD 210
30	Sludge Thickener Building	Spltallo-13	Ln 17	12,568				6,284	6,284	50% SS - 50% BOD (a)	
31	Sludge Digestion Facilities	Spltallo-15	Ln 43	31,156				22,733	8,423	75% SS - 25% BOD (a)	
32	Effluent Pumping Station	Spltallo-3	Ln 42	5,934			5,934			100% Capacity	
33	Outfall Conduit	Spltallo-3	Ln 43	0			0			100% Capacity	
34	New Centrifuges	Spltallo-17	Ln 95	10,002				7,298	2,704	75% SS - 25% BOD (a)	
35	Composting Facilities	Spltallo-18	Ln 121	0				0	0	75% SS - 25% BOD (a)	
36	Sludge Dewatering	Spltallo-19	Ln 147	18,797				14,098	4,699	75% SS - 25% BOD (a)	
37	Sludge Gas Facilities	Spltallo-16	Ln 69	7,259				5,296	1,963	75% SS - 25% BOD (a)	
38	Grit & Ash Transfer Station	Spltallo-23	Ln 243	0			0			100% Capacity (a)	
39	Subtotal			188,509	6,328	40,491	26,264	57,083	58,343		
40	Admin. and Gen'l. Facilities	See note (b)		34,037	2,340	9,292	3,566	10,030	8,809	Allocated based on TOTAL SW WPCP INVESTMENT	
41	Adjust. for Joint Use Facilities	See note (c)		(8,788)			(455)	(6,226)	(2,107)		
42	Total Water Pollution Abatement Program Facilities			213,758	8,668	49,783	29,375	60,887	65,045		
43	TOTAL SOUTHWEST WPC PLANT BOOK COST			381,665	27,195	107,985	40,993	106,291	99,201		
44	Less Federal Grants	Spltallo-10		147,405	5,152	32,966	21,067	42,173	46,047		
45	ADJUSTED TOTAL SOUTHWEST WPC PLANT INVESTMENT			234,260	22,043	75,019	19,926	64,118	53,154		
				234,260	Check						
				100.00%	9.4%	32.0%	8.5%	27.4%	22.7%		

(a) Reflects weighting due to joint use facilities.
(b) Spltallo-3, Lns 45..50, 52
(c) Spltallo-13, Lns 20,46,72,98,123,124,149,150
and Spltallo-22 & Spltallo-23, Lns 220 and 246

File: SCOS23_24_ver1.xls Philadelphia Water Department (PWD) CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE Test Year 2024 Budget Yr 2023 Ver. 1a
SWALLO2 - SW WPCP Alloc of Federal Grants For WPA P.N. 135647.0100 January 27, 2023 2:13 p.m. Spltallo-10

SOUTHWEST WPC PLANT ALLOCATION OF ESTIMATED TEST YEAR FEDERAL GRANTS FOR WPAP PROJECTS

Line No.	Description	Col. (1) Reference	(1) Average Test Year Net Book Cost (a) $1,000	(2) Total Federal Grants @ 71.5% Percent $1,000 (1)*71.5% (g)	(3) Retail - Capacity $1,000	(4) Retail, DELCORA, Lower Merion, Springfield (excluding Wyndmoor), and Upper Darby Volume $1,000	(5) Capacity	(6) Suspended Solids	(7) BOD	Basis of Allocation	
	WATER POLLUTION ABATEMENT PROGRAM FACILITIES										
1	Influent Pumping Station	Spltallo-3, Ln 30	6,114	4,372	4,372					100% Capacity	
2	Preliminary Treatment Building (b)	Spltallo-22 Ln203	19,643	14,044			14,044			100% Capacity (d)	
3	Primary Sedimentation Tanks	Spltallo-3, Ln 32	10,769	7,700		7,700				100% Volume	
4	Aeration Tanks	Spltallo-3, Ln 33	15,861	11,341					11,341	100% BOD	SS/BOD 210
5	Oxygen Supply System	Spltallo-3, Ln 34	13,641	9,753					9,753	100% BOD	SS/BOD 210
6	Compressor Building	Spltallo-3, Ln 35	3,610	2,581					2,581	100% BOD	SS/BOD 210
7	Final Tanks	Spltallo-3, Ln 36	28,353	20,272		20,272				100% Volume	SS/BOD 210
8	Scum Concentration Building	Spltallo-3, Ln 38	1,328	950				950		100% SS	SS/BOD 210
9	Sludge Thickener Building (b)	Spltallo-13,Ln 4	12,142	8,682				4,341	4,341	50% SS - 50% BOD (d)	
10	Sludge Digestion Facilities (b)	Spltallo-15,Ln 30	30,103	21,523				15,704	5,819	75% SS - 25% BOD (d)	
11	Effluent Pumping Station	Spltallo-3, Ln 42	5,733	4,099			4,099			100% Capacity	
12	Outfall Conduit	Spltallo-3, Ln 43	0	0			0			100% Capacity	
13	New Centrifuges (b)	Spltallo-17,Ln 82	9,665	6,910				5,042	1,868	75% SS - 25% BOD (d)	
14	Composting Facilities (b)	Spltallo-18,Ln 108	0	0				0	0	75% SS - 25% BOD (d)	
15	Sludge Dewatering (b)	Spltallo-19,Ln 134	18,161	12,986				9,739	3,247	75% SS - 25% BOD (d)	
16	Sludge Gas Facilities (b)	Spltallo-16, Ln 56	7,013	5,014				3,658	1,356	75% SS - 25% BOD (d)	
17	Grit and Ash Transfer Station (b)	Spltallo-23, Ln229	0	0			0			100% Capacity (d)	
18	Subtotal		182,136	130,227	4,372	27,972	18,143	39,434	40,306		
19	Admin. and Gen'l. Facilities (c)	See note (e)	32,514	23,248	780	4,994	3,239	7,040	7,195		
20	Adjustment for Joint Use Facilities	See note (f)	(8,492)	(6,070)			(315)	(4,301)	(1,454)		
21	Total Water Poll. Abatement Prog. Facilities		206,158	147,405	5,152	32,966	21,067	42,173	46,047		
				147,405	Check						

(a) Excludes allocated pension & benefits, capitalized interest and general plant.
(b) Includes allocated portion of SWWPCP facilities. 0 Include CWIP
(c) Prior to adjustment for allocated portion of SWWPCP A&G.
(d) Reflects weighting due to joint use facilities.
(e) Spltallo-3, Lns 45..50, 52, Cols (1) + (4)
(f) Spltallo-13, Ln 8; Spltallo-15, Ln 34; Spltallo-16 Ln 60; Spltallo-17, Ln 86; Spltallo-18, Lns 111 & 112; Spltallo-19, Lns 137 & 138; Spltallo-22, Ln 208; and Spltallo-23, Ln 234
(g) Federal grant Reimbursement Status Report received 10/7/99 from Joe Clare (BD-28a). Also filed with Support calcs for this study.

Table_WW-9C

ALLOCATION OF TEST YEAR INVESTMENT FOR THE SOUTHEAST WATER POLLUTION CONTROL PLANT TO FUNCTIONAL COST COMPONENTS
Test Year 2024

BOX 1 - CHECK OF TOTAL TREATMENT PLANT

	Spltallo-2,3,4 $	Spltallo-6,9,11 $
NE WPCP	529,833	559,364
SW WPCP	468,062	381,665
SE WPCP	220,159	277,025
Total	1,218,054	1,218,054
Error		0

Line No.	Description	Col. (1) Reference	(1) Total Investment $1,000	(2) Volume $1,000	(3) Capacity $1,000	(4) Suspended Solids $1,000	(5) BOD $1,000	Basis of Allocation	
			Retail and Springfield (Wyndmoor)						
	NON-WATER POLLUTION ABATEMENT PROGRAM FACILITIES								
1	Main Pumping Station	Spltallo-4, Ln 1	1,108		1,108			100% Capacity	
2	Grit Chambers	Spltallo-4, Ln 2	12,445		12,445			100% Capacity	
3	Grease Building	Spltallo-4, Ln 4	0			0		100% SS	
4	Outfall Line	Spltallo-4, Ln 7	570		570			100% Capacity	
5	Sludge Digestion Facilities	Spltallo-21,Ln 194	5,727			4,537	1,190	75% SS - 25% BOD	
6	Sludge Disposal Facilities	Spltallo-20,Ln 172	0			0	0	75% SS - 25% BOD	
7	Settling Tanks & Floc. Channel	Spltallo-4, Ln 3	7,463	7,463				100% Volume	
8	Compressor Building	Spltallo-4, Ln 8	0				0	100% BOD	
9	Sludge Force Main	Spltallo-4, Ln 6	5,022			3,767	1,255	75% SS - 25% BOD	
10	Subtotal		32,335	7,463	14,123	8,304	2,445		
	Administrative and General Facilities								
11	Administrative and General Plant	Spltallo-4,Ln 16 - Spltallo-11, Ln 12	25,979						
12	Land	Spltallo-4, Ln 12	156						
13	Subtotal		26,135	7,042	8,050	5,184	5,859	Allocated based on TOTAL SE WPCP INVESTMENT	
14	Adjustment for Joint Use Facilities	Spltallo-20,Ln 176 & Spltallo-21, Ln 198	5,114			4,051	1,063		
15	Total Non-Water Pollution Abatement Program Facilities		63,584	14,505	22,173	17,539	9,367		
	WATER POLLUTION ABATEMENT PROGRAM FACILITIES								
16	Influent Pump. Stat. and Screen & Grit Chamber	Spltallo-4, Ln 19	21,872		21,872			100% Capacity	
17	Primary Sedimentation Tanks	Spltallo-4, Ln 25	21,183	21,183				100% Volume	
18	Compressor Building	Spltallo-4, Ln 21	9,939				9,939	100% BOD	
19	Air Supply Facilities	Spltallo-4, Ln 26	23,216				23,216	100% BOD	
20	Final Sedimentation	Spltallo-4, Ln 27	26,117	26,117				100% Volume	
21	Effluent Pumping Station	Spltallo-4, Ln 22	11,532		11,532			100% Capacity	
22	Effluent Conduit	Spltallo-4, Ln 20	11,620		11,620			100% Capacity	
23	Scum Concentration Facilities	Spltallo-4, Ln 18	2,822			2,822		100% SS	
24	Grease Building	Spltallo-4, Ln 34	0			0		100% SS	
25	Sludge Handling Facilities	Spltallo-4, Ln 23	0			0	0	75% SS - 25% BOD	
26	Sludge Force Main	Spltallo-4, Ln 24	1,948			1,461	487	75% SS - 25% BOD	
24a	Preliminary Treatment Bldg.	Spltallo-22, Ln216	3,459		3,459			100% Capacity (a)	x
27	Sludge Thickeners	Spltallo-13, Ln 16	4,667			2,334	2,333	50% SS - 50% BOD (a)	
28	Sludge Digesters	Spltallo-15, Ln 42	15,043			11,916	3,127	75% SS - 25% BOD (a)	
29	Sludge Disposal Facilities	Spltallo-17, Ln 94	4,830			3,826	1,004	75% SS - 25% BOD (a)	
30	Composting Facilities	Spltallo-18, Ln 120	0			0	0	75% SS - 25% BOD (a)	
31	Sludge Dewatering	Spltallo-19, Ln 146	9,169			6,877	2,292	75% SS - 25% BOD (a)	
29a	Grit and Ash Transfer Station	Spltallo-23, Ln242	0		0			100% Capacity (a)	x
32	Sludge Gas Facilities	Spltallo-16, Ln 68	3,504			2,776	728	75% SS - 25% BOD (a)	
33	Subtotal		170,921	47,300	48,483	32,012	43,126		
34	Admin. and Gen'l. Facilities	Spltallo-4, Ln 36 - Spltallo-11, Lns 16...26	37,167	10,014	11,448	7,372	8,333	Allocated based on TOTAL SE WPCP INVESTMENT	
35	Adjustment for Joint Use Facilities	See note (b)	5,353		455	3,650	1,248		
36	Total Water Pollution Abatement Program Facilities		213,441	57,314	60,386	43,034	52,707		
37	TOTAL SOUTHEAST WPC PLANT BOOK COST		277,025	71,819	82,559	60,573	62,074		
38	Less Federal Grants	Spltallo-12	144,379	38,680	40,041	29,319	36,339		
39	ADJUSTED TOTAL SOUTHEAST WPC PLANT INVESTMENT		132,646	33,139	42,518	31,254	25,735		
			132,646	check					
			100.00%	25.0%	32.1%	23.6%	19.4%		

(a) Reflects weighting due to joint use facilities.
72, 98, 124, and 150, Spltallo-22 Ln 220 and Spltallo-23 Ln 246.

File: SCOS23_24_ver1.xls Philadelphia Water Department (PWD) CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE Test Year 2024 Budget Yr 2023 Ver. 1a
SEALLO2 - SE WPCP Alloc of Federal Grants For WPAP P.N. 135647.0100 January 27, 2023 2:13 p.m. Spltallo-12

SOUTHEAST WPC PLANT ALLOCATION OF ESTIMATED TEST YEAR FEDERAL GRANTS FOR WPAP PROJECTS

Line No.	Description	Col. (1) Reference	(1) Average Test Year Net Book Cost (a) $1,000	(2) Total Federal Grants @ 69.6% Percent $1,000 (1)*69.6% (g)	(3) Retail and Springfield (Wyndmoor) Volume $1,000	(4) Capacity $1,000	(5) Suspended Solids $1,000	(6) BOD $1,000	Basis of Allocation
	WATER POLLUTION ABATEMENT PROGRAM FACILITIES								
1	Influent Pump. Sta. & Screen & Grit Chamber	Spltallo-4, Ln 19	21,133	14,709		14,709			100% Capacity
2	Primary Sedimentation Tanks	Spltallo-4, Ln 25	20,467	14,245	14,245				100% Volume
3	Compressor Building	Spltallo-4, Ln 21	9,603	6,684				6,684	100% BOD
4	Air Supply Facilities	Spltallo-4, Ln 26	22,431	15,612				15,612	100% BOD
5	Final Sedimentation	Spltallo-4, Ln 27	25,234	17,563	17,563				100% Volume
6	Effluent Pumping Station	Spltallo-4, Ln 22	11,142	7,755		7,755			100% Capacity
7	Effluent Conduit	Spltallo-4, Ln 20	11,227	7,814		7,814			100% Capacity
8	Scum Concentration Facilities	Spltallo-4, Ln 18	2,727	1,898			1,898		100% SS
9	Grease Building	Spltallo-4, Ln 34	0	0			0		100% SS
10	Sludge Handling Facilities	Spltallo-4, Ln 23	0	0			0	0	75% SS - 25% BOD
11	Sludge Force Main	Spltallo-4, Ln 24	1,882	1,310			983	327	75% SS - 25% BOD
11a	Preliminary Treatment Bldg. (b)	Spltallo-22, Ln 202	3,342	2,390		2,390			100% Capacity (d)
12	Sludge Thickeners(b)	Spltallo-13, Ln 3	4,510	3,224			1,612	1,612	50% SS - 50% BOD (d)
13	Sludge Digesters(b)	Spltallo-15, Ln 29	14,534	10,392			8,232	2,160	75% SS - 25% BOD (d)
14	Sludge Disposal Facilities(b)	Spltallo-17, Ln 81	4,666	3,337			2,643	694	75% SS - 25% BOD (d)
15	Composting Facilities(b)	Spltallo-18, Ln 107	0	0			0	0	75% SS - 25% BOD (d)
16	Sludge Dewatering(b)	Spltallo-19, Ln 133	8,859	6,334			4,751	1,583	75% SS - 25% BOD (d)
16a	Grit and Ash Transfer Station	Spltallo-23, Ln 228	0	0		0			100% Capacity (d)
17	Sludge Gas Facilities(b)	Spltallo-16, Ln 55	3,386	2,421			1,918	503	75% SS - 25% BOD (d)
18	Subtotal		165,143	115,688	31,808	32,668	22,037	29,175	
19	Admin. and Gen'l. Facilities(c)	See note (e)	35,911	24,994	6,872	7,058	4,761	6,303	
20	Adjustment for Joint Use Facilities	See note (f)	5,173	3,697		315	2,521	861	
21	Total Water Poll. Abatement Prog. Facilities		206,227	144,379	38,680	40,041	29,319	36,339	
				144,379	Check				

(a) Excludes allocated pension & benefits, capitalized interest and general plant.
(b) Includes allocated portion of SWWPCP facilities.
(c) Prior to adjustment for allocated portion of SWWPCP A&G.
(d) Reflects weighting due to joint use facilities.
(e) Spltallo-4, Lns 28..33, 35
(f) Spltallo-13, Lns 8, 34, 60, 86, 112, and 138; Spltallo-22 Ln 208, and Spltallo-23 Ln 234
(g) Federal grant Reimbursement Status Report received 10/7/99 from Joe Clare (BD-28a). Also filed with Support calcs for this study.

Include CWIP: 1

SOUTHWEST PLANT INVESTMENT
ALLOCATED TO NE AND SE PLANTS

Line No.	Facility Description		(1) Total Investment $1,000 (2) + (3)	(2) Suspended Solids $1,000	(3) BOD $1,000	Basis of Allocation
	WPAP Plant - Sludge Thickener Facilities					
1	Book Cost Before Allocated A&G (a)		Spltallo-3, Ln 39 17,235	8,618	8,617	50% SS - 50% BOD
2	Book Cost Subject to Federal Grant		Spltallo-3, Ln 39 16,652	8,326	8,326	50% SS - 50% BOD
3	Estimated Federal Grant - %		71.5%	71.5%	71.5%	Spltallo-10
4	Estimated Federal Grant		11,906	5,953	5,953	Ln 2 x Ln 3
5	Net Book Cost Before Alloc. A&G		5,329	2,665	2,664	Ln 1 - Ln 4
6	A&G Facilities(a)		Spltallo-3, BOX 3 2,269	1,135	1,134	50% SS - 50% BOD
			Spltallo-3, BOX 3	(Same calc. using data from col. (1) + (4))		
7	A&G subject to Federal Grant(b)		2,192	1,096	1,096	50% SS - 50% BOD
8	Estimated Federal Grant - % (c)		71.5%	71.5%	71.5%	Spltallo-10
9	Estimated Federal Grant		1,567	784	783	Ln 7 x Ln 8
10	Net A&G Facilities (a)		702	351	351	Ln 6 - Ln 9
11	Net Book Cost including A&G (a)		6,031	3,016	3,015	Ln 5 + Ln 10
12	Percent Allocable to:	NEWPCP		0.00%	0.00%	BOX 3
13		SEWPCP		27.08%	27.08%	BOX X
14		SWWPCP		72.92%	72.92%	BOX X
	Book Cost Before Allocated A&G					
15	Allocated to:	NEWPCP	0	0	0	Ln 1 x Ln 12
16		SEWPCP	4,667	2,334	2,333	Ln 1 x Ln 13
17		SWWPCP	12,568	6,284	6,284	Ln 1 x Ln 14
18	Total (a)		17,235	8,618	8,617	
	A&G					
19	Allocated to:	NEWPCP	0	0	0	Ln 6 x Ln 12
20		SEWPCP	614	307	307	Ln 6 x Ln 13
21		SWWPCP	1,655	828	827	Ln 6 x Ln 14
22	Total (a)		2,269	1,135	1,134	
	Federal Grants(excluding A&G)					
23	Allocated to:	NEWPCP	0	0	0	Ln 4 x Ln 12
24		SEWPCP	3,224	1,612	1,612	Ln 4 x Ln 13
25		SWWPCP	8,682	4,341	4,341	Ln 4 x Ln 14
26	Total (b)		11,906	5,953	5,953	

Book Cost Applicable to Federal Grants

		(4) Total Investment $1,000 (5)+(6)	(5) Suspended Solids $1,000		(6) BOD $1,000	
Allocated to:	NEWPCP	0	0	Col (2) Ln 2 x Ln 12	0	Col (3) Ln 2 x Ln 12
	SEWPCP	4,510	2,255	Ln 2 x Ln 13	2,255	Ln 2 x Ln 13
	SWWPCP	12,142	6,071	Ln 2 x Ln 14	6,071	Ln 2 x Ln 14
Total (a)		16,652	8,326		8,326	

A&G Applicable to Federal Grants

Allocated to:	NEWPCP	0	0	Ln 7 x Ln 12	0	Ln 7 x Ln 12
	SEWPCP	594	297	Ln 7 x Ln 13	297	Ln 7 x Ln 13
	SWWPCP	1,598	799	Ln 7 x Ln 14	799	Ln 7 x Ln 14
Total (a)		2,192	1,096		1,096	

BOX X - BOD & SS ALLOCATIONS BETWEEN PLANTS

BD-28b, WESTON Letter Dated 9-1-93
Attachments
Facilities common to SE and SW only:

	Secondary lbs BD-28b	
SEWPCP	65,000	27.08%
SWWPCP	175,000	72.92%
Total	240,000	100.00%

Federal Grants - A&G

Allocated to:	NEWPCP	0	0	Col (2) Ln 9 x Ln 12	0	Col (3) Ln 9 x Ln 12
	SEWPCP	424	212	Ln 9 x Ln 13	212	Ln 9 x Ln 13
	SWWPCP	1,143	572	Ln 9 x Ln 14	571	Ln 9 x Ln 14
Total (b)		1,567	784		783	

(a) Includes allocated pension & benefits, capitalized interest, and general plant.
(b) Excludes allocated pension & benefits and capitalized interest.
(c) Adjusted for Work Progress Grant percentages.

CHECK:	Total A & G	Fed Grant A & G	A & G CI & FB
WPAP Plant - Sludge Thickener Facilities	2,269	2,192	77
WPAP Plant - Sludge Digestion	6,081	5,875	206
WPAP Plant - Sludge Gas Facilities	1,417	1,369	48
WPAP Plant - Sludge Disposal Facilities (Centrifuges)	1,952	1,886	66
WPAP Plant - Composting Facilities	0	0	0
WPAP Plant - Dewatering Facilities	7,116	6,875	241
Non-WPAP Plant - Sludge Disposal Facilities (Disposal, Belt Filter, Centrifuge)	0	0	0
Non-WPAP Plant - Digesters	15,706	na	15,706
Total A&G Allocated to shared facilities	34,541	18,197	16,344
Total A&G	33,651		
Percent of total A&G	102.64%		
Total Non-A&G Facilities Shared Facilities	160,681		
Total Non-A&G Facilities	255,663		
	62.85%		

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SWReAllo3 - SW WPAP Sludge Digestion Allocated To NEP.N. 135647.0100 January 27, 2023 2:13 p.m. Spltallo-15

	WPAP Plant - Sludge Digestion		(1) Total Investment (2) +(3)	(2) Suspended Solids	(3) BOD	Basis of Allocation
			Spltallo-3, Ln 40			
27	Book Cost Before Allocated A&G (a)		46,199	34,649	11,550	75% SS - 25% BOD
			Spltallo-3, Ln 40			
28	Book Cost Subject to Federal Grant		44,637	33,478	11,159	75% SS - 25% BOD
29	Estimated Federal Grant - %		71.5%	71.5%	71.5%	Spltallo-10
30	Estimated Federal Grant (c)		31,915	23,936	7,979	Ln 28 x Ln 29
31	Net Book Cost Before Alloc. A&G		14,284	10,713	3,571	Ln 27 - Ln 30
			Spltallo-3,BOX 3	(Same calc using Sludge Digest. Fac.)		
32	A&G Facilities(a)		6,081	4,561	1,520	75% SS - 25% BOD
			Spltallo-3,BOX 3	(Same calc using Sludge Digest Fac, cols (1)+(4))		
33	A&G subject to Federal Grant(b)		5,875	4,406	1,469	75% SS - 25% BOD
34	Estimated Federal Grant - % (c)		71.5%	71.5%	71.5%	Spltallo-10
35	Estimated Federal Grant		4,201	3,151	1,050	Ln 33 x Ln 34
36	Net A&G Facilities (a)		1,880	1,410	470	Ln 32 - Ln 35
37	Net Book Cost including ass. A&G (a)		16,164	12,123	4,041	Ln 31 + Ln 36
38	Percent Allocable to:	NEWPCP		0.00%	0.00%	BOX 3
39		SEWPCP		34.39%	27.07%	BOX 3
40		SWWPCP		65.61%	72.93%	BOX 3
	Book Cost Before Allocated A&G					
41	Allocated to:	NEWPCP	0	0	0	Ln 27 x Ln 38
42		SEWPCP	15,043	11,916	3,127	Ln 27 x Ln 39
43		SWWPCP	31,156	22,733	8,423	Ln 27 x Ln 40
44	Total (a)		46,199	34,649	11,550	
	A&G					
45	Allocated to:	NEWPCP	0	0	0	Ln 32 x Ln 38
46		SEWPCP	1,980	1,569	411	Ln 32 x Ln 39
47		SWWPCP	4,101	2,992	1,109	Ln 32 x Ln 40
48	Total (a)		6,081	4,561	1,520	
	Federal Grants (excluding A&G)					
49	Allocated to:	NEWPCP	0	0	0	Ln 30 x Ln 38
50		SEWPCP	10,392	8,232	2,160	Ln 30 x Ln 39
51		SWWPCP	21,523	15,704	5,819	Ln 30 x Ln 40
52	Total (b)		31,915	23,936	7,979	

(a) Includes allocated pension & benefits, capitalized interest, and general plant.
(b) Excludes allocated pension & benefits and capitalized interest.
(c) Adjusted for Work Progress Grant percentages.

		(4) Total Investment $1,000 (5)+(6)	(5) Suspended Solids $1,000		(6) BOD $1,000	
Book Cost Applicable to Federal Grants				Col (2)		Col (3)
Allocated to:	NEWPCP	0	0	Ln 28 x Ln 38	0	Ln 28 x Ln 38
	SEWPCP	14,534	11,513	Ln 28 x Ln 39	3,021	Ln 28 x Ln 39
	SWWPCP	30,103	21,965	Ln 28 x Ln 40	8,138	Ln 28 x Ln 40
Total (a)		44,637	33,478		11,159	
A&G Applicable to Federal Grants						
Allocated to:	NEWPCP	0	0	Ln 33 x Ln 38	0	Ln 33 x Ln 38
	SEWPCP	1,913	1,515	Ln 33 x Ln 39	398	Ln 33 x Ln 39
	SWWPCP	3,962	2,891	Ln 33 x Ln 40	1,071	Ln 33 x Ln 40
Total (a)		5,875	4,406		1,469	

BOX 3 - BOD & SS ALLOCATIONS BETWEEN PLANTS

REF: BD-28b, WESTON Letter Dated 9-1-93 -
Facilities common to all plants (Sludge Dewatering & Composting):

	SS BD-28b	BOD BD-28b
NEWPCP	0.4827	0.4827
SEWPCP	0.1696	0.1696
SWWPCP	0.3477	0.3477

Facilities common to SE and SW only:

	Primary lbs BD-28b	Secondary lbs BD-28b	SS lbs	BOD lbs	SS lbs	BOD lbs		
SEWPCP	100,000	55,500	127,750	27,750	34.39%	27.07%	155,500	32.81%
SWWPCP	169,000	149,500	243,750	74,750	65.61%	72.93%	318,500	67.19%
Total	269,000	205,000	371,500	102,500	100.00%	100.00%	474,000	

Federal Grants - A&G				Col (2)		Col (3)
Allocated to:	NEWPCP	0	0	Ln 35 x Ln 38	0	Ln 35 x Ln 38
	SEWPCP	1,368	1,084	Ln 35 x Ln 39	284	Ln 35 x Ln 39
	SWWPCP	2,833	2,067	Ln 35 x Ln 40	766	Ln 35 x Ln 40
Total (b)		4,201	3,151		1,050	

	WPAP Plant - Sludge Gas Facilities		(1) Total Investment (2) +(3)	(2) Suspended Solids	(3) BOD	Basis of Allocation
			Spltallo-3, Ln 44			
53	Book Cost Before Allocated A&G (a)		10,763	8,072	2,691	75% SS - 25% BOD
			Spltallo-3, Ln 44			
54	Book Cost Subject to Federal Grant		10,399	7,799	2,600	75% SS - 25% BOD
55	Estimated Federal Grant - %		71.5%	71.5%	71.5%	Spltallo-10
56	Estimated Federal Grant (c)		7,435	5,576	1,859	Ln 54 x Ln 55
57	Net Book Cost Before Alloc. A&G		3,328	2,496	832	Ln 53 - Ln 56
			Spltallo-3,BOX 3	(Same calc using Sludge Gas Fac)		
58	A&G Facilities(a)		1,417	1,063	354	75% SS - 25% BOD
			Spltallo-3,BOX 3	(Same calc using Sludge Gas Fac, cols (1)+(4))		
59	A&G subject to Federal Grant(b)		1,369	1,027	342	75% SS - 25% BOD
60	Estimated Federal Grant - % (c)		71.5%	71.5%	71.5%	Spltallo-10
61	Estimated Federal Grant		979	734	245	Ln 59 x Ln 60
62	Net A&G Facilities (a)		438	329	109	Ln 58 - Ln 61
63	Net Book Cost including A&G (a)		3,766	2,825	941	Ln 57 + Ln 62
64	Percent Allocable to:	NEWPCP		0.00%	0.00%	BOX 3
65		SEWPCP		34.39%	27.07%	BOX 3
66		SWWPCP		65.61%	72.93%	BOX 3
	Book Cost Before Allocated A&G					
67	Allocated to:	NEWPCP	0	0	0	Ln 53 x Ln 64
68		SEWPCP	3,504	2,776	728	Ln 53 x Ln 65
69		SWWPCP	7,259	5,296	1,963	Ln 53 x Ln 66
70	Total (a)		10,763	8,072	2,691	
	A&G					
71	Allocated to:	NEWPCP	0	0	0	Ln 58 x Ln 64
72		SEWPCP	462	366	96	Ln 58 x Ln 65
73		SWWPCP	955	697	258	Ln 58 x Ln 66
74	Total (a)		1,417	1,063	354	
	Federal Grants(excluding A&G)					
75	Allocated to:	NEWPCP	0	0	0	Ln 56 x Ln 64
76		SEWPCP	2,421	1,918	503	Ln 56 x Ln 65
77		SWWPCP	5,014	3,658	1,356	Ln 56 x Ln 66
78	Total (b)		7,435	5,576	1,859	

			(4) Total Investment $1,000 (5)+(6)	(5) Suspended Solids $1,000		(6) BOD $1,000	
	Book Cost Applicable to Federal Grants				Col (2)		Col (3)
	Allocated to:	NEWPCP	0	0	Ln 54 x Ln 64	0	Ln 54 x Ln 64
		SEWPCP	3,386	2,682	Ln 54 x Ln 65	704	Ln 54 x Ln 65
		SWWPCP	7,013	5,117	Ln 54 x Ln 66	1,896	Ln 54 x Ln 66
	Total (a)		10,399	7,799		2,600	
	A&G Applicable to Federal Grants						
	Allocated to:	NEWPCP	0	0	Ln 59 x Ln 64	0	Ln 59 x Ln 64
		SEWPCP	446	353	Ln 59 x Ln 65	93	Ln 59 x Ln 65
		SWWPCP	923	674	Ln 59 x Ln 66	249	Ln 59 x Ln 66
	Total (a)		1,369	1,027		342	
	Federal Grants - A&G				Col (2)		Col (3)
	Allocated to:	NEWPCP	0	0	Ln 61 x Ln 64	0	Ln 61 x Ln 64
		SEWPCP	318	252	Ln 61 x Ln 65	66	Ln 61 x Ln 65
		SWWPCP	661	482	Ln 61 x Ln 66	179	Ln 61 x Ln 66
	Total (b)		979	734		245	

(a) Includes allocated pension & benefits, capitalized interest, and general plant.
(b) Excludes allocated pension & benefits and capitalized interest.
(c) Adjusted for Work Progress Grant percentages.

			(1)	(2)	(3)		(4)	(5)		(6)	
	WPAP Plant - Sludge Disposal Facilities (Centr		Total Investment (2) +(3)	Suspended Solids	BOD	Basis of Allocation	Total Investment $1,000 (5)+(6)	Suspended Solids $1,000		BOD $1,000	
79	Book Cost Before Allocated A&G (a)		Spltallo-3, Ln 51 14,832	11,124	3,708	75% SS - 25% BOD					
80	Book Cost Subject to Federal Grant		Spltallo-3, Ln 51 14,331	10,748	3,583	75% SS - 25% BOD					
81	Estimated Federal Grant - %		71.5%	71.5%	71.5%	Spltallo-10					
82	Estimated Federal Grant (c)		10,247	7,685	2,562	Ln 80 x Ln 81					
83	Net Book Cost Before Alloc. A&G		4,585	3,439	1,146	Ln 79 - Ln 82					
84	A&G Facilities(a)		Spltallo-3, BOX 3 1,952	(Same calc using Sludge Disp Fac) 1,464	488	75% SS - 25% BOD					
85	A&G subject to Federal Grant(b)		Spltallo-3, BOX 3 1,886	(Same calc using Sludge Disp Fac, cols (1)+(4)) 1,415	471	75% SS - 25% BOD					
86	Estimated Federal Grant - % (c)		71.5%	71.5%	71.5%	Spltallo-10					
87	Estimated Federal Grant		1,348	1,011	337	Ln 85 x Ln 86					
88	Net A&G Facilities (a)		604	453	151	Ln 84 - Ln 87					
89	Net Book Cost including A&G (a)		5,189	3,892	1,297	Ln 83 + Ln 88					
90	Percent Allocable to:	NEWPCP		0.00%	0.00%	BOX 3					
91		SEWPCP		34.39%	27.07%	BOX 3					
92		SWWPCP		65.61%	72.93%	BOX 3					
	Book Cost Before Allocated A&G						Book Cost Applicable to Federal Grants			Col (2)	Col (3)
93	Allocated to:	NEWPCP	0	0	0	Ln 79 x Ln 90	Allocated to: NEWPCP	0	0	Ln 80 x Ln 90	0 Ln 80 x Ln 90
94		SEWPCP	4,830	3,826	1,004	Ln 79 x Ln 91	SEWPCP	4,666	3,696	Ln 80 x Ln 91	970 Ln 80 x Ln 91
95		SWWPCP	10,002	7,298	2,704	Ln 79 x Ln 92	SWWPCP	9,665	7,052	Ln 80 x Ln 92	2,613 Ln 80 x Ln 92
96	Total (a)		14,832	11,124	3,708		Total (a)	14,331	10,748		3,583
	A&G						A&G Applicable to Federal Grants				
97	Allocated to:	NEWPCP	0	0	0	Ln 84 x Ln 90	Allocated to: NEWPCP	0	0	Ln 85 x Ln 90	0 Ln 85 x Ln 90
98		SEWPCP	635	503	132	Ln 84 x Ln 91	SEWPCP	614	487	Ln 85 x Ln 91	127 Ln 85 x Ln 91
99		SWWPCP	1,317	961	356	Ln 84 x Ln 92	SWWPCP	1,272	928	Ln 85 x Ln 92	344 Ln 85 x Ln 92
100	Total (a)		1,952	1,464	488		Total (a)	1,886	1,415		471
	Federal Grants (excluding A&G)						Federal Grants - A&G			Col (2)	Col (3)
101	Allocated to:	NEWPCP	0	0	0	Ln 82 x Ln 90	Allocated to: NEWPCP	0	0	Ln 87 x Ln 90	0 Ln 87 x Ln 90
102		SEWPCP	3,337	2,643	694	Ln 82 x Ln 91	SEWPCP	439	348	Ln 87 x Ln 91	91 Ln 87 x Ln 91
103		SWWPCP	6,910	5,042	1,868	Ln 82 x Ln 92	SWWPCP	909	663	Ln 87 x Ln 92	246 Ln 87 x Ln 92
104	Total (b)		10,247	7,685	2,562		Total (b)	1,348	1,011		337

(a) Includes allocated pension & benefits, capitalized interest, and general plant.
(b) Excludes allocated pension & benefits and capitalized interest.
(c) Adjusted for Work Progress Grant percentages.

File: SCOS23_24_ver1.xls Philadelphia Water Department (PWD) CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE Test Year 2024 Budget Yr 2023 Ver. 1a
SWReAllo6 - SW WPAP Composting Facilities Allocated T P.N. 135647.0100 January 27, 2023 2:13 p.m. Spltallo-18

			(1)	(2)	(3)		(4)	(5)		(6)
	WPAP Plant - Composting Facilities		Total Investment (2) +(3)	Suspended Solids	BOD	Basis of Allocation	Total Investment $1,000 (5)+(6)	Suspended Solids $1,000		BOD $1,000
			Spltallo-3, Ln 41							
105	Book Cost Before Allocated A&G (a)		0	0	0	75% SS - 25% BOD				
			Spltallo-3, Ln 41							
106	Book Cost Subject to Federal Grant		0	0	0	75% SS - 25% BOD				
107	Estimated Federal Grant - %		71.5%	71.5%	71.5%	Spltallo-10				
108	Estimated Federal Grant (c)		0	0	0	Ln 106 x Ln 107				
109	Net Book Cost Before Alloc. A&G		0	0	0	Ln 105 - Ln 108				
			Spltallo-3, BOX 3	(Same calc using Sludge Compost Fac)						
110	A&G Facilities(a)		0	0	0	75% SS - 25% BOD				
			Spltallo-3, BOX 3	(Same calc using Sludge Compost Fac, cols (1)+(4))						
111	A&G subject to Federal Grant(b)		0	0	0	75% SS - 25% BOD				
112	Estimated Federal Grant - % (c)		71.5%	71.5%	71.5%	Spltallo-10				
113	Estimated Federal Grant		0	0	0	Ln 111 x Ln 112				
114	Net A&G Facilities (a)		0	0	0	Ln 110 - Ln 113				
115	Net Book Cost including A&G (a)		0	0	0	Ln 109 + Ln 114				
116	Percent Allocable to:	NEWPCP		48.27%	48.27%	BOX 3				
117		SEWPCP		16.96%	16.96%	BOX 3				
118		SWWPCP		34.77%	34.77%	BOX 3				
	Book Cost Before Allocated A&G						Book Cost Applicable to Federal Grants			Col (2)	Col (3)
119	Allocated to:	NEWPCP	0	0	0	Ln 105 x Ln 116	Allocated to: NEWPCP	0	0	Ln 106 x Ln 116	0 .n 106 x Ln 116
120		SEWPCP	0	0	0	Ln 105 x Ln 117	SEWPCP	0	0	Ln 106 x Ln 117	0 .n 106 x Ln 117
121		SWWPCP	0	0	0	Ln 105 x Ln 118	SWWPCP	0	0	Ln 106 x Ln 118	0 .n 106 x Ln 118
122	Total (a)		0	0	0		Total (a)	0	0		0
	A&G						A&G Applicable to Federal Grants				
123	Allocated to:	NEWPCP	0	0	0	Ln 110 x Ln 116	Allocated to: NEWPCP	0	0	Ln 111 x Ln 116	0 .n 111 x Ln 116
124		SEWPCP	0	0	0	Ln 110 x Ln 117	SEWPCP	0	0	Ln 111 x Ln 117	0 .n 111 x Ln 117
125		SWWPCP	0	0	0	Ln 110 x Ln 118	SWWPCP	0	0	Ln 111 x Ln 118	0 .n 111 x Ln 118
126	Total (a)		0	0	0		Total (a)	0	0		0
	Federal Grants (excluding A&G)						Federal Grants - A&G			Col (2)	Col (3)
127	Allocated to:	NEWPCP	0	0	0	Ln 108 x Ln 116	Allocated to: NEWPCP	0	0	Ln 113 x Ln 116	0 .n 113 x Ln 116
128		SEWPCP	0	0	0	Ln 108 x Ln 117	SEWPCP	0	0	Ln 113 x Ln 117	0 .n 113 x Ln 117
129		SWWPCP	0	0	0	Ln 108 x Ln 118	SWWPCP	0	0	Ln 113 x Ln 118	0 .n 113 x Ln 118
130	Total (b)		0	0	0		Total (b)	0	0		0

(a) Includes allocated pension & benefits, capitalized interest, and general plant.
(b) Excludes allocated pension & benefits and capitalized interest.
(c) Adjusted for Work Progress Grant percentages.

			(1)	(2)	(3)	
	WPAP Plant - Dewatering Facilities		Total Investment (2) +(3)	Suspended Solids	BOD	Basis of Allocation
			Spltallo-3, Ln 53			
131	Book Cost Before Allocated A&G (a)		54,062	40,547	13,515	75% SS - 25% BOD
			Spltallo-3, Ln 53			
132	Book Cost Subject to Federal Grant		52,234	39,176	13,058	75% SS - 25% BOD
133	Estimated Federal Grant - %		71.5%	71.5%	71.5%	Spltallo-10
134	Estimated Federal Grant (c)		37,347	28,011	9,336	Ln 132 x Ln 133
135	Net Book Cost Before Alloc. A&G		16,715	12,536	4,179	Ln 131 - Ln 134
			Spltallo-3, BOX 3	(Same calc using Sludge Dewat Fac)		
136	A&G Facilities(a)		7,116	5,337	1,779	75% SS - 25% BOD
			Spltallo-3, BOX 3	(Same calc using Sludge Dewat Fac, cols (1)+(4))		
137	A&G subject to Federal Grant(b)		6,875	5,156	1,719	75% SS - 25% BOD
138	Estimated Federal Grant - % (c)		71.5%	71.5%	71.5%	Spltallo-10
139	Estimated Federal Grant		4,916	3,687	1,229	Ln 137 x Ln 138
140	Net A&G Facilities (a)		2,200	1,650	550	Ln 136 - Ln 139
141	Net Book Cost including A&G (a)		18,915	14,186	4,729	Ln 135 + Ln 140
142	Percent Allocable to:	NEWPCP		48.27%	48.27%	BOX 3
143		SEWPCP		16.96%	16.96%	BOX 3
144		SWWPCP		34.77%	34.77%	BOX 3
	Book Cost Before Allocated A&G					
145	Allocated to:	NEWPCP	26,096	19,572	6,524	Ln 131 x Ln 142
146		SEWPCP	9,169	6,877	2,292	Ln 131 x Ln 143
147		SWWPCP	18,797	14,098	4,699	Ln 131 x Ln 144
148	Total (a)		54,062	40,547	13,515	
	A&G					
149	Allocated to:	NEWPCP	3,435	2,576	859	Ln 136 x Ln 142
150		SEWPCP	1,207	905	302	Ln 136 x Ln 143
151		SWWPCP	2,474	1,856	618	Ln 136 x Ln 144
152	Total (a)		7,116	5,337	1,779	
	Federal Grants (excluding A&G)					
153	Allocated to:	NEWPCP	18,027	13,521	4,506	Ln 134 x Ln 142
154		SEWPCP	6,334	4,751	1,583	Ln 134 x Ln 143
155		SWWPCP	12,986	9,739	3,247	Ln 134 x Ln 144
156	Total (b)		37,347	28,011	9,336	

			(4)	(5)		(6)	
			Total Investment $1,000 (5)+(6)	Suspended Solids $1,000		BOD $1,000	
	Book Cost Applicable to Federal Grants				Col (2)		Col (3)
	Allocated to:	NEWPCP	25,213	18,910	Ln 132 x Ln 142	6,303	.n 132 x Ln 142
		SEWPCP	8,859	6,644	Ln 132 x Ln 143	2,215	.n 132 x Ln 143
		SWWPCP	18,161	13,621	Ln 132 x Ln 144	4,540	.n 132 x Ln 144
	Total (a)		52,233	39,175		13,058	
	A&G Applicable to Federal Grants						
	Allocated to:	NEWPCP	3,319	2,489	Ln 137 x Ln 142	830	.n 137 x Ln 142
		SEWPCP	1,166	874	Ln 137 x Ln 143	292	.n 137 x Ln 143
		SWWPCP	2,391	1,793	Ln 137 x Ln 144	598	.n 137 x Ln 144
	Total (a)		6,876	5,156		1,720	
	Federal Grants - A&G				Col (2)		Col (3)
	Allocated to:	NEWPCP	2,373	1,780	Ln 139 x Ln 142	593	.n 139 x Ln 142
		SEWPCP	833	625	Ln 139 x Ln 143	208	.n 139 x Ln 143
		SWWPCP	1,710	1,282	Ln 139 x Ln 144	428	.n 139 x Ln 144
	Total (b)		4,916	3,687		1,229	

(a) Includes allocated pension & benefits, capitalized interest, and general plant.
(b) Excludes allocated pension & benefits and capitalized interest.
(c) Adjusted for Work Progress Grant percentages.

File: SCOS23_24_ver1.xls Philadelphia Water Department (PWD) CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE Test Year 2024 Budget Yr 2023 Ver. 1a
SWReAllo8 - SW Non-WPAP Sludge Disposal Facilities All P.N. 135647.0100 January 27, 2023 2:13 p.m. Spltallo-20

			(1) Total Investment (2) +(3)	(2) Suspended Solids	(3) BOD	Basis of Allocation
	Non-WPAP Plant - Sludge Disposal Facilities (Disposal, Belt Filter, Centrifuge)					
			BOX 1			
157	Book Cost Before Allocated A&G (a)		0	0	0	75% SS - 25% BOD
			Input			
158	Book Cost Subject to Federal Grant		0	0	0	75% SS - 25% BOD
159	Estimated Federal Grant - %		71.5%	71.5%	71.5%	Spltallo-10
160	Estimated Federal Grant (c)		0	0	0	Ln 158 x Ln 159
161	Net Book Cost Before Alloc. A&G		0	0	0	Ln 157 - Ln 160
			Spltallo-3, BOX 3	(Same calc using Non WPAP Sludge Disp Fac, but CWIP on sludge disposal not allocated any SW WPCP A&G Facilities per JRM)		
162	A&G Facilities(a)		0	0	0	75% SS - 25% BOD
163	A&G subject to Federal Grant (b)		na			
			0	0	0	75% SS - 25% BOD
164	Estimated Federal Grant - % (c)		71.5%	71.5%	71.5%	Spltallo-10
165	Estimated Federal Grant		0	0	0	Ln 162 x Ln 164
166	Net A&G Facilities (a)		0	0	0	Ln 162 - Ln 165
167	Net Book Cost including A&G (a)		0	0	0	Ln 161 + Ln 166
168	Percent Allocable to:	NEWPCP		0.00%	0.00%	BOX 3
169		SEWPCP		34.39%	27.07%	BOX 3
170		SWWPCP		65.61%	72.93%	BOX 3
			(1)	(2)	(3)	
	Book Cost Before Allocated A&G			(1)*.75	(1)-(2)	
171	Allocated to:	NEWPCP	0	0	0	BOX 1
172		SEWPCP	0	0	0	BOX 1
173		SWWPCP	0	0	0	BOX 1
174	Total (a)		0	0	0	
	A&G					
175	Allocated to:	NEWPCP	0	0	0	Ln 162 x Ln 168
176		SEWPCP	0	0	0	Ln 162 x Ln 169
177		SWWPCP	0	0	0	Ln 162 x Ln 170
178	Total (a)		0	0	0	

(a) Includes allocated pension & benefits, capitalized interest, and general plant.
(b) Excludes allocated pension & benefits and capitalized interest.

BOX 1 - SPLIT OF BOOK COSTS BEFORE ALLOCATION OF A&G

Book costs consist of):		Spltallo-3			$1,000
Sludge Disposal (Ln 6)					0
Belt Filter System (Ln 7)					0
Centrifuge System (Ln 8)					0
Subtotal					0
CWIP Sludge disposal costs included in subtotal are					0
All Other costs					0
Allocation of costs between plants:					
CWIP Sludge disposal costs:					
	NEWPCP		48.27%		0
	SEWPCP		16.96%		0
	SWWPCP		34.77%		0
		BOD	SS	Weighted	0
All Other costs:		0.25	0.75		
	NEWPCP	0.00%	0.00%	0.00%	0
	SEWPCP	34.39%	27.07%	28.90%	0
	SWWPCP	65.61%	72.93%	71.10%	0
					0
Total Allocated Costs:					
	NEWPCP		0.00%		0
	SEWPCP		0.00%		0
	SWWPCP		0.00%		0
					0

			(1)	(2)	(3)	
			Total Investment (2) +(3)	Suspended Solids	BOD	Basis of Allocation
	Non-WPAP Plant - Digesters					
			Spltallo-3, Ln 5			
179	Book Cost Before Allocated A&G (a)		17,590	13,193	4,397	75% SS - 25% BOD
			Input			
180	Book Cost Subject to Federal Grant		0	0	0	75% SS - 25% BOD
181	Estimated Federal Grant - %		71.5%	71.5%	71.5%	Spltallo-10
182	Estimated Federal Grant (c)		0	0	0	Ln 180 x Ln 181
183	Net Book Cost Before Alloc. A&G		17,590	13,193	4,397	Ln 179 - Ln 182
			Spltallo-3, BOX 3	(Same calc using Non WPAP Digesters)		
184	A&G Facilities(a)		15,706	11,780	3,926	75% SS - 25% BOD
185	A&G subject to Federal Grant(b)		na	0	0	75% SS - 25% BOD
186	Estimated Federal Grant - % (c)		71.5%	71.5%	71.5%	Spltallo-10
187	Estimated Federal Grant		0	0	0	Ln 185 x Ln 186
188	Net A&G Facilities (a)		15,706	11,780	3,926	Ln 184 - Ln 187
189	Net Book Cost including A&G (a)		33,296	24,973	8,323	Ln 183 + Ln 188
190	Percent Allocable to:	NEWPCP		0.00%	0.00%	BOX 3
191		SEWPCP		34.39%	27.07%	BOX 3
192		SWWPCP		65.61%	72.93%	BOX 3
	Book Cost Before Allocated A&G					
193	Allocated to:	NEWPCP	0	0	0	Ln 179 x Ln 190
194		SEWPCP	5,727	4,537	1,190	Ln 179 x Ln 191
195		SWWPCP	11,863	8,656	3,207	Ln 179 x Ln 192
196	Total (a)		17,590	13,193	4,397	
	A&G					
197	Allocated to:	NEWPCP	0	0	0	Ln 184 x Ln 190
198		SEWPCP	5,114	4,051	1,063	Ln 184 x Ln 191
199		SWWPCP	10,592	7,729	2,863	Ln 184 x Ln 192
200	Total (a)		15,706	11,780	3,926	

(a) Includes allocated pension & benefits, capitalized interest, and general plant.
(b) Excludes allocated pension & benefits and capitalized interest.

SOUTHWEST PLANT INVESTMENT
ALLOCATED TO NE AND SE PLANTS

Line No.	Facility Description		(1) Total Investment $1,000 (2) +(3)	(2) Capacity $1,000	(3) BOD $1,000	Basis of Allocation
	WPAP Plant - Preliminary Treatment Bldg					
201	Book Cost Before Allocated A&G (a)		Spltallo-3, Ln 31 23,789	23,789	0	100% Capacity - 0% BOD
202	Book Cost Subject to Federal Grant		Spltallo-3, Ln 31 22,985	22,985	0	100% Capacity - 0% BOD
203	Estimated Federal Grant - %		71.5%	71.5%	71.5%	Spltallo-10
204	Estimated Federal Grant		16,434	16,434	0	Ln 202 x Ln 203
205	Net Book Cost Before Alloc. A&G		7,355	7,355	0	Ln 201 - Ln 204
206	A&G Facilities(a)		Spltallo-3, BOX 3 3,131	3,131	0	100% Capacity - 0% BOD
207	A&G subject to Federal Grant(b)		Spltallo-3, BOX 3 3,025	(Same calc. using data from col. (1) + (4)) 3,025	0	100% Capacity - 0% BOD
208	Estimated Federal Grant - % (c)		71.5%	71.5%	71.5%	Spltallo-10
209	Estimated Federal Grant		2,163	2,163	0	Ln 207 x Ln 208
210	Net A&G Facilities (a)		968	968	0	Ln 206 - Ln 209
211	Net Book Cost including A&G (a)		8,323	8,323	0	Ln 205 + Ln 210
212	Percent Allocable to:	NEWPCP		0.00%	0.00%	
213		SEWPCP		14.54%	0.00%	0.1454; BD-28c, Fax Dated 9/22/93 from J. S. Clare III
214		SWWPCP		85.46%	0.00%	0.8546; BD-28c, Fax Dated 9/22/93 from J. S. Clare III
	Book Cost Before Allocated A&G					
215	Allocated to:	NEWPCP	0	0	0	Ln 201 x Ln 212
216		SEWPCP	3,459	3,459	0	Ln 201 x Ln 213
217		SWWPCP	20,330	20,330	0	Ln 201 x Ln 214
218	Total (a)		23,789	23,789	0	
	A&G					
219	Allocated to:	NEWPCP	0	0	0	Ln 206 x Ln 212
220		SEWPCP	455	455	0	Ln 206 x Ln 213
221		SWWPCP	2,676	2,676	0	Ln 206 x Ln 214
222	Total (a)		3,131	3,131	0	
	Federal Grants(excluding A&G)					
223	Allocated to:	NEWPCP	0	0	0	Ln 204 x Ln 212
224		SEWPCP	2,390	2,390	0	Ln 204 x Ln 213
225		SWWPCP	14,044	14,044	0	Ln 204 x Ln 214
226	Total (b)		16,434	16,434	0	

Line No.	Facility Description		(4) Total Investment $1,000 (5)+(6)	(5) Capacity $1,000	(6) BOD $1,000	
	Book Cost Applicable to Federal Grants					
215	Allocated to:	NEWPCP	0	0	0	Col (2) Ln 202 x Ln 212 / Col (3) .n 202 x Ln 212
216		SEWPCP	3,342	3,342	0	Ln 202 x Ln 213 / .n 202 x Ln 213
217		SWWPCP	19,643	19,643	0	Ln 202 x Ln 214 / .n 202 x Ln 214
218	Total (a)		22,985	22,985	0	
	A&G Applicable to Federal Grants					
219	Allocated to:	NEWPCP	0	0	0	Ln 207 x Ln 212 / .n 207 x Ln 212
220		SEWPCP	440	440	0	Ln 207 x Ln 213 / .n 207 x Ln 213
221		SWWPCP	2,585	2,585	0	Ln 207 x Ln 214 / .n 207 x Ln 214
222	Total (a)		3,025	3,025	0	
	Federal Grants - A&G					
223	Allocated to:	NEWPCP	0	0	0	Col (2) Ln 209 x Ln 212 / Col (3) .n 209 x Ln 212
224		SEWPCP	315	315	0	Ln 209 x Ln 213 / .n 209 x Ln 213
225		SWWPCP	1,848	1,848	0	Ln 209 x Ln 214 / .n 209 x Ln 214
226	Total (b)		2,163	2,163	0	

(a) Includes allocated pension & benefits, capitalized interest, and general plant.
(b) Excludes allocated pension & benefits and capitalized interest.
(c) Adjusted for Work Progress Grant percentages.

File: SCOS23_24_ver1.xls Philadelphia Water Department (PWD) CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE Test Year 2024 Budget Yr 2023 Ver. 1a
SWReAllo11 - SW WPAP Grit & Ash Transfer Allocated TP.N. 135647.0100 January 27, 2023 2:13 p.m. Spltallo-23

Line No.	Facility Description		(1) Total Investment $1,000 (2) +(3)	(2) Capacity $1,000	(3) BOD $1,000	Basis of Allocation
	WPAP Plant - Grit & Ash Transfer Station					
227	Book Cost Before Allocated A&G (a)		Spltallo-3, Ln 54 0	0	0	100% Capacity - 0% BOD
228	Book Cost Subject to Federal Grant		Spltallo-3, Ln 54 0	0	0	100% Capacity - 0% BOD
229	Estimated Federal Grant - %		71.5%	71.5%	71.5%	Spltallo-10
230	Estimated Federal Grant		0	0	0	Ln 228 x Ln 229
231	Net Book Cost Before Alloc. A&G		0	0	0	Ln 227 - Ln 230
232	A&G Facilities(a)		Spltallo-3, BOX 3 0	0	0	100% Capacity - 0% BOD
			Spltallo-3, BOX 3	(Same calc. using data from col. (1) + (4))		
233	A&G subject to Federal Grant(b)		0	0	0	100% Capacity - 0% BOD
234	Estimated Federal Grant - % (c)		71.5%	71.5%	71.5%	Spltallo-10
235	Estimated Federal Grant		0	0	0	Ln 233 x Ln 234
236	Net A&G Facilities (a)		0	0	0	Ln 232 - Ln 235
237	Net Book Cost including A&G (a)		0	0	0	Ln 231 + Ln 236
238	Percent Allocable to:	NEWPCP		0.00%	0.00%	
239		SEWPCP		29.08%	0.00%	BD-28c, Fax Dated 9/22/93 from J. S. Clare III
240		SWWPCP		70.92%	0.00%	BD-28c, Fax Dated 9/22/93 from J. S. Clare III
	Book Cost Before Allocated A&G					
241	Allocated to:	NEWPCP	0	0	0	Ln 227 x Ln 238
242		SEWPCP	0	0	0	Ln 227 x Ln 239
243		SWWPCP	0	0	0	Ln 227 x Ln 240
244	Total (a)		0	0	0	
	A&G					
245	Allocated to:	NEWPCP	0	0	0	Ln 232 x Ln 238
246		SEWPCP	0	0	0	Ln 232 x Ln 239
247		SWWPCP	0	0	0	Ln 232 x Ln 240
248	Total (a)		0	0	0	
	Federal Grants(excluding A&G)					
249	Allocated to:	NEWPCP	0	0	0	Ln 230 x Ln 238
250		SEWPCP	0	0	0	Ln 230 x Ln 239
251		SWWPCP	0	0	0	Ln 230 x Ln 240
252	Total (b)		0	0	0	

			(4) Total Investment $1,000 (5)+(6)	(5) Capacity $1,000		(6) BOD $1,000	
	Book Cost Applicable to Federal Grants						
	Allocated to:	NEWPCP	0	0	Ln 228 x Ln 238	0	.n 228 x Ln 238
		SEWPCP	0	0	Ln 228 x Ln 239	0	.n 228 x Ln 239
		SWWPCP	0	0	Ln 228 x Ln 240	0	.n 228 x Ln 240
	Total (a)		0	0		0	
	A&G Applicable to Federal Grants						
	Allocated to:	NEWPCP	0	0	Ln 233 x Ln 238	0	.n 233 x Ln 238
		SEWPCP	0	0	Ln 233 x Ln 239	0	.n 233 x Ln 239
		SWWPCP	0	0	Ln 233 x Ln 240	0	.n 233 x Ln 240
	Total (a)		0	0		0	
	Federal Grants - A&G				Col (2)		Col (3)
	Allocated to:	NEWPCP	0	0	Ln 235 x Ln 238	0	.n 235 x Ln 238
		SEWPCP	0	0	Ln 235 x Ln 239	0	.n 235 x Ln 239
		SWWPCP	0	0	Ln 235 x Ln 240	0	.n 235 x Ln 240
	Total (b)		0	0		0	

(a) Includes allocated pension & benefits, capitalized interest, and general plant.
(b) Excludes allocated pension & benefits and capitalized interest.
(c) Adjusted for Work Progress Grant percentages.

WW - 9 currently developed on Retcos-23

TEST YEAR INVESTMENT IN THE WASTEWATER SYSTEM
SUMMARY OF ALLOCATIONS TO FUNCTIONAL COST COMPONENTS
TEST YEAR 2024

Line No.	Cost Component	(1) Total Direct Investment Incl. A&G $1,000	(2) Investment Allocated to Contract Service $1,000	(3) Investment Allocated to Retail Service $1,000 (1) - (2)	(4) Col. (1) Reference		(5) Col. (2) Reference	
	COLLECTION SYSTEM							
1	Sewers (a) - Capacity	1,823,982	17,991	1,805,991	Spltallo-5	Ln 1..2	Spltallo-40	Ln 1
2	Pumping Stations - Capacity	23,225	252	22,973	Spltallo-5	Ln 3	Spltallo-40	Ln 2
3	LTCP Investment	291,589	5,599	285,990				
4	Total Collection System	2,138,796	23,842	2,114,954				
	WATER POLLUTION CONTROL PLANTS							
	Northeast Plant:							
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton							
5	- Capacity	5,079	1,062	4,017	Spltallo-6	Ln 50	Spltallo-40	Ln 5
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
6	Volume	60,597	16,876	43,721	Spltallo-6	Ln 50	Spltallo-40	Ln 6
7	Capacity	24,584	5,757	18,827	Spltallo-6	Ln 50	Spltallo-40	Ln 7
8	Suspended Solids	124,572	23,386	101,186	Spltallo-6	Ln 50	Spltallo-40	Ln 8
9	BOD	106,410	26,512	79,898	Spltallo-6	Ln 50	Spltallo-40	Ln 9
10	Subtotal	316,163	72,531	243,632				
11	Total Northeast Plant	321,242	73,593	247,649				
	Southwest Plant:							
12	Retail - Capacity	22,043	0	22,043	Spltallo-9	Ln 45		Input
	Retail, DELCORA, Lower Merion, Springfield, (excluding Wyndmoor), and Upper Darby							
13	Volume	75,019	32,031	42,988	Spltallo-9	Ln 45	Spltallo-40	Ln 13
14	Capacity	19,926	7,334	12,592	Spltallo-9	Ln 45	Spltallo-40	Ln 14
15	Suspended Solids	64,118	18,436	45,682	Spltallo-9	Ln 45	Spltallo-40	Ln 15
16	BOD	53,154	26,243	26,911	Spltallo-9	Ln 45	Spltallo-40	Ln 16
17	Total Southwest Plant	234,260	84,044	150,216				
	Southeast Plant:							
	Retail and Springfield (Wyndmoor)							
18	Volume	33,139	301	32,838	Spltallo-11	Ln 39	Spltallo-40	Ln 18
19	Capacity	42,518	237	42,281	Spltallo-11	Ln 39	Spltallo-40	Ln 19
20	Suspended Solids	31,254	97	31,157	Spltallo-11	Ln 39	Spltallo-40	Ln 20
21	BOD	25,735	71	25,664	Spltallo-11	Ln 39	Spltallo-40	Ln 21
22	Total Southeast Plant	132,646	706	131,940				
23	Total Water Pollution Control Plants	688,148	158,343	529,805				
24	Total Investment	2,826,944	182,185	2,644,759				

(a) Total sewers investment from Spltallo-5 includes Storm and Flood Relief.

BOX 1 - CHECK OF TOTAL PLANT ON Spltallo-24 vs Spltallo-5

	Ref:	$1,000
Total Plant	Spltallo-5	3,356,850
Less Fed Grants - NE	Spltallo-8	(238,122)
Less Fed Grants - SW	Spltallo-10	(147,405)
Less Fed Grants - SE	Spltallo-12	(144,379)
Total		2,826,944
Total Per This Page		2,826,944
Difference		0

WATER POLLUTION CONTROL PLANT INVESTMENT PER UNIT OF CAPACITY

Test Year 2024

Line No.	Cost Component	(1) Direct Investment $ Spltallo-24	(2) Units of Capacity	(3) Unit Investment $ (1)/(4)	(4) Input Units of Capacity			
	Northeast Water Pollution Control Plant							
	Retail, Abinton, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton							
1	- Capacity	5,079,000	370 mgd = 49,470 Mcf/day	102.6683 /Mcf/day	49,470	Mcf/day		
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
2	Volume	60,597,000	76,650 mg = 10,247,000 Mcf	5.9136 /Mcf	10,247,000	Mcf		
3	Capacity	24,584,000	420 mgd = 56,150 Mcf/day	437.8272 /Mcf/day	56,150	Mcf/day		
4	Suspended Solids	124,572,000	173,240,000 lbs	719.0718 /1,000 lbs	173,240,000	lbs		
5	BOD	106,410,000	128,491,000 lbs	828.1514 /1,000 lbs	128,491,000	lbs		
	Southwest Water Pollution Control Plant							
6	Retail - Capacity	22,043,000	50 mgd = 6,684 Mcf/day	3,297.8755 /Mcf/day	6,684	Mcf/day		
	Retail, DELCORA, Lower Merion, Springfield, (excluding Wyndmoor), and Upper Darby							
7	Volume	75,019,000	73,000 mg = 9,759,000 Mcf	7.6872 /Mcf	9,759,000	Mcf		
8	Capacity	19,926,000	400 mgd = 53,476 Mcf/day	372.6158 /Mcf/day	53,476	Mcf/day	(200 mgd):	
9	Suspended Solids	64,118,000	130,534,000 lbs	491.1981 /1,000 lbs (a)	178,354,000	lbs	130,287,000	lbs
10	BOD	53,154,000	78,168,000 lbs	679.9929 /1,000 lbs (a)	123,377,000	lbs	71,232,000	lbs
	Southeast Water Pollution Control Plant							
	Retail and Springfield (Wyndmoor)							
11	Volume	33,139,000	40,880 mg = 5,465,000 Mcf	6.0639 /Mcf	5,465,000	Mcf		
12	Capacity	42,518,000	224 mgd = 29,947 Mcf/day	1,419.7749 /Mcf/day	29,947	Mcf/day		
13	Suspended Solids	31,254,000	66,065,000 lbs	473.0795 /1,000 lbs	66,065,000	lbs		
14	BOD	25,735,000	56,940,000 lbs	451.9670 /1,000 lbs	56,940,000	lbs		

mg - million gallons
mgd - million gallons per day
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

(a) Unit investment adjusted for additional A&G in water plant associated with sewer plant.

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
INVSTCap2 - SW WPCP Treatment Plant Unit Costs	P.N. 135647.0100	January 27, 2023 2:13 p.m.			Spltallo-26

DEVELOPMENT OF UNIT COSTS FOR SOUTHWEST TREATMENT PLANT
Weighted between 200 mgd and 210 mgd facilities

	200 mgd 1,000		210 mgd 1,000	
Total SS Cost $106,291,000				
Non-Abatement:				
Direct	24,608	Spltallo-9, Ln 16 Less ------>	0	Spltallo-9, Ln 4
Admin. & General	20,796	Spltallo-9,Ln 19+Ln 20 Less ->	0	Spltallo-9,(Ln 19 + Ln 20)/Ln 16 * Line above [0]
Abatement:				
Direct	55,709	Spltallo-9, Ln 39 Less ------>	1,374	Spltallo-9,(Ln 25..29)
Admin. & General	3,712	Spltallo-9,Ln 40+Ln 41 Less ->	92	Spltallo-9,(Ln 40 + Ln 41)/Ln 39 * Line above [1,374]
	104,825		1,466	
Less Federal Grants:				
Direct	38,484	Spltallo-10, Ln 18 Less ------>	950	Spltallo-10,(Ln 4..8)
Admin. & General	2,673	Spltallo-10,Ln 19+Ln 20 Less ->	66	Spltallo-10,(Ln 19 + Ln 18)/Ln 18 * Line above [950]
Net Investment	63,668		450	
Total BOD Cost $99,201,000				
Non-Abatement:				
Direct	13,399	Spltallo-9, Ln 16 Less ------>	0	Spltallo-9, Ln 4
Admin. & General	20,757	Spltallo-9,Ln 19+Ln 20 Less ->	0	Spltallo-9,(Ln 19 + Ln 20)/Ln 16 * Line above [0]
Abatement:				
Direct	24,073	Spltallo-9, Ln 39 Less ------>	34,270	Spltallo-9,(Ln 25..29)
Admin. & General	2,765	Spltallo-9,Ln 40+Ln 41 Less ->	3,937	Spltallo-9,(Ln 40 + Ln 41)/Ln 39 * Line above [34270]
	60,994		38,207	
Less Federal Grants:				
Direct	16,631	Spltallo-10, Ln 18 Less ------>	23,675	Spltallo-10,(Ln 4..8)
Admin. & General	2,369	Spltallo-10,Ln 19+Ln 20 Less ->	3,372	Spltallo-10,(Ln 19 + Ln 20)/Ln 18 * Line above [23675]
Net Investment	41,994		11,160	

	Net Investment	Units		Unit Investment	
210 mgd					
SS	450,000	178,354	1,000 lbs	$2.5231	per 1,000 lbs
BOD	11,160,000	123,377	1,000 lbs	$90.4545	per 1,000 lbs
200 mgd					
SS	63,668,000	130,287	1,000 lbs	$488.6750	per 1,000 lbs
BOD	41,994,000	71,232	1,000 lbs	$589.5384	per 1,000 lbs
Total					
SS	64,118,000	130,534	1,000 lbs	$491.1981	per 1,000 lbs
BOD	53,154,000	78,168	1,000 lbs	$679.9929	per 1,000 lbs

SW WPCP			
1972/73 Design:	MGD	mg/l	Lbs
Design Flows	210		
Design SS		279	178,354,000
Design BOD		193	123,377,000
Design Flows	200		
Design SS		279	169,861,000
Design BOD		193	117,502,000
1984/85 Rating:			
Design Flows	200		
Design SS		214	130,287,000
Design BOD		117	71,232,000

File: SCOS23_24_ver1.xls Philadelphia Water Department (PWD) CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE Test Year 2024 Budget Yr 2023 Ver. 1a
INVSTCap3 - Whlsl Units of Service for Treatment Plants P.N. 135647.0100 January 27, 2023 2:13 p.m. Spltallo-27

Reference: Units-2

		Northeast WPC Plant								Southwest WPC Plant				WPC Plant	
	Units	Abington	Bensalem	Bucks County	Cheltenham	Lower Moreland	Lower Southhampton	Total Northeast	DELCORA	Lower Merion	Springfield (Excluding Wyndmoor)	Upper Darby	Total Southwest	Springfield (Wyndmoor)	Total
Contract Maximum Units															
Capacity:															
Sanitary Wastewater	(Mcf/day)	824	1,014	6,416	2,743	508	1,364	12,869	13,392	2,728	397	3,024	19,541	167	32,577
Infiltration	(Mcf/day)	20	20	140	60	10	30	280	0	60	10	70	140	0	420
Total	(Mcf/day)	844	1,034	6,556	2,803	518	1,394	13,149	13,392	2,788	407	3,094	19,681	167	32,997
															33,244
Volume:															
Sanitary Wastewater	(Mcf)	217,292	299,271	1,171,123	654,370	92,714	348,409	2,783,179	2,439,840	707,553	156,150	829,545	4,133,088	48,797	6,965,064
Infiltration	(Mcf)	4,500	5,600	35,100	15,000	2,800	7,500	70,500	0	14,900	2,200	16,600	33,700	900	105,100
Total	(Mcf)	221,792	304,871	1,206,223	669,370	95,514	355,909	2,853,679	2,439,840	722,453	158,350	846,145	4,166,788	49,697	7,070,164
Suspended Solids:															
Sanitary Wastewater	(1,000 lbs)	2,481	3,734	13,400	5,635	966	6,000	32,216	19,487	7,250	3,300	7,349	37,386	200	69,802
Infiltration	(1,000 lbs)	20	24	153	66	12	33	308	0	65	10	73	148	4	460
Total	(1,000 lbs)	2,501	3,758	13,553	5,701	978	6,033	32,524	19,487	7,315	3,310	7,422	37,534	204	70,262
BOD:															
Sanitary Wastewater	(1,000 lbs)	2,102	5,340	13,400	4,900	729	5,500	31,971	21,771	6,871	3,100	6,831	38,573	155	70,699
Infiltration	(1,000 lbs)	3	3	22	9	2	5	44	0	9	1	10	20	1	65
Total	(1,000 lbs)	2,105	5,343	13,422	4,909	731	5,505	32,015	21,771	6,880	3,101	6,841	38,593	156	70,764

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
TWNPALLO1 - Abington Allocated Investment	P.N. 135647.0100	January 27, 2023 2:13 p.m.			Spltallo-28

Reference: A. 1.5% I/I allowance x 1.5 peak factor

TABLE WH - 6

WASTEWATER SYSTEM INVESTMENT ALLOCATED TO ABINGTON TOWNSHIP

Test Year 2024

Line No.	Cost Component	Units	(1) Investment Per Unit $	(2) Number of Contract Units	(3) Infiltration/ Inflow Capacity Allocation Factor	(4) Allocated Investment $	(5) Allocated Investment Rounded $
			Spltallo-25	Spltallo-27	Ref A.	(2)*(3)*(4)	
	Treatment						
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton						
1	- Capacity	Mcf/day	102.6683	844		86,652	87,000
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton						
2	- Volume	Mcf	5.9136	221,792		1,311,589	1,312,000
3	- Capacity	Mcf/day	437.8272	844		369,526	370,000
4	- SS	1,000 lbs	719.0718	2,501		1,798,399	1,798,000
5	- BOD	1,000 lbs	828.1514	2,105		1,743,259	1,743,000
6	Total Treatment					5,309,425	5,310,000
	Conveyance						
7	Shady Lane & City Line	cfs	58,421	1.368	1.0225	81,718	82,000
8	Pennypack & City Line	cfs	49,045	7.694	1.0225	385,843	386,000
9	Cottman and Orville	cfs	45,328	0.480	1.0225	22,247	22,000
10	Total Conveyance					489,808	490,000
			System Investment/Cost		Allocation		
11	LTCP Investment		291,589,000		0.1000%	291,589	292,000
12	Total Allocated System Investment					6,090,822	6,092,000

cfs - cubic feet per second
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

	Investment	Reference
Abbington	6,092,000	Line 12, Column (6)
Bensalem	10,599,000	Spltallo-36
Bucks County	33,103,000	Spltallo-37
Cheltenham	17,137,000	Spltallo-29
DELCORA	48,734,000	Spltallo-38
Lower Merion	16,672,000	Spltallo-30
Lower Moreland	3,033,000	Spltallo-31
Lower Southampton	22,442,000	Spltallo-32
Springfield (less W)	6,659,000	Spltallo-33
Springfield	1,037,000	Spltallo-35
Upper Darby	16,677,000	Spltallo-39

Reference: A. 1.5% I/I allowance x 1.5 peak factor

TABLE WH - 9

WASTEWATER SYSTEM INVESTMENT ALLOCATED TO CHELTENHAM TOWNSHIP

Test Year 2024

Line No.	Cost Component	Units	(1) Investment Per Unit $ Spltallo-25	(2) Number of Contract Units Spltallo-27	(3) Infiltration/ Inflow Capacity Allocation Factor Ref. A	(4) Allocated Investment $ (2)*(3)*(4)	(5) Allocated Investment Rounded $	(6)
	Treatment							
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton							
1	- Capacity	Mcf/day	102.6683	NA		0	0	
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
2	- Volume	Mcf	5.9136	669,370		3,958,386	3,958,000	6.53%
3	- Capacity	Mcf/day	437.8272	2,803		1,227,230	1,227,000	4.99%
4	- SS	1,000 lbs	719.0718	5,701		4,099,428	4,099,000	3.29%
5	- BOD	1,000 lbs	828.1514	4,909		4,065,395	4,065,000	3.82%
6	Total Treatment					13,350,439	13,349,000	
	Conveyance							
7	Cheltenham and Tacony Creek	cfs	15,378	29.000	1.0225	455,996	456,000	
8	Bouvier Street	cfs	23,315	2.750	1.0225	65,559	66,000	
9	Total Conveyance					521,555	522,000	
			System Investment/Cost		Allocation			
10	LTCP Investment		291,589,000		1.120000%	3,265,797	3,266,000	
11	Total Allocated System Investment					17,137,791	17,137,000	

cfs - cubic feet per second
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

Reference: A. 1.5% I/I allowance x 1.5 peak factor

TABLE WH - 11

WASTEWATER SYSTEM INVESTMENT ALLOCATED TO LOWER MERION TOWNSHIP

Test Year 2024

Line No.	Cost Component	Units	(1) Investment Per Unit $ Spltallo-25	(2) Number of Contract Units Spltallo-27	(3) Infiltration/ Inflow Capacity Allocation Factor Ref. A	(4) Allocated Investment $ (2)*(3)*(4)	(5) Allocated Investment Rounded $
	Treatment						
	Retail, DELCORA, Lower Merion, Springfield, (excluding Wyndmoor), and Upper Darby						
1	Volume	Mcf	7.6872	722,453		5,553,641	5,554,000
2	Capacity	Mcf/day	372.6158	2,788		1,038,853	1,039,000
3	Suspended Solids	1,000 lbs	491.1981	7,315		3,593,114	3,593,000
4	BOD	1,000 lbs	679.9929	6,880		4,678,351	4,678,000
5	Total Treatment					14,863,959	14,864,000
	Conveyance						
6	City Avenue & 73rd Street	cfs	30,189	2.860	1.0225	88,283	88,000
7	City Avenue & 66rd Street	cfs	35,407	15.880	1.0225	574,914	575,000
8	City Avenue & Overbrook Station	cfs	69,259	2.290	1.0225	162,172	162,000
9	City Avenue & 59rd Street	cfs	132,481	0.330	1.0225	44,702	45,000
10	City Avenue & 54rd Street	cfs	57,917	0.050	1.0225	2,961	3,000
11	City Avenue & 51rd Street	cfs	60,355	8.470	1.0225	522,709	523,000
12	City Avenue & Conshohocken Avenue	cfs	103,583	0.390	1.0225	41,306	41,000
	City Avenue & Presidential Boulevard						
13	Sewers and Meter Station	cfs	134,831	1.300	1.0225	179,224	179,000
14	Neill Drive Pump Station	cfs	143,297	1.300	1.0225	190,478	190,000
	Barclay Building & Friends Central School						
15	Charged Inside Rates	cfs	43,227	0.052	1.0225	2,298	2,000
16	Total Conveyance					1,809,047	1,808,000
			System Investment/Cost		Allocation		
17	LTCP Investment		291,589,000		0.0000%	0	0
17	Total Allocated System Investment					16,673,006	16,672,000

cfs - cubic feet per second
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

Reference: A. 1.5% I/I allowance x 1.5 peak factor

TABLE WH - 12

WASTEWATER SYSTEM INVESTMENT ALLOCATED TO LOWER MORELAND TOWNSHIP

Test Year 2024

Line No.	Cost Component	Units	(1) Investment Per Unit $ Spltallo-25	(2) Number of Contract Units Spltallo-27	(3) Infiltration/ Inflow Capacity Allocation Factor Ref. A	(4) Allocated Investment $ (2)*(3)*(4)	(5) Allocated Investment Rounded $
	Treatment						
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton						
1	- Capacity	Mcf/day	102.6683	518		53,182	53,000
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton						
2	- Volume	Mcf	5.9136	95,514		564,832	565,000
3	- Capacity	Mcf/day	437.8272	518		226,794	227,000
4	- SS	1,000 lbs	719.0718	978		703,252	703,000
5	- BOD	1,000 lbs	828.1514	731		605,379	605,000
6	Total Treatment					2,153,439	2,153,000
	Conveyance						
7	Woodjavem Road and City Line	cfs	195,719	0.414	1.0225	82,851	83,000
8	Erwin Street and County Line	cfs	94,589	0.065	1.0225	6,287	6,000
9	Moreland Road and Pine Road	cfs	64,910	0.035	1.0225	2,323	2,000
10	Pine Road and Radburn Road	cfs	66,406	0.038	1.0225	2,580	3,000
11	Welsh Road and County Line	cfs	66,860	0.606	1.0225	41,429	41,000
12	City Line and Red Lion	cfs	66,860	0.017	1.0225	1,162	1,000
13	Conveyance Line	cfs	62,555	7.796	1.0225	498,652	499,000
14	PC-30 Improvements (a)		46,734,645		0.15%	70,102	70,000
15	Total Conveyance					705,386	705,000
			System Investment/Cost		Allocation		
16	LTCP Investment		291,589,000		0.06000%	174,953	175,000
16	Total Allocated System Investment					3,033,778	3,033,000

(a) Allocated 0.15 percent of the Sewer Fund's share of the project funding ($4,6734,645).

cfs - cubic feet per second
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

Reference: A. 1.5% I/I allowance x 1.5 peak factor

TABLE WH - 13

WASTEWATER SYSTEM INVESTMENT ALLOCATED TO LOWER SOUTHAMPTON TOWNSHIP

Test Year 2024

Line No.	Cost Component	Units	(1) Investment Per Unit $ Spltallo-25	(2) Number of Contract Units Spltallo-27	(3) Infiltration/ Inflow Capacity Allocation Factor Ref. A	(4) Allocated Investment $ (2)*(3)*(4)	(5) Allocated Investment Rounded $	(6)
	Treatment							
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton							
1	- Capacity	Mcf/day	102.6683	1,394		143,120	143,000	2.82%
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
2	- Volume	Mcf	5.9136	355,909		2,104,703	2,105,000	3.47%
3	- Capacity	Mcf/day	437.8272	1,394		610,331	610,000	2.48%
4	- SS	1,000 lbs	719.0718	6,033		4,338,160	4,338,000	3.48%
5	- BOD	1,000 lbs	828.1514	5,505		4,558,973	4,559,000	4.28%
6	Total Treatment					11,755,287	11,755,000	3.66%
	Conveyance							
7	Trevose and City Line	cfs	92,315	15.790	1.0225	1,490,451	1,490,000	
8	PC-30 Improvements (a)					8,730,032	8,730,000	
9	Total Conveyance					10,220,483	10,220,000	
			System Investment		Allocation			
10	LTCP Investment		291,589,000		0.16000%	466,542	467,000	
11	Total Allocated System Investment					22,442,312	22,442,000	

(a) Allocated 18.68 percent of the Sewer Fund's share of the project funding ($4,6734,645).

cfs - cubic feet per second
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

Reference: A. 1.5% I/I allowance x 1.5 peak factor

TABLE WH - 14

WASTEWATER SYSTEM INVESTMENT ALLOCATED TO SPRINGFIELD (EXCL. WYNDMOOR) TOWNSHIP

Test Year 2024

Line No.	Cost Component	Units	(1) Investment Per Unit $ Spltallo-25	(2) Number of Contract Units Spltallo-27	(3) Infiltration/ Inflow Capacity Allocation Factor Ref. A	(4) Allocated Investment $ (2)*(3)*(4)	(5) Allocated Investment Rounded $
	Treatment						
	Retail, DELCORA, Lower Merion, Springfield, (excluding Wyndmoor), and Upper Darby						
1	Volume	Mcf	7.6872	158,350		1,217,268	1,217,000
2	Capacity	Mcf/day	372.6158	407		151,655	152,000
3	Suspended Solids	1,000 lbs	491.1981	3,310		1,625,866	1,626,000
4	BOD	1,000 lbs	679.9929	3,101		2,108,658	2,109,000
5	Total Treatment					5,103,447	5,104,000
|SEE NOTE ON REVISIONS TO CONVEYANCE INFO MADE ON 9/29/95 BY JLW -->>							
	Conveyance (1)						
	Erdenheim and Stenton			Spltallo-34			
6	Sewers	cfs	139,780	2.000	1.0225	285,850	286,000
7	Central Schuylkill Pump Station	cfs	13,211	2.000	1.0225	27,016	27,000
8	Meter Station	ea	35,702	1.000	1.0225	36,505	37,000
9	Total					349,371	350,000
	Northwestern and Stenton			Spltallo-34			
10	Sewers	cfs	139,780	2.600	1.0225	371,605	372,000
11	Central Schuylkill Pump Station	cfs	13,211	2.600	1.0225	35,121	35,000
12	Meter Station	ea	10,270	1.000	1.0225	10,501	11,000
13	Total					417,227	418,000
14	Total Conveyance					766,598	768,000
			System Investment		Allocation		
15	LTCP Investment		291,589,000		0.27000%	787,290	787,000
16	Total Allocated System Investment					6,657,335	6,659,000

cfs - cubic feet per second
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

(1) Excludes connection at Northwestern and Thomas which accounts for less than one half of one percent of township flow.

NOTE

Prior to 9/29/95, the below descriptions of facilities and units were used in B&V calculations. However, after talking to J. Palladino on 9/28/95, JLW discovered that there are now 3 connection points for Springfield Excl. Wyndmoor (aka Erdenheim). Nomenclature of the three connections are different as well.

Prior to 9/29/95:

Conveyance	Units	Investment Per Unit	Contract Units	Allocation Factor	Allocated Investment	Investment Rounded
Stenton and Erdenheim						
Sewers	cfs	139,780	4.000	1.0225	571,700	572,000
Central Schuylkill Pump Station	cfs	13,211	4.000	1.0225	54,033	54,000
Meter Station	ea	35,702	1.000	1.0225	36,505	37,000
Total					662,238	662,000
Northwestern & Wissahickon						
Sewers	cfs	139,780	0.200	1.0225	28,585	29,000
Central Schuylkill Pump Station	cfs	13,211	0.200	1.0225	2,702	3,000
Meter Station	ea	51,349	0.200	1.0225	10,501	11,000
Total					41,788	42,000
Total Conveyance					704,026	704,000

9/29/95 Revisions:

1. Stenton and Erdenheim is called Erdenheim and Stenton.
2. Northwestern and Wissahickon is called Northwestern and Stenton
3. A third connection exists (v. small and not metered, flow assumed to be 0.8 MG per quarter) called Northwestern and Thomas.
4. A large portion of the flow through the E & S connection has been shifted to the N & S connection, as mentioned in the contract dated 3/4/74, item 7.

Prior:					
March 1, 1961 Contract					
E & S	4.00	cfs	2.15	mgd	
N & S	0.20	cfs	0.10	mgd	
March 4, 1974 Contract					
E & S	1.85	cfs	0.75	mgd	<-- Revised dist. of E&S flows
N & S	0.20	cfs	0.10	mgd	
N & S	2.15	cfs	1.40	mgd	<-- Revised dist. of E&S flows
N & S	2.35	cfs	1.50	mgd	
Revised:					
E & S	2.00	cfs	1.10	mgd	
N & S	2.60	cfs	2.10	mgd	
Total	4.60	cfs	3.20	mgd	<-- Totals redistributed in proportion to March 4, 1974 contract units

5. Meter Station investment at N & S (formerly N & W) is revised to $10,270 rather than 0.2 * $51,349 to be consistent with E & S connection.

Reference: A. 1.5% I/I allowance x 1.5 peak factor

TABLE WH - 15

WASTEWATER SYSTEM INVESTMENT ALLOCATED TO SPRINGFIELD (WYNDMOOR) TOWNSHIP

Test Year 2024

Line No.	Cost Component	Units	(1) Investment Per Unit $ Spltallo-25	(2) Number of Contract Units Spltallo-27	(3) Infiltration/ Inflow Capacity Allocation Factor Ref. A	(4) Allocated Investment $ (2)*(3)*(4)	(5) Allocated Investment Rounded $
	Treatment						
	Retail and Springfield (Wyndmoor)						
1	Volume	Mcf	6.0639	49,697		301,358	301,000
2	Capacity	Mcf/day	1419.7749	167		237,102	237,000
3	Suspended Solids	1,000 lbs	473.0795	204		96,508	97,000
4	BOD	1,000 lbs	451.9670	156		70,507	71,000
5	Total Treatment					705,475	706,000
	Conveyance						
6		cfs	167,854	1.930	1.0225	331,247	331,000
7	Total Conveyance					331,247	331,000
8	Total Allocated System Investment					1,036,722	1,037,000

cfs - cubic feet per second
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

Reference: A. 1.5% I/I allowance x 1.5 peak factor

TABLE WH - 7

WASTEWATER SYSTEM INVESTMENT ALLOCATED TO BENSALEM TOWNSHIP

Test Year 2024

Line No.	Cost Component	Units	(1) Investment Per Unit $ Spltallo-25	(2) Number of Contract Units Spltallo-27	(3) Infiltration/ Inflow Capacity Allocation Factor Ref. A	(4) Allocated Investment $ (2)*(3)*(4)	(5) Allocated Investment Rounded $
	Treatment						
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton						
1	- Capacity	Mcf/day	102.6683	1,034		106,159	106,000
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton						
2	- Volume	Mcf	5.9136	304,871		1,802,885	1,803,000
3	- Capacity	Mcf/day	437.8272	1,034		452,713	453,000
4	- SS	1,000 lbs	719.0718	3,758		2,702,272	2,702,000
5	- BOD	1,000 lbs	828.1514	5,343		4,424,813	4,425,000
6	Total Treatment					9,488,842	9,489,000
	Conveyance						
7	A-1	cfs	84,833	0.370	1.0225	32,094	32,000
8	A-2	cfs	105,688	0.880	1.0225	95,098	95,000
9	A-3	cfs	117,743	0.120	1.0225	14,447	14,000
10	A-4	cfs	115,847	0.080	1.0225	9,476	9,000
11	B	cfs	131,354	0.840	1.0225	112,820	113,000
12	C	cfs	72,634	0.750	1.0225	55,701	56,000
13	D	cfs	67,910	0.460	1.0225	31,941	32,000
14	E	cfs	204,911	0.380	1.0225	79,618	80,000
15	F	cfs	49,726	0.580	1.0225	29,490	29,000
16	G-1	cfs	48,680	0.270	1.0225	13,439	13,000
17	G-2	cfs	48,680	0.510	1.0225	25,385	25,000
18	H	cfs	64,044	2.720	1.0225	178,119	178,000
19	J-1	cfs	133,427	0.676	1.0225	92,226	92,000
20	J-2	cfs	38,820	0.161	1.0225	6,391	6,000
21	J-3	cfs	258,008	0.383	1.0225	101,040	101,000
22	K-1	cfs	204,907	0.430	1.0225	90,092	90,000
23	K-2	cfs	66,776	2.130	1.0225	145,433	145,000
24	PC-30 Improvements (a)					0	0
25	Total Conveyance					1,112,810	1,110,000
			System Investment		Allocation		
26	LTCP Investment		291,589,000		0.00%	0	0
26	Total Allocated System Investment					10,601,652	10,599,000

(a) Allocated 18.30 percent of the Sewer Fund's share of the project funding ($4,6734,645).

cfs - cubic feet per second
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

Reference: A. 1.5% I/I allowance x 1.5 peak factor

TABLE WH - 8

WASTEWATER SYSTEM INVESTMENT ALLOCATED TO BUCKS COUNTY

Test Year 2024

Line No.	Cost Component	Units	(1) Investment Per Unit $ Spltallo-25	(2) Number of Contract Units Spltallo-27	(3) Infiltration/ Inflow Capacity Allocation Factor Ref. A	(4) Allocated Investment $ (2)*(3)*(4)	(5) Allocated Investment Rounded $	(6) Assets in Service Prior to FY 2007 Allocated Investment Rounded $ Contribution Portion
	Treatment							
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton							
1	- Capacity	Mcf/day	102.6683	6,556		673,093	673,000	567,000
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
2	- Volume	Mcf	5.9136	1,206,223		7,133,120	7,133,000	6,028,000
3	- Capacity	Mcf/day	437.8272	6,556		2,870,395	2,870,000	2,509,000
4	- SS	1,000 lbs	719.0718	13,553		9,745,580	9,746,000	5,358,000
5	- BOD	1,000 lbs	828.1514	13,422		11,115,448	11,115,000	7,778,000
6	Total Treatment					31,537,636	31,537,000	22,240,000
	Conveyance							
7	Large Sewers	cfs	18,000	85.080	1.0225	1,565,897	1,566,000	1,566,000
8	Total Conveyance					1,565,897	1,566,000	1,566,000
			System Investment		Allocation			
9	LTCP Investment		291,589,000		0.0000%	0	0	0
10	Total Allocated System Investment					33,103,533	33,103,000	23,806,000

cfs - cubic feet per second
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

TABLE WH - 10

WASTEWATER SYSTEM INVESTMENT ALLOCATED TO DELCORA

Test Year 2024

Line No.	Cost Component	(1) Units	(2) Investment Per Unit $ Spltallo-25	(3) Number of Contract Units Spltallo-27	(4) Infiltration/ Inflow Capacity Allocation Factor	(5) Allocated Investment $ (2)*(3)*(4)	(6) Allocated Investment Rounded $		Assets in Service Prior to FY 2011 Allocated Investment Rounded $ Contribution Portion	
	Treatment									
	Retail, DELCORA, Lower Merion, Springfield, (excluding Wyndmoor), and Upper Darby									
1	Volume	Mcf	7.6872	2,439,840		18,755,538	18,756,000	25.00%	15,903,000	2,853,000
2	Capacity	Mcf/day	372.6158	13,392		4,990,071	4,990,000	25.04%	4,200,000	790,000
3	Suspended Solids	1,000 lbs	491.1981	19,487		9,571,977	9,572,000	10.93%	7,067,000	2,505,000
4	BOD	1,000 lbs	679.9929	21,771		14,804,125	14,804,000	17.65%	12,263,000	2,541,000
5	Total Treatment					48,121,711	48,122,000		39,433,000	8,689,000
6	Conveyance									
						0	0		0	
7	Total Conveyance					0	0		0	
			System Investment/Cost		Allocation					
8	LTCP Investment		291,589,000		0.21000%	612,337	612,000		2,000	
8	Total Allocated System Investment					48,734,048	48,734,000		39,435,000	

cfs - cubic feet per second
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

Reference: A. 1.5% I/I allowance x 1.5 peak factor

TABLE WH - 16

WASTEWATER SYSTEM INVESTMENT ALLOCATED TO UPPER DARBY
Test Year 2024

Line No.	Cost Component	Units	(1) Investment Per Unit $ Spltallo-25	(2) Number of Contract Units Spltallo-27	(3) Infiltration/ Inflow Capacity Allocation Factor Ref. A	(4) Allocated Investment $ (2)*(3)*(4)	(5) Allocated Investment Rounded $
	Treatment						
	Retail, DELCORA, Lower Merion, Springfield, (excluding Wyndmoor), and Upper Darby						
1	Volume	Mcf	7.6872	846,145		6,504,486	6,504,000
2	Capacity	Mcf/day	372.6158	3,094		1,152,873	1,153,000
3	Suspended Solids	1,000 lbs	491.1981	7,422		3,645,427	3,645,000
4	BOD	1,000 lbs	679.9929	6,841		4,651,831	4,652,000
5	Total Treatment					15,954,617	15,954,000
6	Conveyance						
7	60th Street and Cobbs Creek Parkway	cfs	20,191	35.000	1.0225	722,585	723,000
8	Total Conveyance					722,585	723,000
			System Investment/Cost		Allocation		
9	LTCP Investment		291,589,000		0.00000%	0	0
10	Total Allocated System Investment					16,677,202	16,677,000

cfs - cubic feet per second
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

File: SCOS23_24_ver1.xls Philadelphia Water Department (PWD) CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE Test Year 2024 Budget Yr 2023 Ver. 1a
CONVALLO - Treatment Plant Conveyance Investment A1P.N. 135647.0100 January 27, 2023 2:13 p.m. Spltallo-40

TREATMENT PLANT AND CONVEYANCE SYSTEM
INVESTMENT ALLOCATED TO TOWNSHIPS

Line No.	Cost Component	NEWPCP Abington $ Spltallo-28	Bensalem $ Spltallo-36	Bucks County $ Spltallo-37	Cheltenham $ Spltallo-29	Lower Moreland $ Spltallo-31	Lower Southampton $ Spltallo-32	DELCORA $ Spltallo-38	SWPCP Lower Merion $ Spltallo-30	Springfield (ex Wynd.) $ Spltallo-33	Upper Darby $ Spltallo-39	SEWPCP Springfield ncluding Wynd $ Spltallo-36	Total $
	COLLECTION SYSTEM												
1	Sewers - Capacity	490,000	1,110,000	1,566,000	522,000	705,000	10,220,000	0	1,618,000	706,000	723,000	331,000	17,991,000
2	Pumping Stations - Capacity	0	0	0	0	0	0	0	190,000	62,000	0	0	252,000
3	LTCP Investment	292,000	0	0	3,266,000	175,000	467,000	612,000	0	787,000	0		5,599,000
4	Total Collection System	782,000	1,110,000	1,566,000	3,788,000	880,000	10,687,000	612,000	1,808,000	1,555,000	723,000	331,000	23,842,000
	WATER POLLUTION CONTROL PLANTS												
	Northeast Plant:												
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton												
5	- Capacity	87,000	106,000	673,000	0	53,000	143,000						1,062,000
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton												
6	Volume	1,312,000	1,803,000	7,133,000	3,958,000	565,000	2,105,000						16,876,000
7	Capacity	370,000	453,000	2,870,000	1,227,000	227,000	610,000						5,757,000
8	Suspended Solids	1,798,000	2,702,000	9,746,000	4,099,000	703,000	4,338,000						23,386,000
9	BOD	1,743,000	4,425,000	11,115,000	4,065,000	605,000	4,559,000						26,512,000
10	Subtotal	5,223,000	9,383,000	30,864,000	13,349,000	2,100,000	11,612,000						72,531,000
11	Total Northeast Plant	5,310,000	9,489,000	31,537,000	13,349,000	2,153,000	11,755,000						73,593,000
	Southwest Plant:												
12	Retail - Capacity												
	Retail, DELCORA, Lower Merion, Springfield, (excluding Wyndmoor), and Upper Darby												
13	Volume							18,756,000	5,554,000	1,217,000	6,504,000		32,031,000
14	Capacity							4,990,000	1,039,000	152,000	1,153,000		7,334,000
15	Suspended Solids							9,572,000	3,593,000	1,626,000	3,645,000		18,436,000
16	BOD							14,804,000	4,678,000	2,109,000	4,652,000		26,243,000
17	Total Southwest Plant							48,122,000	14,864,000	5,104,000	15,954,000		84,044,000
	Southeast Plant:												
	Retail and Springfield (Wyndmoor)												
18	Volume											301,000	301,000
19	Capacity											237,000	237,000
20	Suspended Solids											97,000	97,000
21	BOD											71,000	71,000
22	Total Southeast Plant											706,000	706,000
23	Total Water Pollution Control Plants	5,310,000	9,489,000	31,537,000	13,349,000	2,153,000	11,755,000	48,122,000	14,864,000	5,104,000	15,954,000	706,000	158,343,000
24	Total Investment	6,092,000	10,599,000	33,103,000	17,137,000	3,033,000	22,442,000	48,734,000	16,672,000	6,659,000	16,677,000	1,037,000	182,185,000
	Total Investment Rounded from Spltallo-29 thru Spltallo-39.	6,092,000	10,599,000	33,103,000	17,137,000	3,033,000	22,442,000	48,734,000	16,672,000	6,659,000	16,677,000	1,037,000	182,185,000
	Total Collection System (above)	782,000	1,110,000	1,566,000	3,788,000	880,000	10,687,000	612,000	1,618,000	1,493,000	723,000	331,000	23,590,000
	Total Water Pollution Control Plants & Pumping (Difference)	5,310,000	9,489,000	31,537,000	13,349,000	2,153,000	11,755,000	48,122,000	15,054,000	5,166,000	15,954,000	706,000	158,595,000

ALLOCATION OF LAND INVESTMENT TO CONTRACT CUSTOMERS

(a) Total SWWPCP Investment	234,260,000	Spltallo-24	Ln 17
(b) Total DELCORA Allocated Treatment Plant Investment	48,122,000	Spltallo-40	Ln 17
(c) Total Upper Darby Allocated Treatment Plant Investment	15,954,000	Spltallo-40	Ln 17
(c1) Total Lower Merion Allocated Treatment Plant Investment	14,864,000	Spltallo-40	Ln 17
(d) Total SWWPCP Land Investment	687,000	Spltallo-9	Ln 18
(e) Total SWWPCP Depreciable Plant Investment	233,573,000	(a) - (d)	

Lower Merion Allocated Land=	(c1)-{((e)/(a))*(c1)}=	44,000
DELCORA Allocated Land =	(b)-{((e)/(a))*(b)} =	141,000
Upper Darby Allocated Land =	(c)-{((e)/(a))*(c)} =	47,000

(a) Total NEWPCP Investment	321,242,000	Spltallo-24	Ln 11
(b) Total Bensalem Allocated Treatment Plant Investment	9,489,000	Spltallo-40	Ln 11
(c) Total Bucks County Allocated Treatment Plant Investment	31,537,000	Spltallo-40	Ln 11
(d) Total Lower Southampton Allocated Treatment Plant Investment	11,755,000	Spltallo-40	Ln 11
(e) Total NEWWPCP Land Investment	945,000	Spltallo-6	Ln 22
(f) Total NEWPCP Depreciable Plant Investment	320,297,000	(a) - (e)	

Bensalem Allocated Land =	(b)-{((f)/(a))*(b)} =	28,000
Bucks County Allocated Land =	(c)-{((f)/(a))*(c)} =	93,000
Lower Southampton Allocated Land =	(d)-{((f)/(a))*(d)} =	35,000

	(1) Total Land $1,000 Spltallo-8 Spltallo-9 Spltallo-10	(2) Total Investment $1,000 Spltallo-24	(3) Total Investment Alloc to Contract Customers $1,000 Spltallo-24	(4) Total Land Alloc to Contract Customers $1,000 (a)	
NEWPCP	945	321,242	73,593	60	(excl. Bensalem, Bucks County, and Lower Southampton above)
SWWPCP	687	234,260	84,044	14	(excl. DELCORA, Lower Merion and Upper Darby above)
SEWPCP	156	132,646	706	1	
Total	1,788	688,148	158,343	75	

(a) (1)*(3)/(2) - Bensalem, Bucks Co., Lower Southampton, DELCORA, Lower Merion, and Upper Darby above.

TOTAL DEPRECIABLE PUMPING AND TREATMENT INVESTMENT FOR CONTRACT CUSTOMERS

Contract Customer	(1) Total Treatment Investment $1,000 Spltallo-40	(2) Less Land $1,000 Spltallo-41	(3) Total Depreciable Treatment Investment $1,000 (1)-(2)	(4) Pumping Investment $1,000 Spltallo-40	(5) Total Depreciable P & T Investment $1,000 (3)+(4)
Abington	5,310	15	5,295		5,295
Bensalem	9,489	28	9,461		9,461
Bucks County	31,537	93	31,444		31,444
Cheltenham	13,349	39	13,310		13,310
Lower Moreland	2,153	6	2,147		2,147
Lower Southampton	11,755	35	11,720		11,720
Total NEWPCP	73,593	216	73,377		73,377
DELCORA	48,122	141	47,981		47,981
Lower Merion	14,864	44	14,820	190	15,010
Springfield (excluding Wynd)	5,104	14	5,090	62	5,152
Upper Darby	15,954	47	15,907		15,907
Total SWWPCP	84,044	246	83,798	252	84,050
Springfield (including Wynd)	706	1	705		705
Total SEWPCP	706	1	705		705
Total Treatment	158,343	463	157,880	252	158,132

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
TWNSHP - Township Contributed Investment	P.N. 135647.0100	January 27, 2023 2:13 p.m.			Spltallo-43

DELCORA CONTRIBUTED INVESTMENT

		(1) Total Investment $1,000 Spltallo-40	(2) Allocated Land $1,000 Spltallo-41	(3) Depreciable Investment $1,000 (1)-(2)
Collection-	Capacity			
Treat & Pumping-				
	Volume	15,903	57	15,846
	Capacity	4,200	15	4,185
	Suspended Solids	7,067	25	7,042
	BOD	12,263	44	12,219
	Total	39,433	141	39,292

DELCORA is no longer a contribution customer - This portion reflects the assets prior to 2011 to reflect their contribution

UPPER DARBY CONTRIBUTED INVESTMENT

		(1) Total Investment $1,000 Spltallo-40	(2) Allocated Land $1,000 Spltallo-41	(3) Depreciable Investment $1,000 (1)-(2)
Collection-	Capacity	723		723
Treat & Pumping-				
	Volume	6,504	19	6,485
	Capacity	1,153	3	1,150
	Suspended Solids	3,645	11	3,634
	BOD	4,652	14	4,638
	Total	15,954	47	15,907

BENSALEM CONTRIBUTED INVESTMENT

		Total Investment $1,000 Spltallo-40	Allocated Land $1,000 Spltallo-41	Depreciable Investment $1,000 (1)-(2)
Collection-	Capacity	1,110		1,110
Treat & Pumping-				
	Volume	1,803	5	1,798
	Capacity	559	2	557
	Suspended Solids	2,702	8	2,694
	BOD	4,425	13	4,412
	Total	9,489	28	9,461

BUCKS COUNTY CONTRIBUTED INVESTMENT

		Total Investment $1,000 Spltallo-40	Allocated Land $1,000 Spltallo-41	Depreciable Investment $1,000 (1)-(2)
Collection-	Capacity	567		567
Treat & Pumping-				
	Volume	6,028	26	6,002
	Capacity	2,509	11	2,498
	Suspended Solids	5,358	23	5,335
	BOD	7,778	33	7,745
	Total	21,673	93	21,580

BUCKS County is no longer a contribution customer - This portion reflects the assets prior to 2007 to reflect their contribution

LOWER SOUTHAMPTON CONTRIBUTED INVESTMENT

		Total Investment $1,000 Spltallo-40	Allocated Land $1,000 Spltallo-41	Depreciable Investment $1,000 (1)-(2)
Collection-	Capacity	0		0
Treat & Pumping-				
	Volume	0	0	0
	Capacity	0	0	0
	Suspended Solids	0	0	0
	BOD	0	0	0
	Total	0	0	0

Lower Southampton is no longer a contribution customer - This portion reflects their remaining contribution (phased out over 18 years)

LOWER MERION CONTRIBUTED INVESTMENT

		Total Investment $1,000 Spltallo-40	Allocated Land $1,000 Spltallo-41	Depreciable Investment $1,000 (1)-(2)
Collection-	Capacity	1,618		1,618
Treat & Pumping-				
	Volume	5,554	16	5,538
	Capacity	1,039	3	1,036
	Suspended Solids	3,593	11	3,582
	BOD	4,678	14	4,664
	Total	14,864	44	14,820

TEST YEAR ANNUAL DEPRECIATION EXPENSE

Line No.	Cost Component	(1) Total Investment $1,000 Spltallo-24	(2) Less Contributed Plant (a) $1,000 Spltallo-43	(3) Less Land (d) $1,000 Spltallo-5 Spltallo-41	(4) Depreciable Plant $1,000 (1)-(2)-(3)	(5) Annual Depr Rate % Input	(6) Annual Depreciation Expense $1,000 (4)*(5)
	COLLECTION SYSTEM						
1	Sewers - Capacity	1,823,982	4,018	1,816	1,818,148	2.00%	36,363
2	Pumping Stations - Capacity	23,225	190		23,035	2.50%	576
3	LTCP Investment	291,589			291,589	2.00%	5,832
4	Total Collection System	2,138,796	4,208	1,816 (b)	2,132,772		42,771
	WATER POLLUTION CONTROL PLANTS						
	Northeast Plant:						
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton						
5	Volume (c)	60,597	7,800	178	52,619		
6	Capacity	29,663	3,055	87	26,521		
7	Suspended Solids	124,572	8,029	366	116,177		
8	BOD	106,410	12,157	314	93,939		
9	Total Northeast Plant	321,242	31,041	945	289,256	2.50%	7,231
	Southwest Plant:						
	Retail, DELCORA, Lower Merion, Springfield, (excluding Wyndmoor), and Upper Darby						
10	Volume	75,019	27,869	220	46,930		
11	Capacity	41,969	6,371	123	35,475		
12	Suspended Solids	64,118	14,258	188	49,672		
13	BOD	53,154	21,521	156	31,477		
14	Total Southwest Plant	234,260	70,019	687	163,554	2.50%	4,089
	Southeast Plant:						
	Retail and Springfield (Wyndmoor)						
15	Volume	33,139		39	33,100		
16	Capacity	42,518		50	42,468		
17	Suspended Solids	31,254		37	31,217		
18	BOD	25,735		30	25,705		
19	Total Southeast Plant	132,646		156	132,490	2.50%	3,312
20	Total Water Pollution Control Plants	688,148	101,060	1,788	585,300		14,632
21	Total Investment	2,826,944	105,268	3,604	2,718,072		57,403

(a) Contributed Plant includes Bensalem, Bucks County, Lower Southampton, DELCORA, Lower Merion, and Upper Darby.
(b) All land backed out of Sewers, instead of Sewers and Pump Stations, because land only added into Sewers on SPLTALLO5, BOX 4.
(c) Typical Volume calculation in Column (2) from numbers on Spltallo-43 is: 1,798.0 (Bensalem) + 6,002.0 (Bucks Co.) + 0.0 (Lower Southampton) = 7,800.0 (excludes land)
(d) Total land including contributed land.

AVERAGE TEST YEAR DEPRECIABLE PLANT INVESTMENT ALLOCABLE TO CONTRACT CUSTOMERS

Line No.	Cost Component	(1) Total Investment $1,000 Spltallo-24	(2) Investment Allocated to Contract Service $1,000 Spltallo-40	(3) Investment Allocated to Retail Service $1,000 (1)-(2)	(4) Contract Customer Land excl. Contributed Plant (a) $1,000 Spltallo-41 Prorated on (3)	(5) Contract Customer Depreciable Plant incl. Contributed Plant $1,000 (2)-(4)	(6) Contributed Plant (incl. Land) $1,000 Spltallo-43 Spltallo-44	(7) Contract Customer Depreciable Plant $1,000 (5)-(6)	(8) Depreciation Rate	(9) Annual Depreciation Expense $1,000 (7) x (8)
	COLLECTION SYSTEM									
1	Sewers - Capacity	1,823,982	17,991	1,805,991		17,991	4,018	13,973	2.00%	279
2	Pumping Stations - Capacity	23,225	252	22,973		252	190	62	2.50%	2
3	LTCP Investment	291,589	5,599	285,990		5,599	0	5,599	2.00%	112
4	Total Collection System	2,138,796	23,842	2,114,954		23,842	4,208	19,634		393
	WATER POLLUTION CONTROL PLANTS									
	Northeast Plant:									
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton									
5	Volume (b)	60,597	16,876	43,721	11	16,865	7,831	9,034		
6	Capacity	29,663	6,819	22,844	6	6,813	3,068	3,745		
7	Suspended Solids	124,572	23,386	101,186	25	23,361	8,060	15,301		
8	BOD	106,410	26,512	79,898	18	26,494	12,203	14,291		
9	Total Northeast Plant	321,242	73,593	247,649	60	73,533	31,162	42,371	2.50%	1,059
	Southwest Plant:									
	Retail, DELCORA, Lower Merion, Springfield, (excluding Wyndmoor), and Upper Darby									
10	Volume	75,019	32,031	42,988	4	32,027	27,961	4,066		
11	Capacity	41,969	7,334	34,635	3	7,331	6,392	939		
12	Suspended Solids	64,118	18,436	45,682	4	18,432	14,305	4,127		
13	BOD	53,154	26,243	26,911	3	26,240	21,593	4,647		
14	Total Southwest Plant	234,260	84,044	150,216	14	84,030	70,251	13,779	2.50%	344
	Southeast Plant:									
	Retail and Springfield (Wyndmoor)									
15	Volume	33,139	301	32,838	1	300		300		
16	Capacity	42,518	237	42,281		237		237		
17	Suspended Solids	31,254	97	31,157		97		97		
18	BOD	25,735	71	25,664		71		71		
19	Total Southeast Plant	132,646	706	131,940	1	705		705	2.50%	18
20	Total Water Pollution Control Plants	688,148	158,343	529,805	75	158,268	101,413	56,855		1,421
21	Total Investment	2,826,944	182,185	2,644,759	75	182,110	105,621	76,489		1,814

(a) Contributed Plant includes Bensalem, Bucks County, Lower Southampton, DELCORA, Lower Merion, and Upper Darby.
(b) Typical Volume calculation in Column (6) from numbers on Spltallo-43 is: 1,803.0 (Bensalem) + 6,028.0 (Bucks Co.) + 0.0 (Lower Southampton) = 7,831.0

DETERMINATION OF DEPRECIABLE PLANT INVESTMENT ALLOCABLE TO RETAIL SERVICE TEST YEAR 2024

Line No.	Cost Component	(1) Total Depreciable Plant $1,000 Spltallo-44	(2) Contract Customers Depreciable Plant $1,000 Spltallo-45	(3) Net Depreciable Plant Allocable to Retail $1,000 (1)-(2)	(4) Annual Depr Rate %	(5) Net Depreciation Allocable to Retail $1,000
	COLLECTION SYSTEM					
1	Sewers - Capacity	1,818,148	13,973	1,804,175	2.00%	36,084
2	Pumping Stations - Capacity	23,035	62	22,973	2.50%	574
3	LTCP Investment	291,589	5,599	285,990	2.00%	5,720
3	Total Collection System	2,132,772	19,634	2,113,138		42,378
	WATER POLLUTION CONTROL PLANTS					
	Northeast Plant:					
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton					
4	Volume	52,619	9,034	43,585		
5	Capacity	26,521	3,745	22,776		
6	Suspended Solids	116,177	15,301	100,876		
7	BOD	93,939	14,291	79,648		
8	Total Northeast Plant	289,256	42,371	246,885	2.50%	6,172
	Southwest Plant:					
	Retail, DELCORA, Lower Merion, Springfield, (excluding Wyndmoor), and Upper Darby					
9	Volume	46,930	4,066	42,864		
10	Capacity	35,475	939	34,536		
11	Suspended Solids	49,672	4,127	45,545		
12	BOD	31,477	4,647	26,830		
13	Total Southwest Plant	163,554	13,779	149,775	2.50%	3,744
	Southeast Plant:					
	Retail and Springfield (Wyndmoor)					
14	Volume	33,100	300	32,800		
15	Capacity	42,468	237	42,231		
16	Suspended Solids	31,217	97	31,120		
17	BOD	25,705	71	25,634		
18	Total Southeast Plant	132,490	705	131,785	2.50%	3,295
19	Total Water Pollution Control Plants	585,300	56,855	528,445		13,211
20	Total Investment	2,718,072	76,489	2,641,583		55,589

SCOS23_24.XLS

SOMALLO

The "Somallo" worksheet allocates Wastewater System operation and maintenance expense to functional cost components. It also allocates O&M expense to the individual contract customers.

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TYO&M	Test Year O&M Expenses	Somallo-2	
WO&M	Test Year O&M Expenses - Water	Somallo-3	
SO&M	Test Year O&M Expenses - Sewer	Somallo-4	
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CL200A	Not in Use	Somallo-7	
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CL300SUM	Class 300 O&M Summary	Somallo-19	
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POWER	Test Year Power Costs	Somallo-21a	
GAS	Test Year Gas Costs	Somallo-21b	
TOTALOM	Test Year O&M Summary	Somallo-22	
NEOM	Allocation of O&M Expense to NE WPCP	Somallo-23	
SWOM	Allocation of O&M Expense to SW WPCP	Somallo-24	
SEOM	Allocation of O&M Expense to SE WPCP	Somallo-25	
RESPON	Treatment Plant Responsibilities	Somallo-26	
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NEOMALLO2	Allocation of O&M For The NE WPCP - Page 2	Somallo-28	Schedule BV-2: Table 7-8
BASISALLO	Basis of Allocation of O&M Expense	Somallo-29	
NEOMSUM	Summary of Allocated O&M NE WPCP	Somallo-30	
SWOMALLO1	Allocation of O&M For The SW WPCP - Page 1	Somallo-31	Schedule BV-2: Table 7-9
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SEOMALLO1	Allocation of O&M For The SE WPCP - Page 1	Somallo-34	Schedule BV-2: Table 7-10
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MISCOM	Miscellaneous Other O&M Allocations	Somallo-38	
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MISCREV	Misc Revenue Adjustments	Somallo-55	

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
TYO&M - Test Year O&M Expenses	P.N. 135647.0100	January 27, 2023 3:18 p.m.					Somallo-2

Ref: Direct O&M - 3, Direct O&M - 6, Other Dept O&M - 3
Source: Financial Planning Model

Summary of Combined
O&M Expense Projections
(Liquidated Encumbrances Have Been Deducted)

	Prior to FY 2023 Not Included								Future Years Beyond Projection Period								
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$
Operations Division:																	
Class 100	0	0	93,409,889	97,344,614	103,613,534	108,622,572	112,658,869	117,506,789	122,544,191	127,778,081	133,215,714	138,864,005	145,237,061	151,868,123	158,765,088	165,940,445	172,923,88
Class 200	0	0	95,221,342	105,433,359	110,913,668	115,361,476	120,006,575	124,858,049	129,925,405	135,218,593	140,748,026	146,524,606	152,559,738	158,865,466	165,453,987	172,338,681	179,535,14
Class 300	0	0	45,346,447	59,678,138	71,242,349	78,271,696	86,052,267	94,667,478	97,181,220	100,069,488	102,836,645	105,685,167	108,617,629	111,636,682	114,745,071	117,945,633	121,241,30
Class 400	0	0	3,069,162	3,878,487	4,243,453	4,524,794	4,824,787	5,144,671	5,485,762	5,669,535	5,859,465	6,055,757	6,258,625	6,469,289	6,684,926	6,908,923	7,140,37
Total	0	0	237,046,839	266,334,598	290,013,003	306,780,537	323,542,498	342,176,987	355,336,578	368,735,698	382,659,848	397,130,135	412,673,053	428,338,460	445,649,731	463,133,682	480,838,70
Other Department Expenses:																	
WRB	0	0	13,869,370	14,521,053	15,133,941	15,674,347	16,235,016	16,816,748	17,420,372	18,040,674	18,684,098	19,351,347	20,043,960	20,762,315	21,507,628	22,280,959	23,083,41
Law Department	0	0	4,061,413	4,226,330	4,382,163	4,527,782	4,678,434	4,834,300	4,995,369	5,162,154	5,334,518	5,512,469	5,697,427	5,888,416	6,086,033	6,290,641	6,502,37
Public Properties	0	0	4,610,413	4,739,044	4,859,415	4,942,997	5,028,017	5,114,499	5,202,468	5,291,951	5,382,972	5,475,559	5,569,739	5,665,538	5,762,986	5,862,109	5,962,93
Water Dept. (Xfer to Gen'l. Fund)	0	0	6,250,578	6,736,248	7,187,576	7,524,673	7,877,581	8,247,039	8,633,825	8,834,993	9,040,849	9,251,501	9,467,061	9,687,643	9,913,385	10,144,347	10,380,71
Total	0	0	28,791,774	30,222,674	31,563,095	32,669,800	33,819,048	35,012,586	36,252,235	37,329,772	38,442,437	39,591,476	40,778,186	42,003,913	43,270,052	44,578,055	45,929,43
Human Resources:																	
Class 100	0	0	12,923,806	13,414,565	14,035,574	14,456,642	14,890,341	15,337,051	15,797,163	16,271,078	16,759,210	17,261,986	17,779,846	18,313,241	18,862,638	19,428,518	20,011,37
Class 200	0	0	2,972,993	3,836,394	4,093,433	4,285,415	4,486,400	4,696,813	4,917,093	5,147,705	5,389,132	5,641,882	5,906,487	6,183,501	6,473,507	6,777,115	7,094,96
Class 300	0	0	626,964	675,679	720,949	754,762	790,160	827,218	866,015	901,781	939,025	977,807	1,018,190	1,060,241	1,104,029	1,149,626	1,197,10
Class 400	0	0	375,034	636,581	696,484	742,661	791,899	844,402	900,386	930,549	961,722	993,940	1,027,237	1,061,649	1,097,214	1,133,971	1,171,95
Total	0	0	16,898,797	18,563,220	19,546,440	20,239,478	20,958,800	21,705,484	22,480,657	23,251,113	24,048,089	24,875,615	25,731,761	26,618,631	27,537,389	28,489,229	29,475,39
Finance and Administration:																	
Class 100	0	0	6,805,987	7,027,182	7,237,997	7,455,137	7,678,791	7,909,155	8,146,430	8,390,823	8,642,547	8,901,824	9,168,878	9,443,945	9,727,263	10,019,081	10,319,65
Class 200	0	0	7,844,636	9,416,392	10,047,291	10,518,509	11,011,827	11,528,281	12,068,958	12,634,902	13,227,573	13,847,946	14,497,415	15,177,344	15,888,161	16,634,365	17,414,51
Class 2xx	0	0	25,000,000	20,000,000	20,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	
Class 300	0	0	14,491	15,617	16,663	17,445	18,263	19,120	20,016	20,843	21,704	22,600	23,534	24,506	25,518	26,571	27,66
Class 400	0	0	122	134	147	157	167	178	190	196	203	210	217	224	232	239	24
Total	0	0	39,665,236	36,459,326	37,302,098	42,991,247	43,709,048	44,456,734	45,235,594	46,046,854	46,892,027	47,772,580	48,690,044	49,646,018	50,642,173	51,680,254	52,762,08
Planning & Engineering																	
Class 100	0	0	28,835,182	31,433,848	35,141,834	37,416,193	39,795,386	42,283,655	44,885,406	47,605,206	50,447,797	53,416,069	56,521,216	59,762,443	63,155,190	64,225,845	66,332,62
Class 200	0	0	15,825,608	25,000,402	25,656,142	26,859,415	28,119,121	29,437,908	30,818,546	32,263,936	33,777,114	35,361,261	37,019,704	38,755,928	40,573,581	42,476,482	44,468,62
Class 300	0	0	1,381,685	1,774,975	1,893,898	1,982,722	2,075,712	2,173,063	2,274,979	2,368,936	2,466,773	2,568,651	2,674,736	2,785,203	2,900,231	3,020,011	3,144,73
Class 400	0	0	842,392	1,321,407	1,445,751	1,541,605	1,643,813	1,752,798	1,869,008	1,931,620	1,996,330	2,063,207	2,132,324	2,203,757	2,277,583	2,353,882	2,432,73
Total	0	0	46,884,867	59,530,633	64,137,625	67,799,934	71,634,032	75,647,424	79,847,940	84,169,698	88,688,014	93,411,217	98,347,980	103,507,331	108,906,585	112,076,220	116,378,72
Information Science & Technology																	
Class 100	0	0	8,538,551	8,816,054	9,080,535	9,352,951	9,633,540	9,922,546	10,220,223	10,526,829	10,842,634	11,167,913	11,502,951	11,848,039	12,203,480	12,569,585	12,946,67
Class 200	0	0	17,012,252	18,334,104	19,562,489	20,479,969	21,440,480	22,446,038	23,498,758	24,600,849	25,754,629	26,962,521	28,227,063	29,550,913	30,936,851	32,387,789	33,906,77
Class 300	0	0	1,087,861	1,172,388	1,250,938	1,309,607	1,371,028	1,435,329	1,502,646	1,564,705	1,629,328	1,696,619	1,766,689	1,839,654	1,915,631	1,994,747	2,077,13
Class 400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	26,638,664	28,322,546	29,893,962	31,142,528	32,445,048	33,803,914	35,221,626	36,692,384	38,226,591	39,827,053	41,496,703	43,238,605	45,055,962	46,952,120	48,930,57
Public Affairs:																	
Class 100	0	0	6,010,874	6,418,474	7,266,870	7,484,876	7,709,422	7,940,705	8,178,926	8,424,294	8,677,023	8,937,333	9,205,453	9,481,617	9,766,065	10,059,047	10,360,81
Class 200	0	0	5,916,728	6,598,562	7,040,666	7,370,873	7,716,567	8,078,474	8,457,354	8,854,004	9,269,257	9,703,905	10,159,102	10,635,564	11,134,372	11,656,574	12,203,26
Class 300	0	0	273,312	294,548	314,283	329,023	344,454	360,609	377,521	393,113	409,349	426,255	443,859	462,190	481,279	501,156	521,83
Class 400	0	0	5,101	5,617	6,146	6,553	6,987	7,451	7,945	8,211	8,486	8,770	9,064	9,368	9,681	10,006	10,34
Total	0	0	12,206,015	13,317,201	14,627,964	15,191,325	15,777,430	16,387,238	17,021,746	17,679,622	18,364,114	19,076,263	19,817,478	20,588,739	21,391,397	22,226,783	23,096,25
Total Water Department:																	
Class 100	0	0	156,524,290	164,454,737	176,376,345	184,788,370	192,366,349	200,899,901	209,772,158	218,996,310	228,584,925	238,551,761	249,416,005	260,719,406	271,680,334	282,242,851	293,715,02
Class 200	0	0	144,793,558	168,619,214	177,313,687	184,875,656	192,780,970	201,045,564	209,686,114	218,720,059	228,165,732	238,042,205	248,369,510	259,168,616	270,461,459	282,271,003	294,621,28
Class 300	0	0	48,730,760	63,611,345	75,439,081	82,665,255	90,651,884	99,482,817	102,432,399	105,318,867	108,302,821	111,377,099	114,544,637	117,808,425	121,171,759	124,637,733	128,209,79
Class 400	0	0	4,291,811	5,842,227	6,391,980	6,815,769	7,267,654	7,749,500	8,263,291	8,540,112	8,826,205	9,121,883	9,427,466	9,743,286	10,069,687	10,407,021	10,755,65
Class 500																	
Pension & Benefits Including Capital (270)	0	0	143,762,106	149,630,868	158,182,108	163,929,036	168,640,396	174,021,039	180,726,033	177,132,724	179,146,143	184,427,025	191,957,453	200,549,852	209,533,597	214,032,205	221,974,72
Indemnities	0	0	4,105,382	4,105,382	4,105,382	4,105,382	4,105,382	4,105,382	4,201,037	4,298,022	4,399,086	4,501,585	4,606,472	4,713,801	4,823,635	4,936,035	5,051,08
Subtotal	0	0	502,207,906	556,263,773	597,808,584	627,179,468	655,812,635	687,304,203	721,071,211	728,007,013	756,424,912	766,621,354	818,321,543	852,501,440	887,740,430	918,526,819	951,337,52
Other Department Expenses	0	0	28,791,774	30,222,674	31,563,095	32,669,800	33,819,048	35,012,586	36,252,235	37,329,772	38,442,437	39,591,476	40,778,186	42,003,913	43,270,052	44,578,055	45,929,43
Total	0	0	530,999,680	586,486,447	629,371,679	659,849,268	689,631,683	722,316,788	757,323,446	765,336,785	794,867,349	805,213,830	859,099,729	894,505,353	931,010,522	963,104,874	999,266,95

Cash Flow Figures

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
WO&M - Test Year O&M Expenses - Water	P.N. 135647.0100	January 27, 2023 3:18 p.m.					Somallo-3

Ref: Direct O&M - 4, Direct O&M - 6, Other Dept O&M - 4
Source: Financial Planning Model

O & M Expense Projections
(Liquidated Encumbrances Have Been Deducted)

	Prior to FY 2023 Not Included								Future Years Beyond Projection Period Not Provided								
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Operations Division:																	
Class 100	0	0	39,972,954	41,570,062	43,739,142	45,049,776	46,401,269	47,793,307	49,227,107	50,703,920	52,225,037	53,791,789	55,405,542	57,067,709	58,779,740	60,543,132	62,359,426
Class 200	0	0	25,862,775	28,591,716	29,860,539	30,953,033	32,092,146	33,279,994	34,519,794	35,810,863	37,158,627	38,564,625	40,031,511	41,562,070	43,159,207	44,825,969	46,565,533
Class 300	0	0	22,064,228	29,440,281	35,375,937	38,966,984	42,947,270	47,360,287	48,677,272	49,989,083	51,338,234	52,722,864	54,152,146	55,621,293	57,131,557	58,685,230	60,283,646
Class 400	0	0	1,494,516	1,888,614	2,066,332	2,203,330	2,349,411	2,505,177	2,671,270	2,760,757	2,853,243	2,948,826	3,047,612	3,149,707	3,255,222	3,364,272	3,476,970
Total	0	0	89,394,473	101,490,673	111,041,949	117,173,123	123,790,095	130,938,765	135,094,445	139,264,623	143,575,141	148,031,104	152,637,811	157,400,779	162,325,726	167,418,603	172,685,58
Other Department Expenses:																	
WRB	0	0	4,632,370	4,850,032	5,054,736	5,235,232	5,422,495	5,616,794	5,818,405	6,025,596	6,240,489	6,463,417	6,694,683	6,934,614	7,183,548	7,441,841	7,709,85
Law Department	0	0	1,502,723	1,563,742	1,621,400	1,675,280	1,731,021	1,788,691	1,848,361	1,909,997	1,973,777	2,039,762	2,108,048	2,178,714	2,251,848	2,327,537	2,405,87
Public Properties	0	0	1,659,749	1,706,056	1,749,390	1,779,479	1,810,086	1,841,220	1,872,889	1,905,102	1,937,870	1,971,201	2,005,106	2,039,594	2,074,675	2,110,359	2,146,65
Water Dept. (Xfer to Gen'l. Fund)	0	0	2,250,208	2,425,049	2,587,527	2,708,882	2,835,929	2,968,934	3,108,177	3,180,598	3,254,706	3,330,540	3,408,142	3,487,551	3,568,811	3,651,965	3,737,05
Total	0	0	10,045,050	10,544,879	11,013,053	11,398,873	11,799,531	12,215,639	12,647,832	13,021,283	13,406,837	13,804,920	14,215,979	14,640,473	15,078,882	15,531,702	15,999,45
Human Resources:																	
Class 100	0	0	4,006,380	4,158,515	4,351,028	4,481,559	4,616,006	4,754,486	4,897,120	5,044,034	5,195,355	5,351,216	5,511,752	5,677,105	5,847,418	6,022,840	6,203,52
Class 200	0	0	921,628	1,189,282	1,268,964	1,328,478	1,390,784	1,456,012	1,524,299	1,595,788	1,670,631	1,748,984	1,831,011	1,916,886	2,006,787	2,100,905	2,199,43
Class 300	0	0	194,358	209,460	223,495	233,976	244,950	256,438	269,465	279,352	291,098	303,120	315,639	328,675	342,249	356,384	371,11
Class 400	0	0	116,261	197,340	215,910	230,225	245,489	261,765	279,120	288,470	298,134	308,121	318,443	329,111	340,136	351,531	363,30
Total	0	0	5,238,627	5,754,598	6,059,397	6,274,238	6,497,229	6,728,700	6,969,004	7,207,644	7,455,218	7,711,441	7,976,844	8,251,777	8,536,590	8,831,661	9,137,37
Finance and Administration:																	
Class 100	0	0	4,617,728	4,767,804	4,910,838	5,058,163	5,209,908	5,366,205	5,527,191	5,693,007	5,863,797	6,039,711	6,220,902	6,407,529	6,599,755	6,797,748	7,001,68
Class 200	0	0	2,830,126	3,397,172	3,624,782	3,794,784	3,972,760	4,159,082	4,354,144	4,558,353	4,772,139	4,995,952	5,230,263	5,475,563	5,732,366	6,001,214	6,282,67
Class 300	0	0	5,507	5,934	6,332	6,629	6,940	7,266	7,606	7,920	8,247	8,589	8,943	9,312	9,697	10,097	10,51
Class 400	0	0	46	51	56	60	64	68	72	75	77	80	82	85	88	91	9
Total	0	0	7,453,406	8,170,961	8,542,008	8,859,637	9,189,672	9,532,621	9,889,013	10,259,355	10,644,260	11,044,331	11,460,190	11,892,488	12,341,906	12,809,150	13,294,95
Planning & Engineering																	
Class 100	0	0	8,045,350	8,837,728	9,951,960	10,658,086	11,397,622	12,171,939	12,982,457	13,830,651	14,718,052	15,646,251	16,616,895	17,631,696	18,427,838	18,980,673	19,550,09
Class 200	0	0	5,529,168	7,371,619	7,570,143	7,925,182	8,296,874	8,685,998	9,093,371	9,519,849	9,966,331	10,433,751	10,922,095	11,433,387	11,971,707	12,535,179	13,120,90
Class 300	0	0	538,869	580,739	619,647	648,710	679,134	710,985	744,331	775,071	807,082	840,415	875,124	911,266	948,901	988,091	1,028,90
Class 400	0	0	328,775	515,403	563,902	601,290	641,154	683,664	729,990	753,411	778,651	804,735	831,694	859,556	888,351	918,111	948,86
Total	0	0	14,442,162	17,305,489	18,705,653	19,833,268	21,014,783	22,252,586	23,549,149	24,878,983	26,270,116	27,725,152	29,245,807	30,837,905	32,236,797	33,420,055	34,648,84
Information Science & Technology																	
Class 100	0	0	4,805,175	4,961,343	5,110,183	5,263,489	5,421,394	5,584,035	5,751,556	5,924,103	6,101,826	6,284,981	6,473,428	6,667,630	6,867,659	7,073,689	7,285,90
Class 200	0	0	8,315,099	8,961,182	9,561,582	10,010,020	10,479,490	10,970,978	11,485,517	12,024,187	12,588,122	13,178,505	13,796,577	14,443,636	15,121,043	15,830,219	16,572,65
Class 300	0	0	612,774	660,386	704,632	737,679	772,276	808,496	846,414	881,371	917,772	955,676	995,145	1,036,245	1,079,042	1,123,606	1,170,01
Class 400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	13,733,048	14,582,911	15,376,397	16,011,188	16,673,160	17,363,509	18,083,487	18,829,661	19,607,720	20,419,062	21,265,150	22,147,511	23,067,744	24,027,514	25,028,56
Public Affairs:																	
Class 100	0	0	3,005,437	3,209,237	3,633,435	3,742,438	3,854,711	3,970,352	4,089,463	4,212,147	4,338,511	4,468,667	4,602,727	4,740,808	4,883,033	5,029,524	5,180,40
Class 200	0	0	2,958,364	3,299,281	3,520,333	3,685,436	3,858,283	4,039,237	4,229,677	4,427,002	4,634,629	4,851,992	5,079,551	5,317,782	5,567,180	5,828,287	6,101,63
Class 300	0	0	136,656	147,274	157,141	164,512	172,227	180,304	188,760	196,556	204,674	213,127	221,929	231,095	240,639	250,578	260,92
Class 400	0	0	2,550	2,808	3,073	3,276	3,494	3,725	3,972	4,105	4,243	4,385	4,532	4,684	4,841	5,003	5,17
Total	0	0	6,103,007	6,658,600	7,313,982	7,595,662	7,888,715	8,193,618	8,510,873	8,839,810	9,182,057	9,538,172	9,908,740	10,294,369	10,695,693	11,113,392	11,548,13
Total Water Department:																	
Class 100	0	0	64,453,024	67,504,689	71,696,586	74,253,511	76,900,910	79,640,324	82,474,894	85,407,862	88,442,578	91,582,515	94,831,246	98,192,477	101,495,443	104,447,606	107,581,03
Class 200	0	0	46,417,159	52,810,252	55,406,343	57,696,934	60,090,337	62,591,300	65,204,801	67,936,042	70,790,478	73,773,810	76,892,008	80,151,323	83,558,296	87,119,774	90,842,92
Class 300	0	0	23,552,392	31,044,075	37,087,184	40,758,489	44,822,796	49,323,776	50,732,852	52,129,554	53,567,108	55,046,780	56,569,925	58,137,887	59,752,085	61,413,986	63,125,16
Class 400	0	0	1,942,148	2,604,216	2,849,273	3,038,181	3,239,612	3,454,399	3,683,424	3,806,818	3,934,348	4,066,147	4,202,263	4,343,141	4,488,638	4,639,008	4,794,41
Class 500																	
Pension & Benefits Including Capital (270)	0	0	58,325,394	60,543,945	63,463,978	65,084,736	66,644,658	68,248,692	72,064,875	66,812,024	68,340,120	70,248,087	72,471,346	75,059,952	77,776,464	78,520,167	81,228,14
Indemnities	0	0	1,518,991	1,518,991	1,518,991	1,518,991	1,518,991	1,518,991	1,554,384	1,590,601	1,627,662	1,665,587	1,704,393	1,744,101	1,784,738	1,826,329	1,868,88
Subtotal	0	0	196,209,108	216,026,168	232,022,355	242,350,842	253,217,304	264,777,482	276,335,230	277,583,701	286,703,300	296,382,936	306,671,483	317,625,889	328,765,621	338,266,870	349,440,70
Other Department Expenses	0	0	10,045,050	10,544,879	11,013,053	11,398,873	11,799,531	12,215,639	12,647,832	13,021,283	13,406,837	13,804,920	14,215,979	14,640,473	15,078,882	15,531,702	15,999,45
Total	0	0	206,254,158	226,571,047	243,035,408	253,749,715	265,016,835	276,993,121	288,983,062	290,604,984	300,109,137	310,187,856	320,887,462	332,266,362	343,844,503	353,798,572	365,440,16

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
SO&M - Test Year O&M Expenses - Sewer	P.N. 135647.0100	January 27, 2023 3:18 p.m.					Somallo-4

Ref: Direct O&M - 5, Direct O&M - 6, Other Dept O&M - 5
Source: Financial Planning Model

Summary of Sewer System
O & M Expense Projections
(Liquidated Encumbrances Have Not Been Deducted Yet)

	Prior to FY 2023 Not Included								Future Years Beyond Projection Period Not Provided								
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Operations Division:																	
Class 100	0	0	53,436,935	55,774,552	59,874,392	63,572,796	66,257,600	69,713,482	73,317,084	77,074,161	80,990,677	85,072,816	89,832,119	94,808,414	99,985,958	105,397,313	110,364,46
Class 200	0	0	69,358,567	76,841,644	81,053,129	84,408,443	87,914,429	91,578,056	95,406,612	99,407,730	103,589,399	107,959,981	112,528,227	117,303,296	122,294,779	127,512,712	132,967,60
Class 300	0	0	23,282,219	30,237,856	35,866,413	39,304,712	43,104,998	47,307,191	48,703,945	50,080,405	51,498,409	52,959,303	54,464,483	56,015,389	57,613,514	59,260,403	60,957,65
Class 400	0	0	1,574,646	1,989,873	2,177,121	2,321,464	2,475,376	2,639,494	2,814,492	2,998,778	3,000,222	3,106,931	3,211,013	3,318,352	3,429,754	3,544,651	3,663,39
Total	0	0	147,652,366	164,843,925	178,971,054	189,607,414	199,752,403	211,238,222	220,242,132	229,471,074	239,084,707	249,099,031	260,035,842	271,437,660	283,324,006	295,715,079	308,153,11
Other Department Expenses:																	
WRB	0	0	9,237,000	9,671,021	10,079,205	10,439,115	10,812,521	11,199,954	11,601,967	12,015,088	12,443,609	12,888,130	13,349,277	13,827,701	14,324,080	14,839,118	15,373,55
Law Department	0	0	2,558,690	2,662,588	2,760,763	2,852,502	2,947,413	3,045,609	3,147,208	3,252,157	3,360,746	3,473,107	3,589,379	3,709,702	3,834,225	3,963,104	4,096,49
Public Properties	0	0	2,950,664	3,032,988	3,110,025	3,163,518	3,217,931	3,273,279	3,329,570	3,386,849	3,445,102	3,504,358	3,564,653	3,625,984	3,688,311	3,751,290	3,816,28
Mayor's Office of Transportation & Utilities	0	0	355,230	376,422	396,225	412,258	428,968	446,383	464,534	483,452	502,170	522,722	545,153	567,491	590,752	615,063	640,38
Fleet Management	0	0	4,812,074	5,097,070	5,363,434	5,579,629	5,804,903	6,039,651	6,284,281	6,522,726	6,771,498	7,027,983	7,295,456	7,571,442	7,862,422	8,163,332	8,474,52
Procurement	0	0	63,316	65,373	67,334	69,355	71,436	73,578	75,786	78,060	80,401	82,814	85,297	87,857	90,492	93,207	96,00
Water Dept. (Xfer to Gen'l. Fund)	0	0	4,000,370	4,311,199	4,600,049	4,815,791	5,041,652	5,278,105	5,525,648	5,654,395	5,786,143	5,920,961	6,058,919	6,200,092	6,344,554	6,492,382	6,643,65
Total	0	0	23,977,344	25,216,659	26,377,035	27,332,169	28,324,823	29,356,559	30,429,004	31,393,737	32,389,669	33,421,019	34,488,114	35,592,230	36,734,766	37,917,155	39,140,89
Human Resources:																	
Class 100	0	0	8,917,426	9,256,050	9,684,546	9,975,083	10,274,335	10,582,565	10,900,043	11,227,044	11,563,855	11,910,770	12,268,094	12,636,136	13,015,220	13,405,678	13,807,84
Class 200	0	0	2,051,365	2,647,112	2,824,468	2,956,936	3,095,616	3,240,801	3,392,794	3,551,917	3,718,502	3,892,909	4,075,476	4,266,615	4,466,720	4,676,209	4,895,52
Class 300	0	0	432,605	466,218	497,455	520,786	545,210	570,781	597,550	622,229	647,927	674,686	702,552	731,566	761,781	793,241	826,01
Class 400	0	0	258,773	439,241	480,574	512,436	546,410	582,637	621,266	642,079	663,588	685,819	708,704	732,338	757,078	782,440	808,65
Total	0	0	11,660,170	12,808,622	13,487,043	13,965,240	14,461,572	14,976,784	15,511,653	16,043,268	16,593,872	17,164,174	17,754,915	18,366,856	19,000,799	19,657,569	20,338,02
Finance and Administration:																	
Class 100	0	0	2,188,259	2,259,378	2,327,159	2,396,974	2,468,883	2,542,950	2,619,239	2,697,816	2,778,750	2,862,113	2,947,976	3,036,416	3,127,508	3,221,333	3,317,97
Class 200	0	0	5,014,510	6,019,220	6,422,509	6,723,724	7,039,067	7,369,199	7,714,814	8,076,039	8,455,434	8,853,984	9,267,172	9,701,781	10,156,795	10,633,146	11,131,84
Class 2xx (SMIP & GARP)	0	0	25,000,000	20,000,000	20,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	
Class 300	0	0	8,985	9,683	10,331	10,816	11,323	11,854	12,410	12,923	13,457	14,012	14,591	15,194	15,821	16,474	17,15
Class 400	0	0	76	83	91	97	103	110	118	121	126	130	135	139	144	148	15
Total	0	0	32,211,830	28,288,364	28,760,090	34,131,611	34,519,376	34,924,113	35,346,581	35,787,499	36,247,766	36,728,240	37,229,854	37,753,529	38,300,267	38,871,101	14,467,12
Planning & Engineering																	
Class 100	0	0	20,789,832	22,596,120	25,189,874	26,758,107	28,397,764	30,111,716	31,902,949	33,774,535	35,729,738	37,777,840	39,904,321	42,130,747	43,457,352	45,245,137	46,602,52
Class 200	0	0	10,296,440	13,601,438	13,953,019	14,607,416	15,292,503	16,009,721	16,760,357	17,546,649	18,369,386	19,231,120	20,133,059	21,077,201	22,065,826	23,100,713	24,184,13
Class 300	0	0	842,816	908,303	969,160	1,014,613	1,062,199	1,112,016	1,164,169	1,212,250	1,262,315	1,314,449	1,368,736	1,425,265	1,484,128	1,545,423	1,609,24
Class 400	0	0	513,617	806,004	881,849	940,315	1,002,659	1,069,134	1,140,018	1,178,209	1,217,679	1,258,472	1,300,630	1,344,201	1,389,233	1,435,771	1,483,86
Total	0	0	32,442,706	37,911,865	40,993,903	43,320,451	45,755,125	48,302,588	50,967,714	53,711,693	56,579,353	59,579,880	62,706,746	65,977,514	68,396,537	71,327,039	73,879,78
Information Science & Technology																	
Class 100	0	0	3,733,376	3,854,711	3,970,352	4,089,462	4,212,146	4,338,511	4,468,667	4,602,726	4,740,808	4,883,032	5,029,523	5,180,409	5,335,821	5,495,896	5,660,77
Class 200	0	0	8,697,153	9,372,922	10,000,907	10,469,949	10,960,990	11,475,060	12,013,241	12,576,662	13,166,307	13,784,016	14,430,486	15,107,277	15,815,808	16,557,570	17,334,11
Class 300	0	0	475,087	512,002	546,306	571,928	598,752	626,833	656,232	683,334	711,356	740,943	771,844	805,409	836,589	871,141	907,11
Class 400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	12,905,616	13,739,635	14,517,565	15,131,340	15,771,888	16,440,405	17,138,139	17,862,723	18,618,871	19,407,991	20,231,853	21,091,094	21,988,218	22,924,606	23,902,01
Public Affairs:																	
Class 100	0	0	3,005,437	3,209,237	3,633,435	3,742,438	3,854,711	3,970,353	4,089,463	4,212,147	4,338,512	4,468,668	4,602,728	4,740,809	4,883,032	5,029,533	5,180,41
Class 200	0	0	2,958,364	3,299,281	3,520,333	3,685,437	3,858,284	4,039,237	4,228,677	4,427,002	4,634,628	4,851,968	5,079,351	5,317,782	5,567,186	5,828,287	6,101,63
Class 300	0	0	136,656	147,274	157,142	164,511	172,227	180,305	188,761	196,557	204,624	213,127	221,910	231,095	240,639	250,578	260,92
Class 400	0	0	2,551	2,809	3,073	3,277	3,493	3,726	3,973	4,106	4,243	4,385	4,532	4,684	4,840	5,003	5,17
Total	0	0	6,103,008	6,658,601	7,313,982	7,595,663	7,888,715	8,193,620	8,510,874	8,839,811	9,182,057	9,538,172	9,908,739	10,294,369	10,695,697	11,113,391	11,548,14

	[redacted]	[redacted]	2023	2024	2025	2026	2027	2028	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Total Sewer Department:																	
Class 100	0	0	92,071,266	96,950,048	104,679,759	110,534,859	115,465,439	121,259,577	127,297,444	133,588,448	140,142,347	146,969,246	154,584,759	162,524,931	170,274,801	177,794,915	185,133,996
Class 200 (including 2xx)	0	0	123,376,399	131,781,616	137,774,364	147,851,906	153,160,889	158,712,075	164,516,715	170,586,599	176,934,058	183,572,002	190,513,052	197,774,052	205,367,114	213,308,640	196,014,85
Class 300	0	0	25,178,368	32,281,337	38,046,807	41,587,367	45,494,709	49,808,979	51,323,067	52,807,698	54,338,338	55,916,321	57,543,835	59,221,917	60,952,422	62,737,260	64,578,10
Class 400	0	0	2,349,663	3,238,011	3,542,707	3,777,588	4,028,042	4,295,101	4,579,867	4,733,294	4,891,857	5,055,736	5,225,103	5,400,141	5,581,049	5,768,013	5,961,24
Class 500																	
Pension & Benefits Including Capital (270)	0	0	85,436,712	89,086,923	94,718,130	98,844,300	101,995,738	105,772,347	114,041,158	105,619,900	109,806,017	114,179,958	119,485,907	125,409,900	131,257,133	135,313,038	140,746,37
Indemnities	0	0	2,835,561	2,835,561	2,835,561	2,835,561	2,835,561	2,835,561	2,901,629	2,969,237	3,038,420	3,109,215	3,181,660	3,255,752	3,331,532	3,409,280	3,488,31
Subtotal Excluding Other Departments	0	0	331,247,968	356,173,496	381,597,328	405,431,580	422,980,378	442,683,640	464,659,879	470,305,175	489,151,035	508,801,658	530,535,216	553,606,735	577,264,311	598,230,146	596,523,26
Other Department Expenses	0	0	23,977,344	25,216,659	26,377,035	27,332,169	28,324,823	29,356,559	30,429,004	31,392,737	32,389,669	33,421,038	34,488,114	35,592,230	36,734,766	37,917,155	39,140,89
Total	0	0	355,225,312	381,390,156	407,974,364	432,763,750	451,305,201	472,040,199	495,088,883	501,697,913	521,540,703	542,222,696	565,023,330	589,198,965	613,999,076	636,147,301	635,664,18
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SPLIT OF TOTAL PENSION & BENEFITS	LINKS	0															
********** ********** **********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Human Resources	0	0	7,424,275	7,646,369	7,914,766	8,075,899	8,227,745	8,383,486	8,883,828	8,089,060	8,270,195	8,459,260	8,664,280	8,950,626	9,251,911	9,176,066	9,662,530
Finance and Administration	0	0	1,821,853	1,866,459	1,901,888	1,940,608	1,977,096	2,014,520	2,134,250	1,943,770	1,982,296	2,032,728	2,086,800	2,150,802	2,223,199	2,233,033	2,321,06
Planning & Engineering	0	0	17,308,743	18,666,523	20,586,608	21,663,557	22,741,089	23,854,439	26,001,292	24,334,401	25,555,068	26,529,280	28,247,282	29,842,772	31,235,900	31,644,928	32,611,72
Information Science & Technology	0	0	3,108,252	3,184,354	3,244,799	3,310,858	3,373,110	3,436,960	3,642,087	3,316,254	3,386,514	3,460,024	3,540,273	3,609,469	3,792,906	3,843,865	3,861,32
Operations	0	0	44,489,352	46,075,033	48,932,783	51,468,996	53,059,458	55,226,875	54,755,384	55,531,760	57,922,611	60,420,361	63,388,936	67,130,316	71,075,341	73,315,941	77,571,40
Public Affairs	0	0	2,502,201	2,651,132	2,969,451	3,029,905	3,086,874	3,145,305	3,533,022	3,034,842	3,102,801	3,173,333	3,258,156	3,558,084	3,471,119	3,517,699	3,625,17
Dept. Of Revenue (WRB)	0	0	5,225,482	5,353,422	5,455,040	5,566,096	5,670,753	5,778,093	6,122,910	5,575,167	5,700,010	5,830,318	5,985,407	6,165,978	6,176,831	6,482,201	6,659,64
Law Dept.	0	0	1,748,232	1,791,035	1,825,033	1,862,188	1,897,201	1,933,113	2,048,485	1,865,222	1,909,989	1,950,585	2,002,472	2,063,887	2,133,359	2,161,987	2,228,042
Other Indirect	0	0	1,808,322	1,852,595	1,887,762	1,926,194	1,962,411	1,999,557	2,118,895	1,929,334	1,972,538	2,017,631	2,071,300	2,134,826	2,206,686	2,236,298	2,304,62
Capital (270) Pension & Benefits	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	85,436,712	89,086,923	94,718,130	98,844,300	101,995,738	105,772,347	114,041,158	105,619,900	109,806,017	114,179,958	119,485,907	125,409,900	131,257,133	135,313,038	140,746,37
Law Dept. - Water	0	0	1,026,740	1,051,878	1,071,844	1,093,666	1,114,230	1,135,320	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

File: SCOS23_24_ver1.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2024**	**Budget Yr**	**2023**	**Ver. 1a**
CL100A - Not in Use	**P.N. 135647.0100**	**January 27, 2023 3:18 p.m.**					**Somallo-5**

Ref :

NOT IN USE Costs Allocated in Fin Plan

File: SCOS23_24_ver1.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2024**	**Budget Yr**	**2023**	**Ver. 1a**
CL100B - Not in Use	**P.N. 135647.0100**	**January 27, 2023 3:18 p.m.**					**Somallo-6**

Ref:

NOT IN USE Costs Allocated in Fin Plan

File: SCOS23_24_ver1.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2024**	**Budget Yr**	**2023**	**Ver. 1a**
CL200A - Not in Use	**P.N. 135647.0100**	**January 27, 2023 3:18 p.m.**					**Somallo-7**

Ref:

NOT IN USE Costs Allocated in Fin Plan

File: SCOS23_24_ver1.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2024**	**Budget Yr**	**2023**	**Ver. 1a**
CL200B - Not in Use	**P.N. 135647.0100**	**January 27, 2023 3:18 p.m.**					**Somallo-8**

Ref A:

NOT IN USE Costs Allocated in Fin Plan

File: SCOS23_24_ver1.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2024**	**Budget Yr**	**2023**	**Ver. 1a**
CL200LEA - Not in Use	**P.N. 135647.0100**	**January 27, 2023 3:18 p.m.**					**Somallo-9**

Ref:

NOT IN USE Costs Allocated in Fin Plan

File: SCOS23_24_ver1.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2024**	**Budget Yr**	**2023**	**Ver. 1a**
CL200LEB - Not in Use	**P.N. 135647.0100**	**January 27, 2023 3:18 p.m.**					**Somallo-10**

Ref:

NOT IN USE Costs Allocated in Fin Plan

File: SCOS23_24_ver1.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2024**	**Budget Yr**	**2023**	**Ver. 1a**
CL300A - Not in Use	**P.N. 135647.0100**	**January 27, 2023 3:18 p.m.**					**Somallo-11**

Ref:

NOT IN USE Costs Allocated in Fin Plan

File: SCOS23_24_ver1.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2024**	**Budget Yr**	**2023**	**Ver. 1a**
CL300B - Not in Use	**P.N. 135647.0100**	**January 27, 2023 3:18 p.m.**					**Somallo-12**

Ref:

NOT IN USE Costs Allocated in Fin Plan

File: SCOS23_24_ver1.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2024**	**Budget Yr**	**2023**	**Ver. 1a**
CL300LEA - Not in Use	**P.N. 135647.0100**	**January 27, 2023 3:18 p.m.**					**Somallo-13**

NOT IN USE Costs Allocated in Fin Plan

File: SCOS23_24_ver1.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2024**	**Budget Yr**	**2023**	**Ver. 1a**
CL300LEB - Not in Use	**P.N. 135647.0100**	**January 27, 2023 3:18 p.m.**					**Somallo-14**

NOT IN USE Costs Allocated in Fin Plan

File: SCOS23_24_ver1.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2024**	**Budget Yr**	**2023**	**Ver. 1a**
CL400A - Not in Use	**P.N. 135647.0100**	**January 27, 2023 3:18 p.m.**					**Somallo-15**

NOT IN USE Costs Allocated in Fin Plan

File: SCOS23_24_ver1.xls	**Philadelphia Water Department (PWD)**	**CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE**	**Test Year**	**2024**	**Budget Yr**	**2023**	**Ver. 1a**
CL400B - Not in Use	**P.N. 135647.0100**	**January 27, 2023 3:18 p.m.**					**Somallo-16**

NOT IN USE Costs Allocated in Fin Plan

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
CL100SUM - Class 100 O&M Summary	P.N. 135647.0100	January 27, 2023 3:18 p.m.					Somallo-17

Class 100	FY 2024 Test Year Class 100 Finplan Links	Class 100 (a)	Class 100 & Class 500	Adjusted Test Year	
Direct - Wastewater Treatment					
NEWPCP	7,873,509	8,774,411	16,447,200	16,718,823	
SWWPCP	7,729,594	8,614,029	16,146,572	16,413,230	
SEWPCW	4,616,008	5,144,180	9,642,511	9,801,755	
Total	20,219,111	22,532,620	42,236,283	42,933,808	
Collection					
Sewer Maintenance	11,652,421	12,985,712	24,341,076	26,519,804	
Inlet Cleaning	6,115,442	6,815,182	12,774,722	12,774,722	
Interceptors/Flow Control	5,396,483	6,013,959	11,272,869	11,272,869	(b)
GSI Maintenance	2,434,113	2,712,629	5,084,689	5,084,689	
Collection System Support	1,042,988	1,162,329	2,178,728	-	
Total	26,641,447	29,689,811	55,652,084	55,652,084	
General Support					
Industrial Waste	2,003,287	2,232,507	4,184,724	4,184,724	
Sludge Engineering Services	0	0	0	0	
Sludge Utilization	0	0	0	0	
Sludge Processing	0	0	0	0	
			+G618		
Total	2,003,287	2,232,507	4,184,724	4,184,724	
Total - Direct	48,863,846	54,454,938	102,073,091	102,770,616	
Indirect					
Treatment HQ	372,122	372,122	697,525	-	allocated to WWTP
Operations Administration	3,142,173	-	-	-	
Security	0	-	-	-	
Building Maintenance	0	-	-	-	
Materials Management	1,051,094	-	-	-	
Customer Service (c)	947,491	947,491	1,776,025	1,776,025	(c)
Automotive Maintenance	0	-	-	-	
Machine Shops	0	-	-	-	
Meter Shop	1,397,826	-	-	-	
Total - Indirect	6,910,707	1,319,613	2,473,550	1,776,025	
Total	55,774,552	55,774,551	104,546,641	104,546,641	
Other	Somallo-4				
Human Services	9,256,050	9,256,050	17,350,009	17,350,009	
Finance and Administration	2,259,378	2,259,378	4,235,092	4,235,092	
Public Affairs	3,209,237	3,209,237	6,015,556	6,015,556	
Planning & Engineering	22,596,120	22,596,120	42,355,311	42,355,311	
Information Science & Technology	3,854,711	3,854,711	7,225,465	7,225,465	
Total Other	41,175,496	41,175,496	77,181,433	77,181,433	0
Somallo-4 Total Class 100 96,950,048	96,950,049	96,950,048	181,728,074	181,728,074	0
(0)					
Indemnities and Pension & Benefits	84,778,027	84,778,027	-	-	Excludes Pension & Benefits allocated to WRB and Law and Capital (270) Pension & Benefits
Total	181,728,075	181,728,074	181,728,074	181,728,074	0

(a) Adjusted for allocation of indirect costs.
(b) Include Interceptors/Flow Control with Pumping Stations
(c) Allocate 100% to Customer - Equivalent Meters and Services cost function as part of Joint Direct Expense on Somallo-38.

TY Sewage Pumping
Not included in Table to left:

Class 100	0
Class 200	0
Class 300	0
Class 400	0
	0

	(1) Direct Cost $	(2) To Col (E) Direct Cost $	(3) Direct Cost Plus Overhead (To Col (H)) $	(4) Percent Increase	(5) Column (3) Repeated Here $
Direct - Wastewater Treatment					
NEWPCP	7,873,509	7,873,509	16,718,823	212.34%	16,718,823
SWWPCP	7,729,594	7,729,594	16,413,230	212.34%	16,413,230
SEWPCW	4,616,008	4,616,008	9,801,755	212.34%	9,801,755
Total	20,219,111	20,219,111	42,933,808		42,933,808
	Estimated Distribution of Pumping Class 100				
Flow Control					
Central Schuykill (SW) (a)	197,220	-		187.45%	369,679
Neill Drive (NE) (a)	66,095	-		187.45%	123,892
Other	5,750,644	-		187.45%	10,779,298
Total	6,013,959				11,272,869
	6,013,959				

(a) Estimated based on the estimated cost data:

Central Schuykill (SW)	185,000	Estimated provided by PWD Load Control
Neill Drive (NE)	62,000	Estimated provided by PWD Load Control
Fiscal Year	2022	
Ann. Infl. Rate	3.25%	

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
CL200SUM - Class 200 O&M Summary	P.N. 135647.0100	January 27, 2023 3:18 p.m.					Somallo-18

Class 200	(1) FY 2024 Test Year Class 200 $	(2) Net Adjustment to Test Year Power $	(3) Net Adjustment to Test Year Gas $	(4) FY 2024 Test Year Class 200 $	(5) Class 200 (a)	(6) Adjusted Test Year
Direct - Wastewater Treatment	Finplan Links	Somallo-21a	Somallo-21b	(1) + (2) + (3)		
NEWPCP	14,956,030	0	0	14,956,030	17,344,417	17,411,973
SWWPCP	7,477,597	0	3,695,894	11,173,492	12,957,830	13,008,000
SEWPCW	3,254,072	0	0	3,254,072	3,773,728	3,788,000
Total	25,687,699	0	3,695,894	29,383,594	34,075,975	34,207,973
Collection						
Sewer Maintenance	2,728,703	0	0	2,728,703	3,164,460	3,872,556
Inlet Cleaning	45,465	0	0	45,465	52,726	52,726
Interceptors/Flow Control	5,138,570	0	0	5,138,570	5,959,169	(b)
GSI Maintenance	6,713,190	0	0	6,713,190	7,785,246	7,785,246
Collection System Support	610,589	0	0	610,589	708,096	-
Total	15,236,518	0	0	15,236,518	17,669,697	11,710,528
General Support						
Industrial Waste	102,689			102,689	119,088	119,088
Sludge Engineering Services	0			0	0	0
Sludge Utilization	0			0	0	0
Sludge Processing	23,419,222	0	(3,695,894)	19,723,327	22,873,023	22,873,023
Total	23,521,911	0	(3,695,894)	19,826,016	22,992,111	22,992,111
Total - Direct	64,446,128	0	0	64,446,128	74,737,783	68,910,613

	(7)	(8) FY 2022 $	(9) Annual Inflation Factor	(10) Direct Test Year $	(11) Col (9) Direct Cost $	(12) Direct Cost Plus Overhead Col (5) $	(13) Percent Increase	(14) Col (11) Less Pumping Below $
Direct - Wastewater Treatment				Somallo-8				
NEWPCP				14,956,030	14,956,030	17,411,973	116.42%	17,411,973
SWWPCP				7,477,597	7,477,597	13,008,000	173.96%	13,008,000
SEWPCW				3,254,072	3,254,072	3,788,000	116.41%	3,788,000
Total				25,687,699	25,687,699	34,207,973		34,207,973
Pumping					Adjustment Input (a)			
Central Schuykill (SW)		49,000	9.19%	58,000	0	58,000		58,000
Neill Drive (NE)		10,000	9.19%	12,000	0	12,000		12,000
Other						5,889,169		5,889,169
Total		59,000		70,000	0	5,959,169		5,959,169

Source: 14i. Pump Station Cost Detail CSPS- Neill Drive-updated 8-2020 MDH (Final).xlsx

(a) If Direct Test Year costs for Central Schuykill and Neill Drive are greater than Interceptors/Flow Control Expense, reduce the amounts from BD-24 by the variance to be consistent with the Interceptors/Flow Control expense amount.

Indirect						
Treatment HQ	131,998	0	0	131,998	131,998	-
Operations Administration	10,252,462	0	0	10,252,462	0	0
Security	0	0	0	0	-	-
Building Maintenance	0	0	0	0	-	-
Materials Management	39,194	0	0	39,194	-	-
Customer Service (d)	1,965,199	0	0	1,965,199	1,965,199	1,965,199
Warranty Program	0	0	0	0	0	0
Automotive Maintenance	0	0	0	0	-	-
Machine Shops	0	0	0	0	-	-
Meter Shop	6,663	0	0	6,663	6,663	6,663
Total - Indirect	12,395,516	0	0	12,395,516	2,103,861	1,971,862
Total	76,841,644	0	0	76,841,644	76,841,644	70,882,475
Other	Somallo-4					
Admin & Human Services	2,647,112			2,647,112	2,647,112	2,647,112
Finance and Administration	26,019,220			26,019,220	26,019,220	26,019,220
Public Affairs	3,299,281			3,299,281	3,299,281	3,299,281
Planning & Engineering	13,601,438			13,601,438	13,601,438	13,601,438
Information Science & Technology	9,372,922			9,372,922	9,372,922	9,372,922
Total Other	54,939,972	0	0	54,939,972	54,939,972	54,939,972
Total Class 200	131,781,616	0	0	131,781,616	131,781,616	125,822,447
Possible Error ==>	(0)					
Somallo-4 ($131,781,615.8, Total O&M) = $131,781,615.8						125,822,447
					Pumping (Flow Contr	5,959,169
					Customer Costs	(1,971,862)
						129,809,754

(a) Adjusted for allocation of indirect costs.
(b) Include with Pumping Stations
(c) This is the Sewer System share of Class 200 - Automated Meter Reading. This cost will be assigned directly to Joint Direct Expense on Somallo-38 and will be allocated to the Customer - Equivalent Bill cost category. It is assumed this cost will continue to be a part of Class 200 costs throughout the study period.
(d) Allocate 100% to Customer - Equivalent Meters and Services cost function as part of Joint Direct Expense on Somallo-38.

USE (Rounding Error add to Sewer Maintenance) 0

FY 2023 Budget Operations Administration - Class 200

	Water & Sewer	Budget Factor	Adj. Budget	Sewer Share	Sewer Costs	Ann. Infl.	Liq Enc Ratio	TY Costs
Direct Costs from Budget	$		$		$			$
250 Professional, Consultant & Spec. Services (Automated Meter Reading)	0	84.89%	0	73.58%	0	7.77%	83.89%	0
Power	17,993,083	82.77%	14,892,638	43.54%	6,484,802			
Gas	6,934,016	80.49%	5,581,160	84.14%	4,696,237			
All Other	88,579,094	84.89%	75,194,241	73.58%	55,325,306			
Total	113,506,194		95,668,039		66,506,345			

Class 200

	Wastewater	Stormwater	Total	Wastewater	Stormwater	Total
Finance & Admin						
Stormwater Program - Residential	0	0	0	0	0	0
Stormwater Program - Non-Res	0	0	0	0	0	0
Wastewater Collection Mains	0	0	0	0	0	0
Green Initiatives	0	0	0	0	0	0
Customer (Grants)	342,378	0	342,378	342,378	0	342,378
Customer (Basis2)	737,723	0	737,723	737,723	0	737,723
Class 200 - All Other	4,939,120	0	4,939,120	4,939,120	0	4,939,120
Class 2xx - SMIP & GARP	20,000,000	0	20,000,000	20,000,000	0	20,000,000
Total	26,019,221	0	26,019,221	26,019,220	0	26,019,220
Public Affairs						
Stormwater Program - Residential	0	0	0	0	0	0
Stormwater Program - Non-Residential	0	0	0	0	0	0
Wastewater Collection Mains	0	0	0	0	0	0
Class 200 - All Other - Volume	689,438	0	689,438	821,828	0	821,828
Class 200 - All Other - Customer	1,314,375	0	1,314,375	1,566,767	0	1,566,767
Class 200 - All Other - A&G	763,983	0	763,983	910,686	(0)	910,686
Total	2,767,796	0	2,767,796	3,299,281	(0)	3,299,281
Planning & Engineering						
Stormwater Program - Residential	0	0	0	0	0	0
Stormwater Program - Non-Residential	0	0	0	0	0	0
Wastewater Collection Mains	0	0	0	0	0	0
Class 200 - GSI Implementation	2,544,010	0	2,544,010	2,544,010	0	2,544,010
Class 200 - Office of Watersheds	6,428,739	0	6,428,739	6,428,740	0	6,428,740
Class 200 - BLS	1,570,995	0	1,570,995	1,570,995	0	1,570,995
Class 200 - All Other (Plant Investment)	3,057,694	0	3,057,694	3,057,694	(0)	3,057,693
Total	13,601,438	0	13,601,438	13,601,438	(0)	13,601,438

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
CL300SUM - Class 300 O&M Summary	P.N. 135647.0100	January 27, 2023 3:18 p.m.					Somallo-19

Class 300	FY 2024 Test Year Class 300	Class 300 (a)	Adjusted Test Year
Direct - Wastewater Treatment			
NEWPCP	3,426,594	4,441,381	11,865,675
SWWPCP	1,950,837	2,528,578	6,755,396
SEWPCW	1,883,676	2,441,527	6,522,829
Total	7,261,107	9,411,486	25,143,900
Collection			
Sewer Maintenance	367,213	475,963	475,963
Inlet Cleaning	79,550	103,108	103,108
Interceptors/Flow Control	2,626,042	3,403,745	(b)
GSI Maintenance	764,543	990,963	990,963
Collection System Support	0	0	-
Total	3,837,347	4,973,779	1,570,034
General Support			
Industrial Waste	67,336	87,277	87,277
Sludge Engineering Services	0	0	0
Sludge Utilization	0	0	0
Sludge Processing	17,536	22,729	22,729
Total	84,872	110,006	110,006
Total - Direct	11,183,326	14,495,271	26,823,940
Indirect			
Treatment HQ	15,732,414	15,732,414	-
Operations Administration	99,601	-	-
Security	0	-	-
Building Maintenance	0	-	-
Materials Management	3,178,326	-	-
Customer Service (c)	10,171	10,171	10,171
Automotive Maintenance	0	-	-
Machine Shops	0	-	-
Meter Shop	34,019	-	-
Total - Indirect	19,054,530	15,742,585	10,171
Total	30,237,856	30,237,856	26,834,111
Other	Somallo-4		
Admin & Human Services	466,218	466,218	466,218
Finance and Administration	9,683	9,683	9,683
Public Affairs	147,274	147,274	147,274
Planning & Engineering	908,303	908,303	908,303
Information Science & Technology	512,002	512,002	512,002
Total Other	2,043,481	2,043,481	2,043,481
Total Class 300	32,281,337	32,281,337	28,877,592
Possible Error ==> 0			

Somallo-4($32,281,337, Total O&M) = $32,281,337
(a) Adjusted for allocation of indirect costs.
(b) Include with Pumping Stations
(c) Allocate 100% to Customer - Equivalent Meters and Services cost function as part of Joint Direct Expense on Somallo-38.
USE (Rounding Error add to Sewer Maintenance) 0

	(1) Direct Cost $	(2) Col (E) Direct Cost $	(3) Direct Cost Plus Overhead Col (G) $	(4) Percent Increase	(5) Col 3 Less Pumping Below $
Direct - Wastewater Treatment					
NEWPCP	3,426,594	3,426,594	11,865,675	346.28%	11,865,675
SWWPCP	1,950,837	1,950,837	6,755,396	346.28%	6,755,396
SEWPCW	1,883,676	1,883,676	6,522,829	346.28%	6,522,829
Total	7,261,107	7,261,107	25,143,900		25,143,900
Other			3,403,745		3,403,745

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
CL400SUM - Class 400 O&M Summary	P.N. 135647.0100	January 27, 2023 3:18 p.m.					Somallo-20

Class 400	FY 2024 Test Year Class 400	Class 400 (a)	Adjusted Test Year
Direct - Wastewater Treatment			
NEWPCP	115,964	367,052	367,171
SWWPCP	228,566	723,461	723,696
SEWPCW	64,705	204,805	204,871
Total	409,235	1,295,318	1,295,738
Collection			
Sewer Maintenance	52,100	164,907	164,907
Inlet Cleaning	13,444	42,555	42,555
Interceptors/Flow Control	60,503	191,506	(b)
GSI Maintenance	89,494	283,267	283,267
Collection System Support	0	0	-
Total	215,541	682,235	490,729
General Support			
Industrial Waste	3,361	10,640	10,640
Sludge Engineering Services	0	0	0
Sludge Utilization	0	0	0
Sludge Processing	0	0	0
Total	3,361	10,640	10,640
Total - Direct	628,138	1,988,193	1,797,107
Indirect			
Treatment HQ	420	420	-
Operations Administration	1,344,509	-	-
Security	0	-	-
Building Maintenance	0	-	-
Materials Management	12,605	-	-
Customer Service (c)	1,261	1,261	1,261
Automotive Maintenance	0	-	-
Machine Shops	0	-	-
Meter Shop	2,941	-	-
Total - Indirect	1,361,736	1,681	1,261
Total	1,989,873	1,989,873	1,798,367
Other	Somallo-4		
Admin & Human Services	439,241	439,241	439,241
Finance and Administration	83	83	83
Public Affairs	2,809	2,809	2,809
Planning & Engineering	806,004	806,004	806,004
Information Science & Technology	0	0	0
Total Other	1,248,138	1,248,138	1,248,138
Somallo-4 Total Class 400 3,238,011	3,238,011	3,238,011	3,046,505
Possible Error ==> (0)			

(a) Adjusted for allocation of indirect costs.
(b) Include with Pumping Stations
(c) Allocate 100% to Customer - Equivalent Meters and Services cost function as part of Joint Direct Expense on Somallo-38.
USE (Rounding Error add to Sewer Maintenance) 0

	(1) Direct Cost $	(2) Col (E) Direct Cost $	(3) Direct Cost Plus Overhead Col (G) $	(4) Percent Increase	(5) Column 3 Less Pumping Below $
Direct - Wastewater Treatment					
NEWPCP	115,964	115,964	367,171	316.62%	367,171
SWWPCP	228,566	228,566	723,696	316.62%	723,696
SEWPCW	64,705	64,705	204,871	316.62%	204,871
Total	409,235	409,235	1,295,738		1,295,738
Other					191,506

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
POWER - Test Year Power Costs	P.N. 135647.0100	January 27, 2023 3:18 p.m.					Somallo-21a

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
								Test Year Adjustments						
CLASS 220	FY 2024 Test Year	Assign Cogen Costs to Trtmt Plts	FY 2024 Test Year	Test Year Adjustment	Estimated Test Year Adjusted		Test Year Power Excl. Pump. Sta. Power	Prorate Coll. Sys. Costs to Trtmt Plts	Reallocate Ops Admin Power	Estimated Adjusted Test Year Power	Estimated Adjusted Test Year Power	Plus Pumping Station Power	Test Year Power Incl. Pump. Sta. Power	Net Adjustment to Test Year Power
	$	$	$	$	$		$	$	$	$	$	$	$	$
		See Note (a)	(1)+(2)	(3)	(3)+(4)		(5)-(6)			(7)+(8)+(9)	(10)	(6)	(11)+(12)	(13)-(3)
DIRECT COSTS														
Sludge Engineering Services	0		0		0		0			0	0		0	0
Sludge Utilization	0		0		0		0			0	0		0	0
Sludge Processing	0		0	0	0		0			0	0		0	0
NEWPCP	1,487,774	5,771,879	7,259,653		7,259,653		7,259,653		0	7,259,653	7,259,653		7,259,653	0
SWWPCP	4,530,190		4,530,190	0	4,530,190		4,530,190		0	4,530,190	4,530,190		4,530,190	0
SEWPCP	1,320,609		1,320,609		1,320,609		1,320,609		0	1,320,609	1,320,609		1,320,609	0
Industrial Waste	0		0		0		0			0	0		0	0
Sewer Maintenance	0		0		0		0			0	0		0	0
Inlet Cleaning	0		0		0		0			0	0		0	0
Interceptors/Flow Control	668,662		668,662		668,662		668,662			668,662	668,662		668,662	0
GSI Maintenance	0		0		0		0			0	0		0	0
Collector System Support	0		0		0		0			0	0		0	0
Subtotal	8,007,235		13,779,114	0	13,779,114	0	13,779,114	0	0	13,779,114	13,779,114	0	13,779,114	0
ALLOCATED COSTS														
Treatment Headquarters	0		0		0		0		0	0	0		0	0
Machine Shops	0		0		0		0			0	0		0	0
Building Maintenance	0		0		0		0			0	0		0	0
Security	0		0		0		0			0	0		0	0
Operations Administration	0		0		0		0			0	0		0	0
Materials Management	0		0		0		0			0	0		0	0
Customer Service	0		0		0		0			0	0		0	0
Meter Shop	0		0		0		0			0	0		0	0
Automotive Maintenance	0		0		0		0			0	0		0	0
Subtotal	0		0		0	0	0	0	0	0	0	0	0	0
Total Sewer Power Costs	8,007,235		13,779,114		13,779,114	0	13,779,114	0	0	13,779,114	13,779,114	0	13,779,114	0

(a) NE Cogen Costs budgeted as Lease Payment to PMA (281) and included with other Class 200 Costs

Percentage of NE Class 200 - Other Costs

Lease Payment	7,150,000	43%	5,771,879
Total NE	16,684,000		13,468,256

Source: FY23 BDDT -Full Department.xlsx

Test Year	
NE Class 200 including Power	14,956,030
Power Costs	1,487,774
NE Class 200 Excluding Power	13,468,256

File: SCOS23_24_ver1.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2024 | Budget Yr 2023 | Ver. 1a
GAS - Test Year Gas Costs | P.N. 135647.0100 | January 27, 2023 3:18 p.m. | Somallo-21b

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
								Test Year Adjustments						
CLASS 221	FY 2024 Test Year $		FY 2024 Test Year $ (1)+(2)	Test Year Adjustment $ (3)	Estimated Test Year Adjusted $ (3)+(4)	Less Pumping Station Gas $ Somallo-18	Test Year Gas Excl. Pump. Sta. Gas $ (5)-(6)		Reallocate Ops Admin Gas $	Estimated Adjusted Test Year Gas $ (7)+(8)+(9)	Estimated Adjusted Test Year Gas $ (10)	Plus Pumping Station Gas $ (6)	Test Year Gas Incl. Pump. Sta. Gas $ (11)+(12)	Net Adjustment to Test Year Gas $ (13)-(3)
DIRECT COSTS														
Sludge Engineering Services	0		0		0		0			0	0		0	0
Sludge Utilization	0		0		0		0			0	0		0	0
Sludge Processing	3,695,894		3,695,894	(3,695,894)	0		0		0	0	0		0	(3,695,894)
NEWPCP	1,847,947		1,847,947		1,847,947	0	1,847,947		0	1,847,947	1,847,947	0	1,847,947	0
SWWPCP	0		0	3,695,894	3,695,894	0	3,695,894		0	3,695,894	3,695,894	0	3,695,894	3,695,894
SEWPCP	263,004		263,004		263,004	0	263,004		0	263,004	263,004	0	263,004	0
Industrial Waste	0		0		0		0		0	0	0		0	0
Sewer Maintenance	0		0		0		0		0	0	0		0	0
Inlet Cleaning	0		0		0		0		0	0	0		0	0
Interceptors/Flow Control	0		0		0		0		0	0	0		0	0
GSI Maintenance	0		0		0		0		0	0	0		0	0
Collector System Support	124,580		124,580		124,580		124,580		0	124,580	124,580		124,580	0
Subtotal	5,931,425		5,931,425	0	5,931,425	0	5,931,425	0	0	5,931,425	5,931,425	0	5,931,425	0
ALLOCATED COSTS														
Treatment Headquarters	44,987		44,987		44,987		44,987			44,987	44,987		44,987	0
Machine Shops	0		0		0		0			0	0		0	0
Building Maintenance	0		0		0		0			0	0		0	0
Security	0		0		0		0			0	0		0	0
Operations Administration	0		0		0	0	0		0	0	0		0	0
Materials Management	0		0		0		0			0	0		0	0
Customer Service	0		0		0		0			0	0		0	0
Meter Shop	0		0		0		0			0	0		0	0
Automotive Maintenance	0		0		0		0			0	0		0	0
Subtotal	44,987		44,987		44,987	0	44,987	0	0	44,987	44,987	0	44,987	0
Total Sewer Gas Costs	5,976,413		5,976,413		5,976,413	0	5,976,413	0	0	5,976,413	5,976,413	0	5,976,413	0

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
TOTALOM - Test Year O&M Summary	P.N. 135647.0100	January 27, 2023 3:18 p.m.			Somallo-22

Direct Expenses Only		(1) Personal Services (Class 100 & 500) $ Somallo-17	(2) Power $ Somallo-21a	(3) Gas $ Somallo-21b	(4) Sludge $	(5) Other $	(6) Total $ Somallo-18	(7) Materials & Supplies (Class 300) $ Somallo-19	(8) Equipment (Class 400) $ Somallo-20	Total $
			Purchase of Services (Class 200)							
NEWPCP		16,718,823	7,259,653	1,847,947	(a)	8,304,374	17,411,973	11,865,675	367,171	46,363,643
SWWPCP		16,413,230	4,530,190	3,695,894	(a)	4,781,916	13,008,000	6,755,396	723,696	36,900,322
SEWPCP		9,801,755	1,320,609	263,004	(a)	2,204,387	3,788,000	6,522,829	204,871	20,317,455
(BOX 2 this page)										
Sludge Disposal (BRC)										
NEWPCP	48.6%	0	(b)	(b)	12,172,056	-	12,172,056	11,042	0	12,183,099
SWWPCP	36.0%	0	(b)	(b)	7,492,706	-	7,492,706	8,183	0	7,500,889
SEWPCP	15.4%	0	(b)	(b)	3,208,261	-	3,208,261	3,504	0	3,211,765
Subtotal		0	0	0	22,873,023	-	22,873,023	22,729	0	22,895,753
							(BOX 1 this page)			
Sewer Maintenance		26,519,804	0	0	-	3,872,556	3,872,556	475,963	164,907	31,033,230 x
Inlet Cleaning		12,774,722	-		-	52,726	52,726	103,108	42,555	12,973,111
Pumping Stations										
Central Schuylkill		369,679	58,000	0	-	-	58,000	0	-	427,679
Neill Drive		123,892	12,000	0	-	-	12,000	-	-	135,892
Other		10,779,298	5,889,169	0	-	-	5,889,169	3,403,745	191,506	20,263,718
GSI Maintenance		5,084,689	0	0	-	7,785,246	7,785,246	990,963	283,267	14,144,165 x
Industrial Waste Unit		4,184,724	0		-	119,088	119,088	87,277	10,640	4,401,729
Total Direct Expense		102,770,616	19,069,621	5,806,845	22,873,023	27,120,293	74,869,782	30,227,685	1,988,613	209,856,696
Other (Joint Use (c))		77,181,433					54,939,972	2,043,481	1,248,138	135,413,024
Total		179,952,049					129,809,754	32,271,166	3,236,751	345,269,720
Check Total O&M		179,952,050	[Oper + P&B (excluding WRB and Law) + Indem - Capital (270) - Customer Services]				129,809,754	32,271,167	3,236,750	345,269,721
ERROR (see note to rt.)		(1)					0	(0)	0	(0)

BOX 1 - Class 200 SLUDGE COSTS ALLOCATION BETWEEN TRTMT PLANTS:

	$
Sludge Engineering Services	0
Sludge Utilization	0
Sludge Processing	22,873,023
Total	22,873,023

NOTE:
This cost includes 2023 Proposed Budget 2,685,000 of sludge barging costs from NE to BRC
for the FY 2023 budget. Use an annual inflation rate of 7.77%
times the budget adjustment factor of 84.89%
times the liq enc adjustment factor 83.89%
FY 2024 Test Year = $2,060,679

CONCLUSION:
SPREAD TOTAL SLUDGE COSTS LESS NE SLUDGE BARGING COSTS TO ALL PLANTS, THEN ADD SLUDGE BARGING COSTS TO NE PLANT ONLY.

BOX 2 - Assume pounds to BRC are in proportion to total pounds influent to plants.

		PItdes-5	lbs	Proportion of lbs to BRC	Proportion of lbs to BRC	Estimated % lbs to BRC
Northeast Plant	Influent Flow - mgd	184				
	Influent Suspended Solids - mg/l	192	295,422	75.0%	221,567	
	Influent BOD - mg/l	143	219,303	25.0%	54,826	
					276,392	48.6%
Southwest Plant	Influent Flow - mgd	183				
	Influent Suspended Solids - mg/l	146	222,542	75.0%	166,906	
	Influent BOD - mg/l	100	151,621	25.0%	37,905	
					204,812	36.0%
Southeast Plant	Influent Flow - mgd	83				
	Influent Suspended Solids - mg/l	134	92,499	75.0%	69,374	
	Influent BOD - mg/l	106	73,292	25.0%	18,323	
					87,697	15.4%
					568,901	100.0%

(a) Financed from R&R Fund.
(b) BRC power and gas included in SWWPCP.
(c) Human Resources, Finance & Administration, Public Affairs, Planning & Engr., and Info. Sci. & Tech.

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
NEOM - Allocation of O&M Expense to NE WPCP	P.N. 135647.0100	January 27, 2023 3:18 p.m.					Somallo-23

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		
		Classes 100 & 500 Personal Services		Class 220 Power		Class 221 Gas			Other O&M				
		mhrs/yr (a)	Expense	Distrib. (a)	Expense	Distrib. (a)	Expense	Expense	Distrib. (a)	Expense	Total		
				%		%		$					
Raw Wastewater Pumping		14,400	837,978	12.10	878,418	8.10	149,684		8.10	1,520,668	3,386,748		
Preliminary Treatment		28,000	1,629,401	0.10	7,260	12.80	236,537		12.80	2,403,032	4,276,230		
Primary Sedimentation		11,300	657,580	0.80	58,077	6.00	110,877		6.00	1,126,421	1,952,955		
Aeration		46,700	2,717,609	66.30	4,813,150	9.00	166,315		9.00	1,689,632	9,386,706		
Secondary Sedimentation		11,400	663,399	0.80	58,077	6.90	127,508		6.90	1,295,384	2,144,368		
Recirculating Pumping		8,400	488,820	2.80	203,270	2.60	48,047		2.60	488,116	1,228,253		
Chlorination		7,900	459,724	0.20	14,519	1.10	20,327	1,763,536	1.10	206,511	2,464,617		
Primary Sludge Pumping		2,300	133,844	0.10	7,260	1.10	20,327		1.10	206,511	367,942		
Secondary Sludge Thickening		5,600	325,880	7.50	544,474	1.30	24,023		1.30	244,058	1,138,435		
Sludge Digestion		44,000	2,560,488	1.70	123,414	16.90	312,303		16.90	3,172,753	6,168,958		
Sludge Holding Tanks		3,200	186,217	0.00	0	2.40	44,351		2.40	450,568	681,136		
Sludge Dewatering		8,100	471,363	1.80	130,674	1.90	35,111		1.90	356,700	993,848		
Sludge Lagoon		0	0	0.00	0	0.00	0		0.00	0	0		
Grit and Screening Incineration		18,000	1,047,472	1.60	116,154	5.40	99,789		5.40	1,013,779	2,277,194		
Scum and Grease Incineration		4,300	250,230	0.10	7,260	1.50	27,719		1.50	281,605	566,814		
Laboratory		14,900	867,074	0.00	0	11.60	214,362		11.60	2,177,747	3,259,183		
Subtotal		228,500	13,297,079	95.9	6,962,007	88.6	1,637,280	1,763,536	88.6	16,633,485	40,293,387		
Yardwork and A&G		58,800	3,421,744	4.10	297,646	11.40	210,667		11.40	2,140,199	6,070,255	Check	
Subtotal	Somallo-22	287,300	16,718,823	100.00	7,259,653	100.00	1,847,947	1,763,536	100.0	18,773,684	46,363,643	46,363,643 Somallo-22	
Sludge Disposal													
Contract Dewatering										(c)	0		
Biosolids Reclamation Center	Somallo-22		0		(b)		(b)	0		12,183,099	12,183,099	Check	
Subtotal			0		0		0	0		12,183,099	12,183,099	12,183,099 Somallo-22	
Total O&M			16,718,823		7,259,653		1,847,947	1,763,536		30,956,783	58,546,741		
											0		

(a) Reference #13321.300, B-9.0.
(b) BRC power included in SWWPCP power.
(c) Financed from R&R Fund.

Allocation of Chemical Costs	$
NEWPCP	1,763,536
SWWPCP	890,295
SEWPCP	802,091
Total	0

File: SCOS23_24_ver1.xls SWOM - Allocation of O&M Expense to SW WPCP	Philadelphia Water Department (PWD) P.N. 135647.0100	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE January 27, 2023 3:18 p.m.	Test Year	2024	Budget Yr	2023	Ver. 1a Somallo-24

0

	(1)	(2)		(3)	(4)		(5)	(6)		(7)	(8)	(9)		(10)	
	Classes 100 & 500 Personal Services			Class 220 Power			Class 221 Gas				Other O&M				
	mhrs/yr (a)	Expense		Distrib. (a)	Expense		Distrib. (a)	Expense		Expense	Distrib. (a)	Expense		Total	
Raw Wastewater Pumping	2,500	161,675		2.10	95,134		1.05	38,807			1.05	119,392		415,008	
Preliminary Treatment	33,000	2,134,108		0.14	6,342		12.02	444,246			12.02	1,366,760		3,951,456	
Flocculation	6,000	388,020		6.73	304,882		6.23	230,254			6.23	708,395		1,631,551	
Primary Sedimentation	8,700	562,628		0.53	24,010		3.51	129,726			3.51	399,112		1,115,476	
Aeration	17,700	1,144,658		65.57	2,970,445		6.84	252,799			6.84	777,757		5,145,659	
Secondary Sedimentation	15,000	970,049		1.35	61,158		7.37	272,387			7.37	838,022		2,141,616	
Recirculating Pumping	5,600	362,152		3.58	162,181		3.07	113,464			3.07	349,081		986,878	
Chlorination	8,500	549,694		0.29	13,138		1.05	38,807		890,295	1.05	119,392		1,611,326	
Effluent Pumping	7,000	452,690		0.88	39,866		0.35	12,936			0.35	39,797		545,289	
Primary Sludge Pumping	6,400	413,888		0.08	3,624		3.95	145,988			3.95	449,143		1,012,643	
Secondary Sludge Thickening	5,300	342,751		8.76	396,845		0.70	25,871			0.70	79,595		845,062	
Sludge Digestion	27,000	1,746,088		2.73	123,674		9.21	340,392			9.21	1,047,243		3,257,397	
Sludge Holding Tanks	4,600	297,482		0.00	0		3.25	120,117			3.25	369,548		787,147	
Sludge Dewatering	21,000	1,358,069		2.00	90,604		19.47	719,591			19.47	2,213,878		4,382,142	
Sludge Lagoon	200	12,934		0.00	0		0.18	6,653			0.18	20,467		40,054	
Grit and Screening Incineration	18,500	1,196,394		1.24	56,174		4.12	152,271			4.12	468,473		1,873,312	
Scum and Grease Incineration	4,700	303,949		0.19	8,607		1.32	48,786			1.32	150,093		511,435	
Laboratory	12,800	827,775		0.00	0		7.89	291,606			7.89	897,149		2,016,530	
Subtotal	204,500	13,225,004		96.17	4,356,684		91.58	3,384,701		890,295	91.58	10,413,297		32,269,981	
Yardwork and A&G	49,300	3,188,226		3.83	173,506		8.42	311,193			8.42	957,416		4,630,341	Check
Subtotal	253,800	16,413,230	Somallo-22	100.00	4,530,190	Somallo-22	100.00	3,695,894	Somallo-22	890,295	100.00	11,370,713	Somallo-22	36,900,322	36,900,322 Somallo-22
Sludge Disposal															
Contract Dewatering												(c)		0	
Biosolids Reclamation Center		0	Somallo-22		(b)			(b)		0		7,500,889	Somallo-22	7,500,889	Check
Subtotal		0			0			0		0		7,500,889		7,500,889	7,500,889 Somallo-22
Total O&M		16,413,230			4,530,190			3,695,894		890,295		18,871,602		44,401,211	
														0	

(a) Reference #13321.300, B-9.0.
(b) BRC power included in SWWPCP power.
(c) Financed from R&R Fund.

File: SCOS23_24_ver1.xls SEOM - Allocation of O&M Expense to SE WPCP	Philadelphia Water Department (PWD) P.N. 135647.0100	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE January 27, 2023 3:18 p.m.	Test Year	2024	Budget Yr	2023	Ver. 1a Somallo-25

	(1)	(2)		(3)	(4)		(5)	(6)		(7)	(8)	(9)		(10)	
	Classes 100 & 500 Personal Services			Class 220 Power			Class 221 Gas				Other O&M				
	mhrs/yr (a)	Expense		Distrib. (a)	Expense		Distrib. (a)	Expense		Expense	Distrib. (a)	Expense		Total	
Raw Wastewater Pumping	13,800	939,988		22.80	301,099		6.20	16,306			6.20	504,060		1,761,453	
Preliminary Treatment	19,600	1,335,055		0.00	0		18.10	47,604			18.10	1,471,529		2,854,188	
Flocculation	6,000	408,690		35.10	463,534		7.60	19,988			7.60	617,880		1,510,092	
Primary Sedimentation	7,000	476,805		1.40	18,489		4.90	12,887			4.90	398,370		906,551	
Aeration	7,000	476,805		30.40	401,465		7.60	19,988			7.60	617,880		1,516,138	
Secondary Sedimentation	8,700	592,601		1.00	13,206		6.20	16,306			6.20	504,060		1,126,173	
Recirculating Pumping	4,200	286,083		2.40	31,695		3.70	9,731			3.70	300,810		628,319	
Chlorination	6,700	456,371		0.30	3,962		1.50	3,945		802,091	1.50	121,950		1,388,319	
Effluent Pumping	5,300	361,010		2.70	35,656		3.20	8,416			3.20	260,160		665,242	
Primary Sludge Pumping	5,600	381,444		0.10	1,321		5.80	15,254			5.80	471,540		869,559	
Waste Sludge Pumping	4,100	279,272		0.30	3,962		3.70	9,731			3.70	300,810		593,775	
Sludge Holding Tanks	2,900	197,534		0.00	0		2.90	7,627			2.90	235,770		440,931	
Scum Pumping	5,600	381,444		0.30	3,962		5.80	15,254			5.80	471,540		872,200	
Primary Sludge Transfer Pumping	2,900	197,534		2.10	27,733		2.10	5,523			2.10	170,730		401,520	
Waste Activated Sludge Xfer Pumping	2,700	183,911		1.10	14,527		2.00	5,260			2.00	162,600		366,298	
Laboratory	9,600	653,904		0.00	0		8.10	21,303			8.10	658,530		1,333,737	
Subtotal	111,700	7,608,451		100.0	1,320,611		89.4	235,123		802,091	89.4	7,268,219		17,234,495	
Yardwork and A&G	32,200	2,193,304		0.00	(2)		10.60	27,881			10.60	861,776		3,082,960	Check
Subtotal	143,900	9,801,755	Somallo-22	100.0	1,320,609	Somallo-22	100.0	263,004	Somallo-22	802,091	100.0	8,129,995	Somallo-22	20,317,455	20,317,455 Somallo-22
Sludge Disposal															
Contract Dewatering												(c)		0	
Biosolids Reclamation Center		0	Somallo-22		(b)			(b)		0		3,211,765	Somallo-22	3,211,765	Check
Subtotal		0			0			0		0		3,211,765		3,211,765	3,211,765 Somallo-22
Total O&M		9,801,755			1,320,609			263,004		802,091		11,341,760		23,529,220	
														0	

(a) Reference #13321.300, B-9.0.
(b) BRC power included in SWWPCP power.
(c) Financed from R&R Fund.

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
RESPON - Treatment Plant Responsibilities	P.N. 135647.0100	January 27, 2023 3:18 p.m.					Somallo-26

Line No.	Process	(1) Treatment Plant Responsibility for Personal Services & Contributions: Total	(2) SWWPCP	(3) SEWPCP	(4) Treatment Plant Responsibility for Purchase of Services, Mat'ls & Supp., and Equipment: Total	(5) SWWPCP	(6) SEWPCP	(7) Treatment Plant Responsibility for Power Requirements: Total	(8) SWWPCP	(9) SEWPCP	(8) Treatment Plant Responsibility for Gas Requirements: Total	(9) SWWPCP	(10) SEWPCP	(11) Basis of Allocation: SWWPCP	(12) SEWPCP
		$	$	$	$	$	$	$	$	$	$	$	$	%	%
		Somallo-24			Somallo-24			Somallo-24			Somallo-24				
1	Raw Wastewater Pumping	161,675	161,675	0	119,392	119,392	0	95,134	95,134	0	38,807	38,807	0	100	0.0
2	Preliminary Treatment	2,134,108	2,134,108	0	1,366,760	1,366,760	0	6,342	6,342	0	444,246	444,246	0	100	0.0
3	Flocculation	388,020	388,020	0	708,395	708,395	0	304,882	304,882	0	230,254	230,254	0	100	0.0
4	Primary Sedimentation	562,628	562,628	0	399,112	399,112	0	24,010	24,010	0	129,726	129,726	0	100	0.0
5	Aeration	1,144,658	1,144,658	0	777,757	777,757	0	2,970,445	2,970,445	0	252,799	252,799	0	100	0.0
6	Secondary Sedimentation	970,049	970,049	0	838,022	838,022	0	61,158	61,158	0	272,387	272,387	0	100	0.0
7	Recirculating Pumping	362,152	362,152	0	349,081	349,081	0	162,181	162,181	0	113,464	113,464	0	100	0.0
8	Chlorination	549,694	549,694	0	1,009,687	1,009,687	0	13,138	13,138	0	38,807	38,807	0	100	0.0
9	Effluent Pumping	452,690	452,690	0	39,797	39,797	0	39,866	39,866	0	12,936	12,936	0	100	0.0
10	Primary Sludge Pumping	413,888	413,888	0	449,143	449,143	0	3,624	3,624	0	145,988	145,988	0	100	0.0
11	Secondary Sludge Thickening	342,751	342,751	0	79,595	79,595	0	396,845	396,845	0	25,871	25,871	0	100	0.0
12	Sludge Digestion	1,746,088	1,309,566	436,522	1,047,243	785,432	261,811	123,674	92,755	30,919	340,392	255,294	85,098	75.0	25.0 (d)
13	Sludge Holding Tanks	297,482	223,111	74,371	369,548	277,161	92,387	0	0	0	120,117	90,088	30,029	75.0	25.0 (d)
14	Sludge Dewatering	1,358,069	1,018,552	339,517	2,213,878	1,660,408	553,470	90,604	67,953	22,651	719,591	539,693	179,898	75.0	25.0 (d)
15	Sludge Lagoon	12,934	9,700	3,234	20,467	15,350	5,117	0	0	0	6,653	4,990	1,663	75.0	25.0 (d)
16	Grit and Screening Incineration	1,196,394	897,295	299,099	468,473	351,355	117,118	56,174	42,130	14,044	152,271	114,203	38,068	75.0	25.0 (d)
17	Scum and Grease Incineration	303,949	227,962	75,987	150,093	112,570	37,523	8,607	6,455	2,152	48,786	36,589	12,197	75.0	25.0 (d)
18	Laboratory	827,775	827,775	0	897,149	897,149	0	0	0	0	291,606	291,606	0	100	0.0
19	Subtotal	13,225,004	11,996,274	1,228,730	11,303,592	10,236,166	1,067,426	4,356,684	4,286,918	69,766	3,384,701	3,037,748	346,953		
20	Yardwork and A&G (a)	3,188,226	2,889,800	298,426	1,442,115	1,307,100	135,015	(b)			(b)				
21	Subtotal	16,413,230	14,886,074	1,527,156	12,745,707	11,543,266	1,202,441	4,356,684	4,286,918	69,766	3,384,701	3,037,748	346,953		
22	Non-Process Related Sludge Disposal	0	0	0	7,500,889	7,500,889	0	(c)			(c)				
23	Total	16,413,230	14,886,074	1,527,156	20,246,596	19,044,155	1,202,441	4,356,684	4,286,918	69,766	3,384,701	3,037,748	346,953		
		0	16,413,230		0	20,246,596		0	4,356,684		0	3,384,701			

(a) Allocate Total Yardwork and A&G on the basis of Line 19, sum of Columns 1 through 6.

Class 100 & 500		Power		Gas		All Other		
Somallo-24		Somallo-24		Somallo-24		Somallo-24		
$3,188,226	+	$173,506	+	$311,193	+	$957,416	=	$4,630,341

SWWPCP Allocated Portion

$3,188,226	*	$11,996,274 / $13,225,004	+	$10,236,166 / $11,303,592	=	$2,889,800
$1,442,115	*	$11,996,274 / $13,225,004	+	$10,236,166 / $11,303,592	=	$1,307,100

SEWPCP Allocated Portion

$3,188,226	-	$2,889,800	=	$298,426
$1,442,115	-	$1,307,100	=	$135,015

(b) Included in Column 4.
(c) BRC power included in SWWPCP power.
(d) Allocated between SW & SE on basis total sludge: 75.0% to SW and 25.0% to SE (BD-25).

75.0% for SW 25.0% for SE

Ref: Somallo-23 * Somallo-29

Table_WW-10B

ALLOCATION OF OPERATION AND MAINTENANCE EXPENSE FOR THE NORTHEAST WPC PLANT TO FUNCTIONAL COST COMPONENTS

Line No.		(1) Total Operation and Maintenance Expense	Retail and Cheltenham Volume	Retail and Cheltenham Capacity	(2) Retail, Abington Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton Volume	(3) Capacity	(4) Volume	(5) Retail, Cheltenham, Abington Bensalem, Bucks County W&SA Lower Moreland, and Lower Southampton Capacity	(6) Suspended Solids	(7) BOD
		$	$	$	$	$	$	$	$	$
	Personal Services:	Somallo-23								
1	Raw Wastewater Pumping	837,978				837,978				
2	Preliminary Treatment	1,629,401					1,156,875	472,526		
3	Primary Sedimentation	657,580					657,580			
4	Aeration	2,717,609								2,717,609
5	Secondary Sedimentation	663,399					663,399			
6	Recirculating Pumping	488,820					488,820			
7	Chlorination	459,724					280,432	179,292		
8	Primary Sludge Pumping	133,844							133,844	
9	Secondary Sludge Thickening	325,880							162,940	162,940
10	Sludge Digestion	2,560,488							1,920,366	640,122
11	Sludge Holding Tanks	186,217							139,663	46,554
12	Sludge Dewatering	471,363							353,522	117,841
13	Sludge Lagoon	0								
14	Grit and Screening Incineration	1,047,472					701,806	345,666		
15	Scum and Grease Incineration	250,230							250,230	
16	Laboratory	867,074							433,537	433,537
17	Subtotal Personal Services	13,297,079	0	0	0	837,978	3,948,912	997,484	3,394,102	4,118,603
	Purchase of Services, Materials, Supplies, and Equipment:									
18	Raw Wastewater Pumping	1,520,668				1,520,668				
19	Preliminary Treatment	2,403,032						2,403,032		
20	Primary Sedimentation	1,126,421					1,126,421			
21	Aeration	1,689,632								1,689,632
22	Secondary Sedimentation	1,295,384					1,295,384			
23	Recirculating Pumping	488,116					488,116			
24	Chlorination	1,970,047					1,970,047			
25	Primary Sludge Pumping	206,511							206,511	
26	Secondary Sludge Thickening	244,058							122,029	122,029
27	Sludge Digestion	3,172,753							2,379,565	793,188
28	Sludge Holding Tanks	450,568							337,926	112,642
29	Sludge Dewatering	356,700							267,525	89,175
30	Sludge Lagoon	0								
31	Grit and Screening Incineration	1,013,779						1,013,779		
32	Scum and Grease Incineration	281,605							281,605	
33	Laboratory	2,177,747							1,088,874	1,088,873
34	Subtotal Purchase of Services, Materials, Supplies & Equipment	18,397,021	0	0	0	1,520,668	4,879,968	3,416,811	4,684,035	3,895,539
35	Subtotal All Above	31,694,100	0	0	0	2,358,646	8,828,880	4,414,295	8,078,137	8,014,142
	Administrative and General:									
36	Personal Services	3,421,744	0	0	0	215,637	1,016,176	256,683	873,406	1,059,842
37	Other	2,648,511	0	0	0	218,922	702,540	491,898	674,333	560,818
38	Subtotal Administration & General	6,070,255	0	0	0	434,559	1,718,716	748,581	1,547,739	1,620,660

Ref: Somallo-23 * Somallo-29

Table_WW-10B

ALLOCATION OF OPERATION AND MAINTENANCE EXPENSE FOR THE NORTHEAST WPC PLANT TO FUNCTIONAL COST COMPONENTS

Line No.		(1) Total Operation and Maintenance Expense $	Retail and Cheltenham Volume $	Retail and Cheltenham Capacity $	(2) Retail, Abington Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton Volume $	(3) Capacity $	(4) Volume $	(5) Retail, Cheltenham, Abington Bensalem, Bucks County W&SA Lower Moreland, and Lower Southampton Capacity $	(6) Suspended Solids $	(7) BOD $	CHECK	
	Power Requirements:	Somallo-23										
39	Raw Wastewater Pumping	878,418			746,655	131,763						
40	Preliminary Treatment	7,260					6,171	1,089				
41	Primary Sedimentation	58,077					49,365	8,712				
42	Aeration	4,813,150								4,813,150		
43	Secondary Sedimentation	58,077					49,365	8,712				
44	Recirculating Pumping	203,270					172,780	30,490				
45	Chlorination	14,519					12,341	2,178				
46	Primary Sludge Pumping	7,260							7,260			
47	Secondary Sludge Thickening	544,474							272,237	272,237		
48	Sludge Digestion	123,414							92,561	30,853		
49	Sludge Holding Tanks	0										
50	Sludge Dewatering	130,674							98,006	32,668		
51	Sludge Lagoon	0										
52	Grit and Screening Incineration	116,154					98,731	17,423				
53	Scum and Grease Incineration	7,260							7,260			
54	Laboratory	0										
55	Subtotal Power Requirements	6,962,007	0	0	746,655	131,763	388,753	68,604	477,324	5,148,908		
	Gas Requirements:	Somallo-23										
56	Raw Wastewater Pumping	149,684			0	149,684						
57	Preliminary Treatment	236,537					0	236,537				
58	Primary Sedimentation	110,877					110,877	0				
59	Aeration	166,315								166,315		
60	Secondary Sedimentation	127,508					127,508	0				
61	Recirculating Pumping	48,047					48,047	0				
62	Chlorination	20,327					20,327	0				
63	Primary Sludge Pumping	20,327							20,327			
64	Secondary Sludge Thickening	24,023							12,012	12,011		
65	Sludge Digestion	312,303							234,227	78,076		
66	Sludge Holding Tanks	44,351							33,263	11,088		
67	Sludge Dewatering	35,111							26,333	8,778		
68	Sludge Lagoon	0										
69	Grit and Screening Incineration	99,789					0	99,789				
70	Scum and Grease Incineration	27,719							27,719			
71	Laboratory	214,362							107,181	107,181		
72	Subtotal Gas Requirements	1,637,280	0	0	0	149,684	306,759	336,326	461,062	383,449		
73	Sludge Disposal	12,183,099							9,137,324	3,045,775		
74	Total Northeast WPC Plant Expense	58,546,741	0	0	746,655	3,074,652	11,243,108	5,567,806	19,701,586	18,212,934	CHECK	0
		0	58,546,741									

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
BASISALLO - Basis of Allocation of O&M Expense	P.N. 135647.0100	January 27, 2023 3:18 p.m.					Somallo-29

Basis of Allocation

Line No.		Retail and Cheltenham Volume %	Retail and Cheltenham Capacity %	Retail, Abington Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton Volume %	Retail, Abington Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton Capacity %	Retail, Cheltenham, Abington Bensalem, Bucks County W&SA Lower Moreland, and Lower Southampton Volume %	Retail, Cheltenham, Abington Bensalem, Bucks County W&SA Lower Moreland, and Lower Southampton Capacity %	Solids %	BOD %	Reference
Personal Services:										PN 16281.300 - SOM-33 and 34
1	Raw Wastewater Pumping				100					
2	Preliminary Treatment					71	29			(a)
3	Primary Sedimentation					100				
4	Aeration								100	
5	Secondary Sedimentation					100				
6	Recirculating Pumping					100				
7	Chlorination					61	39			(a)
8	Primary Sludge Pumping							100		
9	Secondary Sludge Thickening							50	50	#13321.300;A-16
10	Sludge Digestion							75	25	#13321.300;A-16
11	Sludge Holding Tanks							75	25	#13321.300;A-16
12	Sludge Dewatering							75	25	#13321.300;A-16
13	Sludge Lagoon									
14	Grit and Screening Incineration					67	33			(a)
15	Scum and Grease Incineration							100		
16	Laboratory							50	50	Assume
17	Subtotal Personal Services									
Purchase of Services, Materials, Supplies, and Equipment:										
18	Raw Wastewater Pumping				100					
19	Preliminary Treatment						100			
20	Primary Sedimentation					100				
21	Aeration								100	
22	Secondary Sedimentation					100				
23	Recirculating Pumping					100				
24	Chlorination					100				
25	Primary Sludge Pumping							100		
26	Secondary Sludge Thickening							50	50	#13321.300;A-16
27	Sludge Digestion							75	25	#13321.300;A-16
28	Sludge Holding Tanks							75	25	#13321.300;A-16
29	Sludge Dewatering							75	25	#13321.300;A-16
30	Sludge Lagoon									
31	Grit and Screening Incineration						100			
32	Scum and Grease Incineration							100		
33	Laboratory							50	50	Assume
34	Subtotal Purchase of Services, Materials, Supplies & Equipment									
35	Subtotal All Above									
Administrative and General:										
36	Personal Services									Allocated on subtotal Personal Services (Line 17)
37	Other									Allocated on subtotal Purchase of Services, Etc. (Line 34)
38	Subtotal Administration & General									

	Power Requirements:								
39	Raw Wastewater Pumping	85	15						(c)
40	Preliminary Treatment			85	15				(c)
41	Primary Sedimentation			85	15				(c)
42	Aeration						100		
43	Secondary Sedimentation			85	15				(c)
44	Recirculating Pumping			85	15				(c)
45	Chlorination			85	15				(c)
46	Primary Sludge Pumping					100			
47	Secondary Sludge Thickening					50	50		
48	Sludge Digestion					75	25	#13321.300;A-16	
49	Sludge Holding Tanks								
50	Sludge Dewatering					75	25	#13321.300;A-16	
51	Sludge Lagoon								
52	Grit and Screening Incineration			85	15				(c)
53	Scum and Grease Incineration					100			
54	Laboratory								
55	Subtotal Power Requirements								
	Gas Requirements:								
56	Raw Wastewater Pumping		100						
57	Preliminary Treatment				100				
58	Primary Sedimentation			100					
59	Aeration						100		
60	Secondary Sedimentation			100					
61	Recirculating Pumping			100					
62	Chlorination			100					
63	Primary Sludge Pumping					100			
64	Secondary Sludge Thickening					50	50	#13321.300;A-16	
65	Sludge Digestion					75	25	#13321.300;A-16	
66	Sludge Holding Tanks					75	25	#13321.300;A-16	
67	Sludge Dewatering					75	25	#13321.300;A-16	
68	Sludge Lagoon								
69	Grit and Screening Incineration				100				
70	Scum and Grease Incineration					100			
71	Laboratory					50	50		Assume
72	Subtotal Gas Requirements								
73	Sludge Disposal					75	25	#13321.300;A-16	
74	Total Northeast WPC Plant Expense								

(a) Assume Operation is Volume related & Maintenance is Capacity related.

	manhours (Ref. #12065, H-10.1)					
	Operation	Maintenance	Total	Operation	Maintenance	Total
	mhrs	mhrs	mhrs			
Preliminary Treatment	20,000	8,000	28,000	71%	29%	100%
Chlorination	4,800	3,100	7,900	61%	39%	100%
Grit & Screenings Incineration	12,000	6,000	18,000	67%	33%	100%
Frankford Grit Cham. 1978 Rpt, Table 28 (b)	71,000	62,000	133,000	53%	47%	100%

(b) The Frankford Grit Chamber will not be in service during the test period.
(c) Reference #10207.300, SI-1.1.1
(d) Line 56, sludge disposal represents NEWPCP allocated share of related expenses incurred at the SWWPCP.

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
NEOMSUM - Summary of Allocated O&M NE WPCP	P.N. 135647.0100	January 27, 2023 3:18 p.m.					Somallo-30

Line No.	Summary of Allocated O&M	Total Operation and Maintenance Expense $	Retail and Cheltenham Volume $	Retail and Cheltenham Capacity $	Retail, Abington Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton Volume $	Retail, Abington Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton Capacity $	Retail, Cheltenham, Abington Bensalem, Bucks County W&SA Lower Moreland, and Lower Southampton Volume $	Retail, Cheltenham, Abington Bensalem, Bucks County W&SA Lower Moreland, and Lower Southampton Capacity $	Suspended Solids $	BOD $
					Somallo-23&Somallo-27&Somallo-28					
1	Total Direct O&M	58,546,741	0	0	746,655	3,074,652	11,243,108	5,567,806	19,701,586	18,212,934
2	Less Direct Power	6,962,007	0	0	746,655	131,763	388,753	68,604	477,324	5,148,908
3	Less A&G Power	297,646	0	0	0	24,600	78,946	55,300	75,800	63,000
4	Less Sludge Disp. Power	0	0	0	0	0	0	0	0	0
5	Less Direct Gas	1,637,280	0	0	0	149,684	306,759	336,326	461,062	383,449
6	Less A&G Gas	210,667	0	0	0	17,400	55,967	39,100	53,600	44,600
7	Less Sludge Disp. Gas	0	0	0	0	0	0	0	0	0
8	Direct O&M Less Power	49,439,142	0	0	0	2,751,205	10,412,683	5,068,476	18,633,800	12,572,977

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
SWOMALLO1 - Allocation of O&M For The SW WPCP - Page 1	P.N. 135647.0100	January 27, 2023 3:18 p.m.					Somallo-31

Ref: Somallo-26 * allocation percentages this page

TABLE WW - 10C

ALLOCATION OF OPERATION AND MAINTENANCE EXPENSE FOR THE SOUTHWEST WPC PLANT TO FUNCTIONAL COST COMPONENTS

Line No.		(1) Total Operation and Maintenance Expense	(2) Retail Volume	(3) Retail Capacity	(4) Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby Volume	(5) Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby Capacity	(6) Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby Suspended Solids	(7) Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby BOD
		$	$	$	$	$	$	$
Personal Services:		Somallo-26						
1	Raw Wastewater Pumping	161,675		161,675				
2	Preliminary Treatment	2,134,108			1,557,899	576,209		
3	Flocculation	388,020			388,020			
4	Primary Sedimentation	562,628			562,628			
5	Aeration	1,144,658						1,144,658
6	Secondary Sedimentation	970,049			970,049			
7	Recirculating Pumping	362,152			362,152			
8	Chlorination	549,694			324,319	225,375		
9	Effluent Pumping	452,690				452,690		
10	Primary Sludge Pumping	413,888					413,888	
11	Secondary Sludge Thickening	342,751					167,948	174,803
12	Sludge Digestion	1,309,566					982,175	327,391
13	Sludge Holding Tanks	223,111					167,333	55,778
14	Sludge Dewatering	1,018,552					763,914	254,638
15	Sludge Lagoon	9,700					7,275	2,425
16	Grit and Screening Incineration	897,295			610,161	287,134		
17	Scum and Grease Incineration	227,962					227,962	
18	Laboratory	827,775					413,888	413,887
19	Subtotal Personal Services	11,996,274	0	161,675	4,775,228	1,541,408	3,144,383	2,373,580

Basis of Allocation

Line No.		Reference	Retail Volume %	Retail Capacity %	Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby Volume %	Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby Capacity %	Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby Suspended Solids %	Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby BOD %
		PN 16281.300 - SOM-36 and 37						
1	Raw Wastewater Pumping			100				
2	Preliminary Treatment	(a)			73	27		
3	Flocculation				100			
4	Primary Sedimentation				100			
5	Aeration							100
6	Secondary Sedimentation				100			
7	Recirculating Pumping				100			
8	Chlorination	(a)			59	41		
9	Effluent Pumping					100		
10	Primary Sludge Pumping						100	
11	Secondary Sludge Thickening						49	51
12	Sludge Digestion						75	25
13	Sludge Holding Tanks						75	25
14	Sludge Dewatering						75	25
15	Sludge Lagoon						75	25
16	Grit and Screening Incineration	(a)			68	32		
17	Scum and Grease Incineration						100	
18	Laboratory	Assume					50	50

Purchase of Services, Materials, Supplies, and Equipment:		Somallo-26												
20	Raw Wastewater Pumping	119,392		119,392						100				
21	Preliminary Treatment	1,366,760				1,366,760						100		
22	Flocculation	708,395			708,395						100			
23	Primary Sedimentation	399,112			399,112						100			
24	Aeration	777,757						777,757						100
25	Secondary Sedimentation	838,022			838,022						100			
26	Recirculating Pumping	349,081			349,081						100			
27	Chlorination	1,009,687			1,009,687						100			
28	Effluent Pumping	39,797				39,797						100		
29	Primary Sludge Pumping	449,143					449,143						100	
30	Secondary Sludge Thickening	79,595					39,002	40,593					49	51
31	Sludge Digestion	785,432					589,074	196,358					75	25
32	Sludge Holding Tanks	277,161					207,871	69,290					75	25
33	Sludge Dewatering	1,660,408					1,245,306	415,102					75	25
34	Sludge Lagoon	15,350					11,513	3,837					75	25
35	Grit and Screening Incineration	351,355				351,355						100		
36	Scum and Grease Incineration	112,570					112,570						100	
37	Laboratory	897,149					448,575	448,574	Assume				50	50
38	Subtotal Purchase of Services, Materials, Supplies & Equipment	10,236,166	0	119,392	3,304,297	1,757,912	3,103,054	1,951,511						
39	Subtotal All Above	22,232,440	0	281,067	8,079,525	3,299,320	6,247,437	4,325,091						
Administrative and General:		Somallo-26												
40	Personal Services	2,889,800	0	38,946	1,150,312	371,312	757,455	571,775	Allocated on subtotal Personal Services (Line 17)					
41	Other	1,307,100	0	15,246	421,940	224,475	396,242	249,197	Allocated on subtotal Purchase of Services, Etc. (Line 34)					
42	Subtotal Administration & General	4,196,900	0	54,192	1,572,252	595,787	1,153,697	820,972						

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
SWOMALLO2 - Allocation of O&M For The SW WPCP - Page 2	P.N. 135647.0100	January 27, 2023 3:18 p.m.					Somallo-32

Ref: Somallo-26 * allocation percentages this page

TABLE WW - 10C

ALLOCATION OF OPERATION AND MAINTENANCE EXPENSE FOR THE SOUTHWEST WPC PLANT TO FUNCTIONAL COST COMPONENTS

		(1)	(2)	(3)	(4)	(5)	(6)	(7)							
									Basis of Allocation						
			Retail		Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby					Retail		Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby			
Line No.		Total Operation and Maintenance Expense	Volume	Capacity	Volume	Capacity	Suspended Solids	BOD	Reference	Volume	Capacity	Volume	Capacity	Suspended Solids	BOD
		$	$	$	$	$	$	$		%	%	%	%	%	%
Power Requirements:		Somallo-26													
43	Raw Wastewater Pumping	95,134	80,864	14,270					(b)	85	15				
44	Preliminary Treatment	6,342			5,391	951			(b)			85	15		
45	Flocculation	304,882			259,150	45,732			(b)			85	15		
46	Primary Sedimentation	24,010			20,409	3,601			(b)			85	15		
47	Aeration	2,970,445						2,970,445							100
48	Secondary Sedimentation	61,158			51,984	9,174			(b)			85	15		
49	Recirculating Pumping	162,181			137,854	24,327			(b)			85	15		
50	Chlorination	13,138			11,167	1,971			(b)			85	15		
51	Effluent Pumping	39,866			33,886	5,980			(b)			85	15		
52	Primary Sludge Pumping	3,624					3,624							100	
53	Secondary Sludge Thickening	396,845					194,454	202,391						49	51
54	Sludge Digestion	92,755					69,566	23,189						75	25
55	Sludge Holding Tanks	0					0	0						75	25
56	Sludge Dewatering	67,953					50,965	16,988						75	25
57	Sludge Lagoon	0					0	0	(b)					75	25
58	Grit and Screening Incineration	42,130			35,811	6,319						85	15		
59	Scum and Grease Incineration	6,455					6,455							100	
60	Laboratory	0					0	0						50	50
61	Subtotal Power Requirements	4,286,918	80,864	14,270	555,652	98,055	325,064	3,213,013							
Gas Requirements:		Somallo-26 (d)													
62	Raw Wastewater Pumping	38,807	0	38,807							100				
63	Preliminary Treatment	444,246			0	444,246							100		
64	Flocculation	230,254			230,254	0						100			
65	Primary Sedimentation	129,726			129,726	0						100			
66	Aeration	252,799						252,799							100
67	Secondary Sedimentation	272,387			272,387	0						100			
68	Recirculating Pumping	113,464			113,464	0						100			
69	Chlorination	38,807			38,807	0						100			
70	Effluent Pumping	12,936			0	12,936							100		
71	Primary Sludge Pumping	145,988					145,988							100	
72	Secondary Sludge Thickening	25,871					12,677	13,194						49	51
73	Sludge Digestion	255,294					191,471	63,823						75	25
74	Sludge Holding Tanks	90,088					67,566	22,522						75	25
75	Sludge Dewatering	539,693					404,770	134,923						75	25
76	Sludge Lagoon	4,990					3,743	1,247						75	25
77	Grit and Screening Incineration	114,203			0	114,203							100		
78	Scum and Grease Incineration	36,589					36,589							100	
79	Laboratory	291,606					145,803	145,803	Assume					50	50
80	Subtotal Gas Requirements	3,037,748	0	38,807	784,638	571,385	1,008,607	634,311							
81	Sludge Disposal	Somallo-24 7,500,889					5,625,667	1,875,222						75	25
82	Total Southwest WPC Plant Expense	41,254,895	80,864	388,336	10,992,067	4,564,547	14,360,472	10,868,609							
		0	41,254,895												

(a) Assume Operation is Volume related & Maintenance is Capacity related.

	manhours (Ref. #12065, H-11.1) Operation mhrs	Maintenance mhrs	Total mhrs	Operation	Maintenance	Total
Preliminary Treatment	24,000	9,000	33,000	73%	27%	100%
Chlorination	5,000	3,500	8,500	59%	41%	100%
Grit & Screenings Incineration	12,500	6,000	18,500	68%	32%	100%

(b) Reference #10207.300, SI-1.1.1
(c) Line 62, sludge disposal represents allocated share of related expenses incurred at the SWWPCP.

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
SWOMSUM - Summary of Allocated O&M SW WPCP	P.N. 135647.0100	January 27, 2023 3:18 p.m.					Somallo-33

Rangename: SWCOS03T

Line No.		Total Operation and Maintenance Expense $	Retail Volume $	Retail Capacity $	Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby Volume $	Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby Capacity $	Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby Suspended Solids $	Retail, DELCORA, Lower Merion Springfield (w/o Wyndmoor) and Upper Darby BOD $
	Summary of Allocated O&M							
				Somallo-26&Somallo-31&Somallo-32				
1	Total Direct O&M	41,254,895	80,864	388,336	10,992,067	4,564,547	14,360,472	10,868,609
2	Less Direct Power	4,286,918	80,864	14,270	555,652	98,055	325,064	3,213,013
3	Less A&G Power	157,262	0	1,834	50,765	27,007	47,674	29,982
4	Less Sludge Disp. Power	0	0	0	0	0	0	0
5	Less Direct Gas	3,037,748	0	38,807	784,638	571,385	1,008,607	634,311
6	Less A&G Gas	282,059	0	3,290	91,050	48,439	85,506	53,774
7	Less Sludge Disp. Gas	0	0	0	0	0	0	0
8	Direct O&M Less Power	33,490,908	0	330,135	9,509,962	3,819,661	12,893,621	6,937,529

TABLE WW - 10D

ALLOCATION OF OPERATION AND MAINTENANCE EXPENSE FOR THE SOUTHEAST WPC PLANT TO FUNCTIONAL COST COMPONENTS

		(1)	(2)	(3)	(4)	(5)		Basis of Allocation				
		Total Operation and Maintenance	Retail and Springfield (Wyndmoor)					Retail and Springfield (Wyndmoor)				
Line No.		Expense	Volume	Capacity	Suspended Solids	BOD	Reference	Volume	Capacity	Suspended Solids	BOD
		$	$	$	$	$		%	%	%	%
Personal Services:		Somallo-25 & Somallo-26					PN 16281.300 - SOM-39 and 40				
1	Raw Wastewater Pumping	939,988		939,988					100		
2	Preliminary Treatment	1,335,055	961,240	373,815			(a)	72	28		
3	Flocculation	408,690	408,690					100			
4	Primary Sedimentation	476,805	476,805					100			
5	Aeration	476,805				476,805					100
6	Secondary Sedimentation	592,601	592,601					100			
7	Recirculating Pumping	286,083	286,083					100			
8	Chlorination	456,371	287,514	168,857			(a)	63	37		
9	Effluent Pumping	361,010		361,010					100		
10	Primary Sludge Pumping	381,444			381,444					100	
11	Waste Sludge Pumping	279,272			237,381	41,891				85	15
12	Secondary Sludge Thickening	0									
13	Sludge Digestion	436,522			371,044	65,478				85	15
14	Sludge Holding Tanks	271,905			231,119	40,786				85	15
15	Sludge Dewatering	339,517			288,589	50,928				85	15
16	Sludge Lagoon	3,234			2,749	485				85	15
17	Grit and Screening Incineration	299,099	203,387	95,712			(a)	68	32		
18	Scum and Grease Incineration	75,987			75,987					100	
19	Scum Pumping	381,444			381,444					100	
20	Primary Sludge Transfer Pumping	197,534			197,534					100	
21	Waste Activated Sludge Xfer Pumping	183,911			156,324	27,587				85	15
22	Laboratory	653,904			326,952	326,952	Assume			50	50
23	Subtotal Personal Services	8,837,181	3,216,320	1,939,382	2,650,567	1,030,912					

Purchase of Services, Materials, Supplies, and Equipment:											
24	Raw Wastewater Pumping	504,060		504,060					100		
25	Preliminary Treatment	1,471,529		1,471,529					100		
26	Flocculation	617,880	617,880					100			
27	Primary Sedimentation	398,370	398,370					100			
28	Aeration	617,880				617,880					100
29	Secondary Sedimentation	504,060	504,060					100			
30	Recirculating Pumping	300,810	300,810					100			
31	Chlorination	924,042	924,042					100			
32	Effluent Pumping	260,160		260,160					100		
33	Primary Sludge Pumping	471,540			471,540					100	
34	Waste Sludge Pumping	300,810			255,689	45,121				85	15
35	Secondary Sludge Thickening	0									
36	Sludge Digestion	261,811			222,539	39,272				85	15
37	Sludge Holding Tanks	328,157			278,933	49,224				85	15
38	Sludge Dewatering	553,470			470,450	83,020				85	15
39	Sludge Lagoon	5,117			4,349	768				85	15
40	Grit and Screening Incineration	117,118		117,118					100		
41	Scum and Grease Incineration	37,523			37,523					100	
42	Scum Pumping	471,540			471,540					100	
43	Primary Sludge Transfer Pumping	170,730			170,730					100	
44	Waste Activated Sludge Xfer Pumping	162,600			138,210	24,390				85	15
45	Laboratory	658,530			329,265	329,265	Assume			50	50
46	Subtotal Purchase of Services, Materials, Supplies & Equipment	9,137,737	2,745,162	2,352,867	2,850,768	1,188,940					
47	Subtotal All Above	17,974,918	5,961,482	4,292,249	5,501,335	2,219,852					
Administrative and General:											
48	Personal Services	2,491,730	906,873	546,828	747,353	290,676	Allocated on subtotal Personal Services (Line 23)				
49	Services, Materials, Supplies, and Equipment	996,791	299,456	256,663	310,976	129,696	Allocated on subtotal Purchase of Services, Etc. (Line 46)				
50	Gas	27,881	3,011	5,288	15,820	3,762	Allocated on subtotal Gas (Line 97)				
51	Subtotal Administration & General	3,516,402	1,209,340	808,779	1,074,149	424,134					

TABLE WW - 10D

ALLOCATION OF OPERATION AND MAINTENANCE EXPENSE FOR THE SOUTHEAST WPC PLANT TO FUNCTIONAL COST COMPONENTS

Line No.		(1) Total Operation and Maintenance Expense $	(2) Retail and Springfield (Wyndmoor) Volume $	(3) Capacity $	(4) Suspended Solids $	(5) BOD $	Basis of Allocation: Reference	Retail and Springfield (Wyndmoor) Volume %	Capacity %	Suspended Solids %	BOD %
Power Requirements:		Somallo-25 & Somallo-26									
52	Raw Wastewater Pumping	301,099	255,934	45,165			(b)	85	15		
53	Preliminary Treatment	0	0	0			(b)	85	15		
54	Flocculation	463,534	394,004	69,530			(b)	85	15		
55	Primary Sedimentation	18,489	15,716	2,773			(b)	85	15		
56	Aeration	401,465				401,465					100
57	Secondary Sedimentation	13,206	11,225	1,981			(b)	85	15		
58	Recirculating Pumping	31,695	26,941	4,754			(b)	85	15		
59	Chlorination	3,962	3,368	594			(b)	85	15		
60	Effluent Pumping	35,656	30,308	5,348			(b)	85	15		
61	Primary Sludge Pumping	1,321			1,321					100	
62	Waste Sludge Pumping	3,962			3,368	594				85	15
63	Secondary Sludge Thickening	0									
64	Sludge Digestion	30,919			26,281	4,638				85	15
65	Sludge Holding Tanks	0									
66	Sludge Dewatering	22,651			19,253	3,398				85	15
67	Sludge Lagoon	0									
68	Grit and Screening Incineration	14,044	11,937	2,107			(b)	85	15		
69	Scum and Grease Incineration	2,152			2,152					100	
70	Scum Pumping	3,962			3,962					100	
71	Primary Sludge Transfer Pumping	27,733			27,733					100	
72	Waste Activated Sludge Xfer Pumping	14,527			12,348	2,179				85	15
73	Laboratory	0									
74	Subtotal Power Requirements	1,390,377	749,433	132,252	96,418	412,274					
Gas Requirements:		Somallo-25 & Somallo-26									
75	Raw Wastewater Pumping	16,306	0	16,306					100		
76	Preliminary Treatment	47,604	0	47,604					100		
77	Flocculation	19,988	19,988	0				100			
78	Primary Sedimentation	12,887	12,887	0				100			
79	Aeration	19,988				19,988					100
80	Secondary Sedimentation	16,306	16,306	0				100			
81	Recirculating Pumping	9,731	9,731	0				100			
82	Chlorination	3,945	3,945	0				100			
83	Effluent Pumping	8,416	0	8,416					100		
84	Primary Sludge Pumping	15,254			15,254					100	
85	Waste Sludge Pumping	9,731			8,271	1,460				85	15
86	Secondary Sludge Thickening	0									
87	Sludge Digestion	85,098			72,333	12,765				85	15
88	Sludge Holding Tanks	37,656			32,008	5,648				85	15
89	Sludge Dewatering	179,898			152,913	26,985				85	15
90	Sludge Lagoon	1,663			1,414	249				85	15
91	Grit and Screening Incineration	38,068	0	38,068					100		
92	Scum and Grease Incineration	12,197			12,197					100	
93	Scum Pumping	15,254			15,254					100	
94	Primary Sludge Transfer Pumping	5,523			5,523					100	
95	Waste Activated Sludge Xfer Pumping	5,260			4,471	789				85	15
96	Laboratory	21,303			10,652	10,651	Assume			50	50
97	Subtotal Gas Requirements	582,076	62,857	110,394	330,290	78,535					
98	Sludge Disposal	3,211,765			2,730,000	481,765				85	15
99	Total Southeast WPC Plant Expense	26,675,538	7,983,112	5,343,674	9,732,192	3,616,560					
		2	26,675,538								

(a) Assume Operation is Volume related & Maintenance is Capacity related.

	manhours (Ref. #12065, H-12.1) Operation mhrs	Maintenance mhrs	Total mhrs	Operation	Maintenance	Total
Preliminary Treatment	13,000	5,000	18,000	72%	28%	100%
Chlorination	4,200	2,500	6,700	63%	37%	100%
Grit & Screenings Incineration	12,500	6,000	18,500	68%	32%	100%

(b) Reference #10207.300, SI-1.1.1

(c) Line 74, sludge disposal represents allocated share of related expenses incurred at the SWWPCP.

File: SCOS23_24_ver1.xls
SEOMSUM - Summary of Allocated O&M SE WPCP

Philadelphia Water Department (PWD)
P.N. 135647.0100

CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE
January 27, 2023 3:18 p.m.

Test Year 2024 Budget Yr 2023 Ver. 1a
Somallo-36

Rangename: SECOST

Line No.		Total Operation and Maintenance Expense $	Retail and Springfield (Wyndmoor) Volume $	Capacity $	Suspended Solids $	BOD $
	Summary of Allocated O&M					
1	Total Direct O&M	26,675,538	7,983,112	5,343,674	9,732,192	3,616,560
2	Less Direct Power	1,390,377	749,433	132,252	96,418	412,274
3	Less A&G Power	16,244	4,880	4,183	5,067	2,114
4	Less Sludge Disp. Power	0	0	0	0	0
5	Less Direct Gas	582,076	62,857	110,394	330,290	78,535
6	Less A&G Gas	29,135	3,146	5,526	16,532	3,931
7	Less Sludge Disp. Gas	0	0	0	0	0
8	Direct O&M Less Power	24,657,706	7,162,796	5,091,319	9,283,885	3,119,706

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
OMALLO - Test Year O&M to Functional Components	P.N. 135647.0100	January 27, 2023 3:18 p.m.					Somallo-37

TABLE WW - 10A

ALLOCATION OF TEST YEAR OPERATION AND MAINTENANCE EXPENSE FOR THE COLLECTION SYSTEM TO FUNCTIONAL COST COMPONENTS

Line No.			(1) Total $1,000 Somallo-22	(2) All Customers Capacity $1,000	(3) Retail Volume $1,000	(4) Retail Capacity $1,000	(5) Storm Capacity $1,000	(6) Retail and Lower Merion Volume $1,000	(7) Retail and Lower Merion Capacity $1,000	(8) Retail & Springfield (excluding Wyndmoor) Volume $1,000	(9) Retail & Springfield (excluding Wyndmoor) Capacity $1,000	(10) Direct to Bucks County $1,000 Somallo-23	Allocation Basis Volume	Allocation Basis Capacity	CHECK
1	Sewer Maintenance	x	31,033	31,033											
2	Inlet Cleaning	x	12,973				12,973								
	Pump Stations														
	Neill Drive														
3	Power	x	12.0					10.0	2.0				85	15	
4	Gas	x	0.0					0.0	0.0				0	100	
5	Other	x	123.9						123.9						
	Central Schuylkill														
6	Power	x	58							49	9		85	15	
7	Gas	x	0							0	0		0	100	
8	Other	x	370								370				
	All Other Pumping Stations														
9	Power	x	5,889		5,006	883							85	15	
10	Gas	x	0		0	0							0	100	
11	Other	x	14,375			14,375						0			
12	GSI Maintenance	x	14,144	14,144											
13	Total Collection System		78,978	45,177	5,006	15,258	12,973	10	126	49	379	0			

Total Operating Expense from COS Table ($)	369,570,061
Total Operating Expense in this page ($1,000)	$369,573
ROUNDING ERROR - INCLUDE ON LINE 1 TOTAL !!!	$3
USE ==>	
Test Cell ==>	$78,978

NOTE: If rounding error is noted above, rerun the wtp sludge cost macro. The sludge cost in the financial plan and the scos analysis may not aligned.

Total O&M Expense	400,063
Interest Expense	(1,446)
State & Federal Grant	(3,963)
Subtotal	394,654
Retail Misc Revenue	(12,147)
Subtotal	382,507
WTP Sludge	(12,934)
	369,573

Somallo-37	TABLE WW - 10A	78,978	a
Somallo-27	TABLE WW - 10B	58,547	b
Somallo-31	TABLE WW - 10C	41,255	b
Somallo-34	TABLE WW - 10D	26,676	b
Somallo-38	Admin & General	194,606	c
	Total O&M Expense	400,061	

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
MISCOM - Miscellaneous Other O&M Allocations	P.N. 135647.0100	January 27, 2023 3:18 p.m.					Somallo-38

ALLOCATION OF OPERATION AND MAINTENANCE EXPENSE FOR PAYMENTS TO OTHER FUNDS, INDUSTRIAL WASTE UNIT, AND ADMINISTRATIVE AND GENERAL EXPENSE TO FUNCTIONAL COST COMPONENTS

Line No.		(1) Total	(2) A&G	(3) A&G Volume	(4) A&G Plant Investment	(5) Equivalent Bills-All Customers	(6) Streets	(7) Direct to Excess Strength	(8) Equivalent Meters-All Customers	(9) Equivalent Services ≤2" Meter Customers	(10) Wastewater Collection	(11) Wastewater Collection GSI Maintenance	(12) Direct to Stormwater	CHECK
		$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	
		Somallo-4												
1	Water Revenue Bureau	15,024				15,024								
	(Class 100...Class 500)	Somallo-38	This page			This page								
2	Joint Direct Expense (Class 100...Class 500) (a)													
	Human Resources	20,903	20,903											
	Finance and Administration	30,264	9,184			1,080					20,000		0	
	Public Affairs	9,465	7,076	822		1,567					0		0	0
	Planning & Engineering - Watersheds	12,048	12,048								0		0	
	Planning & Engineering - BLS	13,015	13,015											
	Planning & Engineering - P&R (incl E & ES)	16,619	0		16,619									
	Planning & Engineering - GSI Maintenance	15,989	0									15,989		
	Information Science & Tech.													
	CBIS	6,814				6,814								
	All Other	10,296	0	10,296										
	Total IST	17,110	0	10,296	0	6,814	0	0	0	0	0	0	0	
	Meter Shop Class 200 - AMR	7				7								
	Operations Cust. Svcs. Classes 100...500 (all)	3,753							3,753					
	Warranty Program Class 264	0							0					
	Subtotal	139,173	62,226	11,118	16,619	9,468	0	0	3,753	0	20,000	15,989	0	CHECK 0
	Plus Residual Fund Deposit	13,051	13,051											
	Plus Deposit From (To) RSF	5,619	5,619											
2	Joint Direct Expense (Class 100...Class 500) (a)	157,843	80,896	11,118	16,619	9,468	0	0	3,753	0	20,000	15,989	0	CHECK
		Somallo-4												
3	Payment to Law Department	4,454	4,454											
		Somallo-4			(Payment to Public Properties (b) * 0.00)									
4	Payment to Public Properties (b)	3,033	3,033			0								
		Somallo-4				(Payment to General Fund * 29.6%,)								
5	Payment to General Fund	4,311	3,035				1,276							
	Somallo-17, Somallo-18,							(Industrial Waste Unit (c) * 0.33)						
6	Fleet, Mayors Office, Procurement	5,539	5,539											
7	Industrial Waste Unit (c)	4,402						1,453	2,949					
	Somallo-19, Somallo-20													
8	Capital (270) Pension & Benefits	0	0		0									
	Somallo-4													
	Total	194,606	96,957	11,118	16,619	24,492	1,276	1,453	6,702	0	20,000	15,989	0	
					x	x	x	x		x	x	x		
			A&G			Equiv. Bills	Streets	Excess Strgth	Equiv. Meters	Eq. M & S	Collection	Stormwater		
			100.0%			0.0%		33.0%	67.0%					

(a) Includes Human Resources, Finance and Administration, Plng & Engr and Info Sci & Tech, Public Affairs, and $18,670,000.0 allowance for working capital (Residual Fund Deposit Plus Deposit From (To) Rate Stabilization Fund). SI-101

(b) Class 800: Payments to General Fund (Off. of Fleet Mgmt, Mayor's Off. of Info. Svcs., Managing Dir. Off., Streets Dept., Pub. Prop., Licenses & Insp., Records Dept., Dir. of Fin., Rev. Dept., Procurement Dept., City Treas., Civil Svc. Comm., Personnel Dept., Auditing Dept.). SI-101

(c) Industrial Waste Unit

Allocation of Payment to General Fund - Streets

	Percent	FY 2024 Test Year $1,000	
	PN 19289.100 SI-101		
Sewer Maintenance			
All Customers - Capacity	21.0%	268	x
Inlet Cleaning			
Retail - Storm Capacity	63.0%	803	x
Northeast Plant:			
Retl, Abington, Bensalem, Bucks Cty W&SA Cheltenham, Lower Moreland, and Lower Southampton			
Suspended Solids	5.3%	68	x
Southwest Plant:			
Retail, DELCORA, Lower Merion, Springfld (Excluding Wyndmoor), and Upper Darby			
Suspended Solids	5.4%	69	x
Southeast Plant:			
Retail and Springfield (Wyndmoor)			
Suspended Solids	5.3%	68	x
GSI Maintenance	0.0%	0	x
Total Payment to General Fund - Streets		1,276	

Customer Cost Allocation

	Wastewater			Stormwater		
	Class 100 Direct $	Overheads Calc from Somallo-17 $	Classes 200...400 $	Class 100 Direct $	Overheads Calc from Somallo-17 $	Classes 200...400 $
Information Science & Technology						
CBIS	615,711	538,409	3,029,681	387,076	338,479	1,904,653
All Other	2,851,924	2,493,866	4,950,590	0	0	0
Total	3,467,635	3,032,275	7,980,271	387,076	338,479	1,904,653
Water Revenue Bureau						
Meter Reading	0	0		0	0	
All Other	5,938,007	9,225,008		3,733,014	5,799,434	
		Somallo-4 & Somallo-5			Somallo-4 & Somallo-5	
Total	5,938,007	9,225,000		3,733,014	5,799,400	
Finance & Admin - Customer						
Customer Costs			663,182			416,919
Customer Affairs - Customer						
Customer Costs			961,995			604,772

TABLES WW - 10E AND WH-2

TEST YEAR OPERATION AND MAINTENANCE EXPENSE
SUMMARY OF ALLOCATIONS TO FUNCTIONAL COST COMPONENTS

Line No.		(1) Direct Operation & Maintenance Expense	(2) Admin & General Expenses: Direct Assignment	(3) Admin & General Expenses: Allocation	(4) Total Operation & Maintenance Expense	(5) O&M Expense Deductions: Less Interest Income	(6) O&M Expense Deductions: Wholesale Related Other Revenue (a)	(7) Net Operation & Maintenance Expense	(8) Allocation of Administrative and General Expense: Direct Operation & Maintenance Expense	(9) Power Expense	(10) Treatment Plant A&G Power Expense	(11) Sludge Disposal Power	(12) Gas Expense	(13) Treatment Plant A&G Gas Expense	(14) Sludge Disposal Gas	(15) Direct O&M Less Power Less Gas Expense	(16) Allocation of Admin. & General Expense	(17) Allocation of Admin. & General Expense Volume	(18) Allocation of Admin. & General Expense Plant Invest	Plant Invest
		$1,000 Somallo-28, Somallo-32, Somallo-35, Somallo-37 & Somallo-38	$1,000 Somallo-38	$1,000 (16)+(17)+(18)	$1,000 (1)+(2)+(3)	$1,000 Prorate 0 on (4)	$1,000 Prorate on 0 on (4)	$1,000 (4)-(5)-(6)	$1,000 (1)+(2)	$1,000 Somallo-30, Somallo-33, Somallo-36, & Somallo-37	$1,000 Somallo-30, Somallo-33, & Somallo-36	$1,000 Somallo-30, Somallo-33, & Somallo-36	$1,000 Somallo-30, Somallo-33, Somallo-36, & Somallo-37	$1,000 Somallo-30, Somallo-33, & Somallo-36	$1,000 Somallo-30, Somallo-33, & Somallo-36	$1,000 (8)-(9)-(10)-(11) (12)-(13)-(14)	$1,000 Prorate Somallo-38 on (15)	$1,000 Prorate Somallo-38 on (15) Excl Customer	$1,000 Prorate Somallo-38 on Plant	$1,000
	COLLECTION SYSTEM																			
	Sewer Maintenance																			
1	All Customers - Capacity	31,033	20,268	33,196	84,497	305		84,192	51,301							51,301	19,855	2,618	10,723	1,823,982
	Inlet Cleaning																			
2	Retail - Storm Capacity	12,973	803	6,035	19,811	72		19,739	13,776							13,776	5,332	703	0	
	Neill Drive Pumping Station																			
	Retail and Lower Merion																			
3	Total Volume	10		0	10	0		10	10	10			0			0	0	0	0	
4	Total Capacity	126		63	189	1		187.9	126	2			0			124	48	6	9	1,615
	Central Schuykill Pumping Station																			
	Retail and Springfield (excl. Wyndmoor)																			
5	Total Volume	49		0	49	0		49	49	49			0			0	0	0	0	
6	Total Capacity	379		187	566	2		564	379	9			0			370	143	19	25	4,174
	All Other Pumping Stations																			
	Retail																			
7	Total Volume	5,006		0	5,006	18		4,988	5,006	5,006			0			0	0	0	0	
8	Total Capacity	15,258		6,401	21,659	78		21,581	15,258	883			0			14,375	5,564	734	103	17,436
9	Direct to Bucks County	0		0	0	0		0	0							0	0	0	0	
	GSI Maintenance																			
10	All Customers - Capacity	14,144	15,989	14,914	45,047	163		44,884	30,133							30,133	11,662	1,538	1,714	291,589
11	Total Collection Systems	78,978	37,060	60,796	176,834	639	0	176,195	116,038	5,959	0	0	0	0	0	110,079	42,604	5,618	12,574	2,138,796
	WATER POLLUTION CONTROL PLANTS																			
	Northeast Plant:																			
	Retail and Cheltenham																			
	Volume	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Capacity	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton																			
12	Volume	747		0	747	3	17	727	747	747	0	0	0	0	0	0	0	0	0	
13	Capacity	3,075		1,235	4,310	16	96	4,198	3,075	132	25	0	150	17	0	2,751	1,065	140	30	5,079
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton																			
14	Volume	11,243		4,917	16,160	58	360	15,742	11,243	389	79	0	307	56	0	10,412	4,030	531	356	60,597
15	Capacity	5,568		2,366	7,934	29	177	7,728	5,568	69	55	0	336	39	0	5,069	1,962	259	145	24,584
16	Suspended Solids	19,702	68	8,924	28,694	104	639	27,951	19,770	477	76	0	461	54	0	18,702	7,238	954	732	124,572
17	BOD	18,213		6,134	24,347	88	542	23,717	18,213	5,149	63	0	383	45	0	12,573	4,866	642	626	106,410
	Southwest Plant:																			
	Retail																			
18	Volume	81		0	81	0	2	79	81	81	0	0	0	0	0	0	0	0	0	
19	Capacity	388		275	663	2	15	646	388	14	2	0	39	3	0	330	128	17	130	22,043
	Retail, DELCORA, Lower Merion, Springfield (Excluding Wyndmoor), and Upper Darby																			
20	Volume	10,992		4,606	15,598	56	347	15,195	10,992	556	51	0	785	91	0	9,509	3,680	485	441	75,019
21	Capacity	4,565		1,791	6,356	23	142	6,191	4,565	98	27	0	571	48	0	3,821	1,479	195	117	19,926
22	Suspended Solids	14,360	69	6,052	20,481	74	455	19,952	14,429	325	48	0	1,009	86	0	12,961	5,015	661	376	64,118
23	BOD	10,869		3,351	14,220	51	317	13,852	10,869	3,213	30	0	634	54	0	6,938	2,685	354	312	53,154
	Southeast Plant:																			
	Retail and Springfield (Wyndmoor)																			
24	Volume	7,983		3,333	11,316	41	252	11,023	7,983	749	5	0	63	3	0	7,163	2,772	366	195	33,139
25	Capacity	5,344		2,481	7,825	28	174	7,623	5,344	132	4	0	110	6	0	5,092	1,971	260	250	42,518
26	Suspended Solids	9,732	68	4,280	14,080	51	314	13,715	9,800	96	5	0	330	17	0	9,352	3,619	477	184	31,254
27	BOD	3,617		1,518	5,135	19	114	5,002	3,617	412	2	0	79	4	0	3,120	1,208	159	151	25,735
28	Total Water Pollution Control Plants	126,479	205	51,263	177,947	643	3,963	173,341	126,684	12,639	472	0	5,257	523	0	107,793	41,718	5,500	4,045	688,148

	CUSTOMER COSTS																			
	All Customers																			
29	Equivalent Bills	24,492		9,479	33,971	123		33,848	24,492							24,492	9,479			
	Equivalent Meters																			
30	Industrial Waste Unit	2,949		1,141	4,090	15		4,075	2,949							2,949	1,141			
31	Other	3,753		1,453	5,206	19		5,187	3,753							3,753	1,453			
32	Warranty Program (Retail Customers with ≤ 2" meter	0		0	0	0		0	0							0	0			
33	Excess Strength Wastewater - Direct	1,453		562	2,015	7		2,008	1,453							1,453	562			
34	Stormwater - Direct	0		0	0	0		0	0							0	0			
35	Total Customer Costs	32,647	0	12,635	45,282	164	0	45,118	32,647	0	0	0	0	0	0	32,647	12,635	0	0	0
36	Total Operation and Maintenance Expense	238,103	37,265	124,694	400,063	1,446	3,963	394,654	275,368	18,598	472	0	5,257	523	0	250,518	96,957	11,118	16,619	2,826,944
																				2,826,944

(a) Net Operation & Maintenance Expense is being developed for Wholesale Customers, therefore, Other Operating Revenue associated with retail customers is not included in this table. The table for retail service customers is on pages Somallo-54 and Retcos-3.

(Net O&M above)(O Op Rev)(Clean Str)(Wtr Sludge)

Check: 394,653,563 - 17,556,574 + 3,963,000 - 12,933,521 = 368,126,468

Total O&M to be derived from rates from Financial Plan Cost of Service equals 369,570,061

Check: Column (1) + Column (2) = 362,797,563

Total O&M Revenue Requirements from Financial Plan = 400,060,156 Net Revenue Requirement + Sludge O&M Costs + Misc Revenues

(2,407)

TABLE 0

UNIT PUMPING AND TREATMENT OPERATION AND MAINTENANCE EXPENSE APPLICABLE FOR CONTRACT SERVICE

Test Year 2024

Line No.		(1) Net Operating Expense $1,000	(2) Projected Test Year Units of Service		(3) Unit Operating Expense $/unit	Total Volume Units Incl. I/I Mcf	Total Volume Units Excl. I/I Mcf	Adjusted Unit Operating Expense $/unit
	PUMPING STATIONS	Somallo-39				Units-2	Units-2	
	Neill Drive Pumping Station	Col (7)						
	Retail and Lower Merion		Units-5					
1	Total Volume	10	61,250	Mcf	0.1633	324,900	310,000	0.1711
2	Total Capacity	187.9	370	Mcf/day	507.8378	2,788	2,728	519.0073
	Central Schuykill Pumping Station							
	Retail and Springfield (excl. Wyndmoor)							
3	Total Volume	49	3,425,000	Mcf	0.0143	111,200	109,000	0.0146
4	Total Capacity	564	22,110	Mcf/day	25.5088	407	397	26.1513
5	All Other Pumping Stations - Direct to Bucks County	0	Direct		Direct	-	-	Direct
	WATER POLLUTION CONTROL PLANTS							
	Northeast Plant:							
	Retail and Cheltenham							
	Volume	0	NA	Mcf	0.000000	426,000	411,000	0.0000
	Capacity	0	NA	Mcf/day	0.000000	2,803	2,743	0.0000
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton							
6	Volume	727	6,656,000	Mcf	0.1092	1,523,500	1,468,000	0.1133
7	Capacity	4,198	42,580	Mcf/day	98.5909	10,346	10,126	100.7329
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton		Units-4 & Units-7					
8	Volume	15,742	8,995,000	Mcf	1.7501	1,949,500	1,879,000	1.8158
9	Capacity	7,728	57,546	Mcf/day	134.2926	13,149	12,869	137.2145
10	Suspended Solids	27,951	109,593	1,000 lbs	255.0440	19,073	18,765	259.2301
11	BOD	23,717	78,699	1,000 lbs	301.3647	18,164	18,120	302.0965
	Southwest Plant:							
	Retail							
12	Volume	79	NA	Mcf	0.000000	NA	NA	
13	Capacity	646	NA	Mcf/day	0.000000	NA	NA	
	Retail, DELCORA, Lower Merion, Springfield (Excluding Wyndmoor), and Upper Darby		Units-4 & Units-7					
14	Volume	15,195	8,914,000	Mcf	1.7046	903,700	870,000	1.7706
15	Capacity	6,191	57,028	Mcf/day	108.5607	6,289	6,149	111.0324
16	Suspended Solids	19,952	82,561	1,000 lbs	241.6653	9,916	9,768	245.3270
17	BOD	13,852	54,411	1,000 lbs	254.5809	8,640	8,620	255.1715
	Southeast Plant:							
	Retail and Springfield (Wyndmoor)		Units-4 & Units-7					
18	Volume	11,023	4,050,000	Mcf	2.7217	18,900	18,000	2.8578
19	Capacity	7,623	25,911	Mcf/day	294.1994	167	167	294.1994
20	Suspended Solids	13,715	34,313	1,000 lbs	399.7027	219	215	407.1357
21	BOD	5,002	26,300	1,000 lbs	190.1901	167	166	191.3339

NA - Not Applicable
Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
TWNALLO1 - O&M Allocated to Abington	P.N. 135647.0100	January 27, 2023 3:18 p.m.					Somallo-41

TABLE WH - 18

OPERATING EXPENSE ALLOCATED TO ABINGTON TOWNSHIP

Test Year 2024

Line No.	COST COMPONENT	(1) Allocated Investment $			(2)		(3) Allocated Operating Expense $	(4) Adjustment for Contract $	(5) Total Adjusted Operating Expense $
	Collection System:	Spltallo-28							
1	Sewer Maintenance (a)	490,000		x	3.50%		17,150	0	17,150
		Operating Expense Per Unit			Test Yr. No. of Units				
	NE Treatment Plants:	Somallo-40			Units-2				
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton								
2	Volume	0.1092	$/Mcf		96,500	Mcf	10,538		10,538
3	Capacity	98.5909	$/Mcf/day		844	Mcf/day	83,211		83,211
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton								
4	Volume	1.7501	$/Mcf		96,500	Mcf	168,885		168,885
5	Capacity	134.2926	$/Mcf/day		844	Mcf/day	113,343		113,343
6	Suspended Solids	255.0440	$/1,000 lbs		1,018	1,000 lbs	259,580		259,580
7	BOD	301.3647	$/1,000 lbs		1,346	1,000 lbs	405,643		405,643
8	Customer Costs						13,800		13,800
9	Total Treatment						1,072,150	0	1,072,150
	LTCP O&M Costs				System Annual Cost	Allocation			
10	Amortization of SMIP/GARP Expenses (b)				8,401,461	0.1000%	8,401		8,401
11	LTCP O&M				10,205,615	0.1000%	10,206		10,206
12	Total Annual Operating Expense						1,090,757		1,090,757
13	Total - Rounded						1,091,000		1,091,000

(a) Based on investment in sewers serving Abington.

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

CUSTOMER COSTS FOR TOWNSHIP CUSTOMERS

Contract Customer	(1) No. of Customers Metered: Standardized	(2) No. of Customers Metered: Not Standardized	(3) Estimated Total No. of Samples Collected (c)	(4) Sampling Cost $	(5) Billing Cost (b) $	(6) Calibration & Certification: Number of Sites	(7) Calibration & Certification: Billing Cost (d) $	(8) Total Customer Cost $
	(Ref. PN 13321.300; B-31)			Col. (3)*(a)			Col. (6)*(d)	(4)+(5)+(7)
Abington	2		8	800	6,500	1	6,500	13,800
Bensalem	10	2	104	10,400	6,500	5	32,500	49,400
Bucks County		1	32	3,200	6,500	1	6,500	16,200
Cheltenham	3		12	1,200	6,500	4	26,000	33,700
DELCORA		1	365	36,500	6,500		0	43,000
Lower Merion	5	2	84	8,400	6,500	6	39,000	53,900
Lower Moreland	3		12	1,200	6,500	2	13,000	20,700
Lower Southhampton		1	32	3,200	6,500	1	6,500	16,200
Springfield (Excld. W	3		12	1,200	6,500	3	19,500	27,200
Springfield (Wyndmo	3		12	1,200	6,500		0	7,700
Upper Darby	2		8	800	6,500	1	6,500	13,800
Total	31	7		68,100	71,500		156,000	295,600

(b) $80 (Ref. PN 16281.300; SOM-59) for FY1992. For FY 2023 Test Year, USE: 100
(b) $5000 (Ref. PN 16281.300; SOM-59) for FY1992. For FY 2024 Test Year, USE: 6,500
(c) Assume 8 samplings per connection per quarter for all non-standardized connections. Assume 1 sample per quarter per connection for all standardized connections. (Ref. PN 13321.300; B-31 & PN 16281.300; SOM-59)
(d) Assume a cost of calibration and quantification of $6,500.0 per site per JRM email of 12/28/00. 6,500

TABLE WH - 19

OPERATING EXPENSE ALLOCATED TO BENSALEM TOWNSHIP
Test Year 2024

Line No.	COST COMPONENT	(1) Allocated Investment $		(2)		(3) Allocated Operating Expense $	(4) Adjustment for Contract $	(5) Total Adjusted Operating Expense $
	Collection System:	Spltallo-36						
1	Sewer Maintenance (a)	1,110,000	x	3.50%		38,850	0	38,850
		Operating Expense Per Unit		Test Yr. No. of Units				
	NE Treatment Plants:							
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton	Somallo-40		Units-2				
2	Volume	0.1092	$/Mcf	155,600	Mcf	16,992		16,992
3	Capacity	98.5909	$/Mcf/day	1,034	Mcf/day	101,943		101,943
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
4	Volume	1.7501	$/Mcf	155,600	Mcf	272,316		272,316
5	Capacity	134.2926	$/Mcf/day	1,034	Mcf/day	138,859		138,859
6	Suspended Solids	255.0440	$/1,000 lbs	1,592	1,000 lbs	406,012		406,012
7	BOD	301.3647	$/1,000 lbs	1,626	1,000 lbs	489,968		489,968
8	Customer Costs					49,400		49,400
9	Total Treatment					1,514,340	0	1,514,340
	LTCP O&M Costs	System Annual Cost		Allocation				
10	Amortization of SMIP/GARP Expenses (b)	8,401,461		0.0000%		0		0
11	LTCP O&M	10,205,615		0.0000%		0		0
9	Total					1,514,340	0	1,514,340
10	Total - Rounded					1,514,000	0	1,514,000

(a) Based on investment in sewers serving Bensalem.

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

ALLOCATION OF SEWER MAINTENANCE O&M TO TOWNSHIPS

Develop a ratio of total collection system (sewer mains) O&M divided by total collection system (sewer mains) investment and multiply the ratio by each respective township allocated sewer mains investment.

	Somallo-39	
Total Collection System (Sewer Mains) O&M = $1,000	64,497	Excludes SMIP & GARP
Total Collection System (Sewer Mains) Investment =	Spltallo-5	
Mains (a) = $1,000	1,823,982	
FHL Interceptors = $1,000	0	
Total - $1,000	1,823,982	

(a) Includes Stormwater Investment.

Ratio =	3.54%
Use	3.50%

		Adjusted O&M Expense
1	Abbington	1,091,000
2	Bensalem	1,514,000
3	Bucks County	9,184,000
4	Cheltenham	2,993,000
5	DELCORA	8,890,000
6	Lower Merion	2,536,000
7	Lower Moreland	603,000
8	Lower Southampton	2,247,000
9	Springfield (less W)	1,409,000
10	Springfield	239,000
11	Upper Darby	3,207,000
		33,913,000

TABLE WH - 20

OPERATING EXPENSE ALLOCATED TO BUCKS COUNTY W&SA
Test Year 2024

Line No.	COST COMPONENT	(1) Allocated Investment $		(2)		(3) Allocated Operating Expense $	(4) Adjustment for Contract $	(5) Total Adjusted Operating Expense $
	Collection System:	Spltallo-37						
1	Sewer Maintenance (a)	1,566,000	x	3.50%		54,810	0	54,810
2	Direct to Bucks County					0		
		Operating Expense Per Unit		Test Yr. No. of Units				
	NE Treatment Plants:	Somallo-40		Units-2				
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton							
3	Volume	0.1092	$/Mcf	929,100	Mcf	101,458		101,458
4	Capacity	98.5909	$/Mcf/day	6,556	Mcf/day	646,362		646,362
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
5	Volume	1.7501	$/Mcf	929,100	Mcf	1,626,018		1,626,018
6	Capacity	134.2926	$/Mcf/day	6,556	Mcf/day	880,422		880,422
7	Suspended Solids	255.0440	$/1,000 lbs	10,694	1,000 lbs	2,727,322		2,727,322
8	BOD	301.3647	$/1,000 lbs	10,391	1,000 lbs	3,131,514		3,131,514
9	Customer Costs					16,200		16,200
10	Total Treatment					9,184,106	0	9,184,106
	LTCP O&M Costs	System Annual Cost		Allocation				
11	Amortization of SMIP/GARP Expenses (b)	8,401,461		0.0000%		0		0
12	LTCP O&M	10,205,615		0.0000%		0		0
13	Total					9,184,106	0	9,184,106
14	Total - Rounded					9,184,000	0	9,184,000

(a) Based on investment in sewers serving Bucks County.

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

TABLE WH - 21

OPERATING EXPENSE ALLOCATED TO CHELTENHAM TOWNSHIP
Test Year 2024

Line No.	COST COMPONENT	(1) Allocated Investment $		(2)		(3) Allocated Operating Expense $	(4) Adjustment for Contract $	(5) Total Adjusted Operating Expense $
	Collection System:	Spltallo-29						
1	Sewer Maintenance (a)	522,000	x	3.50%		18,270	0	18,270
		Operating Expense Per Unit		Test Yr. No. of Units				
	NE Treatment Plants:	Somallo-40		Units-2				
	Retail and Cheltenham							
2	Volume	0.1092	$/Mcf	NA	Mcf	0	0	0
3	Capacity	98.5909	$/Mcf/day	NA	Mcf/day	0	0	0
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
4	Volume	1.7501	$/Mcf	426,000	Mcf	745,543		745,543
5	Capacity	134.2926	$/Mcf/day	2,803	Mcf/day	376,422		376,422
6	Suspended Solids	255.0440	$/1,000 lbs	3,135	1,000 lbs	799,512		799,512
7	BOD	301.3647	$/1,000 lbs	2,691	1,000 lbs	810,986		810,986
8	Customer Costs					33,700		33,700
9	Total Treatment					2,784,433	0	2,784,433
	LTCP O&M Costs			System Annual Cost	Allocation			
10	Amortization of SMIP/GARP Expenses (b)			8,401,461	1.120000%	94,096		94,096
11	LTCP O&M			10,205,615	1.120000%	114,303		114,303
12	Total					2,992,832	0	2,992,832
13	Total - Rounded					2,993,000	0	2,993,000

(a) Based on investment in sewers serving Cheltenham.

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

TABLE WH - 24

OPERATING EXPENSE ALLOCATED TO LOWER MORELAND TOWNSHIP

Test Year 2024

Line No.	COST COMPONENT	(1) Allocated Investment $ Spltallo-31		(2)		(3) Allocated Operating Expense $	(4) Adjustment for Contract $	(5) Total Adjusted Operating Expense $
	Collection System:							
1	Sewer Maintenance (a)	705,000	x	3.50%		24,675	0	24,675
		Operating Expense Per Unit Somallo-40		Test Yr. No. of Units Units-2				
	NE Treatment Plants: Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton							
2	Volume	0.1092	$/Mcf	64,800	Mcf	7,076		7,076
3	Capacity	98.5909	$/Mcf/day	518	Mcf/day	51,070		51,070
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
4	Volume	1.7501	$/Mcf	64,800	Mcf	113,406		113,406
5	Capacity	134.2926	$/Mcf/day	518	Mcf/day	69,564		69,564
6	Suspended Solids	255.0440	$/1,000 lbs	638	1,000 lbs	162,770		162,770
7	BOD	301.3647	$/1,000 lbs	472	1,000 lbs	142,366		142,366
8	Customer Costs					20,700		20,700
9	Total Treatment					591,627	0	591,627
	LTCP O&M Costs			System Annual Cost	Allocation			
10	Amortization of SMIP/GARP Expenses (b)			8,401,461	0.06000%	5,041		5,041
11	LTCP O&M			10,205,615	0.06000%	6,123		6,123
12	Total Annual Operating Expense					602,791	0	602,791
13	Total - Rounded					603,000	0	603,000

(a) Based on investment in sewers serving Lower Moreland.

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

TABLE WH - 25

OPERATING EXPENSE ALLOCATED TO LOWER SOUTHAMPTON TOWNSHIP
Test Year 2024

Line No.	COST COMPONENT	(1) Allocated Investment $		(2)		(3) Allocated Operating Expense $	(4) Adjustment for Contract $	(5) Total Adjusted Operating Expense $
	Collection System:	Spltallo-32						
1	Sewer Maintenance (a)	10,220,000	x	3.50%		357,700	0	357,700
		Operating Expense Per Unit		Test Yr. No. of Units				
	NE Treatment Plants:	Somallo-40		Units-2				
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton							
2	Volume	0.1092	$/Mcf	277,500	Mcf	30,303		30,303
3	Capacity	98.5909	$/Mcf/day	1,394	Mcf/day	137,436		137,436
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
4	Volume	1.7501	$/Mcf	277,500	Mcf	485,653		485,653
5	Capacity	134.2926	$/Mcf/day	1,394	Mcf/day	187,204		187,204
6	Suspended Solids	255.0440	$/1,000 lbs	1,997	1,000 lbs	509,370		509,370
7	BOD	301.3647	$/1,000 lbs	1,638	1,000 lbs	493,558		493,558
8	Customer Costs					16,200	0	16,200
9	Total Treatment					2,217,424	0	2,217,424
	LTCP O&M Costs			System Annual Cost	Allocation			
10	Amortization of SMIP/GARP Expenses (b)			8,401,461	0.16000%	13,442		13,442
11	LTCP O&M			10,205,615	0.16000%	16,329		16,329
12	Total Annual Operating Expense					2,247,195	0	2,247,195
13	Total - Rounded					2,247,000	0	2,247,000

(a) Based on investment in sewers serving Lower Southampton.

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

TABLE WH - 22

OPERATING EXPENSE ALLOCATED TO DELCORA
Test Year 2024

Line No.	COST COMPONENT	(1) Allocated Investment $ Spltallo-38		(2)		(3) Allocated Operating Expense $	(4) Adjustment for Contract $	(5) Total Adjusted Operating Expense $	
	Sewer Maintenance	0	x	3.50%		0	0	0	
	SW Treatment Plants: Retail, DELCORA, Lower Merion, Springfield (Excluding Wyndmoor), and Upper Darby	Operating Expense Per Unit Somallo-40		Test Yr. No. of Units Units-2					Operating Expense Per Unit
1	Volume	1.7046	$/Mcf	1,087,000	Mcf	1,852,900		1,852,900	1.7046
2	Capacity	108.5607	$/Mcf/day	13,392	Mcf/day	1,453,845		1,453,845	108.5607
3	Suspended Solids	241.6653	$/1,000 lbs	12,017	1,000 lbs	2,903,976		2,903,976	241.6653
4	BOD	254.5809	$/1,000 lbs	10,202	1,000 lbs	2,597,357		2,597,357	254.5809
5	Customer Costs					43,000		43,000	
6	Total Treatment					8,851,078	0	8,851,078	
	LTCP O&M Costs			System Annual Cost	Allocation				
7	Amortization of SMIP/GARP Expenses (a)			8,401,461	0.21000%	17,643		17,643	
8	LTCP O&M			10,205,615	0.21000%	21,432		21,432	
9	Total Annual Operating Expense					8,890,153	0	8,890,153	
10	Total - Rounded					8,890,000	0	8,890,000	

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

TABLE WH - 26

OPERATING EXPENSE ALLOCATED TO SPRINGFIELD (EXCLUDING WYNDMOOR) TOWNSHIP
Test Year 2024

Line No.	COST COMPONENT	(1) Allocated Investment $		(2)		(3) Allocated Operating Expense $	(4) Adjustment for Contract $	(5) Total Adjusted Operating Expense $
	Collection System:	Spltallo-33						
1	Sewer Maintenance (a)	768,000	x	3.50%		26,880	0	26,880
		Operating Expense Per Unit		Test Yr. No. of Units				
	Central Schuylkill Pump Station	Somallo-40		Units-2				
	Retail and Springfield (excluding Wyndmoor)							
2	Volume	0.0143	$/Mcf	111,200	Mcf	1,590		1,590
3	Capacity	25.5088	$/Mcf/day	407	Mcf/day	10,382		10,382
	SW Treatment Plants:							
	Retail, DELCORA, Lower Merion, Springfield (Excluding Wyndmoor), and Upper Darby							
4	Volume	1.7046	$/Mcf	111,200	Mcf	189,552		189,552
5	Capacity	108.5607	$/Mcf/day	407	Mcf/day	44,184		44,184
6	Suspended Solids	241.6653	$/1,000 lbs	2,151	1,000 lbs	519,913		519,913
7	BOD	254.5809	$/1,000 lbs	2,117	1,000 lbs	538,876		538,876
8	Customer Costs					27,200		27,200
9	Total Treatment					1,358,577	0	1,358,577
	LTCP O&M Costs			System Annual Cost	Allocation			
10	Amortization of SMIP/GARP Expenses (a)			8,401,461	0.27000%	22,684		22,684
11	LTCP O&M			10,205,615	0.27000%	27,555		27,555
12	Total Annual Operating Expense					1,408,816	0	1,408,816
13	Total - Rounded					1,409,000	0	1,409,000

(a) Based on investment in sewers serving Springfield (excl. Wyndmoor).

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

TABLE WH - 23

OPERATING EXPENSE ALLOCATED TO LOWER MERION TOWNSHIP
Test Year 2024

Line No.	COST COMPONENT	(1) Allocated Investment $		(2)		(3) Allocated Operating Expense $	(4) Adjustment for Contract $	(5) Total Adjusted Operating Expense $
	Collection System:	Spltallo-30						
1	Sewer Maintenance (a)	1,808,000	x	3.50%		63,280	0	63,280
		Operating Expense Per Unit		Test Yr. No. of Units				
	Neill Drive Pump Station	Somallo-40		Units-2				
	Retail and Lower Merion							
2	Volume	0.1633	$/Mcf	12,700	Mcf	2,074		2,074
3	Capacity	507.8378	$/Mcf/day	115	Mcf/day	58,401		58,401
	SW Treatment Plants:							
	Retail, DELCORA, Lower Merion, Springfield (Excluding Wyndmoor), and Upper Darby							
4	Volume	1.7046	$/Mcf	324,900	Mcf	553,825		553,825
5	Capacity	108.5607	$/Mcf/day	2,788	Mcf/day	302,667		302,667
6	Suspended Solids	241.6653	$/1,000 lbs	3,299	1,000 lbs	797,319		797,319
7	BOD	254.5809	$/1,000 lbs	2,769	1,000 lbs	704,963		704,963
8	Customer Costs					53,900		53,900
9	Total Treatment					2,536,429	0	2,536,429
	LTCP O&M Costs			System Annual Cost	Allocation			
10	Amortization of SMIP/GARP Expenses (a)			8,401,461	0.0000%	0		0
11	LTCP O&M			10,205,615	0.0000%	0		0
12	Total Annual Operating Expense					2,536,429	0	2,536,429
13	Total - Rounded					2,536,000	0	2,536,000

(a) Based on investment in sewers serving Lower Merion.

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

TABLE WH - 28

OPERATING EXPENSE ALLOCATED TO UPPER DARBY TOWNSHIP
Test Year 2024

Line No.	COST COMPONENT	(1) Allocated Investment $		(2)		(3) Allocated Operating Expense $	(4) Adjustment for Contract $	(5) Total Adjusted Operating Expense $
	Collection System:	Spltallo-39						
1	Sewer Maintenance (a)	723,000	x	3.50%		25,305	0	25,305
		Operating Expense Per Unit		Test Yr. No. of Units				
	SW Treatment Plants:	Somallo-40		Units-2				
	Retail, DELCORA, Lower Merion, Springfield (Excluding Wyndmoor), and Upper Darby							
2	Volume	1.7046	$/Mcf	467,600	Mcf	797,071		797,071
3	Capacity	108.5607	$/Mcf/day	3,094	Mcf/day	335,887		335,887
4	Suspended Solids	241.6653	$/1,000 lbs	4,465	1,000 lbs	1,079,066		1,079,066
5	BOD	254.5809	$/1,000 lbs	3,755	1,000 lbs	955,843		955,843
6	Customer Costs					13,800		13,800
7	Total Treatment					3,206,972	0	3,206,972
	LTCP O&M Costs			System Annual Cost	Allocation			
8	Amortization of SMIP/GARP Expenses (a)			8,401,461	0.00000%	0		0
9	LTCP O&M			10,205,615	0.00000%	0		0
10	Total Annual Operating Expense					3,206,972	0	3,206,972
11	Total - Rounded					3,207,000	0	3,207,000

(a) Based on investment in sewers serving Upper Darby.

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

TABLE WH - 27

OPERATING EXPENSE ALLOCATED TO SPRINGFIELD (INCLUDING WYNDMOOR) TOWNSHIP
Test Year 2024

Line No.	COST COMPONENT	(1) Allocated Investment $		(2)		(3) Allocated Operating Expense $	(4) Adjustment for Contract $	(5) Total Adjusted Operating Expense $
	Collection System:	Spltallo-35						
1	Sewer Maintenance (a)	331,000	x	3.50%		11,585	0	11,585
		Operating Expense Per Unit		Test Yr. No. of Units				
	SE Treatment Plants:	Somallo-40		Units-2				
	Retail, Springfield (Wyndmoor)							
2	Volume	2.7217	$/Mcf	18,900	Mcf	51,440		51,440
3	Capacity	294.1994	$/Mcf/day	167	Mcf/day	49,131		49,131
4	Suspended Solids	399.7027	$/1,000 lbs	219	1,000 lbs	87,574		87,574
5	BOD	190.1901	$/1,000 lbs	167	1,000 lbs	31,816		31,816
6	Customer Costs					7,700		7,700
7	Total					239,246	0	239,246
8	Total - Rounded					239,000	0	239,000

(a) Based on investment in sewers serving Springfield (incl. Wyndmoor).

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

If changes are made to range SUMMARY, transfer changes to range SUMMARY in File RETAIL.

SUMMARY OF OPERATION AND MAINTENANCE EXPENSE ALLOCATED TO CONTRACT CUSTOMERS

Line No.		Abington	Bensalem	Bucks County	Cheltenham	Lower Moreland	Lower Southampton	DELCORA	Lower Merion	Springfield w/o Wyndmoor	Upper Darby	Springfield (Wyndmoor)	Total
		$	$	$	$	$	$	$	$	$	$	$	$
	COLLECTION SYSTEM	Somallo-41	Somallo-42	Somallo-44	Somallo-45	Somallo-46	Somallo-47	Somallo-48	Somallo-50	Somallo-49	Somallo-51	Somallo-52	
	Sewer Maintenance												
1	All Customers - Capacity (Includes SMIP/GARP and LTCP)	25,551	38,850	54,810	112,366	29,716	371,142	17,643	63,280	49,564	25,305	11,585	799,812
	Inlet Cleaning												
2	Retail - Storm Capacity												0
	Pumping Stations												
3	Total Volume								2,074	1,590			3,664
4	Total Capacity								58,401	10,382			68,783
5	Direct to Bucks County			0									0
6	LTCP O&M	10,206	0	0	114,303	6,123	16,329	21,432	0	27,555	0		195,948
7	Total Collection System	35,757	38,850	54,810	226,669	35,839	387,471	39,075	123,755	89,091	25,305	11,585	1,068,207
8	Total Coll. System Rounded to $1,000	36,000	39,000	55,000	227,000	36,000	387,000	39,000	124,000	89,000	25,000	12,000	1,068,000
	WATER POLLUTION CONTROL PLANTS												
	Northeast Plant:												
	Retail and Cheltenham												
9	Volume				0								0
10	Capacity				0								0
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton												
11	Volume	10,538	16,992	101,458		7,076	30,303						166,367
12	Capacity	83,211	101,943	646,362		51,070	137,436						1,020,022
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton												
13	Volume	168,885	272,316	1,626,018	745,543	113,406	485,653						3,411,821
14	Capacity	113,343	138,859	880,422	376,422	69,564	187,204						1,765,814
15	Suspended Solids	259,580	406,012	2,727,322	799,512	162,770	509,370						4,864,566
16	BOD	405,643	489,968	3,131,514	810,986	142,366	493,558						5,474,035
17	Total Northeast Plant	1,041,200	1,426,090	9,113,096	2,732,463	546,252	1,843,524	0	0	0	0	0	16,702,625

	Southwest Plant:												
	Retail												
18	Volume												
19	Capacity												
	Retail, DELCORA, Lower Merion, Springfield (Excluding Wyndmoor), and Upper Darby												
20	Volume							1,852,900	553,825	189,552	797,071		3,393,348
21	Capacity							1,453,845	302,667	44,184	335,887		2,136,583
22	Suspended Solids							2,903,976	797,319	519,913	1,079,066		5,300,274
23	BOD							2,597,357	704,963	538,876	955,843		4,797,039
24	Total Southwest Plant	0	0	0	0	0	0	8,808,078	2,358,774	1,292,525	3,167,867	0	15,627,244
	Southeast Plant:												
	Retail and Springfield (Wyndmoor)												
25	Volume											51,440	51,440
26	Capacity											49,131	49,131
27	Suspended Solids											87,574	87,574
28	BOD											31,816	31,816
29	Total Southeast Plant	0	0	0	0	0	0	0	0	0	0	219,961	219,961
30	Total Water Pollution Control Plants	1,041,200	1,426,090	9,113,096	2,732,463	546,252	1,843,524	8,808,078	2,358,774	1,292,525	3,167,867	219,961	32,549,830
31	Total WPCP Rounded to $1,000	1,041,000	1,426,000	9,113,000	2,732,000	546,000	1,844,000	8,808,000	2,359,000	1,293,000	3,168,000	220,000	32,550,000
32	CUSTOMER COSTS	13,800	49,400	16,200	33,700	20,700	16,200	43,000	53,900	27,200	13,800	7,700	295,600
33	Customer Costs Rounded to $1,000	14,000	49,000	16,000	34,000	21,000	16,000	43,000	54,000	27,000	14,000	8,000	296,000
34	Total Allocated O&M	1,090,757	1,514,340	9,184,106	2,992,832	602,791	2,247,195	8,890,153	2,536,429	1,408,816	3,206,972	239,246	33,913,637
35	Total Rounded From Somallo-44	1,091,000	1,514,000	9,184,000	2,993,000	603,000	2,247,000	8,890,000	2,536,000	1,409,000	3,207,000	239,000	33,913,000

SMIP/GARP

TABLE WW - 10

OPERATION AND MAINTENANCE EXPENSE ALLOCATED TO RETAIL SERVICE CUSTOMERS TEST YEAR 2024

Line No.		(1) Total Operation & Maintenance Expense $1,000	(2) O&M Expense Deductions: Less Interest Income $1,000	(3) O&M Expense Deductions: Less State and Federal Grants (a) $1,000	(4) Net Operation and Maintenance Expense $1,000 Somallo-39	(5) Less Operation and Maintenance Expense Allocated to Contract Service $1,000 Somallo-53 Somallo-41	(6) Operation and Maintenance Expense Allocated to Retail Service $1,000 (4)-(5)	(5) Less Retail Operation & Maintenance Expense Deductions: Other Operating Revenue $1,000 Prorate Somallo-55 on Col. (3)	(5) Net Operation and Maintenance Expense To Be Allocated To Retail Service $1,000 (6)-(7)	Breakdown of Wholesale Allocation: Total Operation & Maintenance Expense $1,000	Breakdown of Wholesale Allocation: O&M Expense Deductions: Less Interest Income $1,000	Breakdown of Wholesale Allocation: O&M Expense Deductions: Less State and Federal Grants (a) $1,000
	COLLECTION SYSTEM											
	Sewer Maintenance											
1	All Customers - Capacity	84,497	305	0	84,192	799	83,393	2,808	80,585	802	3	(0)
	Inlet Cleaning											
2	Retail - Storm Capacity	19,811	72	0	19,739		19,739	665	19,074	0	0	0
	Neill Drive Pumping Station											
	Retail and Lower Merion											
3	Total Volume	10	0	0	10	2	8	0	8	2	0	0
4	Total Capacity	189	1	0	188	58	130	4	126	58	0	(0)
	Central Schuylkill Pumping Station											
	Retail and Springfield (excl. Wyndmoor)											
5	Total Volume	49	0	0	49	2	47	2	45	2	0	(0)
6	Total Capacity	566	2	0	564	10	554	19	535	10	0	0
	All Other Pumping Stations											
	Retail											
7	Total Volume	5,006	18	0	4,988		4,988	168	4,820	0	0	0
8	Total Capacity	21,659	78	0	21,581		21,581	727	20,854	0	0	0
9	Direct to Bucks County	0	0	0	0	0	0	0	0			
	GSI Maintenance (LTCP O&M)											
10	All Customers - Capacity	45,047	163	0	44,884	196	44,688	1,505	43,183	197	1	0
11	Total Collection Systems	176,834	639	0	176,195	1,067	175,128	5,898	169,230	1,071	4	(0)
	WATER POLLUTION CONTROL PLANTS											
	Northeast Plant:											
	Retail and Cheltenham											
12	Volume	0	0	0	0	0	0	0	0			
13	Capacity	0	0	0	0	0	0	0	0			
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton											
14	Volume	747	3	17	727	166	561	19	542	171	1	4
15	Capacity	4,310	16	96	4,198	1,020	3,178	107	3,071	1,047	4	23
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton											
16	Volume	16,160	58	360	15,742	3,412	12,330	415	11,915	3,503	13	78
17	Capacity	7,934	29	177	7,728	1,766	5,962	201	5,761	1,813	7	40
18	Suspended Solids	28,694	104	639	27,951	4,865	23,086	776	22,310	4,994	18	111
19	BOD	24,347	88	542	23,717	5,474	18,243	614	17,629	5,619	20	125
	Southwest Plant:											
	Retail											
20	Volume	81	0	2	79	0	79	3	76	0	0	0
21	Capacity	663	2	15	646	0	646	22	624	0	0	0

	Retail, DELCORA, Lower Merion, Springfield											
	(Excluding Wyndmoor), and Upper Darby											
22	Volume	15,598	56	347	15,195	3,393	11,802	397	11,405	3,483	13	77
23	Capacity	6,356	23	142	6,191	2,137	4,054	137	3,917	2,194	8	49
24	Suspended Solids	20,481	74	455	19,952	5,300	14,652	493	14,159	5,441	20	121
25	BOD	14,220	51	317	13,852	4,797	9,055	305	8,750	4,924	18	110
	Southeast Plant:											
	Retail and Springfield (Wyndmoor)											
26	Volume	11,316	41	252	11,023	51	10,972	369	10,603	52	0	1
27	Capacity	7,825	28	174	7,623	49	7,574	255	7,319	50	0	1
28	Suspended Solids	14,080	51	314	13,715	88	13,627	459	13,168	90	0	2
29	BOD	5,135	19	114	5,002	32	4,970	167	4,803	33	0	1
30	Total Water Pollution Control Plants	177,947	643	3,963	173,341	32,550	140,791	4,739	136,052	33,415	121	744
	CUSTOMER COSTS											
	All Customers											
31	Equivalent Bills	33,971	123	0	33,848	228	33,620	1,132	32,488	229	1	0
	Equivalent Meters											
32	Industrial Waste Unit	4,090	15	0	4,075	68	4,007	135	3,872	68	0	0
33	Other	5,206	19	0	5,187		5,187	175	5,012	0	0	0
34	Warranty Program (Retail Customers with ≤ 2" meters)	0	0	0	0		0	0	0			
35	Excess Strength Wastewater - Direct	2,015	7	0	2,008		2,008	68	1,940	0	0	0
36	Stormwater - Direct	0	0	0	0		0	0	0	#DIV/0!	#DIV/0!	#DIV/0!
37	Total Customer Costs	45,282	164	0	45,118	296	44,822	1,510	43,312	#DIV/0!	#DIV/0!	#DIV/0!
38	Total Operation and Maintenance Expense	400,063	1,446	3,963	394,654	33,913	360,741	12,147	348,594	#DIV/0!	#DIV/0!	#DIV/0!
					394,654	33,913	360,741	12,147	348,594			
									382,507			

File: SCOS23_24_ver1.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE** **Test Year** **2024** **Budget Yr** **2023**
MISCREV - Misc Revenue Adjustments **P.N. 135647.0100** **January 27, 2023 3:18 p.m.**

	Prior to FY 2023 Not Included								Future Years Beyond Projection Period								
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$
Other Operating Revenue - Wholesale Related	0	0	3,963,496	3,963,496	3,963,496	3,963,496	3,963,496	3,963,496	3,963,496	3,963,496	3,963,496	3,963,496	3,963,496	3,963,496	3,963,496	3,963,496	3,963,496
Other Operating Revenue - Total	0	0	16,042,886	16,110,574	16,129,624	16,153,445	16,139,431	16,124,714	16,110,158	16,097,711	16,087,368	16,077,165	16,069,058	16,063,034	16,057,138	16,051,362	16,045,70
Interest on Op Funds	0	0	1,390,000	1,446,000	1,434,000	1,483,000	1,506,000	1,545,000	1,567,000	1,574,000	1,607,000	1,672,000	1,719,000	1,767,000	1,815,000	1,874,000	1,941,00

SCOS23_24.XLS

RETCOS

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
RETIndex - Index	P.N. 135647.0100	January 31, 2023 1:13 p.m.					Retcos-1

The "Retcos" worksheet develops unit costs of service and allocates the retail cost of service among retail customer types. It summarizes the allocated cost of service for contract customers, and it summarizes the cost of providing stormwater treatment.

Range	Description	Page Number	Table
RETIndex	Index	Retcos-1	
WWUnits	Units Of Wastewater Service	Retcos-2	
TOTOM	Total Contract and Retail O&M	Retcos-3	
DEPR	Test Year Depreciation	Retcos-4	
COLLSYS	Allocation Of Costs Between Sanitary and Stormwater	Retcos-5	
CONTRTPLN	Depreciable Plant Allocable To Contract Customers	Retcos-6	
RTLDPLNT	Determination Of Depreciable Plant Allocable To Retail Service	Retcos-7	
WWUCOS	Unit Costs Of Retail Wastewater Service	Retcos-8	Schedule BV-2: Table 7-16
ICROR	Inside City Rate Of Return	Retcos-9	
LUMPSUM	Annual Lump Sum Costs For Sewer Maintenance, Customer Related Costs, And Capital Costs	Retcos-10	
CTRCTCOS	Summary Of Allocated Cost Of Service for Contract Customers	Retcos-11	Schedule BV-2: Table 7-15
RTLCC	Allocation Of O&M Expense To Retail Service - Customer Costs	Retcos-12	
RTLPLNT	Allocation Of O&M Expense To Retail Service - Plant	Retcos-13	
RTLII	Allocated Infiltration/Inflow Costs for Inside City Retail Service	Retcos-14	Schedule BV-2: Table 7-18
RTLCCALLO	Allocation Of Capital Costs To Retail Service	Retcos-15	
RTLCOS	Retail Cost Of Service	Retcos-16	
RTLCOSSUM	Retail Cost Of Service Summary	Retcos-17	
XXXXX	PAGE NOT IN USE	Retcos-18	
RTLCOLL	Allocation Of O&M Expense To Retail Service - Collection System	Retcos-19	
GSCOS	Residential Excluding Senior Citizens Cost Of Service	Retcos-20	Schedule BV-2: Table 7-17 [Line 1]
XXXXX	PAGE NOT IN USE	Retcos-21	
RTLSINVEST	Retail Sewer Investment And Annual Costs Related To Sanitary Wastewater And Storm Water Functions	Retcos-22	
RTLPINVEST	Plant Investment Allocated To Retail Service Customers	Retcos-23	Schedule BV-2: Table 7-11
CONTINV	DELCORA Contributed Investment	Retcos-24	
SWCOS	Storm Water Cost Summary	Retcos-25	Schedule BV-2: Table 7-19

This table is designed to calculate Water Treatment Plant Sludge for each year of the study period
Whenever revenue requirements are changed, the "Update Table" macro button will need to be invoked several times in order for the fiscal year sludge calculations to stabilize and remain unchanged. For example, if the test year is the second year of the study period, the "Update Table" macro button will need to be invoked at least four times until the sludge value for that test year stops changing. It is suggested that the "Update Table" macro button be invoked until all years stabilize.
NOTE: For the macro to operate properly, there must be positive beginning values for Water Treatment Plant Sludge below. If ERR is in the row below, the macro will not work.
Replace ERR with a reasonable value, and the macro should work. **The linked Financial Plan & WCOS model files must be opened to run the macro**
After running the macro, copy the Water Treatment Plant Sludge values to the Previous Iteration's Values line. Do the same with O&M values.

Update Table	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	Test Year
	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$
O&M Portion of Line Below	11,214,006	12,933,521	13,910,151	15,074,774	15,824,938	17,049,272	18,266,204	18,438,716	19,580,247	20,551,929	21,422,051	22,547,059	23,580,106	24,502,706	25,368,949	12,933,521
Water Treatment Plant Sludg	14,570,012	16,592,337	18,043,183	20,080,960	21,490,504	22,989,007	25,125,836	25,693,968	27,761,152	29,496,778	30,939,410	33,088,401	35,159,797	36,812,915	38,089,332	
SW Allocation	39.5%	38.6%	38.4%	39.0%	39.2%	38.8%	39.1%	39.2%	39.4%	39.5%	39.4%	39.6%	39.7%	39.7%	38.9%	38.6%

Table last updated: Friday, January 6, 2023 - 5:36:28 PM

Previous Allocations

O&M Portion of Line Below	11,214,006	12,933,521	13,910,151	15,074,774	15,824,938	17,049,272	18,266,204	18,438,716	19,580,247	20,551,929	21,422,051	22,547,059	23,580,106	24,502,706	25,368,949
Water Treatment Plant Sludg	14,570,012	16,592,337	18,043,183	20,080,960	21,490,504	22,989,007	25,125,836	25,693,968	27,761,152	29,496,778	30,939,410	33,088,401	35,159,797	36,812,915	38,089,332
SW Allocation	39.5%	38.6%	38.4%	39.0%	39.2%	38.8%	39.1%	39.2%	39.4%	39.5%	39.4%	39.6%	39.7%	39.7%	38.9%

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
WWUnits - Units Of Wastewater Service	P.N. 135647.0100	January 27, 2023 3:34 p.m.					Retcos-2

Customer Type	Test Year Mcf	Capacity Flow Rate: Collection System Mcf/day	Capacity Flow Rate: Pumping and Treatment Mcf/day	Strength: Suspended Solids 1,000 lbs	Strength: BOD 1,000 lbs	Equivalent Bills	Customer: Equivalent Meters	Customer: Equivalent Service	Customer: Bills
	Units-6	Units-6	Units-6	Units-6	Units-6	Units-6	Units-6	Units-6	Units-6
Residential	2,919,305	31,992	11,998	54,649	53,739	5,336,266	477,314	444,398	5,306,988
Commercial	1,512,677	16,577	6,216	28,317	27,845	531,071	111,993	38,934	450,012
Industrial	53,797	590	221	1,007	990	15,100	4,114	1,090	12,084
Public Utilities	10,078	110	41	189	186	4,075	1,547	218	2,556
Senior Citizens	114,155	1,251	469	2,137	2,101	253,864	21,174	21,155	253,848
Wastewater Only	142,990	1,567	588	2,677	2,632	1,314	463	61	756
Groundwater	211,696	4,640	1,450	925	132	0	0	0	0
Surcharge	0	0	0	2,152	13,842	0	0	0	0
Housing Authority	145,224	1,591	597	2,719	2,673	70,174	9,138	5,605	66,336
Charities & Schools	118,608	1,300	487	2,220	2,183	32,863	12,706	1,423	19,224
Hospital/University	50,294	551	207	942	926	2,362	1,279	34	768
Hand Billed	406,523	4,455	1,671	7,610	7,483	8,036	4,500	90	2,388
xxxxxxxxxx	0	0	0	0	0	0	0	0	0
Water Treatment Plant Sludge	292,800	3,209	1,203	27,200	0	0	0	0	0
Fire Meters	95	1	0	2	2	0	0	0	0
Scheduled (Flat Rate)	59	1	0	1	1	120	10	10	120
xxxxxxxxxx	0	0	0	0	0	0	0	0	0
Subtotal Retail Sanitary	5,978,300	67,835	25,148	132,747	114,735	6,255,245	644,238	513,017	6,115,080
I/I	12,021,600	263,487	82,340	52,496	7,499				
Total Retail Service	17,999,900	331,322	107,488	185,243	122,234	6,255,245	644,238	513,017	6,115,080
Contract Service:	Units-13	Units-13	Units-13	Units-13	Units-13				
Sanitary	3,854,000	32,577	32,577	40,765	37,109				
I/I	105,100	420	420	459	66				
Total	3,959,100	32,997	32,997	41,224	37,175				
Total System	21,959,000	364,319	140,485	226,467	159,410				

(a) Adjusted to exclude 5% not entering sewers.

OPERATION AND MAINTENANCE EXPENSE ALLOCATED TO RETAIL SERVICE CUSTOMERS

Test Year 2024

Line No.		(1) Net Operation & Maintenance Expense $1,000 Somallo-54	(2) Operation and Maintenance Expense Allocated to Contract Service $1,000 Somallo-54	(3) Operation and Maintenance Expense Allocated to Retail Service $1,000 (1)-(2)	(4) Retail O&M Expense Deductions - Other Operating Revenue $1,000 Prorate on Col. (3) Somallo-54	(5) Net O&M Expense To Be Allocated To Retail Service $1,000 (3)-(4)
	COLLECTION SYSTEM					
	Sewer Maintenance					
1	All Customers - Capacity	84,192	799	83,393	2,808	80,585
	Inlet Cleaning					
2	Retail - Storm Capacity	19,739	0	19,739	665	19,074
	Neill Drive Pumping Station					
	Retail and Lower Merion					
3	Total Volume	10	2	8	0	8
4	Total Capacity	188	58	130	4	126
	Central Schuykill Pumping Station					
	Retail and Springfield (excl. Wyndmoor)					
5	Total Volume	49	2	47	2	45
6	Total Capacity	564	10	554	19	535
	All Other Pumping Stations					
	Retail					
7	Total Volume	4,988	0	4,988	168	4,820
8	Total Capacity	21,581	0	21,581	727	20,854
9	Direct to Bucks County	0	0	0	0	0
10	LTCP O&M	44,884	196	44,688	1,505	43,183
11	Total Collection Systems	176,195	1,067	175,128	5,898	169,230
	WATER POLLUTION CONTROL PLANTS					
	Northeast Plant:					
	Retail and Cheltenham					
12	Volume	0	0	0	0	0
13	Capacity	0	0	0	0	0
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton					
14	Volume	727	166	561	19	542
15	Capacity	4,198	1,020	3,178	107	3,071
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton					
16	Volume	15,742	3,412	12,330	415	11,915
17	Capacity	7,728	1,766	5,962	201	5,761
18	Suspended Solids	27,951	4,865	23,086	776	22,310
19	BOD	23,717	5,474	18,243	614	17,629

	Southwest Plant:							
	Retail							
20	Volume	79	0	79	3	76		
21	Capacity	646	0	646	22	624		
	Retail, DELCORA, Lower Merion, Springfield (Excluding Wyndmoor), and Upper Darby							
22	Volume	15,195	3,393	11,802	397	11,405		
23	Capacity	6,191	2,137	4,054	137	3,917		
24	Suspended Solids	19,952	5,300	14,652	493	14,159		
25	BOD	13,852	4,797	9,055	305	8,750		
	Southeast Plant:							
	Retail and Springfield (Wyndmoor)							
26	Volume	11,023	51	10,972	369	10,603		
27	Capacity	7,623	49	7,574	255	7,319		
28	Suspended Solids	13,715	88	13,627	459	13,168		
29	BOD	5,002	32	4,970	167	4,803		
30	Total Water Pollution Control Plants	173,341	32,550	140,791	4,739	136,052		
	CUSTOMER COSTS							
	All Customers							
31	Equivalent Bills	33,848	228	33,620	1,132	32,488		
	Equivalent Meters							
32	Industrial Waste Unit	4,075	68	4,007	135	3,872		
33	Other	5,187	0	5,187	175	5,012		
34	Warranty Program (Retail Customers with ≤ 2" meters)	0	0	0	0	0		
35	Excess Strength Wastewater - Direct	2,008	0	2,008	68	1,940		
36	Stormwater - Direct	0	0	0	0	0		
37	Total Customer Costs	45,118	296	44,822	1,510	43,312		
					Somallo-54			
38	Total Operation and Maintenance Expense	394,654	33,913	360,741	12,147	348,594		
		394,654	33,913	360,741	12,147	348,594	348,594	0 CHECK

TEST YEAR DEPRECIATION

Line No.	Cost Component	(1) Total Investment	(2) Less Contrib. Plant	(3) Less Land	(4) Depreciable Plant	(5) Annual Depreciation Rate	(6) Annual Depreciation	(7) Contrib. Plant	(8) Land
		$	$	$	$	$	$	$1,000	$1,000
		Spltallo-24	(7) * 1,000	(8) * 1,000	(1) - (2) - (3)		(4) * (5)	Spltallo-44	Spltallo-44
	Collection System								
1	Sewers-Capacity	1,823,982,000	4,018,000	1,816,000	1,818,148,000	2.0%	36,363,000	4,018	1,816
2	Pumping Stations Capacity	23,225,000	190,000		23,035,000	2.5%	576,000	190	0
3	LTCP Investment	291,589,000	0		291,589,000	2.0%	5,832,000	0	0
4	Total Collection System	2,138,796,000	4,208,000	1,816,000	2,132,772,000		42,771,000	4,208	1,816
	Water Pollution Control Plants								
	Northeast Plant								
	Retail, Abington, Bensalem, Bucks Cty. W&SA, Cheltenham, Lower Moreland, & Lower Southampton								
5	Volume	60,597,000	7,800,000	178,000	52,619,000			7,800	178
6	Capacity	29,663,000	3,055,000	87,000	26,521,000			3,055	87
7	Suspended Solids	124,572,000	8,029,000	366,000	116,177,000			8,029	366
8	BOD	106,410,000	12,157,000	314,000	93,939,000			12,157	314
9	Total Northeast Plant	321,242,000	31,041,000	945,000	289,256,000	2.5%	7,231,000	31,041	945
	Southwest Plant								
	Retail, DELCORA, Lower Merion, Springfield (excl. Wyndmoor), & Upper Darby								
10	Volume	75,019,000	27,869,000	220,000	46,930,000			27,869	220
11	Capacity	41,969,000	6,371,000	123,000	35,475,000			6,371	123
12	Suspended Solids	64,118,000	14,258,000	188,000	49,672,000			14,258	188
13	BOD	53,154,000	21,521,000	156,000	31,477,000			21,521	156
14	Total Southwest Plant	234,260,000	70,019,000	687,000	163,554,000	2.5%	4,089,000	70,019	687
	Southeast Plant								
	Retail & Springfield (Wyndmoor)								
15	Volume	33,139,000		39,000	33,100,000			0	39
16	Capacity	42,518,000		50,000	42,468,000			0	50
17	Suspended Solids	31,254,000		37,000	31,217,000			0	37
18	BOD	25,735,000		30,000	25,705,000			0	30
19	Total Southeast Plant	132,646,000		156,000	132,490,000	2.5%	3,312,000	0	156
20	Total Allocated Treatment Plants	688,148,000	101,060,000	1,788,000	585,300,000	2.5%	14,633,000	101,060	1,788
21	Total Allocated System Investment	2,826,944,000	105,268,000	3,604,000	2,718,072,000		57,404,000	105,268	3,604

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
COLLSYS - Allocation Of Costs Between Sanitary and Stormwater	P.N. 135647.0100	January 27, 2023 3:34 p.m.					Retcos-5

Allocation of Collection System Investment in Mains to Sanitary and Stormwater

The estimated split of Retail Sewer Investment to Sanitary and Stormwater is based on the estimated unit costs associated with Sanitary and Stormwater Sewer Construction Costs.

	Total	Sanitary	Stormwater
Retail Sewer Investment	100%	36%	64%
(including LTCP Investment)	Retcos-6		
	$2,091,981,000	$753,113,200	$1,338,867,800
	Retcos-4		
Less Land	$1,816,000		
Retail Depreciable Sewer Investment	$2,090,165,000	$752,459,400	$1,337,705,600

Allocation of O&M Expense to Sanitary and Stormwater

Retail Sewer Maintenance allocated to Sanitary and Stormwater based on ratio of dry weather and wet weather volume (40% to Sanitary and 60% to Stormwater).
Assign Inlet Cleaning O&M 100% to Stormwater.

	Total	Sanitary	Stormwater
Collection System	100%	40%	60%
	Retcos-3		
Retail Sewer Maintenance O&M - Capacity	$80,585,000	$32,234,000	48,351,000
	Retcos-3		
Inlet Cleaning O&M - Capacity	$19,074,000		19,074,000
	Retcos-3		
LTCP O&M	$43,183,000	17,273,200	25,909,800
Total Collection System	$142,842,000	$49,507,200	$93,334,800
Equivalent Bills - All Customers			
	This page	This page	This page
Customer O&M - Equivalent Bills	$32,487,531	$19,951,000	$12,536,531

Summary of Customer O&M Allocated Between Sanitary and Stormwater Utilities

Equivalent Bills - All Customers	Total $	Sanitary Equiv. Bills $ Somallo-38	Stormwater Equiv. Bills $ Somallo-38	
Water Revenue Bureau	15,024,000	9,225,000	5,799,000	
Joint Direct Expense				
CBIS	6,814,000	4,184,000	2,630,000	
Other Joint Direct Expense				Assigned to A&G (Not a direct customer cost)
Payment to Public Properties	0	0		
Meter Shop Class 200 - AMR	6,663	6,663		
Finance & Admin - Customer	1,080,101	663,182	416,919	
Customer Affairs - Customer	1,566,767	961,995	604,772	
Subtotal	24,491,531	15,040,840	9,450,691	
Total Including Allocated A&G and Deduction of Other Operating Revenue	Retcos-3			
Prorated on Subtotal Above	32,487,531	19,951,000	12,536,531	

File: SCOS23_24_ver1.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2024 | Budget Yr 2023 | Ver. 1a
CONTRTPLNT - Depreciable Plant Allocable To Contract Customers | P.N. 135647.0100 | January 27, 2023 3:34 p.m. | Retcos-6

AVERAGE TEST YEAR DEPRECIABLE PLANT ALLOCABLE TO CONTRACT CUSTOMERS

Line No.	Cost Component	(1) Total Investment $ (8) * 1,000	(2) Investment Allocated to Contract Service $ (9) * 1,000	(3) Investment to Be Allocated To Retail Service $ (1) - (2)	(4) Contract Customer Land excl. Contributed Plant $ (10) * 1,000	(5) Contract Cust. Depreciable Plant incl. Contributed Plant $ (2) - (4)	(6) Contributed Plant (incl. land) $ (11) * 1,000	(7) Contract Customer Depreciable Plant $ (5) - (6)	(8) Total Investment $1,000 Spltallo-45	(9) Investment Allocated to Contract Service $1,000 Spltallo-45	(10) Contract Customer Land excl. Contributed Plant $1,000 Spltallo-45	(11) Contributed Plant (incl. land) $1,000 Spltallo-45	(12) Investment Allocated to Contract Service $1,000 Spltallo-45
	Collection System												
1	Sewers-Capacity	1,823,982,000	17,991,000	1,805,991,000		17,991,000	4,018,000	13,973,000	1,823,982	17,991		4,018	13,973
2	Pumping Stations Capacity	23,225,000	252,000	22,973,000		252,000	190,000	62,000	23,225	252		190	62
3	LTCP Investment	291,589,000	5,599,000	285,990,000		5,599,000	0	5,599,000	291,589	5,599		0	5,599
4	Total Collection System	2,138,796,000	23,842,000	2,114,954,000		23,842,000	4,208,000	19,634,000	2,138,796	23,842	0	4,208	19,634
	Water Pollution Control Plants												
	Northeast Plant												1,062
	Retail, Abington, Bensalem, Bucks Cty. W&SA, Cheltenham, Lower Moreland, & Lower Southampton												
5	Volume	60,597,000	16,876,000	43,721,000	10,600	16,865,400	7,831,000	9,034,400	60,597	16,876		7,831	16,876
6	Capacity	29,663,000	6,819,000	22,844,000	5,500	6,813,500	3,068,000	3,745,500	29,663	6,819		3,068	5,757
7	Suspended Solids	124,572,000	23,386,000	101,186,000	24,500	23,361,500	8,060,000	15,301,500	124,572	23,386		8,060	23,386
8	BOD	106,410,000	26,512,000	79,898,000	19,400	26,492,600	12,203,000	14,289,600	106,410	26,512		12,203	26,512
9	Total Northeast Plant	321,242,000	73,593,000	247,649,000	60,000	73,533,000	31,162,000	42,371,000	321,242	73,593	60	31,162	72,531
	Southwest Plant												
	Retail, DELCORA, Lower Merion, Springfield (excl. Wyndmoor), & Upper Darby												
10	Volume	75,019,000	32,031,000	42,988,000	4,000	32,027,000	27,961,000	4,066,000	75,019	32,031		27,961	32,031
11	Capacity	41,969,000	7,334,000	34,635,000	3,200	7,330,800	6,392,000	938,800	41,969	7,334		6,392	7,334
12	Suspended Solids	64,118,000	18,436,000	45,682,000	4,300	18,431,700	14,305,000	4,126,700	64,118	18,436		14,305	18,436
13	BOD	53,154,000	26,243,000	26,911,000	2,500	26,240,500	21,593,000	4,647,500	53,154	26,243		21,593	26,243
14	Total Southwest Plant	234,260,000	84,044,000	150,216,000	14,000	84,030,000	70,251,000	13,779,000	234,260	84,044	14	70,251	84,044
	Southeast Plant												
	Retail & Springfield (Wyndmoor)												
15	Volume	33,139,000	301,000	32,838,000	1,000	300,000		300,000	33,139	301	1		301
16	Capacity	42,518,000	237,000	42,281,000	0	237,000		237,000	42,518	237			237
17	Suspended Solids	31,254,000	97,000	31,157,000	0	97,000		97,000	31,254	97			97
18	BOD	25,735,000	71,000	25,664,000	0	71,000		71,000	25,735	71			71
19	Total Southeast Plant	132,646,000	706,000	131,940,000	1,000	705,000		705,000	132,646	706	1	0	706
20	Total Allocated Treatment Plants	688,148,000	158,343,000	529,805,000	75,000	158,268,000	101,413,000	56,855,000	688,148	158,343	75	101,413	157,281
21	Total Allocated System Investment	2,826,944,000	182,185,000	2,644,759,000	75,000	182,110,000	105,621,000	76,489,000	2,826,944	182,185	75	105,621	176,915

Determination of Depreciable Plant Allocable to Retail Service

Line No.	Cost Component	(1) Total Depreciable Plant $ Retcos-4	(2) Depreciable Plant Allocable to Contract Cust. $ Spltallo-46	(3) Net Depreciable Plant Allocable to Retail $ (1) - (2)
	Collection System			
1	Sewers-Capacity	1,818,148,000	13,973,000	1,804,175,000
2	Pumping Stations Capacity	23,035,000	62,000	22,973,000
3	LTCP Investment	291,589,000	5,599,000	285,990,000
4	Total Collection System	2,132,772,000	19,634,000	2,113,138,000
	Water Pollution Control Plants			
	Northeast Plant			
	Retail, Abington, Bensalem, Bucks Cty. W&SA, Cheltenham, Lower Moreland, & Lower Southampton			
5	Volume	52,619,000	9,034,000	43,585,000
6	Capacity	26,521,000	3,745,000	22,776,000
7	Suspended Solids	116,177,000	15,301,000	100,876,000
8	BOD	93,939,000	14,291,000	79,648,000
9	Total Northeast Plant	289,256,000	42,371,000	246,885,000
	Southwest Plant			
	Retail, DELCORA, Lower Merion, Springfield (excluding Wyndmoor), & Upper Darby			
10	Volume	46,930,000	4,066,000	42,864,000
11	Capacity	35,475,000	939,000	34,536,000
12	Suspended Solids	49,672,000	4,127,000	45,545,000
13	BOD	31,477,000	4,647,000	26,830,000
14	Total Southwest Plant	163,554,000	13,779,000	149,775,000
	Southeast Plant			
	Retail & Springfield (Wyndmoor)			
15	Volume	33,100,000	300,000	32,800,000
16	Capacity	42,468,000	237,000	42,231,000
17	Suspended Solids	31,217,000	97,000	31,120,000
18	BOD	25,705,000	71,000	25,634,000
19	Total Southeast Plant	132,490,000	705,000	131,785,000
20	Total Allocated Treatment Plants	585,300,000	56,855,000	528,445,000
21	Total Allocated System Investment	2,718,072,000	76,489,000	2,641,583,000

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
WWUCOS - Unit Costs Of Retail Wastewater Service	P.N. 135647.0100	January 27, 2023 3:34 p.m.					Retcos-8

Inside City Rate of Return:	3.24%
Sewer Depr. Rate:	2.0%
Trtmt Plant Depr. Rate:	2.5%
Outside City Rate of Return	7.5%

TABLE WW - 11 AND TABLE WW - 12

UNIT COSTS OF RETAIL WASTEWATER SERVICE
Test Year 2024

Line No.		(1) Total	(2) Collection System: Pumping Station Volume	(3) Collection System: Pumping Station Capacity	(4) Collection System: Sanitary Sewers - Capacity	(5) Collection System: Storm Costs	(6) Water Pollution Control Plants: Volume	(7) Water Pollution Control Plants: Capacity	(8) Water Pollution Control Plants: Suspended Solids	(9) Water Pollution Control Plants: BOD	(10) Customer Costs: Meter Costs	(11) Customer Costs: Billing: Sanitary	(12) Customer Costs: Billing: Stormwater	(13) Customer Costs: Industrial Waste Unit: Retail Customers	(14) Customer Costs: Industrial Waste Unit: Direct Excess Strength Wastewater	(15) Customer Costs: Stormwater
	Total Units of Service															
1	Units		Mcf	Mcf/day	Mcf/day		Mcf	Mcf/day	1,000 lbs.	1,000 lbs.	Equivalent Meters	Equivalent Bills		Equivalent Meters	$	
2	Quantity Retcos-2		17,999,900	107,488	331,322		17,999,900	107,488	185,243	122,234	644,238	6,255,245		644,238		
	Operation and Maintenance Expense		Retcos-3	Retcos-3	Retcos-5	Retcos-5	Retcos-3	Retcos-3	Retcos-3	Retcos-3	Retcos-3	Retcos-5	Retcos-5	Retcos-3	Retcos-3	
3	Total Expense - $	348,593,563	4,873,000	21,514,900	49,507,200	93,334,800	34,541,000	20,692,000	49,637,132	31,182,000	5,012,000	19,951,000	12,536,531	3,872,000	1,940,000	0
4	Unit Expense - $/unit		0.2707	200.1609	149.4232		1.9190	192.5052	267.9568	255.1001	7.7797	3.1895		6.0102		
		169,229,900														
	Capital Costs			Retcos-6	Retcos-5	Retcos-5 (b)	Retcos-6	Retcos-6	Retcos-6	Retcos-6						
5	Total Plant Investment - $	2,644,759,000		22,973,000	753,113,200	1,338,867,800	119,547,000	99,760,000	178,025,000	132,473,000						
6	Unit Plant Investment - $/unit			213.7262	2273.0552		6.6415	928.1036	961.0349	1083.7625						
				Retcos-7	Retcos-5	Retcos-5	Retcos-5	Retcos-5	Retcos-5	Retcos-5						
7	Depreciable Plant Investment - $	2,641,583,000		22,973,000	752,459,400	1,337,705,600	119,249,000	99,543,000	177,541,000	132,112,000						
8	Unit Depreciable Plant Investment - $/unit			213.7262	2271.0819		6.6250	926.0848	958.4221	1080.8091						
							0.0250	0.0250	0.0250	0.0250						
9	Depreciation Expense - $	55,588,800		574,400	15,049,200	26,754,100	2,981,200	2,488,600	4,438,500	3,302,800						
10	Unit Depreciation Expense - $/unit			5.3432	45.4216		0.1656	23.1521	23.9606	27.0202						
	Return on Investment															
11	Total Cost - $	85,647,900		744,000	24,388,800	43,357,900	3,871,400	3,230,600	5,765,200	4,290,000						
12	Unit Cost (a) - $/unit			6.9213	73.6106		0.2151	30.0557	31.1221	35.0965						
	Total Unit Capital Costs															
13	(Line 10 + Line 12) - $/unit			12.2645	119.0322		0.3807	53.2078	55.0827	62.1167						
	Total Unit Costs															
14	(Line 4 + Line 13) - $/unit		0.2707	212.4254	268.4554		2.2997	245.7130	323.0395	317.2168	7.7797	3.1895		6.0102		
	Total Retail Cost of Service	489,830,263	4,873,000	22,833,300	88,945,200	163,446,800	41,393,600	26,411,200	59,840,832	38,774,800	5,012,000	19,951,000	12,536,531	3,872,000	1,940,000	0

Check on Retail Return: (100)
(a) Retail rate of return = 3.2384 %.

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
ICROR - Inside City Rate Of Return	P.N. 135647.0100	January 27, 2023 3:34 p.m.					Retcos-9

INSIDE CITY RATE OF RETURN

Line No.		(1) Contract Customer Investment $	(2) Total System Investment $	(3) Percent Return %	(4) Return $	
	Total System Net of Federal Grants and Collection System Assessments	Retcos-6	Retcos-6			
1	Collection System		2,138,796,000			
2	WPC Plants		688,148,000			
3	Total System		2,826,944,000	3.391774%	95,883,550 (a)	
	Less Contract Customers					
4	Total Allocated Investment	182,185,000	182,185,000			0
5	Less Contributed Plant	105,621,000		Retcos-8	Retcos-11	
6	Net Investment for Return	76,564,000		7.50%	5,624,700	5,742,300
	Contract Customers Management Fee				Below 4,611,039	
7	Net to Retail Rate Base		2,644,759,000	3.238398%	85,647,811	

(a) Calculation of total return:

COS = O&M + Annual Depreciation + Return

COS =	519,198,794	LINKS
O&M =	369,570,061	LINKS
WTP Sludge O&M =	12,933,521	
WTP Sludge Capital =	3,658,816	
	Retcos-4	
Annual Depr =	$57,404,000	
Return = COS-	$522,857,610	149,628,734
O&M Net Revenue Req-	($369,570,061)	3,658,816
Ann Depr	($57,404,000)	(57,404,000)
Return =	$95,883,550	95,883,550
	153,287,550	
	153,287,550	
	95,883,550	

	Retail $	Contract $	Total $	Totals from This Page $	Difference in Totals $
	Retcos-12, Retcos-13				
	Retcos-19	Retcos-11			
O&M	348,593,563	33,913,000	382,506,563	382,503,582	2,981
	Retcos-8	Retcos-11			
Depreciation	55,588,800	1,779,370	57,368,170	57,404,000	(35,830)
	Retcos-8	Retcos-11			
Return	85,647,900	5,624,700	91,272,600	95,883,550	89
		Rates-6 & Rates-7		‖	‖
Mgmt Fee		4,611,039	4,611,039	‖	‖
		Rates-7		‖	‖
		‖	‖	‖	‖
		‖	‖	‖	‖
	489,830,263	45,928,109	535,758,372	535,791,131	(32,759)

File: SCOS23_24_ver1.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2024 | Budget Yr 2023 | Ver. 1a
LUMPSUM - Annual Lump Sum Costs For Sewer Maintenance, Customer Related Costs, And Capital Cos P.N. 135647.0100 | January 27, 2023 3:34 p.m. | Retcos-10

ANNUAL LUMP SUM COSTS FOR SEWER MAINTENANCE, CUSTOMER RELATED COSTS, AND CAPITAL COSTS FOR FACILITIES USED BY WHOLESALE CONTRACT CUSTOMERS

		(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)	(9)	(10)	(11)		(12)
		Allocated Investment		Depreciable Plant				Annual Lump Sum							
					Treatment				Depreciation Expense		Return on Investment				
Line		Collection	Treatment	Collection	and Pumping	Sewer	Customer	SMIP/GARP	Collection	Treatment	Collection	Treatment	Total Annual		
No.	Contract Customers	System	and Pumping	System	Investment Less Land	Maintenance Expense (c)	Related Costs		System	and Pumping	System	and Pumping	Lump Sum Cost		Land
		$	$	$	$	$	$		$	$	$	$	$		$1,000
		Spltallo-40	Spltallo-40	(1)	(2)-(12)	Somallo-53	Somallo-53		(b)	(b)	(b)	(b)	(5)+...+(10) Rounded		Spltallo-42
1	Abington	782,000	5,310,000	782,000	5,295,000	36,000	14,000		15,640	132,375	58,650	398,250	655,000		15
2	Bensalem	1,110,000	9,489,000	1,110,000	9,461,000	39,000	49,000		(a)	(a)	(a)	(a)	88,000		28
3	Bucks County (d)	1,566,000	31,537,000	1,566,000	31,444,000	55,000	16,000		0	232,450	0	697,275	1,001,000	L. Merion	93
4	Cheltenham	3,788,000	13,349,000	3,788,000	13,310,000	227,000	34,000		75,760	332,750	284,100	1,001,175	1,955,000	Pumping	39
5	DELCORA (e)	612,000	48,122,000	612,000	47,981,000	39,000	43,000		12,200	217,275	45,750	651,675	1,009,000	Spltallo-40	141
6	Lower Merion	1,618,000	15,054,000	1,618,000	15,010,000	64,000	54,000		(a)	(a)	(a)	(a)	118,000	190,000	44
7	Lower Moreland	880,000	2,153,000	880,000	2,147,000	36,000	21,000		17,600	53,675	66,000	161,475	356,000	15,054,000	6
8	Lower Southampton (f)	10,687,000	11,755,000	10,687,000	11,720,000	387,000	16,000		213,740	293,000	801,525	881,625	2,593,000		35
9	Springfield (less Wyndmoor)	1,493,000	5,166,000	1,493,000	5,152,000	77,000	27,000		29,860	128,800	111,975	387,450	762,000	Springfield(less Wyndmoor) 62,000	14
10	Springfield (Wyndmoor)	331,000	706,000	331,000	705,000	12,000	8,000		6,620	17,625	24,825	52,950	122,000	Springfield(less Wyndmoor) 5,166,000	1
11	Upper Darby	723,000	15,954,000	723,000	15,907,000	25,000	14,000		(a)	(a)	(a)	(a)	39,000		47
12	Total	23,590,000	158,595,000	23,590,000	158,132,000	997,000	296,000	0	371,420	1,407,950	1,392,825	4,231,875	8,698,000		463

(a) It is assumed that Bensalem, Lower Merion, Lower Southampton and Upper Darby contributes their entire allocated plant investment, and therefore, are not allocated any depreciation expense or return on investment.
(b) Collection System Annual Depreciation Rate: 2.0%
Trtmt & Pumping Plant Annual Depreciation Rate: 2.5%
Township Customers Rate of Return: 7.50%
(c) Excludes $0.0 Pumping Stations-Direct to Bucks County, $60,000.0 Pumping Stations-Lower Merion volume and capacity costs recovered through volume and capacity rates, and $12,000.0 Pumping Stations-Springfield (excl Wyndmoor) volume and capacity costs recovered through volume and capacity rates.

(d) Bucks County allocated rate base and depreciation based on assets in service after 6/30/2007.
(e) DELCORA allocated rate base and depreciation based on assets in service after 12/31/2010.
(f) Lower Southampton phased into Return and Depr over 18 years staring in FY 2007

SUMMARY OF ALLOCATED COST OF SERVICE FOR CONTRACT CUSTOMERS

Test Year 2024

Customer	(1) Allocated Investment $ Retcos-10	(2) Allocated Depreciable Investment $ Retcos-10	(3) O&M Expense $ Somallo-53	(4) SMIP/GARP Expense $	(5) Depreciation Expense $ Retcos-10	(6) Return on Investment $ Retcos-10	(7) Allocated Cost of Service $	(8) O&M Expense $ (3)	(9) Lump Sum Costs $ Retcos-10
Abington	6,092,000	6,077,000	1,091,000		148,015	456,900	1,695,915	1,091,000	655,000
Bensalem	10,599,000	10,571,000	1,514,000		(a)	(a)	1,514,000	1,514,000	88,000
Bucks County	33,103,000	33,010,000	9,184,000		232,450	697,275	10,113,725	9,184,000	1,001,000
Cheltenham	17,137,000	17,098,000	2,993,000		408,510	1,285,275	4,686,785	2,993,000	1,955,000
DELCORA	48,734,000	48,593,000	8,890,000		229,475	697,425	9,816,900	8,890,000	1,009,000
Lower Merion	16,672,000	16,628,000	2,536,000		(a)	(a)	2,536,000	2,536,000	118,000
Lower Moreland	3,033,000	3,027,000	603,000		71,275	227,475	901,750	603,000	356,000
Lower Southampton	22,442,000	22,407,000	2,247,000		506,740	1,683,150	4,436,890	2,247,000	2,593,000
Springfield (less Wyndmoor)	6,659,000	6,645,000	1,409,000		158,660	499,425	2,067,085	1,409,000	762,000
Springfield (Wyndmoor)	1,037,000	1,036,000	239,000		24,245	77,775	341,020	239,000	122,000
Upper Darby	16,677,000	16,630,000	3,207,000		(a)	(a)	3,207,000	3,207,000	39,000
Total	182,185,000	181,722,000	33,913,000	0	1,779,370	5,624,700	41,317,070	33,913,000	8,698,000

(a) It is assumed that Bensalem, Lower Merion, and Upper Darby contribute their entire allocated plant investment, and therefore, are not allocated any depreciation expense or return on investment.

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
RTLCC - Allocation Of O&M Expense To Retail Service - Customer Costs	P.N. 135647.0100	January 27, 2023 3:34 p.m.					Retcos-12

ALLOCATION OF O&M EXPENSE TO RETAIL SERVICE - CUSTOMER COSTS

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
		Customer Costs											
		Meter Costs		Sanitary Billing Costs		Stormwater Billing Costs		Industrial Waste Unit			Stormwater Direct		Warranty Program		Total Retail
Line No.	Customer Type	Equivalent Meters	Cost $	Equivalent Bills	Cost $	Equivalent Bills	Cost $	Equivalent Meters	Retail Customers $	Direct $	Equivalent Meters	Cost $	Equivalent Service	Cost $	Customer Cost O&M $
		Retcos-2	Retcos-8 x Col.(1)	Retcos-2	Retcos-8 x Col.(3)	Retcos-2	Retcos-8 x Col.(5)	Retcos-2	Retcos-8 x Col.(7)	Retcos-8	Retcos-2		Retcos-2	Retcos-8 x Col.(9)	
	Retail Service														
1	Residential	477,314	3,713,381	5,336,266	17,019,916			477,314	2,868,753				444,398	0	23,602,050
2	Commercial	111,993	871,272	531,071	1,693,851			111,993	673,100				38,934	0	3,238,223
3	Industrial	4,114	32,006	15,100	48,161			4,114	24,726				1,090	0	104,893
4	Public Utilities	1,547	12,035	4,075	12,997			1,547	9,298				218	0	34,330
5	Senior Citizens	21,174	164,727	253,864	809,699			21,174	127,260				21,155	0	1,101,686
6	Sewer Only	463	3,602	1,314	4,191			463	2,783				61	0	10,576
7	Groundwater	0	0	0	0			0	0				0	0	0
8	Surcharge	0	0	0	0			0	0	1,940,000			0	0	1,940,000
9	Housing Authority	9,138	71,091	70,174	223,820			9,138	54,921				5,605	0	349,832
10	Charities & Schools	12,706	98,849	32,863	104,817			12,706	76,366				1,423	0	280,032
11	Hospital/University	1,279	9,950	2,362	7,534			1,279	7,687				34	0	25,171
12	Hand Billed	4,500	35,009	8,036	25,631			4,500	27,046				90	0	87,686
13	xxxxxxxxxx		0	0	0			0	0				0	0	0
14	Water Treatment Plant Sludge	0	0	0	0			0	0				0	0	0
15	Private Fire Connections	0	0	0	0			0	0				0	0	0
16	Scheduled (Flat Rate)	10	78	120	383			10	60				10	0	521
17	xxxxxxxxxx	0	0	0	0			0	0				0	0	0
18	Subtotal	644,238	5,012,000	6,255,245	19,951,000	0	0	644,238	3,872,000	1,940,000	0	0	513,017	0	30,775,000
19	Infiltration and Inflow		0		0		0		0						0
20	Stormwater						12,536,531					0			12,536,531
21	Total Retail Service	644,238	5,012,000	6,255,245	19,951,000	0	12,536,531	644,238	3,872,000	1,940,000	0	0	513,017	0	43,311,531
22	Units Costs Retcos-8		$7.7797		$3.1895				$6.0102					$0.0000	
	Residential - Based on Unit Cost		3,713,360		17,020,020				2,868,753					0	
	Difference		21		(104)				0					0	
	Difference as a Percentage of Actual Allocation		0.00%		0.00%				0.00%						
	CHECK Units of Service	0		0				0					0		

ALLOCATION OF O & M EXPENSE TO RETAIL SERVICE

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		WPC Treatment Plant Allocation of O&M								
Line No.	Customer Type	Annual Volume Mcf Retcos-2	Volume Cost $ Line 21 * Col.(1)	Capacity Units Mcf/day Retcos-2	Capacity Cost $ Line 21 * Col.(3)	SS Units 1,000 lbs Retcos-2	SS Cost $ Line 21 * Col.(5)	BOD Units 1,000 lbs Retcos-2	BOD Cost $ Line 21 * Col.(7)	Total Retail WPC Plant O & M $
	Retail Service									
1	Residential	2,919,305	5,602,147	11,998	2,309,677	54,649	14,643,571	53,739	13,708,824	36,264,219
2	Commercial	1,512,677	2,902,828	6,216	1,196,612	28,317	7,587,733	27,845	7,103,262	18,790,435
3	Industrial	53,797	103,236	221	42,544	1,007	269,832	990	252,549	668,161
4	Public Utilities	10,078	19,339	41	7,893	189	50,644	186	47,449	125,325
5	Senior Citizens	114,155	219,063	469	90,285	2,137	572,624	2,101	535,965	1,417,937
6	Sewer Only	142,990	274,398	588	113,193	2,677	717,320	2,632	671,423	1,776,334
7	Groundwater	211,696	406,245	1,450	279,133	925	247,860	132	33,673	966,911
8	Surcharge	0	0	0	0	2,152	576,648	13,842	3,531,184	4,107,832
9	Housing Authority	145,224	278,684	597	114,926	2,719	728,575	2,673	681,883	1,804,068
10	Charities & Schools	118,608	227,608	487	93,750	2,220	594,864	2,183	556,884	1,473,106
11	Hospital/University	50,294	96,514	207	39,849	942	252,415	926	236,223	625,001
12	Hand Billed	406,523	780,118	1,671	321,676	7,610	2,039,151	7,483	1,908,914	5,049,859
13	xxxxxxxxxx	0	0	0	0	0	0	0	0	0
14	Water Treatment Plant Sludge	292,800	561,883	1,203	231,584	27,200	7,288,425	0	0	8,081,892
15	Private Fire Connections	95	182	0	0	2	536	2	510	1,228
16	Scheduled (Flat Rate)	59	113	0	0	1	268	1	255	636
17	xxxxxxxxxx	0	0	0	0	0	0	0	0	0
18	Subtotal	5,978,300	11,472,358	25,148	4,841,122	132,747	35,570,466	114,735	29,268,998	81,152,944
19	Infiltration and Inflow	12,021,600	23,068,642	82,340	15,850,878	52,496	14,066,666	7,499	1,913,002	54,899,188
20	Total Retail Service	17,999,900	34,541,000	107,488	20,692,000	185,243	49,637,132	122,234	31,182,000	136,052,132
21	Units Costs Retcos-8		$1.9190		$192.5052		$267.9568		$255.1001	
	Infiltration and Inflow Allocation based on Unit Cost		23,069,450		15,850,878		14,066,660		1,912,996	
	Difference due to rounding		(808)		(0)		6		6	
	Difference as a Percentage of Actual Allocation		0.00%		0.00%		0.00%		0.00%	
	Units of Service Check	0		0		0		0		

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
RTLII - Allocated Infiltration/Inflow Costs for Inside City Retail Service	P.N. 135647.0100	January 27, 2023 3:34 p.m.					Retcos-14

(a) In the Water Commissioner's rate decision in the 1990 rate proceeding, it was directed that 20 percent of the total infiltration/inflow costs should be recovered through the service charge on an equivalent meter basis and 80 percent of the cost of infiltration/inflow was to be recovered from the volume charge. In accordance with the most recent rate proceeding decision issued in 1993, the rate design for the current study reflects a 30 percent recovery of infiltration/inflow costs through the service charge and 70 percent through the volume charge as a gradualistic move towards what is perceived to be more cost causative based charges. (Direct Testimony of J. Rowe McKinley and Exhibits JRM-1 and JRM-2, February 2001, pg 65.)

(b) Groundwater is wet weather related and should not receive an allocation of i/i

		(1)	(2)	(3)	(4)	(5)									
				Allocated Infiltration/Inflow COS			O&M Allocation Detail			Capital Cost Allocation Detail			Total Cost Allocation Detail		
Line No.	Customer Type			Operation & Maintenance	Capital Cost	Total	Sanitary Sewer	Stormwater	Total	Sanitary Sewer	Stormwater	Total	Sanitary Sewer	Stormwater	Total
				$	$	$	$	$	$	$	$	$	$	$	
	Allocation Basis														
	I/I - Sewer Capacity						100.0%	0.0%	100.0%	100.0%	0.0%	100.0%	100.0%	0.0%	
	I/I - Pumping & Treatment						70.0%	30.0%	100.0%	70.0%	30.0%	100.0%	70.0%	30.0%	
	Total I/I Costs														
	I/I - Sewer Capacity			39,371,079	31,363,452	70,734,531	39,371,079	0	39,371,079	31,363,452	0	31,363,452	70,734,531	0	70,734,531
	I/I - Pumping & Treatment			74,635,115	13,325,520	87,960,635	52,244,581	22,390,534	74,635,115	9,327,864	3,997,656	13,325,520	61,572,445	26,388,190	87,960,635
	Total I/I Costs			114,006,194	44,688,972	158,695,166	91,615,660	22,390,534	114,006,194	40,691,316	3,997,656	44,688,972	132,306,976	26,388,190	158,695,166

		Allocated Sanitary Sewer Related Infiltration/Inflow COS					O&M Allocation Detail			Capital Cost Allocation Detail			Total Cost Allocation Detail		
Line No.	Customer Type	Volume	Equivalent Meters	Operation & Maintenance	Capital Cost	Total	Equivalent Meters	Volume	Total	Equivalent Meters	Volume	Total	Equivalent Meters	Volume	Total
		Mcf		$	$	$	$	$	$	$	$	$	$	$	$
	Sanitary Sewer I/I - Retail Service	(a)	(a)												
	I/I - Sewer Capacity	70.0%	30.0%				11,811,324	27,559,755	39,371,079	9,409,036	21,954,416	31,363,452	21,220,360	49,514,171	70,734,531
	I/I - Pumping & Treatment	100.0%	0.0%				0	52,244,581	52,244,581	0	9,327,864	9,327,864	0	61,572,445	61,572,445
	Total	84.0%	16.0%				11,811,324	79,804,336	91,615,660	9,409,036	31,282,280	40,691,316	21,220,360	111,086,616	132,306,976
		Retcos-2	Retcos-2				13%	87%		23%	77%		16%	84%	
1	Residential	2,919,305	477,314	49,151,394	22,807,576	71,958,970	8,750,975	40,400,419	49,151,394	6,971,126	15,836,450	22,807,576	15,722,101	56,236,869	71,958,970
2	Commercial	1,512,677	111,993	22,987,278	9,841,516	32,828,794	2,053,256	20,934,022	22,987,278	1,635,647	8,205,869	9,841,516	3,688,903	29,139,891	32,828,794
3	Industrial	53,797	4,114	819,919	351,917	1,171,836	75,425	744,494	819,919	60,085	291,832	351,917	135,510	1,036,326	1,171,836
4	Public Utilities	10,078	1,547	167,826	77,262	245,088	28,362	139,464	167,826	22,594	54,668	77,262	50,956	194,132	245,088
5	Senior Citizens	114,155	21,174	1,967,995	928,503	2,896,498	388,200	1,579,795	1,967,995	309,244	619,259	928,503	697,444	2,199,054	2,896,498
6	Sewer Only	142,990	463	1,987,338	782,445	2,769,783	8,489	1,978,849	1,987,338	6,762	775,683	782,445	15,251	2,754,532	2,769,783
7	Groundwater (b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Surcharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Housing Authority	145,224	9,138	2,177,292	921,259	3,098,551	167,534	2,009,758	2,177,292	133,460	787,799	921,259	300,994	2,797,557	3,098,551
10	Charities & Schools	118,608	12,706	1,874,364	828,984	2,703,348	232,949	1,641,415	1,874,364	185,570	643,414	828,984	418,519	2,284,829	2,703,348
11	Hospital/University	50,294	1,279	719,470	291,511	1,010,981	23,449	696,021	719,470	18,680	272,831	291,511	42,129	968,852	1,010,981
12	Hand Billed	406,523	4,500	5,708,396	2,271,001	7,979,397	82,502	5,625,894	5,708,396	65,722	2,205,279	2,271,001	148,224	7,831,173	7,979,397
13	xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	Water Treatment Plant Sludge	292,800	0	4,052,075	1,588,361	5,640,436	0	4,052,075	4,052,075	0	1,588,361	1,588,361	0	5,640,436	5,640,436
15	Private Fire Connections	95	0	1,315	515	1,830	0	1,315	1,315	0	515	515	0	1,830	1,830
16	Scheduled (Flat Rate)	59	10	998	466	1,464	183	815	998	146	320	466	329	1,135	1,464
17	xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Total Retail	5,766,604	644,238	91,615,660	40,691,316	132,306,976	11,811,324	79,804,336	91,615,660	9,409,036	31,282,280	40,691,316	21,220,360	111,086,616	132,306,976
				Retcos-12	Retcos-15		0	0		0	0				
				Retcos-13											
				Retcos-19											

File: SCOS23_24_ver1.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2024 | Budget Yr 2023 | Ver. 1a
RTLCCALLO - Allocation Of Capital Costs To Retail Service | P.N. 135647.0100 | January 27, 2023 3:34 p.m. | Retcos-15

ALLOCATION OF CAPITAL COSTS TO RETAIL SERVICE

Line No.	Customer Type	(1) Pumping Stations Capacity Units Mcf/day Retcos-2	(2) Pumping Stations Capital Costs $ Line 22 * x Col.(1)	(3) Sewers Sanitary Capacity Units Mcf/day Retcos-2	(4) Sewers Sanitary Capital Costs $ Line 22 * x Col.(3)	(5) Sewers Storm	(6) Sewers Storm Capital Costs $ Retcos-8	(7) Water Pollution Control Plants Volume Volume Units Mcf Retcos-2	(8) Volume Capital Costs $ Line 22 * x col.(7)	(9) Capacity Capacity Units Mcf/day Retcos-2	(10) Capacity Capital Costs $ Line 22 * x col.(9)	(11) Suspended Solids SS Units 1,000 lbs. Retcos-2	(12) Suspended Solids Capital Costs $ Line 22 * x col.(11)	(13) BOD BOD Units 1,000 lbs. Retcos-2	(14) BOD Capital Costs $ Line 22 * x col.(13)	(15) Total Retail Capital Costs $
	Retail Service															
1	Residential	11,998	147,149	31,992	3,808,078			2,919,305	1,111,380	11,998	638,387	54,649	3,010,214	53,739	3,338,089	12,053,297
2	Commercial	6,216	76,236	16,577	1,973,197			1,512,677	575,876	6,216	330,740	28,317	1,559,777	27,845	1,729,640	6,245,466
3	Industrial	221	2,710	590	70,229			53,797	20,480	221	11,759	1,007	55,468	990	61,496	222,142
4	Public Utilities	41	503	110	13,094			10,078	3,837	41	2,182	189	10,411	186	11,554	41,581
5	Senior Citizens	469	5,752	1,251	148,909			114,155	43,459	469	24,954	2,137	117,712	2,101	130,507	471,293
6	Sewer Only	588	7,212	1,567	186,523			142,990	54,436	588	31,286	2,677	147,456	2,632	163,491	590,404
7	Groundwater	1,450	17,784	4,640	552,309			211,696	80,593	1,450	77,151	925	50,951	132	8,199	786,987
8	Surcharge	0	0	0	0			0	0	0	0	2,152	118,539	13,842	859,841	978,380
9	Housing Authority	597	7,322	1,591	189,380			145,224	55,287	597	31,765	2,719	149,770	2,673	166,038	599,562
10	Charities & Schools	487	5,973	1,300	154,742			118,608	45,154	487	25,912	2,220	122,284	2,183	135,601	489,666
11	Hospital/University	207	2,539	551	65,587			50,294	19,147	207	11,014	942	51,888	926	57,520	207,695
12	Hand Billed	1,671	20,494	4,455	530,288			406,523	154,763	1,671	88,910	7,610	419,179	7,483	464,819	1,678,453
13	xxxxxxxxxx	0	0	0	0			0	0	0	0	0	0	0	0	0
14	Water Treatment Plant Sludge	1,203	14,754	3,209	381,974			292,800	111,469	1,203	64,009	27,200	1,498,249	0	0	2,070,455
15	Private Fire Connections	0	0	1	119			95	36	0	0	2	110	2	124	389
16	Scheduled (Flat Rate)	0	0	1	119			59	22	0	0	1	55	1	62	258
17	xxxxxxxxxx	0	0	0	0			0	0	0	0	0	0	0	0	0
18	Subtotal	25,148	308,428	67,835	8,074,548	0	0	5,978,300	2,275,939	25,148	1,338,069	132,747	7,312,063	114,735	7,126,981	26,436,028
19	Infiltration and Inflow	82,340	1,009,572	263,487	31,363,452			12,021,600	4,577,061	82,340	4,380,931	52,496	2,891,937	7,499	466,019	44,688,972
20	Stormwater						70,112,000									70,112,000
21	Total Retail Service	107,488	1,318,000	331,322	39,438,000	0	70,112,000	17,999,900	6,853,000	107,488	5,719,000	185,243	10,204,000	122,234	7,593,000	141,237,000
22	Unit Costs Retcos-8		$12.2645		$119.0322				$0.3807		$53.2078		$55.0827		$62.1167	

(a) Capital Cost Control Figures:

	Infiltration and Inflow Allocation based on Unit Cost		1,009,859		31,363,437				4,576,623		4,381,130		2,891,621		465,813	
	Difference due to rounding		(287)		15				438		(199)		316		206	
	Difference as a Percentage of Actual Allocation		-0.03%		0.00%				0.01%		0.00%		0.01%		0.04%	
	CHECK Units of Service	0		0				0		0		0		0		
	Total based on Unit Cost (Rounded to 100s)		1,318,300		39,438,000		427,736,600		6,852,600		5,719,200		10,203,700		7,592,800	498,861,200
	Calculated Unit Cost		12.2646		119.0322				0.3807		53.2078		55.0828		62.1167	
	Calculated I/I Unit Cost		12.2610		119.0323				0.3807		53.2054		55.0887		62.1442	

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
RTLCOS - Retail Cost Of Service	P.N. 135647.0100	January 27, 2023 3:34 p.m.					Retcos-16

RETAIL TEST YEAR COST OF SERVICE

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
		O&M						CAPITAL COSTS							
Line No.	Customer Type	Collection System $ Retcos-19	Treatment Plants $ Retcos-13	Customer Costs $ Retcos-12	Volume Allocated I/I O&M $ Retcos-14	Meter Allocated I/I O&M $ Retcos-14	O&M Total $	Capital Costs $ Retcos-15	Volume Allocated I/I Capital Cost $ Retcos-14	Meter Allocated I/I Capital Cost $ Retcos-14	Capital Cost Total $	Total Cost of Service $ (6) + (10)	Cost of Service Excluding I/I (1)+(2)+(3)+(7)	Allocated I/I (4)+(5)+(8)+(9)	
	Retail Service														
1	Residential	7,972,133	36,264,219	23,602,050	8,750,975	40,400,419	116,989,796	12,053,297	6,971,126	15,836,450	34,860,873	151,850,669	79,891,699	71,958,970	Retcos-20
2	Commercial	4,130,670	18,790,435	3,238,223	2,053,256	20,934,022	49,146,606	6,245,466	1,635,647	8,205,869	16,086,982	65,233,588	32,404,794	32,828,794	
3	Industrial	146,959	668,161	104,893	75,425	744,494	1,739,932	222,142	60,085	291,832	574,059	2,313,991	1,142,155	1,171,836	
4	Public Utilities	27,372	125,325	34,330	28,362	139,464	354,853	41,581	22,594	54,668	118,843	473,696	228,608	245,088	
5	Senior Citizens	311,705	1,417,937	1,101,686	388,200	1,579,795	4,799,323	471,293	309,244	619,259	1,399,796	6,199,119	3,302,621	2,896,498	
6	Sewer Only	390,548	1,776,334	10,576	8,489	1,978,849	4,164,796	590,404	6,762	775,683	1,372,849	5,537,645	2,767,862	2,769,783	
7	Groundwater	1,040,863	966,911	0	0	0	2,007,774	786,987	0	0	786,987	2,794,761	2,794,761	0	
8	Surcharge	0	4,107,832	1,940,000	0	0	6,047,832	978,380	0	0	978,380	7,026,212	7,026,212	0	
9	Housing Authority	396,540	1,804,068	349,832	167,534	2,009,758	4,727,732	599,562	133,460	787,799	1,520,821	6,248,553	3,150,002	3,098,551	
10	Charities & Schools	323,835	1,473,106	280,032	232,949	1,641,415	3,951,337	489,666	185,570	643,414	1,318,650	5,269,987	2,566,639	2,703,348	
11	Hospital/University	137,380	625,001	25,171	23,449	696,021	1,507,022	207,695	18,680	272,831	499,206	2,006,228	995,247	1,010,981	
12	Hand Billed	1,110,195	5,049,859	87,686	82,502	5,625,894	11,956,136	1,678,453	65,722	2,205,279	3,949,454	15,905,590	7,926,193	7,979,397	
12	xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	Water Treatment Plant Sludge	799,554	8,081,892	0	0	4,052,075	12,933,521	2,070,455	0	1,588,361	3,658,816	16,592,337	10,951,901	5,640,436	
14	Private Fire Connections	175	1,228	0	0	1,315	2,718	389	0	515	904	3,622	1,792	1,830	
15	Scheduled (Flat Rate)	165	636	521	183	815	2,320	258	146	320	724	3,044	1,580	1,464	
16	xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	Total Retail	16,788,094	81,152,944	30,775,000	11,811,324	79,804,336	220,331,698	26,436,028	9,409,036	31,282,280	67,127,344	287,459,042	155,152,066	132,306,976	
18	Less Water Treatment Plant Sludge											Test Cell			
19	Allocated to the Water System	(799,554)	(8,081,892)	0	0	(4,052,075)	(12,933,521)	(2,070,455)	0	(1,588,361)	(3,658,816)	(16,592,337)			
20	Net Retail Cost of Service	15,988,540	73,071,052	30,775,000	11,811,324	75,752,261	207,398,177	24,365,573	9,409,036	29,693,919	63,468,528	270,866,705			
											SUM CHECK (Line 17)	287,459,042			

WASTEWATER RETAIL COST OF SERVICE

Test Year 2024

Line No.	Customer Type	(1) Operation and Maintenance Expense $	(2) Capital Costs $	(3) Total Cost of Service $	
	Retail Service	Retcos-16	Retcos-16		
1	Residential	116,989,796	34,860,873	151,850,669	Retcos-20
2	Commercial	49,146,606	16,086,982	65,233,588	
3	Industrial	1,739,932	574,059	2,313,991	
4	Public Utilities	354,853	118,843	473,696	
5	Senior Citizens	4,799,323	1,399,796	6,199,119	
6	Sewer Only	4,164,796	1,372,849	5,537,645	
7	Groundwater	2,007,774	786,987	2,794,761	
8	Surcharge	6,047,832	978,380	7,026,212	
9	Housing Authority	4,727,732	1,520,821	6,248,553	
10	Charities & Schools	3,951,337	1,318,650	5,269,987	
11	Hospital/University	1,507,022	499,206	2,006,228	
12	Hand Billed	11,956,136	3,949,454	15,905,590	
13	xxxxxxxxxx	0	0	0	
14	Water Treatment Plant Sludge	12,933,521	3,658,816	16,592,337	
15	Private Fire Connections	2,718	904	3,622	
16	Scheduled (Flat Rate)	2,320	724	3,044	
17	xxxxxxxxxx	0	0	0	
18	Total Retail	220,331,698	67,127,344	287,459,042	

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
XXXXX - PAGE NOT IN USE	P.N. 135647.0100	January 27, 2023 3:34 p.m.					Retcos-18

ALLOCATION OF O & M EXPENSE TO RETAIL SERVICE - COLLECTION SYSTEM

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		Collection System								
		Pumping Stations				Sanitary Sewers		Storm Sewers		Total Retail
Line No.	Customer Type	Annual Volume Mcf Retcos-13	Volume Cost $ Line 21 * Col.(1)	Capacity Units Mcf/day Retcos-2	Capacity Cost $ Line 21 * Col.(3)	Capacity Units Mcf/day Retcos-2	Cost $ Line 21 * Col.(5)	Equivalent Meters	Cost $	Collection System O & M $
	Retail Service									
1	Residential	2,919,305	790,256	11,998	2,401,530	31,992	4,780,347			7,972,133
2	Commercial	1,512,677	409,482	6,216	1,244,200	16,577	2,476,988			4,130,670
3	Industrial	53,797	14,563	221	44,236	590	88,160			146,959
4	Public Utilities	10,078	2,728	41	8,207	110	16,437			27,372
5	Senior Citizens	114,155	30,902	469	93,875	1,251	186,928			311,705
6	Sewer Only	142,990	38,707	588	117,695	1,567	234,146			390,548
7	Groundwater	211,696	57,306	1,450	290,233	4,640	693,324			1,040,863
8	Surcharge	0	0	0	0	0	0			0
9	Housing Authority	145,224	39,312	597	119,496	1,591	237,732			396,540
10	Charities & Schools	118,608	32,107	487	97,478	1,300	194,250			323,835
11	Hospital/University	50,294	13,615	207	41,433	551	82,332			137,380
12	Hand Billed	406,523	110,046	1,671	334,469	4,455	665,680			1,110,195
12	xxxxxxxxxx	0	0	0	0	0	0			0
13	Water Treatment Plant Sludge	292,800	79,261	1,203	240,794	3,209	479,499			799,554
14	Private Fire Connections	95	26	0	0	1	149			175
15	Scheduled (Flat Rate)	59	16	0	0	1	149			165
16	xxxxxxxxxx	0	0	0	0	0	0			0
17	Subtotal	5,978,300	1,618,327	25,148	5,033,646	67,835	10,136,121	0	0	16,788,094
18	Infiltration and Inflow	12,021,600	3,254,673	82,340	16,481,254	263,487	39,371,079			59,107,006
19	Allocated to Stormwater								93,334,800	93,334,800
20	Total Retail	17,999,900	4,873,000	107,488	21,514,900	331,322	49,507,200	0	93,334,800	169,229,900
21	Units Costs Retcos-8		$0.2707		$200.1609		$149.4232			
			1,539,066		4,792,852		9,656,622			
	Infiltration and Inflow Allocation based on Unit Cost		3,254,247		16,481,249		39,371,071			59,106,566
	Difference due to rounding		(426)		(5)		(8)			(440)
	CHECK - Units of Service	0		0		0				

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
GSCOS - Residential Excluding Senior Citizens Cost Of Service	P.N. 135647.0100	January 27, 2023 3:34 p.m.					Retcos-20

Lines 1 to 12 provide the development of Residential Cost of Service as presented on Line 1 of TABLE WW - 13

RESIDENTIAL EXCLUDING SENIOR CITIZENS COST OF SERVICE

Test Year 2024

Line No.		(1) Units of Service		(2) Unit Cost of Service $	(3) Total Cost of Service $	Column (3) Reference	
	Collection System	Retcos-2		Retcos-8			
	Pumping System						
1	Volume	2,919,305	Mcf	0.2707	790,256	Retcos-15	Retcos-19
2	Capacity	11,998	Mcf/day	212.4254	2,548,679	Retcos-15	Retcos-19
3	Sanitary Sewers - Capacity	31,992	Mcf/day	268.4554	8,588,425	Retcos-15	Retcos-19
	Water Pollution Control Plants						
4	Volume	2,919,305	Mcf	2.2997	6,713,527	Retcos-13	Retcos-15
5	Capacity	11,998	Mcf/day	245.7130	2,948,064	Retcos-13	Retcos-15
6	Suspended Solids	54,649	1,000 lbs	323.0395	17,653,785	Retcos-13	Retcos-15
7	BOD	53,739	1,000 lbs	317.2168	17,046,913	Retcos-13	Retcos-15
	Customer Costs						
8	Meter	477,314	Equiv. Meters	7.7797	3,713,381	Retcos-12	
9	Billing - Sanitary	5,336,266	Equiv. Bills	3.1895	17,019,916	Retcos-12	
10	Warranty Program	444,398	Equiv. Service	0.0000	0	Retcos-12	
11	Industrial Waste Unit	477,314	Equiv. Meters	6.0102	2,868,753	Retcos-12	
12	Subtotal				79,891,699		
	Infiltration Costs						
13	Equivalent Meters - Sanitary Sewer	477,314	Equiv. Meters	32.9387	15,722,101	Retcos-14	* 30%
14	Volume	2,919,305	Mcf	19.2638	56,236,869	Retcos-14	* 70%
15	Total Cost of Service				151,850,669		

Mcf - Thousand cubic feet
Mcf/day - Thousand cubic feet per day
lbs - pounds

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RETAIL SEWER INVESTMENT AND ANNUAL COSTS
RELATED TO SANITARY WASTEWATER AND STORM WATER FUNCTIONS
Test Year 2024

Line No.		(1) Total $	(2) Sanitary Wastewater $	(3) Storm Water $	
		Retcos-5 & Retcos-6	Retcos-5	Retcos-5	
	Average Test Year Plant Investment:				
1	Sewers	2,091,981,000	753,113,200	1,338,867,800	Retcos-5
2	All Other	552,778,000	552,778,000		
3	Total	2,644,759,000	1,305,891,200	1,338,867,800	Retcos-6
	Average Test Year Operating Expense:	Retcos-5 & Retcos-16	Retcos-5	Retcos-5	
4	Sewer Maintenance	80,585,000	32,234,000	48,351,000	Retcos-5
5	Inlet Cleaning	19,074,000		19,074,000	Retcos-5
6	LTCP O&M	43,183,000	17,273,200	25,909,800	Retcos-5
7	Billing	32,487,531	19,951,000	12,536,531	Retcos-5
8	Stormwater Direct	0		0	Retcos-3
9	All Other	32,068,646	32,068,646		
10	Total	207,398,177	101,526,846	105,871,331	

TABLE WW - 9

TEST YEAR INVESTMENT IN THE WASTEWATER SYSTEM
SUMMARY OF ALLOCATIONS TO FUNCTIONAL COST COMPONENTS

Test Year 2024

Line No.	Cost Component	(1) Total Direct Investment Incl. A&G $ Retcos-6	(2) Investment Allocated to Contract Service $ Retcos-6	(3) Investment Allocated To Retail Service $ (1)-(2)
	Collection System			
1	Sewers-Capacity	1,823,982,000	17,991,000	1,805,991,000
2	Pumping Stations Capacity	23,225,000	252,000	22,973,000
3	LTCP Investment	291,589,000	5,599,000	285,990,000
4	Total Collection System	2,138,796,000	23,842,000	2,114,954,000
	Water Pollution Control Plants			
	Northeast Plant			
	Retail, Abington, Bensalem, Bucks Cty. W&SA, Cheltenham, Lower Moreland, & Lower Southampton			
5	Volume	60,597,000	16,876,000	43,721,000
6	Capacity	29,663,000	6,819,000	22,844,000
7	Suspended Solids	124,572,000	23,386,000	101,186,000
8	BOD	106,410,000	26,512,000	79,898,000
9	Total Northeast Plant	321,242,000	73,593,000	247,649,000
	Southwest Plant			
	Retail, DELCORA, Lower Merion, Springfield (excluding Wyndmoor), & Upper Darby			
10	Volume	75,019,000	32,031,000	42,988,000
11	Capacity	41,969,000	7,334,000	34,635,000
12	Suspended Solids	64,118,000	18,436,000	45,682,000
13	BOD	53,154,000	26,243,000	26,911,000
14	Total Southwest Plant	234,260,000	84,044,000	150,216,000
	Southeast Plant			
	Retail & Springfield (Wyndmoor)			
15	Volume	33,139,000	301,000	32,838,000
16	Capacity	42,518,000	237,000	42,281,000
17	Suspended Solids	31,254,000	97,000	31,157,000
18	BOD	25,735,000	71,000	25,664,000
19	Total Southeast Plant	132,646,000	706,000	131,940,000
20	Total Allocated Treatment Plants	688,148,000	158,343,000	529,805,000
21	Total Allocated System Investment	2,826,944,000	182,185,000	2,644,759,000

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
CONTINV - DELCORA Contributed Investment	P.N. 135647.0100	January 27, 2023 3:34 p.m.					Retcos-24

	(1)	(2)	(3)	(4)	(5)
	Total Investment (4) * 1,000	Allocated Land (5) * 1,000	Depreciable Investment (1) - (2)	Total Investment Spltallo-43	Allocated Land Spltallo-43
Volume	15,903,000	57,000	15,846,000	15,903	57
Capacity	4,200,000	15,000	4,185,000	4,200	15
Suspended Solids	7,067,000	25,000	7,042,000	7,067	25
BOD	12,263,000	44,000	12,219,000	12,263	44
Total	39,433,000	141,000	39,292,000		

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
SWCOS - Storm Water Cost Summary	P.N. 135647.0100	January 27, 2023 3:34 p.m.					Retcos-25

Storm Water Cost Summary
Test Year 2024

	(1) Storm Costs $		(2) Infiltration/ Inflow $		(3) Total $
Capital Costs					
Collection System					
Sewers	70,112,000	Retcos-15	(a)		70,112,000
Pumping Stations			302,900	0.30*Retcos-15	302,900
Treatment			3,694,800	0.30*Retcos-15	3,694,800
Total Capital Costs	70,112,000		3,997,700		74,109,700
Operation & Maintenance Expense					
Collection System					
Sewers	48,351,000	Retcos-5	(a)		48,351,000
Pumping Stations			5,920,800	0.30*(Retcos-19)	5,920,800
Treatment			16,469,800	0.30*(Retcos-13)	16,469,800
Inlet Cleaning (Collection System)	19,074,000	Retcos-5			19,074,000
LTCP O&M	25,909,800	Retcos-5			25,909,800
Customer Costs	12,536,531	Retcos-12			12,536,531
Stormwater Direct	0				0
Total Operation & Maintenance Expense	105,871,331		22,390,600		128,261,931
Subtotal Excluding Customer Costs	163,446,800		26,388,300		189,835,100
Total Costs Including Customer Costs	175,983,331		26,388,300		202,371,631

Storm water costs include storm water billing costs, the storm water share of collection system costs, and the storm water share of treatment costs. The storm water share of collection system costs are assumed to be 64% (Retcos-5) of Collection System - Sewers O&M and depreciation and return related to 64% of the collection system investment. These amounts are shown in Column 1 along with storm water billing costs.

Storm water treatment costs are costs associated with treating infiltration/inflow that are to be recovered from customers on an equivalent meter basis. In this study 30% (Retcos-14) of the treatment costs for I/I are to be recovered from customers on this basis. Also in this study 30% of Collection System - Pumping Stations costs related to pumping I/I are recovered from customers on this same basis. These costs are shown in Column 2.

CROSS CHECK:

Collection System Stormwater COS		I/I Recovered in Service Charge (a)			Billing/Customer Costs Recovered in Service Charge			Total Stormwater COS
		Trtmt Plant Capital Costs - $	12,315,948	Retcos-15				
		Trtmt Plant O&M - $	54,899,188	Retcos-13	Customer Billing Costs	12,536,531		
		Pump. Sta. Capital Costs - $	1,009,572	Retcos-15	Stormwater Direct	0		
		Pump. Sta. O&M - $	19,735,927	Retcos-19				
		Total - $	87,960,635					
COS	$163,446,800	Total Allocated to Stormwater	$26,388,300	Retcos-14	Total	$12,536,531	Retcos-12	$202,371,631

(a) Only Treatment Plant and Pumping Stations related costs are considered here since sewer related collection system costs are directly allocated to Stormwater as reflected in the Collection System Stormwater COS of $163,446,800.

SCOS23_24.XLS

RATEDSN

The "Ratedsn" worksheet develops retail cost of service wastewater rates for treating a Mcf of wastewater.

Range	Description	Page Number	Table
RDSNIndex	Index	Ratedsn-1	
ICRTLCOS	Inside City Retail Service Unit Costs Of Service For Rate Design	Ratedsn-2	
CSTSERV	Total Retail Cost of Service	Ratedsn-3	
RTLUCOS	Retail Unit Costs of Service	Ratedsn-4	
RTLADJCOS	Adjusted Retail Unit Costs	Ratedsn-5	Schedule BV-2: Table 8-1
DSCUSTCOS	Discount Customer COS Recovered by Other Retail Customers	Ratedsn-6	
ADJSUR	Adjusted COS Rates for Surcharge Customers	Ratedsn-7	
AVGCOST	Average Cost for Each Mcf of Water Billed - Adjusted COS Basis	Ratedsn-8	Schedule BV-2: Table 8-3
TYCOS	Test Year COS Adjusted to Recover Discounted COS from All Classes	Ratedsn-9	

Allocated Infiltration/Inflow COS	$132,306,976	Retcos-14	
Retail Equivalent Meters	644,238	Retcos-14	
Sewer Return factor	0.95		
Sen. Cit., 6 cent, N charities discount	25.00%	File: WCOS23_24_ver1.xls - Retcos-4	
Housing Authority discount	5.00%	File: WCOS23_24_ver1.xls - Retcos-4	
Total Test Year COS	519,198,794		
Water Treatment Plant Sludge	16,592,337	Retcos-16	
Contract Customers COS	$41,317,070	Retcos-11	
Cont Cust TY Receipts Under Exist. Rates	35,924,394		Financial Plan
Domestic SS strength (ppm)	300	Units-9	
Domestic BOD strength (ppm)	295	Units-9	
TY Surcharge SS units - 1,000 lbs	2,152	Units-9	
TY Surcharge BOD units - 1,000 lbs	13,842	Units-9	

Sewer Return factor for Wholesale and Groundwater	1.00
Groundwater SS strength (ppm)	70
Groundwater BOD strength (ppm)	10

Line No.	Customer Type	Total Cost of Service $ Retcos-16
	Retail Service	
1	Residential	151,850,669
2	Commercial	65,233,588
3	Industrial	2,313,991
4	Public Utilities	473,696
5	Senior Citizens	6,199,119
6	Sewer Only	5,537,645
7	Groundwater	2,794,761
8	Surcharge	7,026,212
9	Housing Authority	6,248,553
10	Charities & Schools	5,269,987
11	Hospital/University	2,006,228
12	Hand Billed	15,905,590
13	xxxxxxxxxx	0
14	Water Treatment Plant Sludge	16,592,337
15	Private Fire Connections	3,622
16	Scheduled (Flat Rate)	3,044
17	xxxxxxxxxx	0
18	Total Retail	287,459,042

File: SCOS23_24_ver1.xls Philadelphia Water Department (PWD) P.N. 135647.0100 CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE Test Year 2024 Budget Yr 2023 Ver. 1a
RTLUCOS - Retail Unit Costs of Service January 27, 2023 3:37 p.m. Ratedsn-4

Line No.		(1) Collection System: Pumping Station Volume Retcos-8	(2) Pumping Station Capacity Retcos-8	(3) Sanitary Sewers - Capacity Retcos-8	(4) Storm Costs Retcos-8	(5) Water Pollution Control Plants: Volume Retcos-8	(6) Capacity Retcos-8	(7) Suspended Solids Retcos-8	(8) BOD Retcos-8	(9) Customer Costs: Meter Costs Retcos-8	(10) Billing: Sanitary Retcos-8	(11) Billing: Stormwater Retcos-8	(12) Industrial Waste Unit: Retail Customers Retcos-8	(13) Industrial Waste Unit: Direct Excess Strength Wastewater Retcos-8	(14) Stormwater Incentive Retcos-8	Warranty Program Retcos-8	
	O&M Expense																
1	Total Expense - $	4,873,000	21,514,900	49,507,200	93,334,800	34,541,000	20,692,000	49,637,132	31,182,000	5,012,000	19,951,000	12,536,531	3,872,000	1,940,000	0	0	
2	Unit Expense - $/unit	0.2707	200.1609	149.4232		1.9190	192.5052	267.9568	255.1001	7.7797	3.1895		6.0102	#N/A		0.0000	
	Capital Expense																
	Total Expense - $	0	1,318,400	39,438,000	70,112,000	6,852,600	5,719,200	10,203,700	7,592,800	0	0	0	0	0	0	0	
3	Total Unit Capital Costs		12.2645	119.0322		0.3807	53.2078	55.0827	62.1167	0.0000	0.0000		0.0000	#N/A		0.0000	
4	Total Unit Costs	0.2707	212.4254	268.4554		2.2997	245.7130	323.0395	317.2168	7.7797	3.1895		6.0102	#N/A		0.0000	
	Total Expense	4,873,000	22,833,300	88,945,200	163,446,800	41,393,600	26,411,200	59,840,832	38,774,800	5,012,000	19,951,000	12,536,531	3,872,000	1,940,000	0	0	489,830,263

Rate Design - Retail COS Unit Costs Adjusted to Subsidize Discount Customers and to Reflect Conversion to Billing Units from Wastewater Units

TABLE WW - 15

INSIDE CITY RETAIL SERVICE UNIT COSTS OF SERVICE FOR RATE DESIGN

Test Year 2024

Line No.	Cost Component	Units	(1) Annual Unadjusted Unit Cost $/unit Ratedsn-4	(2) COS Deficit Recovery Factor Ratedsn-6	(3) Billing Units Conversion Factor Ratedsn-2	(4) Total Adjustment Factor (3)*(4)	(5) Annual Adjusted Unit Cost $/unit (2)*(5)	(6) Monthly Adjusted Unit Cost $/unit (6) / 12
	Collection System							
	Pumping Station							
1	Volume	Mcf	0.2707	1.0138	0.95	0.9631	0.2607 /Mcf	
2	Capacity	Mcf/day	212.4254	1.0138	0.95	0.9631	204.5869 Mcf/day	$17.0489
3	Sanitary Sewers - Capacity	Mcf/day	268.4554	1.0138	0.95	0.9631	258.5494 Mcf/day	$21.5458
	WPC Plants							
4	Volume	Mcf	2.2997	1.0138	0.95	0.9631	2.2148 /Mcf	
5	Capacity	Mcf/day	245.7130	1.0138	0.95	0.9631	236.6462 Mcf/day	$19.7205
6	Suspended Solids	1,000 lbs	323.0395	1.0138	1.00	1.0138	327.4974 /1,000 lbs	
7	BOD	1,000 lbs	317.2168	1.0138	1.00	1.0138	321.5944 /1,000 lbs	
	Customer Costs							
8	Meter Costs	Eq. Meters	7.7797	1.0138	1.00	1.0138	7.8871 /year	$0.6573
	Billing Costs							
9	Sanitary	Eq. Bills	3.1895	1.0138	1.00	1.0138	3.2335 /monthly bill	
10	Industrial Waste Unit - Retail	Eq. Meters	6.0102	1.0138	1.00	1.0138	6.0931 /year	$0.5078
11	Warranty Program	Eq. Service	0.0000	1.0138	1.00	1.0138	0.0000 /year	$0.0000
12	I/I - Customer Related - Sanitary (a)	Eq. Meters	32.9387	1.0138	1.00	1.0138	33.3933 /year	$2.7828
13	Infiltration/Inflow - Volume Related (a)	Volume	19.2638	1.0138	0.95	0.9631	18.5530 /Mcf	

(a)	Allocated Infiltration/Inflow COS	$132,306,976	Ratedsn-2
	% Allocated I/I to Retail Equiv. Mtrs.	16.0%	Retcos-14
	Allocated I/I to Retail Equiv. Mtrs.	$21,220,360	
	Retail Equivalent Meters	644,238	Ratedsn-2
	$/Eq Meter/year	$32.9387	$/Mcf
	Total Retail I/I COS	$132,306,976	Retcos-14
	% Alloc. I/I to Retail Vol.	84.0%	Retcos-14
	Alloc. I/I to Retail Vol.	$111,086,616	
	Retail Sanitary TY Volume - Mcf	5,766,604	Units-13
	I/I Cost	$19.2638	$/Mcf

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DSCUSTCOS - Discount Customer COS Recovered by Other Retail Customers January 27, 2023 3:37 p.m. Ratedsn-6

Test Year COS for Senior Citizens, "6 Cent" and "N" Charities to be Recovered from All Other Retail and Development of COS Deficit Recovery Factor
Universities, Colleges, Hospitals, Charities, Board of Education and Senior Citizens are billed at 75% of regular rates.

	(1)	(2)	(3)
	Allocated COS Ratedsn-3	Discount (a) (1) * Ratedsn-2	Adjusted COS (1)-(2)
Test Year Allocated COS			
Housing Authority	$6,248,553	$312,428	$5,936,125
Senior Citizens	6,199,119	1,549,780	4,649,339
Charities & Schools	5,269,987	1,317,497	3,952,490
Hospital/University	2,006,228	501,557	1,504,671
Total Discount Customers	$19,723,887	$3,681,262	$16,042,625

Approx COS to be recovered from these classes = $16,042,625

Approximate portion of Discount Customers COS to be recovered by other retail:

$19,723,887 - $16,042,625 = $3,681,262

Percent increase in Allocated COS of all retail:

$$\frac{\text{Above } \$3{,}681{,}262}{[\ \text{Ratedsn-2 } \$287{,}459{,}042 - \$16{,}592{,}337 - \text{Above } \$3{,}681{,}262\ ]} * 100 = 1.3779\%$$

Total System COS; WTP Sludge; Discount Customers amount of COS not recovered from them (approx.)

(a) Senior Citizens, "6 Cent" and "N" charities receive a 25 percent discount and the Housing Authority receives a 5 percent discount.

Adjusted COS Rates for Surcharge Customers

		Suspended Solids		BOD	
Excess Strength Wastewater					
Unadjusted Unit Cost	Ratedsn-4	$323.0395	/1,000 lbs	$317.2168	/1,000 lbs
Times adder for COS deficit recovery (a)		0.9631		0.9631	
Times adder for Excess Strength Direct (b)		1.3814		1.3814	
Adjusted Unit Charge - Excess Strength		$429.7847	/1,000 lbs	$422.0380	/1,000 lbs
USE		$0.430	/lb SS	$0.422	/lb BOD
Units of Service		2,152	1,000 lbs	13,842	1,000 lbs

(a) Ratedsn-5, Line 6 times Sewer Return factor from Ratedsn-2.

(b) Industrial Waste Unit - Direct Ratedsn-4
Excess Strength Wastewater $1,940,000
---------- ---------- ---------- = ---------- ---------- ---------- = 38.1423%
Total Surcharge Class COS $7,026,212 - $1,940,000
Ratedsn-9

TABLE WW - 17

DEVELOPMENT OF COST OF SERVICE VOLUME CHARGE PER MCF OF NORMAL STRENGTH SANITARY WASTEWATER

Line No.	Cost Component	(1) Units	(2) Adjusted Unit Cost $/unit Ratedsn-5	(3) Number of Units	(4) Total Cost $ (2)*(3)
	Collection System				
	Pumping Stations				
1	Volume	Mcf	0.2607	1.0000	0.2607
2	Capacity	Mcf/day/mo.	17.0489	0.0493 (a)	0.8405
3	Sanitary Sewers: Capacity	Mcf/day/mo.	21.5458	0.1316 (b)	2.8354
	Water Pollution Control Plants				
4	Volume	Mcf	2.2148	1.0000	2.2148
5	Capacity	Mcf/day/mo.	19.7205	0.0493 (a)	0.9722
6	Suspended Solids	1,000 lbs	327.4974	0.0187 (c)	6.1242
7	BOD	1,000 lbs	321.5944	0.0184 (d)	5.9173
8	Total Cost per Mcf				19.1651
					Ratedsn-5
9	Infiltration/Inflow Cost	Mcf	18.5530	1.0000	18.5530
10	Total Cost + Infiltration/Inflow per Mcf				37.7181
11	Total Cost per Mcf - Rounded				37.72

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

(a) (1.0 Mcf * 1 month/30.4 days) * 1.5 = 0.0493 Mcf/day/mo
(b) (1.0 Mcf * 1 month/30.4 days) * 4.0 = 0.1316 Mcf/day/mo
Units-9
(c) (1.0 Mcf * 300 ppm * 0.00748 million gals / Mcf * 8.34 lbs/gal / 1,000 = 0.0187 1,000 lbs
Units-9
(d) (1.0 Mcf * 295 ppm * 0.00748 million gals / Mcf * 8.34 lbs/gal / 1,000 = 0.0184 1,000 lbs

TABLE XXXX

DEVELOPMENT OF COST OF SERVICE VOLUME CHARGE PER MCF OF GROUNDWATER STRENGTH SANITARY WASTEWATER

Line No.	Cost Component	(1) Units	(2) Adjusted Unit Cost $/unit Ratedsn-5	(3) Number of Units	(4) Total Cost $ (2)*(3)
	Collection System				
	Pumping Stations				
1	Volume	Mcf	0.2707	1.0000	0.2707
2	Capacity	Mcf/day/mo.	17.7021	0.0822 (a)	1.4551
3	Sanitary Sewers: Capacity	Mcf/day/mo.	22.3713	0.2632 (b)	5.8881
	Water Pollution Control Plants				
4	Volume	Mcf	2.2997	1.0000	2.2997
5	Capacity	Mcf/day/mo.	20.4761	0.0822 (a)	1.6831
6	Suspended Solids	1,000 lbs	323.0395	0.0044 (c)	1.4214
7	BOD	1,000 lbs	317.2168	0.0006 (d)	0.1903
8	Total Cost per Mcf				13.2084
9	Infiltration/Inflow Cost				
10	Total Cost + Infiltration/Inflow per Mcf				13.2084
11	Total Cost per Mcf - Rounded				13.21

Mcf - thousand cubic feet
Mcf/day - thousand cubic feet per day
lbs - pounds

(a) (1.0 Mcf * 1 month/30.4 days) * 2.5 = 0.0822 Mcf/day/mo
(b) (1.0 Mcf * 1 month/30.4 days) * 8.0 = 0.2632 Mcf/day/mo
Units-9
(c) (1.0 Mcf * 70 ppm * 0.00748 million gals / Mcf * 8.34 lbs/gal / 1,000 = 0.0044 1,000 lbs
Units-9
(d) (1.0 Mcf * 10 ppm * 0.00748 million gals / Mcf * 8.34 lbs/gal / 1,000 = 0.0006 1,000 lbs

File: SCOS23_24_ver1.xls Philadelphia Water Department (PWD) P.N. 135647.0100 CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE Test Year 2024 Budget Yr 2023 Ver. 1a
TYCOS - Test Year COS Adjusted to Recover Discounted COS from All Classes January 27, 2023 3:37 p.m. Ratedsn-9

ADDITIONAL COST OF SERVICE TO BE RECOVERED

Line No.	Customer Type	(1) Total Cost of Service $ Ratedsn-3	(2) Adjustment Factor		(3) Adjusted COS $
	Retail Service				
1	Residential	151,850,669	1.0138	(a)	153,942,891
2	Commercial	65,233,588	1.0138		66,132,507
3	Industrial	2,313,991	1.0138		2,345,878
4	Public Utilities	473,696	1.0138		480,224
5	Senior Citizens	6,199,119	0.7603	(b)	4,713,190
6	Sewer Only	5,537,645	1.0138	(a)	5,613,954
7	Groundwater	2,794,761	1.0138	(a)	2,833,273
8	Surcharge	7,026,212	1.0138	(c)	7,123,174
9	Housing Authority	6,248,553	0.9631	(b)	6,017,981
10	Charities & Schools	5,269,987	0.7603	(b)	4,006,771
11	Hospital/University	2,006,228	0.7603	(b)	1,525,335
12	Hand Billed	15,905,590	1.0138	(a)	16,124,769
13	xxxxxxxxxx	0	1.0138	(a)	0
14	Water Treatment Plant Sludge	16,592,337	1.0000	(d)	16,592,337
15	Private Fire Connections	3,622	1.0138	(a)	3,672
16	Scheduled (Flat Rate)	3,044	1.0138	(a)	3,086
17	xxxxxxxxxx	0	1.0138	(a)	0
18	Total Retail	287,459,042			287,459,042
	Wholesale Contract Customers	Ratedsn-2 & Retcos-9			Ratedsn-2 & Retcos-9
19	Allocations	41,317,070			41,317,070
20	Management Fee	4,611,039			4,611,039
21	Total Contract Customers	45,928,109			45,928,109
22	Total COS	333,387,151			333,387,151
				Difference	0
				% Difference	0.00%

(a) Percent increase in Allocated COS of all retail is 1.01378 Ratedsn-6
(b) Senior Citizens and charities pay only 25% of general service rates and the Housing Authority pays 5% of general service rates.
(c) Surcharge 1.0138 x 1.0000 1.0138
(d) Water Treatment Plant Sludge does not share in the recovery of unrecovered costs of service from other classes.

Line No.	Customer Type	(1) Initial Allocated Cost of Service $	(2) Deficit to Be Recovered From Retail Classes $	(3) (1) $	(4) Line 4 Below Prorated on (3) $
		Above	Above		
1	Senior Citizens	6,199,119	1,485,929	6,199,119	1,157,000
2	Charities	7,276,215	1,744,109	7,276,215	1,358,000
3	Housing Authority	6,248,553	230,572	6,248,553	1,166,000
					Ratedsn-6
4	Total	19,723,887	3,460,610	19,723,887	3,681,262 <=== Initial estimate of Discount Customers COS recovered by other retail.

SCOS23_24.XLS

RATES

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
RATESIndex - Index	P.N. 135647.0100	January 27, 2023 3:55 p.m.					Rates-1

The "Rates" worksheet develops contract service lump sum charges and unit costs.

Range	Description	Page Number	Table
RATESIndex	Index	Rates-1	
WHLCOST	Wholesale Lump Sum Costs - Maintenance, Customer & Capital Costs	Rates-2	
WHLALLO	Summary of Allocated Costs for Wholesale Customers	Rates-3	
IIRATE	Contract Service Rate Design Adjustment to Recover I/I Costs	Rates-4	
WHLCHARG	Summary Of Charges For Wholesale Contract Customers	Rates-5	
CTRCTREV1	Contract Service Revenues - Page 1	Rates-6	
CTRCTREV2	Contract Service Revenues - Page 2	Rates-7	
PLANTOM	Unit Net O&M Costs by Plant	Rates-8	

ANNUAL LUMP SUM COSTS FOR SEWER MAINTENANCE, CUSTOMER REATED COSTS, AND CAPITAL COSTS FOR FACILITIES USED BY WHOLESALE CONTRACT CUSTOMERS

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
								Annual Lump Sum Costs				
		Allocated Investment		Depreciable Plant				Depreciation	Expense (b)	Return on Investment		
Line No.	Contract Customers	Collection System	Treatment and Pumping	Collection System	Treatment and Pumping Investment	Sewer Maintenance Expense (c)	Customer Related Costs	Collection System	Treatment and Pumping	Collection System	Treatment and Pumping	Total Annual Lump Sum Cost
		$	$	$	$	$	$	$	$	$	$	$
		Retcos-10	Retcos-10	Retcos-10	Retcos-10 (b)	Retcos-10	Retcos-10					(5)+...+(10)
1	Abington	782,000	5,310,000	782,000	5,295,000	36,000	14,000	15,600	132,400	58,700	398,300	655,000
2	Bensalem	1,110,000	9,489,000	1,110,000	9,461,000	39,000	49,000	(a)	(a)	(a)	(a)	88,000
3	Bucks County	1,566,000	31,537,000	1,566,000	31,444,000	55,000	16,000	0	232,500	0	697,300	1,000,800
4	Cheltenham	3,788,000	13,349,000	3,788,000	13,310,000	227,000	34,000	75,800	332,800	284,100	1,001,200	1,954,900
5	DELCORA	612,000	48,122,000	612,000	47,981,000	39,000	43,000	12,200	217,300	45,800	651,700	1,009,000
6	Lower Merion	1,618,000	15,054,000	1,618,000	15,010,000	64,000	54,000	(a)	(a)	(a)	(a)	118,000
7	Lower Moreland	880,000	2,153,000	880,000	2,147,000	36,000	21,000	17,600	53,700	66,000	161,500	355,800
8	Lower Southampton	10,687,000	11,755,000	10,687,000	11,720,000	387,000	16,000	213,700	293,000	801,500	881,600	2,592,800
9	Springfield (less Wyndmoor)	1,493,000	5,166,000	1,493,000	5,152,000	77,000	27,000	29,900	128,800	112,000	387,500	762,200
10	Springfield (Wyndmoor)	331,000	706,000	331,000	705,000	12,000	8,000	6,600	17,600	24,800	53,000	122,000
11	Upper Darby	723,000	15,954,000	723,000	15,907,000	25,000	14,000	(a)	(a)	(a)	(a)	39,000
12	Total	23,590,000	158,595,000	23,590,000	158,132,000	997,000	296,000	371,400	1,408,100	1,392,900	4,232,100	8,697,500

(a) It is assumed that Bensalem, Lower Merion, and Upper Darby contributes its entire allocated plant investment, and therefore, are not allocated any depreciation expense or return on investment.
DELCORA, Bucks County, and Lower Southampton are prior contribution customers which have been converted to depreciation and return customers.

(b) Collection System Annual Depreciation Rate: 2.00%
Trtmt & Pumping Plant Annual Depreciation Rate: 2.50%
Township Customers Rate of Return: 7.50%

(c) Excludes $0.0 Pumping Stations-Direct to Bucks County, $60,000.0 Pumping Stations-Lower Merion volume and capacity costs recovered through volume and capacity rates, and $12,000.0 Pumping Stations-Springfield (excl Wyndmoor) volume and capacity costs recovered through volume and capacity rates.

Ref: Retcos-11

SUMMARY OF ALLOCATED COST OF SERVICE FOR CONTRACT CUSTOMERS
Test Year 2024

Customer	Allocated Investment $	Allocated Depreciation Investment $	O&M Expense $	Depreciation Expense $	Return on Investment $	Allocated Cost of Service $ Rounded
Abington	6,092,000	6,077,000	1,091,000	148,015	456,900	1,696,000
Bensalem	10,599,000	10,571,000	1,514,000	(a)	(a)	1,514,000
Bucks County	33,103,000	33,010,000	9,184,000	232,450	697,275	10,114,000
Cheltenham	17,137,000	17,098,000	2,993,000	408,510	1,285,275	4,687,000
DELCORA	48,734,000	48,593,000	8,890,000	229,475	697,425	9,817,000
Lower Merion	16,672,000	16,628,000	2,536,000	(a)	(a)	2,536,000
Lower Moreland	3,033,000	3,027,000	603,000	71,275	227,475	902,000
Lower Southampton	22,442,000	22,407,000	2,247,000	506,740	1,683,150	4,437,000
Springfield (less Wyndmoor)	6,659,000	6,645,000	1,409,000	158,660	499,425	2,067,000
Springfield (Wyndmoor)	1,037,000	1,036,000	239,000	24,245	77,775	341,000
Upper Darby	16,677,000	16,630,000	3,207,000	(a)	(a)	3,207,000
Total	182,185,000	181,722,000	33,913,000	1,779,370	5,624,700	41,318,000

(a) It is assumed that Bensalem, Lower Merion, and Upper Darby contribute their entire allocated plant investment, and therefore, are not allocated any depreciation expense or return on investment.

File: SCOS23_24_ver1.xls Philadelphia Water Department (PWD) CONFIDENTIAL: DO NOT DUPLICATE OR DISTI Test Year 2024 Budget Yr 2023 Ver. 1a
IIRATE - Contract Service Rate Design Adjustment to Recover I/I Costs P.N. 135647.0100 January 27, 2023 3:55 p.m. Rates-4

Ref: Rates-8

RATE DESIGN ADJUSTMENT TO UNIT O&M EXPENSE IN ORDER TO RECOVER COSTS ASSOCIATED WITH I/I WHEN RATES ARE APPLIED

CONTRACT ADJUSTMENTS CURRENTLY NOT IN USE

These calculations can be used to determine the "CONTRACT ADUSTMENT" required to achieve the target (or adopted rates).

Line No.	Contract Customer	Unit Costs Volume $/Mcf Rates-8	Capacity $/Mcf/day Rates-8	Suspended Solids $/1,000 lbs Rates-8	BOD $/1,000 lbs Rates-8		Target/Adopted Unit Costs Volume $/Mcf	Capacity $/Mcf/day	Suspended Solids $/1,000 lbs	BOD $/1,000 lbs
	Abington, Bensalem, Bucks County, Lower Moreland and Lower Southampton						CURRENTLY NOT IN USE			
1	Northeast WP CP - Preliminary Trtmt.	0.1133	100.7329							
2	Northeast WP CP - Other	1.8158	137.2145	259.2301	302.0965					
3	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000	Adjustment	#N/A	#N/A	#N/A	#N/A
4	Total	1.9291	237.9474	259.2301	302.0965	Target	#N/A	#N/A	#N/A	#N/A
	Cheltenham									
5	Northeast WP CP	0.0000	0.0000							
6	Northeast WP CP - Other	1.8158	137.2145	259.2301	302.0965					
7	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000	Adjustment	#N/A	#N/A	#N/A	#N/A
8	Total	1.8158	137.2145	259.2301	302.0965	Target	#N/A	#N/A	#N/A	#N/A
	DELCORA									
9	Southwest WP CP	1.7046	108.5607	241.6653	254.5809					
	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000	Adjustment	#N/A	#N/A	#N/A	#N/A
	Total	1.7046	108.5607	241.6653	254.5809	Target	#N/A	#N/A	#N/A	#N/A
	Lower Merion									
10	Southwest WP CP	1.7706	111.0324	245.3270	255.1715	Target	#N/A	#N/A	#N/A	#N/A
11	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000	Adjustment	#N/A	#N/A	#N/A	#N/A
12	Neill Drive Pumping Station	0.1711	519.0073							
13	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000	Adjustment	#N/A	#N/A	#N/A	#N/A
14	Total (a)	1.9417	630.0397	245.3270	255.1715	Target	#N/A	#N/A	#N/A	#N/A
	Springfield (less Wyndmoor)									
15	Southwest WP CP	1.7706	111.0324	245.3270	255.1715					
16	Central Schuylkill Pumping Station	0.0146	26.1513							
17	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000	Adjustment	#N/A	#N/A	#N/A	#N/A
18	Total (b)	1.7852	137.1837	245.3270	255.1715	Target	#N/A	#N/A	#N/A	#N/A
	Upper Darby									
19	Southwest WP CP	1.7706	111.0324	245.3270	255.1715					
	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000	Adjustment	#N/A	#N/A	#N/A	#N/A
	Total	1.7706	111.0324	245.3270	255.1715	Target	#N/A	#N/A	#N/A	#N/A
	Springfield (Wyndmoor)									
20	Southeast WP CP	2.8578	294.1994	407.1357	191.3339					
	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000	Adjustment	#N/A	#N/A	#N/A	#N/A
	Total	2.8578	294.1994	407.1357	191.3339	Target	#N/A	#N/A	#N/A	#N/A

(a) $1.7706 and $111.0324 rates are applied to all Lower Merion volume and capacity whereas $0.1711 and $519.0073 are applied to only to volume and capacity units related to flow through the City Line Avenue and Presidential Drive connection.
(b) $1.7852 and $137.1837 are applicable to all Springfield (less Wyndmoor) volume and capacity units.

A lag factor is applied to all wholesale customer rates equal 1.0000
Months in effective test year: 12.00
Months to collect COS: 12.00
BUT, DELCORA is for 12.00 months, or an adjustment factor of 1.0000

TABLE 0

SUMMARY OF TEST YEAR CHARGES FOR WHOLESALE CONTRACT CUSTOMERS

Test Year 2024

Line No.	Contract Customers		(1) Annual Lump Sum Cost $ Rates-2	(2) Unit Costs Volume $/ Mcf Rates-4	(3) Unit Costs Capacity (a) $/cfs Rates-4	(4) Unit Costs Suspended Solids $/1,000 lbs Rates-4	(5) Unit Costs BOD $/1,000 lbs Rates-4
1	Abington	NE	655,000	1.9291	20,559	259.23	302.10
2	Bensalem	NE	88,000	1.9291	20,559	259.23	302.10
3	Bucks County (b)	NE	1,000,800	1.9291	20,559	259.23	302.10
4	Cheltenham	NE	1,954,900	1.8158	11,855	259.23	302.10
5	DELCORA	SW	1,009,000	1.7046	9,380	241.67	254.58
6	Lower Merion (c) (d)	SW	118,000	1.7706	9,593	245.33	255.17
7	Lower Moreland	NE	355,800	1.9291	20,559	259.23	302.10
8	Lower Southampton	NE	2,592,800	1.9291	20,559	259.23	302.10
9	Springfield (less Wyndmoor)	SW	762,200	1.7852	11,853	245.33	255.17
10	Springfield (Wyndmoor)	SE	122,000	2.8578	25,419	407.14	191.33
11	Upper Darby	SW	39,000	1.7706	9,593	245.33	255.17
12	Total		8,697,500				

(a) Annual Cost.
(b) Charges for recovery of costs associated with odor control of Bucks County wastewater are in addition to the charges shown herein.
(c) For flow through City Line Avenue and Presidential Drive connection, an additional cost of $0.1711 per Mcf is applicable for costs related to the Neill Drive Pump Station.
(d) For contract capacity at the City Line Avenue and Presidential Drive connection, an additional charge of $519.01 per Mcf/day ($44,842.2 per cfs) is applicable to costs related to Neill Drive Pump Station.
(e) All costs inflated 0.0% due to new rates being in place 12.0 months of an effective 12 month test year.

COMPARISON OF CONTRACT SERVICE REVENUES UNDER EXISTING AND ADJUSTED RATES
Test Year 2024

	(1)	(2)	(3)	(4)	(5)	(6)				
		Existing Rates		Adjusted Rates			Column (5) Charges Before Management Fee	Allocated Cost of Service from Rates-2	Calculated Revenues Less COS	
	Units of Service	Unit Charge $/unit	Revenue $ (1) * (2)	Unit Charge $/unit Rates-5	Revenue $ (1) * (4)	Revenue Difference $ (5) - (3)	$	$ Rates-2	Amount $	Percent of COS %
Abington										
O&M Charges										
Volume (Mcf)	91,859	1.3079	120,142	1.9291	177,205	57,063				
Capacity (cfs)	9.5420	11,111	106,021	20,559	196,174	90,153				
Suspended Solids (1,000 lbs)	998	197.50	197,061	259.23	258,655	61,594				
BOD (1,000 lbs)	1,343	221.71	297,760	302.10	405,726	107,966				
Subtotal			720,984		1,037,760	316,776				
Lump Sum Charge		603,000	603,000	655,000	655,000	52,000	1,692,760	1,696,000	(3,240)	-0.19%
Management Fee		12.00%	158,878	12%	203,131	44,253				
Total Service Charge			1,482,862		1,895,891	413,029				
Bensalem										
O&M Charges										
Volume (Mcf)	150,020	1.3079	196,211	1.9291	289,404	93,193				
Capacity (cfs)	11.7400	11,111	130,443	20,559	241,363	110,920				
Suspended Solids (1,000 lbs)	1,568	197.50	309,665	259.23	406,454	96,789				
BOD (1,000 lbs)	1,623	221.71	359,797	302.10	490,257	130,460				
Subtotal			996,116		1,427,478	431,362				
Lump Sum Charge		90,000	90,000	88,000	88,000	(2,000)	1,515,478	1,514,000	1,478	0.10%
Management Fee		10.00%	108,612	10%	151,548	42,936				
Total Service Charge			1,194,728		1,667,026	472,298				
Bucks County										
O&M Charges										
Volume (Mcf)	893,899	1.3079	1,169,131	1.9291	1,724,421	555,290				
Capacity (cfs)	74.2600	11,111	825,103	20,559	1,526,711	701,608				
Suspended Solids (1,000 lbs)	10,541	197.50	2,081,747	259.23	2,732,422	650,675				
BOD (1,000 lbs)	10,369	221.71	2,298,928	302.10	3,132,508	833,580				
Subtotal			6,374,909		9,116,062	2,741,153				
Lump Sum Charge (a)		893,000	893,000	1,000,800	1,000,800	107,800	10,116,862	10,114,000	2,862	0.03%
Management Fee		10.00%	726,791	10%	1,011,686	284,895				
Total Service Charge			7,994,700		11,128,548	3,133,848				
Cheltenham										
O&M Charges										
Volume (Mcf)	410,973	1.2370	508,374	1.8158	746,245	237,871				
Capacity (cfs)	31.7500	6,198	196,787	11,855	376,396	179,609				
Suspended Solids (1,000 lbs)	3,069	197.50	606,086	259.23	795,525	189,439				
BOD (1,000 lbs)	2,682	221.71	594,635	302.10	810,246	215,611				
Subtotal			1,905,882		2,728,412	822,530				
Lump Sum Charge		1,678,000	1,678,000	1,954,900	1,954,900	276,900	4,683,312	4,687,000	(3,688)	-0.08%
Management Fee		12.00%	430,066	12%	561,997	131,931				
Total Service Charge			4,013,948		5,245,309	1,231,361				

Lower Moreland

O&M Charges										
Volume (Mcf)	61,845	1.3079	80,887	1.9291	119,305	38,418				
Capacity (cfs)	5.8800	11,111	65,333	20,559	120,887	55,554				
Suspended Solids (1,000 lbs)	626	197.50	123,675	259.23	162,331	38,656				
BOD (1,000 lbs)	470	221.71	104,293	302.10	142,109	37,816				
Subtotal			374,188		544,632	170,444				
Lump Sum Charge		343,000	343,000	355,800	355,800	12,800	900,432	902,000	(1,568)	-0.17%
Management Fee		12.00%	86,063	12%	108,052	21,989				
Total Service Charge			803,251		1,008,484	205,233				

(a) See footnote (a) on sheet Rates-7.

Reference: LINKS

COMPARISON OF CONTRACT SERVICE REVENUES UNDER EXISTING AND ADJUSTED RATES
Test Year 2024

	(1)	(2)	(3)	(4)	(5)	(6)				
		Existing Rates		Adjusted Rates						
	Units of Service	Unit Charge $/unit	Revenue $ (1) * (2)	Unit Charge $/unit Rates-5	Revenue $ (1) * (4)	Revenue Difference $ (5) - (3)				
Lower Southampton										
O&M Charges										
Volume (Mcf)	270,135	1.3079	353,310	1.9291	521,117	167,807				
Capacity (cfs)	15.7900	11,111	175,443	20,559	324,627	149,184				
Suspended Solids (1,000 lbs)	1,964	197.50	387,925	259.23	509,176	121,251				
BOD (1,000 lbs)	1,633	221.71	361,994	302.10	493,252	131,258				
Subtotal			1,278,672		1,848,172	569,500				
Lump Sum Charge		2,351,000	2,351,000	2,592,800	2,592,800	241,800	4,440,972	4,437,000	3,972	0.09%
Management Fee		12.00%	435,561	12%	532,917	97,356				
Total Service Charge			4,065,233		4,973,889	908,656				
DELCORA										
O&M Charges										
Volume (Mcf)	1,086,790	1.4148	1,537,590	1.7046	1,852,542	314,952				
Capacity (cfs)	155.0000	7,470	1,157,850	9,380	1,453,900	296,050				
Suspended Solids (1,000 lbs)	12,017	207.19	2,489,726	241.67	2,904,032	414,306				
BOD (1,000 lbs)	10,202	203.98	2,081,086	254.58	2,597,348	516,262				
Subtotal			7,266,252		8,807,822	1,541,570				
Lump Sum Charge		653,000	653,000	1,009,000	1,009,000	356,000	9,816,822	9,817,000	(178)	0.00%
Management Fee		12.00%	950,310	12%	1,178,019	227,709				
Total Service Charge			8,869,562		10,994,841	2,125,279				
Lower Merion										
O&M Charges										
Volume (Mcf) (b)	309,643	1.4642	453,379	1.7706	550,427	97,048				
Capacity (cfs) (c)	31.5700	7,640	241,195	9,593	362,537	121,342				
Suspended Solids (1,000 lbs)	3,234	210.01	679,213	245.33	793,454	114,241				
BOD (1,000 lbs)	2,760	204.41	564,189	255.17	704,302	140,113				
Subtotal			1,937,976		2,410,720	472,744				
Lump Sum Charge		121,000	121,000	118,000	118,000	(3,000)	2,528,720	2,536,000	(7,280)	-0.29%
Management Fee		10.00%	205,898	10%	252,872	46,974				
Total Service Charge			2,264,874		2,781,592	516,718				
Springfield (excl. Wyndmoor)										
O&M Charges										
Volume (Mcf)	109,419	1.4764	161,546	1.7852	195,335	33,789				
Capacity (cfs)	4.6000	9,647	44,376	11,853	54,524	10,148				
Suspended Solids (1,000 lbs)	2,141	210.01	449,700	245.33	525,344	75,644				
BOD (1,000 lbs)	2,116	204.41	432,470	255.17	539,868	107,398				
Subtotal			1,088,092		1,315,071	226,979				
Lump Sum Charge		681,000	681,000	762,200	762,200	81,200	2,077,271	2,067,000	10,271	0.50%
Management Fee		12.00%	212,291	12%	249,273	36,982				
Total Service Charge			1,981,383		2,326,544	345,161				

Upper Darby										
O&M Charges										
Volume (Mcf)	451,287	1.4642	660,774	1.7706	799,049	138,275				
Capacity (cfs)	35.0000	7,640	267,400	9,593	335,755	68,355				
Suspended Solids (1,000 lbs)	4,392	210.01	922,369	245.33	1,077,520	155,151				
BOD (1,000 lbs)	3,745	204.41	765,420	255.17	955,503	190,083				
Subtotal			2,615,963		3,167,827	551,864				
Lump Sum Charge		41,000	41,000	39,000	39,000	(2,000)	3,206,827	3,207,000	(173)	-0.01%
Management Fee		10.00%	265,696	10%	320,683	54,987				
Total Service Charge			2,922,659		3,527,510	604,851				
Springfield (Wyndmoor)										
O&M Charges										
Volume (Mcf)	17,518	2.1586	37,814	2.8578	50,063	12,249				
Capacity (cfs)	1.9300	17,549	33,870	25,419	49,059	15,189				
Suspended Solids (1,000 lbs)	215	317.55	68,304	407.14	87,574	19,270				
BOD (1,000 lbs)	166	130.64	21,724	191.33	31,815	10,091				
Subtotal			161,712		218,511	56,799				
Lump Sum Charge		134,000	134,000	122,000	122,000	(12,000)	340,511	341,000	(489)	-0.14%
Management Fee		12.00%	35,485	12%	40,861	5,376				
Total Service Charge			331,197		381,372	50,175				
Total Contract Service Revenue			35,924,397		45,931,006	10,006,609				

			management fee		
	Whlsl COS=	41,318,000	plus	4,611,039	45,929,039

(a) The PWD recovers the direct costs for sodium hypochlorite for odor control of Bucks County wastewater directly from Bucks County based on actual expenses incurred. Therefore, remove this cost from the lump sum charge and note on the schedule of contract customer charges that those costs are recovered directly from Bucks County.
(b) The volume charge revenue includes charges for flows through the City Line and Presidential Drive connection.
(c) The capacity charge revenue includes charges for flows through the City Line and Presidential Drive connection.

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
PLANTOM - Unit Net O&M Costs by Plant	P.N. 135647.0100	January 27, 2023 3:55 p.m.			Rates-8

Ref: Somallo-40

Line No.		(1) Total Net Operating Expense $1,000	(2) Projected Test Year Units of Service		(3) Unit Operating Expense $/unit	(4) Contract Customer Total Volume Units Incl. I/I Mcf	(5) Contract Customer Total Volume Units Excl. I/I Mcf	(6) Adjusted Unit Operating Expense $/unit ((3)*(4)) / (5)
	PUMPING STATIONS							
	Neill Drive Pumping Station							
	Retail and Lower Merion							
1	Total Volume	10	61,250	Mcf	0.1633	324,900	310,000	0.1711
2	Total Capacity	188	370	Mcf/day	507.8378	2,788	2,728	519.0073
	Central Schuykill Pumping Station							
	Retail and Springfield (excl. Wyndmoor)							
3	Total Volume	49	3,425,000	Mcf	0.0143	111,200	109,000	0.0146
4	Total Capacity	564	22,110	Mcf/day	25.5088	407	397	26.1513
	WATER POLLUTION CONTROL PLANTS							
	Northeast Plant:							
	Retail and Cheltenham							
5	Volume	0	NA	Mcf	0.0000	426,000	411,000	0.0000
6	Capacity	0	NA	Mcf/day	0.0000	2,803	2,743	0.0000
	Retail, Abington, Bensalem, Bucks County W&SA, Lower Moreland, and Lower Southampton							
7	Volume	727	6,656,000	Mcf	0.1092	1,523,500	1,468,000	0.1133
8	Capacity	4,198	42,580	Mcf/day	98.5909	10,346	10,126	100.7329
	Retail, Abington, Bensalem, Bucks County W&SA, Cheltenham, Lower Moreland, and Lower Southampton							
9	Volume	15,742	8,995,000	Mcf	1.7501	1,949,500	1,879,000	1.8158
10	Capacity	7,728	57,546	Mcf/day	134.2926	13,149	12,869	137.2145
11	Suspended Solids	27,951	109,593	1,000 lbs	255.0440	19,073	18,765	259.2301
12	BOD	23,717	78,699	1,000 lbs	301.3647	18,164	18,120	302.0965
	Southwest Plant:							
	Retail							
13	Volume	79	NA	Mcf	0.0000	NA	NA	
14	Capacity	646	NA	Mcf/day	0.0000	NA	NA	
	Retail, DELCORA, Lower Merion, Springfield (Excluding Wyndmoor), and Upper Darby							
15	Volume	15,195	8,914,000	Mcf	1.7046	903,700	870,000	1.7706
16	Capacity	6,191	57,028	Mcf/day	108.5607	6,289	6,149	111.0324
17	Suspended Solids	19,952	82,561	1,000 lbs	241.6653	9,916	9,768	245.3270
18	BOD	13,852	54,411	1,000 lbs	254.5809	8,640	8,620	255.1715
	Southeast Plant:							
	Retail and Springfield (Wyndmoor)							
19	Volume	11,023	4,050,000	Mcf	2.7217	18,900	18,000	2.8578
20	Capacity	7,623	25,911	Mcf/day	294.1994	167	167	294.1994
21	Suspended Solids	13,715	34,313	1,000 lbs	399.7027	219	215	407.1357
22	BOD	5,002	26,300	1,000 lbs	190.1901	167	166	191.3339

SCOS23_24.XLS

SERVCHG

The "Servchg" worksheet develops the cost of service monthly service charge for 5/8 inch meters.

Range	Description	Page Number	Table
SERVIndex	Index	Servchg-1	
SRVCHG	Service Charge Design	Servchg-2	
ADJRTLCOS	Adjusted Retail COS Unit Costs	Servchg-3	
ADJCOSSUM	Summary of Adjusted COS Service Charges	Servchg-4	Schedule BV-2: Table 8-2
EQMBR	Equivalent Meter & Bill Ratios	Servchg-5	

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
SRVCHG - Service Charge Design	P.N. 135647.0100	January 27, 2023 4:07 p.m.					Servchg-2

		Customer Costs												
	Collection System Stormwater Costs	Meter Costs	Billing Costs Sanitary	Billing Costs Stormwater	Industrial Waste Costs	Stormwater Infiltration/ Inflow Costs	Sanitary Infiltration/ Inflow Costs	Stormwater Direct Programs	Warranty Costs	Total Cost	Reference	Sanitary	Stormwater	Total
Units	Eq. Meters	Eq. Meters	Eq. Bills	Bills	Eq. Meters	Eq. Meters	Eq. Meters	Eq. Meters	Eq. Service					
5/8 Inch Meter														
Unit Costs - $/unit		0.6573	3.2335		0.5078		2.7828		0.0000		Servchg-3			
Units		1.0	1.0		1.0		1.0		1.0		Servchg-3			
Total Cost - $		0.6573	3.2335		0.5078		2.7828		0.0000	7.1814		7.1814	0.0000	7.1814
3/4 Inch Meter														
Unit Costs - $/unit		0.6573	3.2335		0.5078		2.7828		0.0000		above			
Units		1.5	1.00		1.5		1.5		1.0		Servchg-3			
Total Cost - $		0.9860	3.2335		0.7617		4.1742		0.0000	9.1554		9.1554	0.0000	9.1554
1 Inch Meter														
Unit Costs - $/unit		0.6573	3.2335		0.5078		2.7828		0.0000		above			
Units		2.5	1.1		2.5		2.5		1.1		Servchg-3			
Total Cost - $		1.6433	3.5569		1.2695		6.9570		0.0000	13.4267		13.4267	0.0000	13.4267
1-1/4 Inch Meter														
Unit Costs - $/unit		0.6573	3.2335		0.5078		2.7828		0.0000		above			
Units		3.8	1.2		3.8		3.8		1.2		Servchg-3			
Total Cost - $		2.4977	3.8802		1.9296		10.5746		0.0000	18.8821		18.8821	0.0000	18.8821
1-1/2 Inch Meter														
Unit Costs - $/unit		0.6573	3.2335		0.5078		2.7828		0.0000		above			
Units		5.0	1.2		5.0		5.0		1.2		Servchg-3			
Total Cost - $		3.2865	3.8802		2.5390		13.9140		0.0000	23.6197		23.6197	0.0000	23.6197
2 Inch Meter														
Unit Costs - $/unit		0.6573	3.2335		0.5078		2.7828		0.0000		above			
Units		8.0	1.5		8.0		8.0		2.1		Servchg-3			
Total Cost - $		5.2584	4.8503		4.0624		22.2624		0.0000	36.4335		36.4335	0.0000	36.4335
3 Inch Meter														
Unit Costs - $/unit		0.6573	3.2335		0.5078		2.7828		0.0000		above			
Units		15.0	2.0		15.0		15.0		0.0		Servchg-3			
Total Cost - $		9.8595	6.4670		7.6170		41.7420		0.0000	65.6855		65.6855	0.0000	65.6855
4 Inch Meter														
Unit Costs - $/unit		0.6573	3.2335		0.5078		2.7828		0.0000		above			
Units		25.0	4.0		25.0		25.0		0.0		Servchg-3			
Total Cost - $		16.4325	12.9340		12.6950		69.5700		0.0000	111.6315		111.6315	0.0000	111.6315
6 Inch Meter														
Unit Costs - $/unit		0.6573	3.2335		0.5078		2.7828		0.0000		above			
Units		50.0	7.0		50.0		50.0		0.0		Servchg-3			
Total Cost - $		32.8650	22.6345		25.3900		139.1400		0.0000	220.0295		220.0295	0.0000	220.0295
8 Inch Meter														
Unit Costs - $/unit		0.6573	3.2335		0.5078		2.7828		0.0000		above			
Units		80.0	10.0		80.0		80.0		0.0		Servchg-3			
Total Cost - $		52.5840	32.3350		40.6240		222.6240		0.0000	348.1670		348.1670	0.0000	348.1670

10 Inch Meter										
Unit Costs - $/unit	0.6573	3.2335	0.5078	2.7828	0.0000		above			
Units	115.0	15.0	115.0	115.0	0.0		Servchg-3			
Total Cost - $	75.5895	48.5025	58.3970	320.0220	0.0000	502.5110		502.5110	0.0000	502.5110
12 Inch Meter										
Unit Costs - $/unit	0.6573	3.2335	0.5078	2.7828	0.0000		above			
Units	215.0	20.0	215.0	215.0	0.0		Servchg-3			
Total Cost - $	141.3195	64.6700	109.1770	598.3020	0.0000	913.4685		913.4685	0.0000	913.4685
14 Inch Meter										
Unit Costs - $/unit	0.6573	3.2335	0.5078	2.7828	0.0000		above			
Units	225.0	23.0	225.0	225.0	0.0		Servchg-3			
Total Cost - $	147.8925	74.3705	114.2550	626.1300	0.0000	962.6480		962.6480	0.0000	962.6480

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
ADJRTLCOS - Adjusted Retail COS Unit Costs	P.N. 135647.0100	January 27, 2023 4:07 p.m.					Servchg-3

Rate Design - Retail COS Unit Costs Adjusted to Subsidize Discount
Customers and to Reflect Conversion to Billing Units from Wastewater Units

Line No.	Cost Component	(1) Units	(2) Adjusted Unit Cost $/unit			
	Collection System		Ratedsn-5			Ratedsn-5
	Pumping Station					
1	Volume	Mcf	0.2607	/Mcf		
2	Capacity	Mcf/day	204.5869	/year	=	$17.0489 /month
3	Sanitary Sewers	Mcf/day	258.5494	/year	=	$21.5458 /month
4	Storm Costs Related to Equivalent Meters					
	WPC Plants					
5	Volume	Mcf	2.2148	/Mcf		
6	Capacity	Mcf/day	236.6462	/year	=	$19.7205 /month
7	Suspended Solids	1,000 lbs	327.4974	/1,000 lbs		
8	BOD	1,000 lbs	321.5944	/1,000 lbs		
	Customer Costs					
9	Meter Costs	Eq Meters	7.8871	/year	=	$0.6573 /month
	Billing Costs					
10	Sanitary	Eq Bills	3.2335	/monthly bill		
11	Industrial Waste Unit - Retail	Eq Meters	6.0931	/year	=	$0.5078 /month
12	Warranty Program	Eq Service	0.0000	/year	=	$0.0000 /month
13	Infiltration/Inflow - Sanitary	Eq Meters	33.3933	/year	=	$2.7828 /month

Test Year Equivalent Bills and Equivalent Meters Factors

		5/8" Meter	3/4" Meter	1" Meter	1-1/4" Meter	1-1/2" Meter	2" Meter	3" Meter	4" Meter	6" Meter	8" Meter	10" Meter	12" Meter	14" Meter
Equivalent Bills Factors	Units-11	1.0	1.0	1.1	1.2	1.2	1.5	2.0	4.0	7.0	10.0	15.0	20.0	23.0
Equivalent Meters Factors	Units-12	1.0	1.5	2.5	3.8	5.0	8.0	15.0	25.0	50.0	80.0	115.0	215.0	225.0
Equivalent Service Factors	Units-12	1.0	1.0	1.1	1.2	1.2	2.1	10.0	12.0	15.0	19.0	25.0	28.0	45.0
Equivalent Bills Factors - Parcel Based		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Meter Size inches	Calculated Service Charge $ Servchg-2	Rounded Service Charge $	Lag Factor @ 105.00% $ LagRate-14
5/8	7.18	7.18	7.54
3/4	9.16	9.16	9.62
1	13.43	13.43	14.10
1-1/4	18.88	18.88	19.82
1-1/2	23.62	23.62	24.80
2	36.43	36.43	38.25
3	65.69	65.69	68.97
4	111.63	111.63	117.21
6	220.03	220.03	231.03
8	348.17	348.17	365.58
10	502.51	502.51	527.64
12	913.47	913.47	959.14
14	962.65	962.65	1,010.78

TABLE WW - 16

DEVELOPMENT OF COST OF SERVICE MONTHLY SERVICE CHARGE FOR CUSTOMERS WITH 5/8-INCH METERS

Test Year 2024

Line No.	Cost Component	(1) Units	(2) Unit Costs $/Unit Servchg-2	(3) Number of Units Servchg-2	(4) Total Cost $ (2) * (3)
	Customer Costs				
1	Meter Costs	Eq. Meter	0.6573	1.0	0.6573
2	Billing Costs	Eq. Bills	3.2335	1.0	3.2335
3	Industrial Waste Unit	Eq. Meter	0.5078	1.0	0.5078
	Warranty Program	Eq. Service	0.0000	1.0	0.0000
4	I/I Costs - Sanitary Costs	Eq. Meter	2.7828	1.0	2.7828
5	Total Service Charge				7.1814
6	Total Service Charge - Rounded				7.18

TABLE 19

EQUIVALENT METER AND BILL RATIOS

Meter Size inches	Equiv. Meter and Capacity Ratio Servchg-3	Equivalent Bill Ratio Servchg-3	Equiv. Meter and Service Ratio Servchg-3
5/8	1.0	1.0	1.0
3/4	1.0	1.5	1.0
1	1.1	2.5	1.1
1-1/4	1.2	3.8	1.2
1-1/2	1.2	5.0	1.2
2	1.5	8.0	2.1
3	2.0	15.0	10.0
4	4.0	25.0	12.0
6	7.0	50.0	15.0
8	10.0	80.0	19.0
10	15.0	115.0	25.0
12	20.0	215.0	28.0
14	23.0	225.0	45.0

SCOS23_24.XLS

LAGRATE

File: SCOS23_24_ver1 (version 1).xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
LAGIndex - Index	P.N. 135647.0100	January 31, 2023 1:41 p.m.					LagRate-1

The "LagRate" worksheet refines cost of service rates to recognize billing lag and rate implementation refinements and develops proposed Sewer System rates for the test year and two following years.

Range	Description	Page Number	Table
LAGIndex	Index	LagRate-1	
COSRates	Existing and COS Rates	LagRate-2	
BILLCONS	Projected Accounts, Bills and Consumption	LagRate-3	
PBILLERates	Projected Gross Billings Under Existing Rates	LagRate-4	
BILLMETER	Historical Accounts by Meter Size & Billed Volume	LagRate-5	
BILLMETER1	FY 2024 Bills by Meter Size & Billed Volume	LagRate-6	
EBILLS	Historical Billings Under Existing Rates	LagRate-7	
BILLTABFTR	FY 2024 Bill Tab Adjustment Factors	LagRate-7a	
EUNITCHRG	Unit Charges Under Existing Rates	LagRate-8	
PBILLS	Billings Under COS Rates	LagRate-9	
PUNITCHRG	Unit Charges Under COS Rates	LagRate-10	
PBILLPRates	Projected Billings Under COS Rates	LagRate-11	
PBILLSUM	Summary of Projected Billings Under COS Rates	LagRate-12	
RECPTS	Calculation of Receipts (Under Proposed Rates) Reflecting Lag	LagRate-13	
TYRECPTS	Test Year Receipts with Lag	LagRate-14	
ADJCOS	Modified COS Rates to Account for Lag	LagRate-15	
CTRCTUnits	Contract Service Customers Billing Units	LagRate-16	
WHLCHRGS	Summary of Existing Charges for Wholesale Contract Customers	LagRate-17	
PRATES	Proposed Contract Rates and Percent Incr. Over Existing Rates	LagRate-18	
CTRCTANAI	Cntrct Serv. Proposed Rates Receipts Analysis - Part 1	LagRate-19	
CTRCTANAI	Cntrct Serv. Proposed Rates Receipts Analysis - Part 2	LagRate-19a	
COSCLASS	COS & Adjusted COS by Class	LagRate-20	
CTRCTACOS	Contract Customers Allocated Cost of Service	LagRate-21	
EREVCOM	Comparison of Revenue Under Existing Rates to COS	LagRate-22	
CTRCTREVC	Comparison of Contract Revenues Under Existing Rates and Adjusted Rat	LagRate-23	
TYCSTSERV	Test Year Cost of Service	LagRate-24	
PRATESGS	Proposed Wastewater Rates for General Service	LagRate-25	Schedule BV-2: Table 8-4
XXXXXX	Septic Hauler Fee Calculation	LagRate-26	
TYPBILLS	Typical Bills for Water and Wastewater	LagRate-27	
XXXXXX	PAGE NOT IN USE	LagRate-28	
XXXXXX	PAGE NOT IN USE	LagRate-29	
XXXXXX	PAGE NOT IN USE	LagRate-30	
PHRATESTA	Four Years of Phased Rates (No trending)	LagRate-31	
PHASE1BILL	Transition Phase 1 Typical Bills	LagRate-32	
PHASE2BILL	Transition Phase 2 Typical Bills	LagRate-33	
PHASE3BILL	Transition Phase 3 Typical Bills	LagRate-34	
CHRGCMP1	Comparison 1 of Typical Bills	LagRate-35	
CHRGCMP2	Comparison 2 of Typical Bills	LagRate-36	
PROPRCPTS	Page 1 of FY 2024 Proposed Receipts Calcs	LagRate-37	
PROPRCPTS	Page 2 of FY 2024 Proposed Receipts Calcs	LagRate-38	
XXXXXX	PAGE NOT IN USE	LagRate-39	
SSERVCHGS	2024 Components of Sewer Service Charges	LagRate-40	
XXXXXX	PAGE NOT IN USE	LagRate-41	
XXXXXX	PAGE NOT IN USE	LagRate-42	
SSERVCHGS	Summary of Components of Regular Sewer Service Charges	LagRate-43	
SSERVCHGS	Summary of Components of Discount Sewer Service Charges	LagRate-44	

File: SCOS23_24_ver1.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2024 | Budget Yr 2023 | Ver. 1a
COSRates - Existing and COS Rates | P.N. 135647.0100 | January 27, 2023 January 27, 2023 4:07 p.m. | LagRate-2

Reference:
OPTION 0 COS

TEST YEAR COS RATES
TEST YEAR 2024
(Prior to Application of Lag Factor Adjustment)

	Meter Size inches	Meter Code	General Service Service Charge $/Bill Servchg-4	Discount Service Charge (a) $/Bill Ratedsn-2
15.11	5/8	R	7.18	5.39
37.91	3/4	Z	9.16	6.87
61.18	1	Q	13.43	10.07
89.77	1-1/4	Y	18.88	14.16
118.37	1-1/2	P	23.62	17.72
188.19	2	X	36.43	27.32
350.10	3	O	65.69	49.27
585.83	4	W	111.63	83.72
1,166.66	6	N	220.03	165.02
1,862.86	8	V	348.17	261.13
2,679.42	10	E	502.51	376.88
4,977.74	12	T	913.47	685.10
5,217.47	14	H	962.65	721.99

Monthly Water Usage	Charge Per Mcf Ratedsn-8	Charge Per Mcf calc here
General Service Volume Charge	37.72	28.29
Groundwater Volume Charge	13.21	

Wastewater Surcharge	Charge $/lb Ratedsn-7
BOD in excess of 250 mg/l	0.422
SS in excess of 350 mg/l	0.430

EXISTING RATES

TEST YEAR (TY) FY 2024 Effective September 1, 2022

Meter Size inches	Meter Code	General Service Service Charge $/Bill	Discount Service Charge (a) $/Bill
		Ref: Financial Planning Model	
5/8	R	7.50	5.63
3/4	Z	9.57	7.18
1	Q	14.05	10.54
1-1/4	Y	19.77	14.83
1-1/2	P	24.75	18.56
2	X	38.19	28.64
3	O	68.87	51.65
4	W	117.03	87.77
6	N	230.71	173.03
8	V	365.13	273.85
10	E	526.96	395.22
12	T	958.27	718.70
14	H		0.00

Monthly Water Usage	Charge $/Mcf
General Service Volume Charge	34.57
Discount Volume Charge (a)	25.93
Groundwater Volume Charge	12.58

Wastewater Surcharge	Charge $/lb
BOD in excess of 250 mg/l	0.391
SS in excess of 350 mg/l	0.406

TY - 1 FY 2023 Effective September 1, 2022

Meter Size inches	Meter Code	General Service Service Charge $/Bill	Discount Service Charge (a) $/Bill
		Ref: Financial Planning Model	
5/8	R	7.50	5.63
3/4	Z	9.57	7.18
1	Q	14.05	10.54
1-1/4	Y	19.77	14.83
1-1/2	P	24.75	18.56
2	X	38.19	28.64
3	O	68.87	51.65
4	W	117.03	87.77
6	N	230.71	173.03
8	V	365.13	273.85
10	E	526.96	395.22
12	T	958.27	718.70
14	H		0.00

Monthly Water Usage	Charge $/Mcf
General Service Volume Charge	34.57
Discount Volume Charge (a)	25.93
Groundwater Volume Charge	12.58

Wastewater Surcharge	Charge $/lb
BOD in excess of 250 mg/l	0.387
SS in excess of 350 mg/l	0.403

TY - 2 FY 2022 Effective September 1, 2021

Meter Size inches	Meter Code	General Service Service Charge $/Bill	Discount Service Charge (a) $/Bill
		Ref: Financial Planning Model	
5/8	R	7.20	5.40
3/4	Z	9.16	6.87
1	Q	13.40	10.05
1-1/4	Y	18.81	14.11
1-1/2	P	23.50	17.63
2	X	36.22	27.17
3	O	65.25	48.94
4	W	110.93	83.20
6	N	218.57	163.93
8	V	345.77	259.33
10	E	499.09	374.32
12	T	906.63	679.97
14	H		0.00

Monthly Water Usage	Charge $/Mcf
General Service Volume Charge	32.61
Discount Volume Charge (a)	24.46
Groundwater Volume Charge	11.91

Wastewater Surcharge	Charge $/lb
BOD in excess of 250 mg/l	0.397
SS in excess of 350 mg/l	0.388

(a) Universities, Colleges, Hospitals, Charities, Board of Education and Senior Citizens are billed at 75% of regular rates.

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
BILLCONS - Projected Accounts, Bills and Consumption	P.N. 135647.0100	January 27, 2023 January 27, 2023 4:07 p.m.					LagRate-3

References: Financial Planning Model (Customer)
Water & Sewer and Water Only Data No Longer Required

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
PBILLERates - Projected Gross Billings Under Existing Rates	P.N. 135647.0100	January 27, 2023 January 27, 2023 4:07 p.m.					LagRate-4

Reference Financial Planning Model - Customer

PROJECTED WASTEWATER BILLINGS UNDER EXISTING RATES

W&S Accounts	2021 Volume Mcf	2022 Volume Mcf	2023 Volume Mcf	2024 Volume Mcf	2025 Volume Mcf	2026 Volume Mcf	2027 Volume Mcf	2028 Volume Mcf	2029 Volume Mcf	2030 Volume Mcf	Test Year 2024
Residential (excluding Senior Citizens)	3,068,002	3,041,815	3,057,101	3,072,948	3,089,130	3,105,728	3,088,322	3,070,916	3,053,510	3,040,456	3,072,948
Commercial	1,521,003	1,648,977	1,686,269	1,592,292	1,628,134	1,665,019	1,665,019	1,665,019	1,665,019	1,665,019	1,592,292
Industrial	79,792	83,596	68,789	56,628	46,638	38,423	38,423	38,423	38,423	38,423	56,628
Public Utilities	9,268	9,834	10,228	10,608	11,049	10,812	10,812	10,812	10,812	10,812	10,608
Senior Citizens	127,110	123,777	122,006	120,163	118,347	116,557	116,557	116,557	116,557	116,557	120,163
Housing Authority	145,274	154,628	153,741	152,867	151,997	151,131	151,131	151,131	151,131	151,131	152,867
Charities & Schools	112,415	136,828	130,706	124,850	119,245	113,918	113,918	113,918	113,918	113,918	124,850
Hospital/University	93,671	104,226	74,165	52,941	37,979	27,265	27,265	27,265	27,265	27,265	52,941
Hand Billed	377,927	387,193	407,188	427,919	449,408	471,673	471,673	471,673	471,673	471,673	427,919
xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0
Fire Meters	9,989	98	100	100	100	100	100	100	100	100	100
Scheduled (Flat Rate)	38	32	46	62	88	117	117	117	117	117	62
yyyyyyyyyy	0	0	0	0	0	0	0	0	0	0	0
Sewer Only	58,104	64,606	60,516	150,516	150,516	150,516	150,516	150,516	150,516	150,516	150,516
Ground Water	207,434	200,507	211,696	211,696	211,696	211,696	211,696	211,696	211,696	211,696	211,696
Total	5,810,026	5,956,117	5,982,551	5,973,590	6,014,327	6,062,955	6,045,549	6,028,143	6,010,737	5,997,683	5,973,590

W&S Accounts	Billings $	Billings $	Billings $	Billings $	Billings $	Billings $	Billings $	Billings $	Billings $	Billings $	
Residential (excluding Senior Citizens)	133,297,340	136,913,914	144,978,377	147,500,716	148,532,493	149,602,634	149,000,908	148,399,183	147,797,457	147,346,181	147,500,716
Commercial	53,913,357	59,890,692	64,558,581	62,126,169	63,441,318	64,795,922	64,795,922	64,795,922	64,795,922	64,795,922	62,126,169
Industrial	2,729,280	2,943,078	2,601,448	2,210,697	1,864,841	1,580,345	1,580,345	1,580,345	1,580,345	1,580,345	2,210,697
Public Utilities	358,015	393,500	432,769	454,934	474,735	467,370	467,370	467,370	467,370	467,370	454,934
Senior Citizens	4,380,537	4,423,691	4,574,453	4,544,043	4,467,854	4,392,946	4,392,946	4,392,946	4,392,946	4,392,946	4,544,043
Housing Authority	4,944,375	5,387,850	5,647,710	5,675,436	5,638,925	5,602,663	5,602,663	5,602,663	5,602,663	5,602,663	5,675,436
Charities & Schools	3,220,306	3,905,681	3,931,990	3,792,902	3,617,045	3,450,130	3,450,130	3,450,130	3,450,130	3,450,130	3,792,902
Hospital/University	2,302,535	2,634,487	1,977,965	1,426,614	1,021,816	732,219	732,219	732,219	732,219	732,219	1,426,614
Hand Billed	12,047,904	12,758,787	14,160,696	15,042,087	15,781,209	16,547,157	16,547,157	16,547,157	16,547,157	16,547,157	15,042,087
xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0
Fire Meters	312,141	3,162	3,416	3,457	3,457	3,457	3,457	3,457	3,457	3,457	3,457
Scheduled (Flat Rate)	1,608	1,544	2,287	3,043	4,212	5,485	5,485	5,485	5,485	5,485	3,043
yyyyyyyyyy	0	0	0	0	0	0	0	0	0	0	0
Sewer Only	1,840,769	2,114,387	2,094,483	5,230,724	5,230,724	5,230,724	5,230,724	5,230,724	5,230,724	5,230,724	5,230,724
Ground Water Charges	2,875,035	2,469,491	2,633,586	2,663,136	2,663,136	2,663,136	2,663,136	2,663,136	2,663,136	2,663,136	2,663,136
Total	222,223,202	233,840,263	247,597,763	250,673,958	252,741,764	255,074,189	254,472,464	253,870,738	253,269,013	252,817,736	250,673,958

	TY-2 2022	TY-1 2023	TY 2024
Test Year 2024 Total Billings	233,840,263	247,597,763	$250,673,958

Test Year 2024 Total Volume Charge	$243,848,310
Test Year 2024 Total less yyyyyyyyyy Fire Volume Charge	$243,841,913
Test Year 2024 yyyyyyyyyy & Fire Volume Charge	$6,398
Test Year 2024 Total Service Charge	$6,825,648
Test Year 2024 Total less yyyyyyyyyy Service Charge	$6,825,648
Test Year 2024 yyyyyyyyyy Service Charge	$0

File: SCOS23_24_ver1.xls Philadelphia Water Department (PWD) CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE Test Year 2024 Budget Yr 2023 Ver. 1a
BILLMETER - Historical Accounts by Meter Size & Billed Volu P.N. 135647.0100 January 27, 2023 January 27, 2023 4:07 p.m. LagRate-5

Reference: Financial Planning Model (Btab)
Customer - Wastewater Billed Volume Year 2022

Meter Size inches	Meter Code	Residential Annual Number of Accounts	Residential Annual Consumption Mcf	Commercial Annual Number of Accounts	Commercial Annual Consumption Mcf	Industrial Annual Number of Accounts	Industrial Annual Consumption Mcf	Public Utilities Annual Number of Accounts	Public Utilities Annual Consumption Mcf	Senior Citizens Annual Number of Accounts	Senior Citizens Annual Consumption Mcf	Housing Authority Annual Number of Accounts	Housing Authority Annual Consumption Mcf	Charity and Schools Annual Number of Accounts	Charity and Schools Annual Consumption Mcf	Hospital/University Annual Number of Accounts	Hospital/University Annual Consumption Mcf
5/8	R	421,395		27,919		498		79		22,032		5,255		771		6	
3/4	Z	66		9		0		0		0		0		0		0	
1	Q	9,367		3,388		231		38		11		31		242		22	
1-1/4	Y	0		0		0		0		0		0		0		0	
1-1/2	P	1,091		1,531		81		15		0		191		112		8	
2	X	665		2,174		116		28		0		108		200		15	
3	O	147		910		62		19		0		37		190		35	
4	W	51		553		16		8		0		26		250		28	
6	N	12		197		7		5		0		12		25		16	
8	V	3		49		0		2		0		5		4		3	
10	E	1		18		0		0		0		0		0		2	
12	T	0		0		0		0		0		0		0		0	
14	H		LagRate-4								LagRate-4		LagRate-4		LagRate-4		LagRate-4
		432,798	3,041,815	36,748	1,648,977	1,011	83,596	193	9,834	22,043	123,777	5,665	154,628	1,793	136,828	135	104,226

Meter Size inches	Meter Code	Hand Billed Annual Number of Accounts	Hand Billed Annual Consumption Mcf	xxxxxxxxx Annual Number of Accounts	xxxxxxxxx Annual Consumption Mcf	Fire Meters Annual Number of Accounts	Fire Meters Annual Consumption Mcf	Scheduled (Flat Rate) Annual Number of Accounts	Scheduled (Flat Rate) Annual Consumption Mcf	yyyyyyyyy Annual Number of Accounts	yyyyyyyyy Annual Consumption Mcf	Sewer Only Customers: Sewer Only Sewer Only Accounts	Sewer Only Consumption Mcf	Ground Water Sewer Only Accounts	Ground Water Consumption Mcf	Total Sewer Only Accounts	Total Consumption Mcf
5/8	R	16		0		0		6		0		46				46	
3/4	Z	0		0		0		0		0		1				1	
1	Q	7		0		0		0		0		5		Volume Charge Only		5	
1-1/4	Y	0		0		0		0		0		0				0	
1-1/2	P	8		0		0		0		0		0				0	
2	X	28		0		0		0		0		4				4	
3	O	56		0		0		0		0		0				0	
4	W	56		0		0		0		0		3				3	
6	N	23		0		0		0		0		2				2	
8	V	6		0		0		0		0		1				1	
10	E	4		0		0		0		0		1				1	
12	T	0		0		0		0		0		0				0	
14	H				LagRate-4		LagRate-4				LagRate-4		LagRate-4			0	
		205	387,193	0	0	0	98	6	32	0	0	63	64,606	0	200,507	63	265,112

NOTE: Excludes Water Only Customers and Wastewater Only Customers

File: SCOS23_24_ver1.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2024 | Budget Yr 2023 | Ver. 1a
BILLMETER1 - FY 2024 Bills by Meter Size & Billed Volume | P.N. 135647.0100 | January 27, 2023 January 27, 2023 4:07 p.m. | LagRate-6

Meter Size inches	Meter Code	Residential Annual Number of Bills	Residential Annual Consumption Mcf	Commercial Annual Number of Bills	Commercial Annual Consumption Mcf	Industrial Annual Number of Bills	Industrial Annual Consumption Mcf	Public Utilities Annual Number of Bills	Public Utilities Annual Consumption Mcf	Senior Citizens Annual Number of Bills	Senior Citizens Annual Consumption Mcf	Housing Authority Annual Number of Bills	Housing Authority Annual Consumption Mcf	Charity and Schools Annual Number of Bills	Charity and Schools Annual Consumption Mcf	"6 Cent" Charities Annual Number of Bills	"6 Cent" Charities Annual Consumption Mcf
5/8	R	5,167,161		341,896		5,952		1,041		253,721		61,535		8,262		34	
3/4	Z	809		110		0		0		0		0		0		0	
1	Q	114,863		41,488		2,761		501		127		363		2,593		125	
1-1/4	Y	0		0		0		0		0		0		0		0	
1-1/2	P	13,377		18,748		968		198		0		2,237		1,200		46	
2	X	8,154		26,622		1,386		369		0		1,265		2,143		85	
3	O	1,802		11,143		741		250		0		433		2,036		199	
4	W	625		6,772		191		105		0		304		2,679		159	
6	N	147		2,412		84		66		0		141		268		91	
8	V	37		600		0		26		0		59		43		17	
10	E	12		220		0		0		0		0		0		11	
12	T	0		0		0		0		0		0		0		0	
14	H	0		0		0		0		0		0		0		0	
		LagRate-11	LagRate-4	LagRate-11		LagRate-11		LagRate-11		LagRate-11	LagRate-4	LagRate-11	LagRate-4	LagRate-11	LagRate-4	LagRate-11	LagRate-4
		5,306,988	3,072,948	450,012	1,592,292	12,084	56,628	2,556	10,608	253,848	120,163	66,336	152,867	19,224	124,850	768	52,941

Meter Size inches	Meter Code	Hand Billed Annual Number of Bills	Hand Billed Annual Consumption Mcf	xxxxxxxxxx Annual Number of Bills	xxxxxxxxxx Annual Consumption Mcf	Fire Meters Annual Number of Bills	Fire Meters Annual Consumption Mcf	Scheduled (Flat Rate) Annual Number of Bills	Scheduled (Flat Rate) Annual Consumption Mcf	yyyyyyyyyy Annual Number of Bills	yyyyyyyyyy Annual Consumption Mcf	Sewer Only Customers: Sewer Only Annual Number of Bills	Sewer Only Customers: Sewer Only Annual Consumption Mcf	Sewer Only Customers: Ground Water Annual Number of Bills	Sewer Only Customers: Ground Water Annual Consumption Mcf	Sewer Only Customers: Total Annual Number of Bills	Sewer Only Customers: Total Annual Consumption Mcf
5/8	R	185		0		0		120		0		552		0		552	
3/4	Z	0		0		0		0		0		12		0		12	
1	Q	87		0		0		0		0		60		0		60	
1-1/4	Y	0		0		0		0		0		0		0		0	
1-1/2	P	98		0		0		0		0		0		0		0	
2	X	327		0		0		0		0		48		0		48	
3	O	654		0		0		0		0		0		0		0	
4	W	654		0		0		0		0		36		0		36	
6	N	273		0		0		0		0		24		0		24	
8	V	65		0		0		0		0		12		0		12	
10	E	44		0		0		0		0		12		0		12	
12	T	0		0		0		0		0		0		0		0	
14	H	0		0		0		0		0		0		0		0	
		LagRate-11		LagRate-11	LagRate-4	LagRate-11	LagRate-4	LagRate-11		LagRate-11	LagRate-4	LagRate-11	LagRate-4	LagRate-11			
		2,388	427,919	0	0	0	100	120	62	0	0	756	150,516	0	211,696	756	362,212

NOTE: Excludes Water Only Customers and Wastewater Only Customers

2,640

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
EBILLS - Historical Billings Under Existing Rates	P.N. 135647.0100	January 27, 2023 January 27, 2023 4:07 p.m.					LagRate-7

This page is using billing data and sewer only data from Financial Planning Model - Customer worksheet

Meter Size inches	Meter Code	Residential Service Charge Billings $ LagRate-5 x	Residential Volume Charge Billings $ LagRate-2	Commercial Service Charge Billings $ LagRate-5 x LagRate-2	Commercial Volume Charge Billings $	Industrial Service Charge Billings $ LagRate-5 x LagRate-2	Industrial Volume Charge Billings $	Public Utilities Service Charge Billings $ LagRate-5 x LagRate-2	Public Utilities Volume Charge Billings $	Senior Citizens (b) Service Charge Billings $ LagRate-5 x LagRate-2	Senior Citizens (b) Volume Charge Billings $	Housing Authority (b) Service Charge Billings $ LagRate-5 x LagRate-2	Housing Authority (b) Volume Charge Billings $	"N" Charities (b) Service Charge Billings $ LagRate-5 x LagRate-2	"N" Charities (b) Volume Charge Billings $	"6 Cent" Charities (b) Service Charge Billings $ LagRate-5 x LagRate-2	"6 Cent" Charities (b) Volume Charge Billings $
5/8	R	3,160,461		209,394		3,735		589		124,040		37,442		4,338		34	
3/4	Z	632		86		0		0		0		0		0		0	
1	Q	131,612		47,600		3,246		531		116		414		2,549		232	
1-1/4	Y	0		0		0		0		0		0		0		0	
1-1/2	P	27,001		37,891		2,005		369		0		4,491		2,078		148	
2	X	25,395		83,023		4,430		1,064		0		3,918		5,725		430	
3	O	10,123		62,670		4,270		1,302		0		2,421		9,808		1,808	
4	W	5,968		64,716		1,872		931		0		2,891		21,930		2,458	
6	N	2,768		45,449		1,615		1,148		0		2,630		4,323		2,768	
8	V	1,095		17,891		0		726		0		1,734		1,095		822	
10	E	527		9,485		0		0		0		0		0		790	
12	T	0		0		0		0		0		0		0		0	
14	H	0		0		0		0		0		0		0		0	
		3,365,581	105,155,551	578,205	57,005,135	21,173	2,889,910	6,661	339,965	124,156	3,209,540	55,941	5,078,222	51,846	3,547,953	9,490	2,702,578

Meter Size inches	Meter Code	Hand Billed Service Charge Billings $ LagRate-5 x LagRate-2	Hand Billed Volume Charge Billings $	xxxxxxxxx Service Charge Billings $ LagRate-5 x LagRate-2	xxxxxxxxx Volume Charge Billings $	Fire Meters (b) Service Charge Billings $ LagRate-5 x LagRate-2	Fire Meters (b) Volume Charge Billings $	Scheduled (Flat Rate) (b) Service Charge Billings $ LagRate-5 x LagRate-2	Scheduled (Flat Rate) (b) Volume Charge Billings $	yyyyyyyyy Service Charge Billings $ LagRate-5 x LagRate-2	yyyyyyyyy Volume Charge Billings $	Sewer Only Service Charge Billings $ LagRate-6 x LagRate-2	Sewer Only Volume Charge Billings $	Sewer Only Ground Water Service Charge Billings $ LagRate-6 x LagRate-2	Sewer Only Ground Water Volume Charge Billings $	Total Sewer Only Service Charge Billings $ LagRate-6 x LagRate-2	Total Sewer Only Volume Charge Billings $
5/8	R	119		0		0		45		0							
3/4	Z	0		0		0		0		0							
1	Q	105		0		0		0		0		Volume		Volume		Volume	
1-1/4	Y	0		0		0		0		0		charge only		charge only		charge only	
1-1/2	P	209		0		0		0		0							
2	X	1,072		0		0		0		0							
3	O	3,868		0		0		0		0							
4	W	6,573		0		0		0		0							
6	N	5,399		0		0		0		0							
8	V	2,051		0		0		0		0							
10	E	1,973		0		0		0		0							
12	T	0		0		0		0		0							
14	H	0		0		0		0		0							
		21,369	13,385,269	0	0	0	3,381	45	1,099	0	0	0	2,233,412	0	2,522,374	0	9,164,929

(a) Excludes Senior Citizens
(b) Excludes Water Only and Wastewater Only.

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
BILLTABFTRS - FY 2024 Bill Tab Adjustment Factors	P.N. 135647.0100	January 27, 2023 January 27, 2023 4:07 p.m.					LagRate-7a

This page is using 2024 projected billing data times existing rates.

Meter Size inches	Meter Code	Residential Service Charge Billings $	Residential Volume Charge Billings $	Commercial Service Charge Billings $	Commercial Volume Charge Billings $	Industrial Service Charge Billings $	Industrial Volume Charge Billings $	Public Utilities Service Charge Billings $	Public Utilities Volume Charge Billings $	Senior Citizens (b) Service Charge Billings $	Senior Citizens (b) Volume Charge Billings $	Housing Authority (b) Service Charge Billings $	Housing Authority (b) Volume Charge Billings $	"N" Charities (b) Service Charge Billings $	"N" Charities (b) Volume Charge Billings $	"6 Cent" Charities (b) Service Charge Billings $	"6 Cent" Charities (b) Volume Charge Billings $
		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2	
5/8	R	38,753,705		2,564,220		44,643		7,806		1,428,451		438,437		46,514		192	
3/4	Z	7,744		1,055		0		0		0		0		0		0	
1	Q	1,613,831		582,906		38,793		7,034		1,335		4,845		27,332		1,319	
1-1/4	Y	0		0		0		0		0		0		0		0	
1-1/2	P	331,081		464,012		23,962		4,891		0		52,587		22,275		845	
2	X	311,391		1,016,688		52,950		14,089		0		45,882		61,380		2,444	
3	O	124,132		767,450		51,037		17,240		0		28,347		105,159		10,284	
4	W	73,182		792,503		22,381		12,335		0		33,849		235,130		13,981	
6	N	33,946		556,559		19,303		15,198		0		30,798		46,354		15,750	
8	V	13,431		219,090		0		9,621		0		20,309		11,738		4,674	
10	E	6,461		116,153		0		0		0		0		0		4,497	
12	T	0		0		0		0		0		0		0		0	
14	H	0		0		0		0		0		0		0		0	
		41,268,903	106,231,812	7,080,634	55,045,534	253,068	1,957,630	88,216	366,719	1,429,786	3,115,827	655,054	5,020,382	555,881	3,237,361	53,985	1,372,760

Meter Size inches	Meter Code	Hand Billed Service Charge Billings $	Hand Billed Volume Charge Billings $	xxxxxxxxxx Service Charge Billings $	xxxxxxxxxx Volume Charge Billings $	Fire Meters (b) Service Charge Billings $	Fire Meters (b) Volume Charge Billings $	Scheduled (Flat Rate) (b) Service Charge Billings $	Scheduled (Flat Rate) (b) Volume Charge Billings $	yyyyyyyyyy Service Charge Billings $	yyyyyyyyyy Volume Charge Billings $	Sewer Only Service Charge Billings $	Sewer Only Volume Charge Billings $	Sewer Only Ground Water Service Charge Billings $	Sewer Only Ground Water Volume Charge Billings $	Total Sewer Only Service Charge Billings $	Total Sewer Only Volume Charge Billings $
		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2		LagRate-6 x LagRate-2	
5/8	R	1,390		0				900		0							
3/4	Z	0		0				0		0							
1	Q	1,226		0		Volume		0		0		Volume		Volume		Volume	
1-1/4	Y	0		0		charge only		0		0		charge only		charge only		charge only	
1-1/2	P	2,429		0				0		0							
2	X	12,493		0				0		0							
3	O	45,058		0				0		0							
4	W	76,566		0				0		0							
6	N	62,892		0				0		0							
8	V	23,889		0				0		0							
10	E	22,984		0				0		0							
12	T	0		0				0		0							
14	H	0		0				0		0							
		248,927	14,793,160	0	0	0	3,457	900	2,143	0	0	0	5,203,338	0	2,663,136	0	12,521,669

Recap of FY 2022 Billings		
Service Charges	LagRate-7	
Total	$3,607,059	2.7%
Total less yyyyyyyyyy	$3,607,059	2.7%
yyyyyyyyyy	$0	0.0%
Volume Charge		
Total	$128,863,253	97.3%
Total less yyyyyyyyyy & Fir	$128,859,872	97.3%
yyyyyyyyyy & Fire	$3,381	0.0%

(a) Excludes Senior Citizens
(b) Excludes Water Only and Wastewater Only.

Bill Tab Correction Factors Based on Billings Under Existing Rates

	(1) FY 2024 Calculated Billngs Amount $ Above	(2) Unit Billings $/Mcf (1) / LagRate-6	(3) FY 2024 Projected Billings from Fin Plan Amount $ LagRate-4	(4) Unit Billings $/Mcf (3) / LagRate-4	(5) Bill Tab Adjustment Factors (4)/(2)
Residential (excluding Senior Citizens)	147,500,716	47.9997	147,500,716	47.9997	100.00%
Commercial	62,126,169	39.0168	62,126,169	39.0168	100.00%
Industrial	2,210,697	39.0389	2,210,697	39.0389	100.00%
Public Utilities	454,934	42.8859	454,934	42.8859	100.00%
Senior Citizens	4,545,613	37.8287	4,544,043	37.8157	99.97%
Housing Authority	5,675,436	37.1266	5,675,436	37.1266	100.00%
Charity and Schools	3,793,241	30.3824	3,792,902	30.3797	99.99%
Hospitals & Universities	1,426,745	26.9497	1,426,614	26.9472	99.99%
Charities Weighted Average		29.4442		29.4415	99.99%
Hand Billed	15,042,087	35.1517	15,042,087	35.1517	100.00%
xxxxxxxxxx	0	0.0000	0	0.0000	0.00%
Fire Meters	3,457	34.5700	3,457	34.5700	100.00%
Scheduled (Flat Rate)	3,043	49.0861	3,043	49.0861	100.00%
yyyyyyyyyy	0	0.0000	0	0.0000	0.00%
Sewer Only	5,203,338	34.5700	5,230,724	34.7519	100.53%
Ground Water Charges	2,663,136	12.5800	2,663,136	12.5800	100.00%
Total	250,648,612		250,673,958		100.01%

File: SCOS23_24_ver1.xls | **Philadelphia Water Department (PWD)** | **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE** | **Test Year 2024** | **Budget Yr 2023** | **Ver. 1a**
EUNITCHRGS - Unit Charges Under Existing Rates | **P.N. 135647.0100** | **January 27, 2023 January 27, 2023 4:07 p.m.** | **LagRate-8**

References:
A. LagRate-5
B. LagRate-6
C. LagRate-7

	Unit Volume Charge $/Mcf Ref. C / Ref. A	Unit Service Charge $/Bill Ref. C / Ref. A	Total Unit Charge $/Mcf Ref. C / Ref. A	Bill Tab Adjustment Factors	Billed Volume Mcf LagRate-3	FY 2024 Test Year "Water and Sewer" Volume Charge Billings $	Bills LagRate-3	Service Charge Billings $	Total Billings $	Consumption Percent W&S of W&S and Water Only %	Water and Sewer Billings (Excluding Water Only): Percent W&S of W&S and W Only No. of Bills FY 2024 Test Year %	Volume Charge Billings $	Service Charge Billings $	Total Billings $	FY 2024 Test Year W&S Billings Divided by W&S and W Only Billings %
Residential (Excluding Senior Citizens)	34.5700	7.7763	35.6760	100.00%	3,072,948	106,231,812	5,306,988	41,268,731	147,500,543	100.00%	100.00%	106,231,812	41,268,731	147,500,543	100.00%
Commercial	34.5700	15.7343	34.9210	100.00%	1,592,292	55,045,534	450,012	7,080,624	62,126,158	100.00%	100.00%	55,045,534	7,080,624	62,126,158	100.00%
Industrial	34.5700	20.9424	34.8230	100.00%	56,628	1,957,630	12,084	253,068	2,210,698	100.00%	100.00%	1,957,630	253,068	2,210,698	100.00%
Public Utilities	34.5700	34.5131	35.2470	100.00%	10,608	366,719	2,556	88,215	454,934	100.00%	100.00%	366,719	88,215	454,934	100.00%
Senior Citizens	25.9300	5.6325	26.9330	99.97%	120,163	3,114,751	253,848	1,429,305	4,544,056	100.00%	100.00%	3,114,751	1,429,305	4,544,056	100.00%
Housing Authority	32.8415	9.8748	33.2030	100.00%	152,867	5,020,382	66,336	655,055	5,675,436	100.00%	100.00%	5,020,382	655,055	5,675,436	100.00%
Charities & Schools ("N" Charities)	25.9300	28.9160	26.3090	99.99%	124,850	3,237,071	19,224	555,831	3,792,902	100.00%	100.00%	3,237,071	555,831	3,792,902	100.00%
Hospitals & Universities ("6 Cent" Charities)	25.9300	70.2927	26.0210	99.99%	52,941	1,372,634	768	53,980	1,426,613	100.00%	100.00%	1,372,634	53,980	1,426,613	100.00%
Hand Billed	34.5700	104.2407	34.6250	100.00%	427,919	14,793,160	2,388	248,927	15,042,087	100.00%	100.00%	14,793,160	248,927	15,042,087	100.00%
xxxxxxxxxx	0.0000	0.0000	0.0000	0.00%	0	0	0	0	0	100.00%	100.00%	0	0	0	NA
Fire Meters	34.5700	0.0000	34.5700	100.00%	100	3,457	0	0	3,457	100.00%	100.00%	3,457	0	3,457	100.00%
Scheduled (Flat Rate)	34.5700	7.5000	35.9850	100.00%	62	2,143	120	900	3,043	100.00%	100.00%	2,143	900	3,043	100.00%
yyyyyyyyyy	0.0000	0.0000	0.0000	0.00%	0	0	0	0	0	100.00%	100.00%	0	0	0	NA
Sewer Only - Ref. B	34.5700	0.0000	34.5700	100.53%	150,516	5,230,724	756	0	5,230,724	100.00%	100.00%	5,230,724	0	5,230,724	100.00%
Ground Water - Ref. B	12.5800	0.0000	12.5800	100.00%	211,696	2,663,136	60	0	2,663,136	100.00%	100.00%	2,663,136	0	2,663,136	100.00%
Total					5,973,590	199,039,153	6,115,140	51,634,636	250,673,789			199,039,153	51,634,636	250,673,789	100.00%
Total less yyyyyyyyyy								51,634,636				199,039,153	51,634,636	250,673,789	
Total less yyyyyyyyyy and Fire						199,035,696						199,035,696	51,634,636	250,670,332	

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
PBILLS - Billings Under COS Rates	P.N. 135647.0100	January 27, 2023 January 27, 2023 4:07 p.m.					LagRate-9

This page uses FY 2024 billing data times COS rates.
Volume charges do not reflect billing delay

Meter Size inches	Meter Code	Residential Service Charge Billings $ LagRate-6 x	Residential Volume Charge Billings $ LagRate-2	Commercial Service Charge Billings $ LagRate-6 x LagRate-2	Commercial Volume Charge Billings $	Industrial Service Charge Billings $ LagRate-6 x LagRate-2	Industrial Volume Charge Billings $	Public Utilities Service Charge Billings $ LagRate-6 x LagRate-2	Public Utilities Volume Charge Billings $	Senior Citizens (b) Service Charge Billings $ LagRate-6 x LagRate-2	Senior Citizens (b) Volume Charge Billings $	Housing Authority (b) Service Charge Billings $ LagRate-6 x LagRate-2	Housing Authority (b) Volume Charge Billings $	"N" Charities (b) Service Charge Billings $ LagRate-6 x LagRate-2	"N" Charities (b) Volume Charge Billings $	"6 Cent" Charities (b) Service Charge Billings $ LagRate-6 x LagRate-2	"6 Cent" Charities (b) Volume Charge Billings $
5/8	R	37,100,214		2,454,813		42,738		7,473		1,367,558		419,730		44,531		184	
3/4	Z	7,413		1,010		0		0		0		0		0		0	
1	Q	1,542,615		557,183		37,081		6,724		1,276		4,631		26,114		1,260	
1-1/4	Y	0		0		0		0		0		0		0		0	
1-1/2	P	315,965		442,827		22,868		4,668		0		50,186		21,267		806	
2	X	297,040		969,834		50,510		13,439		0		43,768		58,551		2,331	
3	O	118,400		732,014		48,680		16,444		0		27,038		100,313		9,810	
4	W	69,805		755,935		21,348		11,766		0		32,287		224,280		13,336	
6	N	32,374		530,795		18,409		14,495		0		29,372		44,208		15,020	
8	V	12,807		208,913		0		9,174		0		19,366		11,193		4,457	
10	E	6,161		110,763		0		0		0		0		0		4,288	
12	T	0		0		0		0		0		0		0		0	
14	H	0		0		0		0		0		0		0		0	
		39,502,795	115,911,599	6,764,086	60,061,254	241,634	2,136,008	84,184	400,134	1,368,834	3,399,411	626,379	5,477,836	530,456	3,532,007	51,493	1,497,701

Meter Size inches	Meter Code	Hand Billed Service Charge Billings $ LagRate-6 x LagRate-2	Hand Billed Volume Charge Billings $	xxxxxxxxx Service Charge Billings $ LagRate-6 x LagRate-2	xxxxxxxxx Volume Charge Billings $	Fire Meters (b) Service Charge Billings $ LagRate-6 x LagRate-2	Fire Meters (b) Volume Charge Billings $	Scheduled (Flat Rate) (b) Service Charge Billings $ LagRate-6 x LagRate-2	Scheduled (Flat Rate) (b) Volume Charge Billings $	yyyyyyyyy Service Charge Billings $ LagRate-6 x LagRate-2	yyyyyyyyy Volume Charge Billings $	Sewer Only Service Charge Billings $ LagRate-6 x LagRate-2	Sewer Only Volume Charge Billings $	Sewer Only Ground Water Service Charge Billings $ LagRate-6 x LagRate-2	Sewer Only Ground Water Volume Charge Billings $	Total Sewer Only Service Charge Billings $ LagRate-6 x LagRate-2	Total Sewer Only Volume Charge Billings $
5/8	R	1,331		0				862		0							
3/4	Z	0		0				0		0							
1	Q	1,172		0				0		0							
1-1/4	Y	0		0				0		0							
1-1/2	P	2,318		0		Volume		0		0		Volume		Volume		Volume	
2	X	11,917		0		charge only		0		0		charge only		charge only		charge only	
3	O	42,977		0				0		0							
4	W	73,034		0				0		0							
6	N	59,981		0				0		0							
8	V	22,779		0				0		0							
10	E	21,918		0				0		0							
12	T	0		0				0		0							
14	H	0		0				0		0							
		237,426	16,141,105	0	0	0	3,772	862	2,339	0	0	0	5,677,464	0	2,796,504	0	8,473,968

(a) Excludes Senior Citizens
(b) Excludes Water Only and Wastewater Only.

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
PUNITCHRGS - Unit Charges Under COS Rates	P.N. 135647.0100	January 27, 2023 January 27, 2023 4:07 p.m.					LagRate-10

References: A. LagRate-6
B. LagRate-9

	FY 2024 Billing Data Applied to COS Rates			FY 2024 Units Billings Under	
	Unit Volume Charge $/Mcf Ref. B / Ref. A	Unit Service Charge $/Bill Ref. B / Ref. A	Total Unit Charge $/Mcf Ref. B / Ref. A	Existing Rates $/Mcf LagRate-7a	Percent Change
Residential (Excluding Senior Citizens) (a)	37.7200	7.4435	50.5750	47.9997	5.37%
Commercial	37.7200	15.0309	41.9680	39.0168	7.56%
Industrial	37.7200	19.9962	41.9870	39.0389	7.55%
Public Utilities	37.7200	32.9358	45.6560	42.8859	6.46%
Senior Citizens (a)	28.2900	5.3923	39.6810	37.8287	4.90%
Housing Authority (a)	35.8340	9.4425	39.9320	37.1266	7.56%
Charities & Schools (a)	28.2900	27.5934	32.5390	30.3824	7.10%
Hospitals & University (a)	28.2900	67.0483	29.2630	26.9497	8.58%
Hand Billed	37.7200	99.4246	38.2750	35.1517	8.89%
xxxxxxxxxx	0.0000	0.0000	0.0000	0.0000	0.00%
Fire Meters (a)	37.7200	0.0000	37.7200	34.5700	9.11%
Scheduled (Flat Rate) (a)	37.7200	7.1800	51.6170	49.0861	5.16%
yyyyyyyyyy	0.0000	0.0000	0.0000	0.0000	0.00%
Sewer Only - Ref. B	37.7200	0.0000	37.7200	34.5700	9.11%
Ground Water - Ref. B	13.2100	0.0000	13.2100	12.5800	5.01%

(a) Excludes Water Only and Wastewater Only; i.e., includes W&S.

File: SCOS23_24_ver1.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2024 | Budget Yr 2023 | Ver. 1a
PBILLPRates - Projected Billings Under COS Rates | P.N. 135647.0100 | January 27, 2023 January 27, 2023 4:07 p.m. | LagRate-11

References: A. Volume multiplied by Unit Volume Charge (LagRate-10).
B. Bills multiplied by Unit Service Charge (LagRate-10).
C. Volume multiplied by Total Unit Charge (LagRate-10).

		Residential	Commercial	Industrial	Public Utilities	Senior Citizens	Housing Authority	Charities & Schools	Hospitals & Universities	Hand Billed	xxxxxxxxxx	Fire Meters	Scheduled (Flat Rate)	yyyyyyyyy	Sewer Only	Groundwater	Total
Unit Volume Charge - $/Mcf	LagRate-10	37.7200	37.7200	37.7200	37.7200	28.2900	35.8340	28.2900	28.2900	37.7200	0.0000	37.7200	37.7200	0.0000	37.7200	13.2100	
Unit Service Charge - $/Mcf	LagRate-10	7.4435	15.0309	19.9962	32.9358	5.3923	9.4425	27.5934	67.0483	99.4246	0.0000	0.0000	7.1800	0.0000	0.0000	0	
Total Unit Charge - $/Mcf	LagRate-10	50.5750	41.9680	41.9870	45.6560	39.6810	39.9320	32.5390	29.2630	38	0.0000	37.7200	51.6170	0.0000	37.7200	13.2100	
2023																	
W&S Billed Volume - Mcf	LagRate-4	3,057,101	1,686,269	68,789	10,228	122,006	153,741	130,706	74,165	407,188	0	100	46	0	60,516	211,696	5,982,551
Volume Charge Billings - $	Ref. A	115,313,850	63,606,067	2,594,721	385,800	3,451,550	5,509,155	3,697,673	2,098,128	15,359,131	0	3,772	1,735	0	2,282,664	2,796,504	217,100,749
Bills W&S		5,249,028	445,392	12,108	2,436	259,128	67,152	20,340	1,116	2,424	0	0	96	0	756	60	6,060,036
Service Charge Billings - $	Ref. B	39,071,140	6,694,643	242,114	80,232	1,397,296	634,083	561,250	74,826	241,005	0	0	689	0	0	0	48,997,277
Total Billings - $		154,384,990	70,300,709	2,836,835	466,032	4,848,846	6,143,238	4,258,922	2,172,954	15,600,137	0	3,772	2,424	0	2,282,664	2,796,504	266,098,026
Alternate Total Billings - $	Ref. C	154,612,883	70,769,337	2,888,244	466,970	4,841,320	6,139,186	4,253,043	2,170,290	15,585,121	0	3,772	2,374	0	2,282,664	2,796,504	266,811,707
2024																	
W&S Billed Volume - Mcf	LagRate-4	3,072,948	1,592,292	56,628	10,608	120,163	152,867	124,850	52,941	427,919	0	100	62	0	150,516	211,696	5,973,590
Volume Charge Billings - $	Ref. A	115,911,599	60,061,254	2,136,008	400,134	3,399,411	5,477,836	3,532,007	1,497,701	16,141,105	0	3,772	2,339	0	5,677,464	2,796,504	217,037,132
Bills W&S		5,306,988	450,012	12,084	2,556	253,848	66,336	19,224	768	2,388	0	0	120	0	756	60	6,115,140
Service Charge Billings - $	Ref. B	39,502,565	6,764,085	241,634	84,184	1,368,825	626,378	530,456	51,493	237,426	0	0	862	0	0	0	49,407,907
Total Billings - $		155,414,164	66,825,340	2,377,642	484,318	4,768,236	6,104,214	4,062,462	1,549,194	16,378,531	0	3,772	3,200	0	5,677,464	2,796,504	266,445,039
Alternate Total Billings - $	Ref. C	155,414,345	66,825,311	2,377,640	484,319	4,768,188	6,104,285	4,062,494	1,549,212	16,378,600	0	3,772	3,200	0	5,677,464	2,796,504	266,445,334
2025																	
W&S Billed Volume - Mcf	LagRate-4	3,089,130	1,628,134	46,638	11,049	118,347	151,997	119,245	37,979	449,408	0	100	88	0	150,516	211,696	6,014,327
Volume Charge Billings - $	Ref. A	116,521,984	61,413,214	1,759,185	416,768	3,348,037	5,446,660	3,373,441	1,074,426	16,951,670	0	3,772	3,319	0	5,677,464	2,796,504	218,786,445
Bills W&S		5,367,732	454,848	12,060	2,688	248,676	65,532	18,168	528	2,352	0	0	156	0	756	60	6,173,556
Service Charge Billings - $	Ref. B	39,954,713	6,836,775	241,154	88,531	1,340,936	618,786	501,317	35,402	233,847	0	0	1,120	0	0	0	49,852,580
Total Billings - $		156,476,697	68,249,989	2,000,340	505,300	4,688,972	6,065,446	3,874,758	1,109,827	17,185,516	0	3,772	4,439	0	5,677,464	2,796,504	268,639,025
Alternate Total Billings - $	Ref. C	156,232,750	68,329,528	1,958,190	504,453	4,696,127	6,069,544	3,880,113	1,111,379	17,201,091	0	3,772	4,542	0	5,677,464	2,796,504	268,465,458
2026																	
W&S Billed Volume - Mcf	LagRate-4	3,105,728	1,665,019	38,423	10,812	116,557	151,131	113,918	27,265	471,673	0	100	117	0	150,516	211,696	6,062,955
Volume Charge Billings - $	Ref. A	117,148,060	62,804,517	1,449,316	407,829	3,297,398	5,415,628	3,222,740	771,327	17,791,506	0	3,772	4,413	0	5,677,464	2,796,504	220,790,472
Bills W&S		5,431,560	459,900	12,036	2,712	243,612	64,740	17,172	360	2,316	0	0	192	0	756	60	6,235,416
Service Charge Billings - $	Ref. B	40,429,817	6,912,711	240,674	89,322	1,313,629	611,307	473,834	24,137	230,267	0	0	1,379	0	0	0	50,327,078
Total Billings - $		157,577,877	69,717,228	1,689,990	497,151	4,611,027	6,026,936	3,696,574	795,464	18,021,773	0	3,772	5,792	0	5,677,464	2,796,504	271,117,550
Alternate Total Billings - $	Ref. C	157,072,194	69,877,517	1,613,267	493,633	4,625,098	6,034,963	3,706,778	797,856	18,053,284	0	3,772	6,039	0	5,677,464	2,796,504	270,758,368
2027																	
W&S Billed Volume - Mcf	LagRate-4	3,088,322	1,665,019	38,423	10,812	116,557	151,131	113,918	27,265	471,673	0	100	117	0	150,516	211,696	6,045,549
Volume Charge Billings - $	Ref. A	116,491,506	62,804,517	1,449,316	407,829	3,297,398	5,415,628	3,222,740	771,327	17,791,506	0	3,772	4,413	0	5,677,464	2,796,504	220,133,918
Bills W&S		5,431,560	459,900	12,036	2,712	243,612	64,740	17,172	360	2,316	0	0	192	0	756	60	6,235,416
Service Charge Billings - $	Ref. B	40,429,817	6,912,711	240,674	89,322	1,313,629	611,307	473,834	24,137	230,267	0	0	1,379	0	0	0	50,327,078
Total Billings - $		156,921,323	69,717,228	1,689,990	497,151	4,611,027	6,026,936	3,696,574	795,464	18,021,773	0	3,772	5,792	0	5,677,464	2,796,504	270,460,996
Alternate Total Billings - $	Ref. C	156,191,885	69,877,517	1,613,267	493,633	4,625,098	6,034,963	3,706,778	797,856	18,053,284	0	3,772	6,039	0	5,677,464	2,796,504	269,878,060
2028																	
W&S Billed Volume - Mcf	LagRate-4	3,070,916	1,665,019	38,423	10,812	116,557	151,131	113,918	27,265	471,673	0	100	117	0	150,516	211,696	6,028,143
Volume Charge Billings - $	Ref. A	115,834,952	62,804,517	1,449,316	407,829	3,297,398	5,415,628	3,222,740	771,327	17,791,506	0	3,772	4,413	0	5,677,464	2,796,504	219,477,364
Bills W&S		5,431,560	459,900	12,036	2,712	243,612	64,740	17,172	360	2,316	0	0	192	0	756	60	6,235,416
Service Charge Billings - $	Ref. B	40,429,817	6,912,711	240,674	89,322	1,313,629	611,307	473,834	24,137	230,267	0	0	1,379	0	0	0	50,327,078
Total Billings - $		156,264,768	69,717,228	1,689,990	497,151	4,611,027	6,026,936	3,696,574	795,464	18,021,773	0	3,772	5,792	0	5,677,464	2,796,504	269,804,441
Alternate Total Billings - $	Ref. C	155,311,577	69,877,517	1,613,267	493,633	4,625,098	6,034,963	3,706,778	797,856	18,053,284	0	3,772	6,039	0	5,677,464	7,985,173	274,186,420
2029																	
W&S Billed Volume - Mcf	LagRate-4	3,053,510	1,665,019	38,423	10,812	116,557	151,131	113,918	27,265	471,673	0	100	117	0	150,516	211,696	6,010,737
Volume Charge Billings - $	Ref. A	115,178,397	62,804,517	1,449,316	407,829	3,297,398	5,415,628	3,222,740	771,327	17,791,506	0	3,772	4,413	0	5,677,464	2,796,504	218,820,809
Bills W&S		5,431,560	459,900	12,036	2,712	243,612	64,740	17,172	360	2,316	0	0	192	0	756	60	6,235,416
Service Charge Billings - $	Ref. B	40,429,817	6,912,711	240,674	89,322	1,313,629	611,307	473,834	24,137	230,267	0	0	1,379	0	0	0	50,327,078
Total Billings - $		155,608,214	69,717,228	1,689,990	497,151	4,611,027	6,026,936	3,696,574	795,464	18,021,773	0	3,772	5,792	0	5,677,464	2,796,504	269,147,887
Alternate Total Billings - $	Ref. C	154,431,268	69,877,517	1,613,267	493,633	4,625,098	6,034,963	3,706,778	797,856	18,053,284	0	3,772	6,039	0	5,677,464	2,796,504	268,117,443
2030																	
W&S Billed Volume - Mcf	LagRate-4	3,040,456	1,665,019	38,423	10,812	116,557	151,131	113,918	27,265	471,673	0	100	117	0	150,516	211,696	5,997,683
Volume Charge Billings - $	Ref. A	114,686,000	62,804,517	1,449,316	407,829	3,297,398	5,415,628	3,222,740	771,327	17,791,506	0	3,772	4,413	0	5,677,464	2,796,504	218,328,413
Bills W&S		5,431,560	459,900	12,036	2,712	243,612	64,740	17,172	360	2,316	0	0	192	0	756	60	6,235,416
Service Charge Billings - $	Ref. B	40,429,817	6,912,711	240,674	89,322	1,313,629	611,307	473,834	24,137	230,267	0	0	1,379	0	0	0	50,327,078
Total Billings - $		155,115,817	69,717,228	1,689,990	497,151	4,611,027	6,026,936	3,696,574	795,464	18,021,773	0	3,772	5,792	0	5,677,464	2,796,504	268,655,490
Alternate Total Billings - $	Ref. C	153,771,062	69,877,517	1,613,267	493,633	4,625,098	6,034,963	3,706,778	797,856	18,053,284	0	3,772	6,039	0	5,677,464	2,796,504	267,457,237

(a) Included with General Service.

File: SCOS23_24_ver1.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2024 | Budget Yr 2023 | Ver. 1a
PBILLSUM - Summary of Projected Billings Under COS Rates | P.N. 135647.0100 | January 27, 2023 January 27, 2023 4:07 p.m. | LagRate-12
Reference: LagRate-11

Service Charge Billings

	Projected Billing Under COS Rates **Before** Adjusting for Bill Tab Correction Factors								Bill Tab Correction Factors LagRate-7a	Projected Billing Under COS Rates **After** Adjusting for Bill Tab Correction Factors								Test Year
	2023	2024	2025	2026	2027	2028	2029	2030		2023	2024	2025	2026	2027	2028	2029	2030	2024
Residential	39,071,140	39,502,565	39,954,713	40,429,817	40,429,817	40,429,817	40,429,817	40,429,817	100.00%	39,071,140	39,502,565	39,954,713	40,429,817	40,429,817	40,429,817	40,429,817	40,429,817	39,502,565
Commercial	6,694,643	6,764,085	6,836,775	6,912,711	6,912,711	6,912,711	6,912,711	6,912,711	100.00%	6,694,643	6,764,085	6,836,775	6,912,711	6,912,711	6,912,711	6,912,711	6,912,711	6,764,085
Industrial	242,114	241,634	241,154	240,674	240,674	240,674	240,674	240,674	100.00%	242,114	241,634	241,154	240,674	240,674	240,674	240,674	240,674	241,634
Public Utilities	80,232	84,184	88,531	89,322	89,322	89,322	89,322	89,322	100.00%	80,232	84,184	88,531	89,322	89,322	89,322	89,322	89,322	84,184
Senior Citizens	1,397,296	1,368,825	1,340,936	1,313,629	1,313,629	1,313,629	1,313,629	1,313,629	99.97%	1,396,814	1,368,352	1,340,473	1,313,175	1,313,175	1,313,175	1,313,175	1,313,175	1,368,352
Subtotal	47,485,424	47,961,293	48,462,109	48,986,153	48,986,153	48,986,153	48,986,153	48,986,153		47,484,942	47,960,821	48,461,646	48,985,699	48,985,699	48,985,699	48,985,699	48,985,699	47,960,821
Housing Authority	634,083	626,378	618,786	611,307	611,307	611,307	611,307	611,307	100.00%	634,083	626,378	618,786	611,307	611,307	611,307	611,307	611,307	626,378
Charities & Schools	561,250	530,456	501,317	473,834	473,834	473,834	473,834	473,834	99.99%	561,200	530,408	501,272	473,791	473,791	473,791	473,791	473,791	530,408
Hospitals & Universities	74,826	51,493	35,402	24,137	24,137	24,137	24,137	24,137	99.99%	74,819	51,488	35,398	24,135	24,135	24,135	24,135	24,135	51,488
Hand Billed	241,005	237,426	233,847	230,267	230,267	230,267	230,267	230,267	100.00%	241,005	237,426	233,847	230,267	230,267	230,267	230,267	230,267	237,426
xxxxxxxxxx	0	0	0	0	0	0	0	0	0.00%	0	0	0	0	0	0	0	0	0
Fire Meters	0	0	0	0	0	0	0	0	100.00%	0	0	0	0	0	0	0	0	0
Scheduled (Flat Rate)	689	862	1,120	1,379	1,379	1,379	1,379	1,379	100.00%	689	862	1,120	1,379	1,379	1,379	1,379	1,379	862
yyyyyyyyyy	0	0	0	0	0	0	0	0	0.00%	0	0	0	0	0	0	0	0	0
Sewer Only	0	0	0	0	0	0	0	0	100.53%	0	0	0	0	0	0	0	0	0
Groundwater	0	0	0	0	0	0	0	0	100.00%	0	0	0	0	0	0	0	0	0
Total	48,997,277	49,407,907	49,852,580	50,327,078	50,327,078	50,327,078	50,327,078	50,327,078		48,996,737	49,407,382	49,852,069	50,326,579	50,326,579	50,326,579	50,326,579	50,326,579	49,407,382
Total Less Fire & yyyyyyyyyy	48,997,277	49,407,907	49,852,580	50,327,078	50,327,078	50,327,078	50,327,078	50,327,078		48,996,737	49,407,382	49,852,069	50,326,579	50,326,579	50,326,579	50,326,579	50,326,579	49,407,382

Volume Charge Billings

	2023	2024	2025	2026	2027	2028	2029	2030		2023	2024	2025	2026	2027	2028	2029	2030	Test Year 2024
Residential	115,313,850	115,911,599	116,521,984	117,148,060	116,491,506	115,834,952	115,178,397	114,686,000	100.00%	115,313,850	115,911,599	116,521,984	117,148,060	116,491,506	115,834,952	115,178,397	114,686,000	115,911,599
Commercial	63,606,067	60,061,254	61,413,214	62,804,517	62,804,517	62,804,517	62,804,517	62,804,517	100.00%	63,606,067	60,061,254	61,413,214	62,804,517	62,804,517	62,804,517	62,804,517	62,804,517	60,061,254
Industrial	2,594,721	2,136,008	1,759,185	1,449,316	1,449,316	1,449,316	1,449,316	1,449,316	100.00%	2,594,721	2,136,008	1,759,185	1,449,316	1,449,316	1,449,316	1,449,316	1,449,316	2,136,008
Public Utilities	385,800	400,134	416,768	407,829	407,829	407,829	407,829	407,829	100.00%	385,800	400,134	416,768	407,829	407,829	407,829	407,829	407,829	400,134
Senior Citizens	3,451,550	3,399,411	3,348,037	3,297,398	3,297,398	3,297,398	3,297,398	3,297,398	99.97%	3,450,358	3,398,238	3,346,881	3,296,259	3,296,259	3,296,259	3,296,259	3,296,259	3,398,238
Subtotal	185,351,987	181,908,406	183,459,188	185,107,119	184,450,564	183,794,010	183,137,456	182,645,059		185,350,796	181,907,232	183,458,032	185,105,980	184,449,426	183,792,872	183,136,317	182,643,920	181,907,232
Housing Authority	5,509,155	5,477,836	5,446,660	5,415,628	5,415,628	5,415,628	5,415,628	5,415,628	100.00%	5,509,155	5,477,836	5,446,660	5,415,628	5,415,628	5,415,628	5,415,628	5,415,628	5,477,836
Charities & Schools	3,697,673	3,532,007	3,373,441	3,222,740	3,222,740	3,222,740	3,222,740	3,222,740	99.99%	3,697,342	3,531,691	3,373,139	3,222,452	3,222,452	3,222,452	3,222,452	3,222,452	3,531,691
Hospitals & Universities	2,098,128	1,497,701	1,074,426	771,327	771,327	771,327	771,327	771,327	99.99%	2,097,935	1,497,563	1,074,327	771,256	771,256	771,256	771,256	771,256	1,497,563
Hand Billed	15,359,131	16,141,105	16,951,670	17,791,506	17,791,506	17,791,506	17,791,506	17,791,506	100.00%	15,359,131	16,141,105	16,951,670	17,791,506	17,791,506	17,791,506	17,791,506	17,791,506	16,141,105
xxxxxxxxxx	0	0	0	0	0	0	0	0	0.00%	0	0	0	0	0	0	0	0	0
Fire Meters	3,772	3,772	3,772	3,772	3,772	3,772	3,772	3,772	100.00%	3,772	3,772	3,772	3,772	3,772	3,772	3,772	3,772	3,772
Scheduled (Flat Rate)	1,735	2,339	3,319	4,413	4,413	4,413	4,413	4,413	100.00%	1,735	2,339	3,319	4,413	4,413	4,413	4,413	4,413	2,339
yyyyyyyyyy	0	0	0	0	0	0	0	0	0.00%	0	0	0	0	0	0	0	0	0
Sewer Only	2,282,664	5,677,464	5,677,464	5,677,464	5,677,464	5,677,464	5,677,464	5,677,464	100.53%	2,294,678	5,707,345	5,707,345	5,707,345	5,707,345	5,707,345	5,707,345	5,707,345	5,707,345
Groundwater	2,796,504	2,796,504	2,796,504	2,796,504	2,796,504	2,796,504	2,796,504	2,796,504	100.00%	2,796,504	2,796,504	2,796,504	2,796,504	2,796,504	2,796,504	2,796,504	2,796,504	2,796,504
Total	217,100,749	217,037,132	218,786,445	220,790,472	220,133,918	219,477,364	218,820,809	218,328,413		217,111,048	217,065,387	218,814,770	220,818,856	220,162,302	219,505,748	218,849,193	218,356,796	217,065,387
Total Less yyyyyyyyyy	217,100,749	217,037,132	218,786,445	220,790,472	220,133,918	219,477,364	218,820,809	218,328,413		217,111,048	217,065,387	218,814,770	220,818,856	220,162,302	219,505,748	218,849,193	218,356,796	217,065,387

Total Service Charge and Volume Charge Billings

	2023	2024	2025	2026	2027	2028	2029	2030		2023	2024	2025	2026	2027	2028	2029	2030	Test Year 2024
Residential	154,384,990	155,414,164	156,476,697	157,577,877	156,921,323	156,264,768	155,608,214	155,115,817		154,384,990	155,414,164	156,476,697	157,577,877	156,921,323	156,264,768	155,608,214	155,115,817	155,414,164
Commercial	70,300,709	66,825,340	68,249,989	69,717,228	69,717,228	69,717,228	69,717,228	69,717,228		70,300,709	66,825,340	68,249,989	69,717,228	69,717,228	69,717,228	69,717,228	69,717,228	66,825,340
Industrial	2,836,835	2,377,642	2,000,340	1,689,990	1,689,990	1,689,990	1,689,990	1,689,990		2,836,835	2,377,642	2,000,340	1,689,990	1,689,990	1,689,990	1,689,990	1,689,990	2,377,642
Public Utilities	466,032	484,318	505,300	497,151	497,151	497,151	497,151	497,151		466,032	484,318	505,300	497,151	497,151	497,151	497,151	497,151	484,318
Senior Citizens	4,848,846	4,768,236	4,688,972	4,611,027	4,611,027	4,611,027	4,611,027	4,611,027		4,847,172	4,766,590	4,687,353	4,609,435	4,609,435	4,609,435	4,609,435	4,609,435	4,766,590
Subtotal	232,837,411	229,869,699	231,921,297	234,093,271	233,436,717	232,780,163	232,123,609	231,631,212		232,835,737	229,868,053	231,919,679	234,091,680	233,435,125	232,778,571	232,122,017	231,629,620	229,868,053
Housing Authority	6,143,238	6,104,214	6,065,446	6,026,936	6,026,936	6,026,936	6,026,936	6,026,936		6,143,238	6,104,214	6,065,446	6,026,936	6,026,936	6,026,936	6,026,936	6,026,936	6,104,214
Charities & Schools	4,258,922	4,062,462	3,874,758	3,696,574	3,696,574	3,696,574	3,696,574	3,696,574		4,258,542	4,062,099	3,874,411	3,696,244	3,696,244	3,696,244	3,696,244	3,696,244	4,062,099
Hospitals & Universities	2,172,954	1,549,194	1,109,827	795,464	795,464	795,464	795,464	795,464		2,172,754	1,549,051	1,109,725	795,391	795,391	795,391	795,391	795,391	1,549,051
Hand Billed	15,600,137	16,378,531	17,185,516	18,021,773	18,021,773	18,021,773	18,021,773	18,021,773		15,600,137	16,378,531	17,185,516	18,021,773	18,021,773	18,021,773	18,021,773	18,021,773	16,378,531
xxxxxxxxxx	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Fire Meters	3,772	3,772	3,772	3,772	3,772	3,772	3,772	3,772		3,772	3,772	3,772	3,772	3,772	3,772	3,772	3,772	3,772
Scheduled (Flat Rate)	2,424	3,200	4,439	5,792	5,792	5,792	5,792	5,792		2,424	3,200	4,439	5,792	5,792	5,792	5,792	5,792	3,200
yyyyyyyyyy	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Sewer Only	2,282,664	5,677,464	5,677,464	5,677,464	5,677,464	5,677,464	5,677,464	5,677,464		2,294,678	5,707,345	5,707,345	5,707,345	5,707,345	5,707,345	5,707,345	5,707,345	5,707,345
Groundwater	2,796,504	2,796,504	2,796,504	2,796,504	2,796,504	2,796,504	2,796,504	2,796,504		2,796,504	2,796,504	2,796,504	2,796,504	2,796,504	2,796,504	2,796,504	2,796,504	2,796,504
Total	266,098,026	266,445,039	268,639,025	271,117,550	270,460,996	269,804,441	269,147,887	268,655,490		266,107,785	266,472,769	268,666,839	271,145,436	270,488,881	269,832,327	269,175,773	268,683,376	266,472,769
										100.00%	100.01%	100.01%	100.01%	100.01%	100.01%	100.01%	100.01%	
Total Less Fire & yyyyyyyyyy	266,094,254	266,441,267	268,635,253	271,113,778	270,457,224	269,800,669	269,144,115	268,651,718		266,104,013	266,468,997	268,663,067	271,141,664	270,485,109	269,828,555	269,172,001	268,679,604	
										100.00%	100.01%	100.01%	100.01%	100.01%	100.01%	100.01%	100.01%	
									Financial Planning Model	247,597,763	250,673,958	252,741,764	255,074,189	254,472,464	253,870,738	253,269,013	252,817,736	
									Total divided by above line	107.48%	106.30%	106.30%	106.30%	106.29%	106.29%	106.28%	106.28%	

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
RECPTS - Calculation of Receipts (Under Proposed Rates) Reflecting Lag	P.N. 135647.0100	January 27, 2023 January 27, 2023 4:07 p.m.					LagRate-13

	Proposed Increase	Months Effective	Cumulative Increase 2023 - 2030	Cumulative Increase 2025 - 2030												
REF: Financial Planning Model																
2023	0.00%	10	100.00%													
2024	8.92%	12	108.92%						213,150,000				SW	201,877,000		
2025	8.66%	10	118.35%	108.66%												
2026	12.83%	10	133.54%	122.61%									Prior SS	31,014,000		
2027	7.04%	10	142.94%	131.24%									Surcharge	6,015,000		
2028	7.13%	10	153.13%	140.60%					278,593,000				SS	235,841,000	28,674,000	5,678,000	270,193,000
2029	9.21%	10	167.23%	153.54%										84.7%	10.3%	2.0%	
2030	2.43%	10	171.29%	157.27%												

Gross Billing Adjustment Factor: 0.0%

No Billing Adjustment Factor Used in Financial Planning Model at this time.

Line No.		(1) Number of months at Existing Rate	(2) Number of months at Proposed Rate	(3) Billings (a)	(4) Cumulative Percent Increase (b)	(5) FY 2024 COS Rate Adjustment	(6) FY 2025 COS Rate Adjustment	(7) FY 2026 COS Rate Adjustment	(8) FY 2027 COS Rate Adjustment	(9) Adjusted Billings (c)	(10) Receipts Factor (d) FY 2024	(11) FY 2025	(12) FY 2026	(13) FY 2027	(14) Receipts FY 2024	(15) FY 2025	(16) FY 2026	(17) FY 2027
	SANITARY SEWER CHARGES SERVICE CHARGE			LagRate-8 LagRate-11 LagRate-12		LagRate-14	LagRate-14	LagRate-14	LagRate-14	$	%	%	%	%	$ (6) x (7)	$	$	$
	All classes less yyyyyyyyyy																	
	Existing Rates																	
1	FY 2024	0.0		51,634,636	100.00%					0	84.65	10.29	2.04		0	0	0	
	Adjusted COS Rates Effective July 1, 2023																	
2	FY 2024		12.0	49,407,382	100.00%	105.00%				51,878,000	84.65	10.29	2.04		43,917,000	5,339,000	1,057,000	
3	FY 2025		10.0	49,852,069	108.66%	105.00%	105.10%			49,817,000		84.65	10.29	2.04		42,172,000	5,127,000	1,015,000
4	FY 2026		10.0	50,326,579	122.61%	105.00%	105.10%	#N/A		#N/A			84.65	10.29			#N/A	#N/A
5	FY 2027		10.0	50,326,579	131.24%	105.00%	105.10%	#N/A	0.00%	#N/A				84.65				#N/A
	yyyyyyyyyy																	
	Existing Rates																	
6	FY 2024	0.0		0	100.00%					0	100.00	0.00	0.00		0			
	Adjusted COS Rates Effective July 1, 2023																	
7	FY 2024		12.0	0	100.00%	105.00%				0	100.00	0.00	0.00		0			
8	FY 2025		10.0	0	108.66%	105.00%	105.10%			0		100.00	0.00	0.00		0		
9	FY 2026		10.0	0	122.61%	105.00%	105.10%	#N/A		#N/A			100.00	0.00			#N/A	
10	FY 2027		10.0	0	131.24%	105.00%	105.10%	#N/A	0.00%	#N/A				100.00				#N/A

FY 2026 - FY 2027 Lines and Columns are NOT USED in this analysis.

	VOLUME CHARGE																	
	All classes less yyyyyyyyyy																	
	Existing Rates																	
11	FY 2024	0.5		199,039,153	100.00%					8,293,000	84.65	10.29	2.04		7,020,000	854,000	169,000	
	Adjusted COS Rates Effective July 1, 2023									(j)								
12	FY 2024		11.50	217,065,387	100.00%	105.00%				218,422,000	84.65	10.29	2.04		184,904,000	22,481,000	4,452,000	
13	FY 2025	2.5	9.50	218,814,770	108.66%	105.00%	105.10%			255,593,000		84.65	10.29	2.04		216,371,000	26,307,000	5,210,000
14	FY 2026	2.5	9.50	220,818,856	122.61%	105.00%	105.10%	#N/A		#N/A			84.65	10.29			#N/A	#N/A
15	FY 2027	2.5	9.50	220,162,302	131.24%	105.00%	105.10%	#N/A	0.00%	#N/A				84.65				#N/A
	yyyyyyyyyy																	
	Existing Rates																	
16	FY 2024	0.5		0	100.00%					0	100.00	0.00	0.00		0			
	Adjusted COS Rates Effective July 1, 2023									(j)								
17	FY 2024		11.50	0	100.00%	105.00%				0	100.00	0.00	0.00		0			
18	FY 2025	2.5	9.50	0	108.66%	105.00%	105.10%			0		100.00	0.00	0.00		0		
19	FY 2026	2.5	9.50	0	122.61%	105.00%	105.10%	#N/A		#N/A			100.00	0.00			#N/A	
20	FY 2027	2.5	9.50	0	131.24%	105.00%	105.10%	#N/A	0.00%	#N/A				100.00				#N/A
	SURCHARGE RATES																	
	Existing Rates																	
21	FY 2024	0.0		6,286,000	100.00%					0	84.65	10.29	2.04		0	0	0	
	Adjusted COS Rates Effective July 1, 2023																	
22	FY 2024 (g)		12.0	6,766,839	100.00%	105.00%				7,105,000	84.65	10.29	2.04		6,015,000	731,000	145,000	
23	FY 2025		10.0	6,766,839	108.66%	105.00%	105.10%			6,762,000		84.65	10.29	2.04		5,724,000	696,000	138,000
24	FY 2026		10.0	6,766,839	122.61%	105.00%	105.10%	#N/A		#N/A			84.65	10.29			#N/A	#N/A
25	FY 2027		10.0	6,766,839	131.24%	105.00%	105.10%	#N/A	0.00%	#N/A				84.65				#N/A
				(k)						(i)								
26	FY 2022 Billings (h)			239,923,000	100.00%					239,923,000	2.04				4,890,000			
27	FY 2023 Billings (h)			253,822,000	100.00%					253,822,000	10.29	2.04			26,124,000	5,173,000		
	STORMWATER CHARGES																	
	BILLING & COLLECTION CHARGE																	
	Non SW Only																	
	Existing Rates																	
28	FY 2024	0.0		11,627,193	100.00%					0	84.65	10.29	2.04		0	0	0	
	Adjusted COS Rates Effective July 1, 2023									(j)								
29	FY 2024		12.0	11,506,954	100.00%	105.00%				12,082,000	84.65	10.29	2.04		10,228,000	1,244,000	246,000	
30	FY 2025	2.0	10.0	11,506,932	108.66%	105.00%	105.10%			13,513,000		84.65	10.29	2.04		11,439,000	1,391,000	275,000
31	FY 2026	2.0	10.0	11,506,909	122.61%	105.00%	105.10%	#N/A		#N/A			84.65	10.29			#N/A	#N/A
32	FY 2027	2.0	10.0	11,506,887	131.24%	105.00%	105.10%	#N/A	0.00%	#N/A				84.65				#N/A
	SW Only																	
	Existing Rates																	
33	FY 2024	0.0		1,155,381	100.00%					0	64.20	8.99	7.23		0	0	0	
	Adjusted COS Rates Effective July 1, 2023									(j)								
34	FY 2024		12.0	1,145,508	100.00%	105.00%				1,203,000	64.20	8.99	7.23		772,000	108,000	87,000	
35	FY 2025	2.0	10.0	1,145,319	108.66%	105.00%	105.10%			1,345,000		64.20	8.99	7.23		864,000	121,000	97,000
36	FY 2026	2.0	10.0	1,145,131	122.61%	105.00%	105.10%	#N/A		#N/A			64.20	8.99			#N/A	#N/A
37	FY 2027	2.0	10.0	1,144,942	131.24%	105.00%	105.10%	#N/A	0.00%	#N/A				64.20				#N/A
	xxxxxxxxxx																	
	Existing Rates																	
38	FY 2024	0.0		0	100.00%					0	100.00	0.00	0.00		0			
	Adjusted COS Rates Effective July 1, 2023									(j)								
39	FY 2024		12.0	0	100.00%	105.00%				0	100.00	0.00	0.00		0			
40	FY 2025	2.0	10.0	0	108.66%	105.00%	105.10%			0		100.00	0.00	0.00		0		
41	FY 2026	2.0	10.0	0	122.61%	105.00%	105.10%	#N/A		#N/A			100.00	0.00			#N/A	
42	FY 2027	2.0	10.0	0	131.24%	105.00%	105.10%	#N/A	0.00%	#N/A				100.00				#N/A

FY 2026 - FY 2027 Lines and Columns are NOT USED in this analysis.

PARCEL AREA CHARGE

	Non SW Only																	
	Existing Rates																	
43	FY 2024	0.5		173,877,628	100.00%					7,245,000	84.65	10.29	2.04		6,133,000	746,000	148,000	
	Adjusted COS Rates Effective July 1, 2023									(j)								
44	FY 2024		11.50	175,014,375	100.00%	105.00%				176,108,000	84.65	10.29	2.04		149,083,000	18,126,000	3,589,000	
45	FY 2025	2.5	9.50	174,498,589	108.66%	105.00%	105.10%			203,828,000		84.65	10.29	2.04		172,549,000	20,979,000	4,154,000
46	FY 2026	2.5	9.50	174,073,443	122.61%	105.00%	105.10%	#N/A		#N/A			84.65	10.29			#N/A	#N/A
47	FY 2027	2.5	9.50	173,670,731	131.24%	105.00%	105.10%	#N/A	0.00%	#N/A				84.65				#N/A
	SW Only																	
	Existing Rates																	
48	FY 2024	0.5		15,714,201	100.00%					655,000	64.20	8.99	7.23		421,000	59,000	47,000	
	Adjusted COS Rates Effective July 1, 2023									(j)								
49	FY 2024		11.50	15,758,664	100.00%	105.00%				15,857,000	64.20	8.99	7.23		10,181,000	1,426,000	1,147,000	
50	FY 2025	2.5	9.50	15,668,229	108.66%	105.00%	105.10%			18,302,000		64.20	8.99	7.23		11,751,000	1,646,000	1,323,000
51	FY 2026	2.5	9.50	15,590,345	122.61%	105.00%	105.10%	#N/A		#N/A			64.20	8.99			#N/A	#N/A
52	FY 2027	2.5	9.50	15,514,097	131.24%	105.00%	105.10%	#N/A	0.00%	#N/A				64.20				#N/A
	xxxxxxxxx																	
	Existing Rates																	
53	FY 2024	0.5		0	100.00%					0	100.00	0.00	0.00		0			
	Adjusted COS Rates Effective July 1, 2023									(j)								
54	FY 2024		11.50	0	100.00%	105.00%				0	100.00	0.00	0.00		0			
55	FY 2025	2.5	9.50	0	108.66%	105.00%	105.10%			0		100.00	0.00	0.00		0		
56	FY 2026	2.5	9.50	0	122.61%	105.00%	105.10%	#N/A		#N/A			100.00	0.00			#N/A	
57	FY 2027	2.5	9.50	0	131.24%	105.00%	105.10%	#N/A	0.00%	#N/A				100.00				#N/A
										(i)								
58	FY 2022 Billings - Non SW Only			172,650,932	100.00%					172,650,932	2.04				3,519,000			
59	FY 2023 Billings - Non SW Only			183,507,955	100.00%					183,507,955	10.29	2.04			18,887,000	3,740,000		
60	FY 2022 Billings - SW Only			15,871,478	100.00%					15,871,478	7.23				1,148,000			
61	FY 2023 Billings - SW Only			16,735,832	100.00%					16,735,832	8.99	7.23			1,505,000	1,210,000		
62	Total Receipts														474,747,000	522,107,000	#N/A	#N/A
															FY 2024	FY 2025	FY 2026	FY 2027
													Required Receipts		474,267,794	511,052,859	#N/A	0

(a) Billings under Adjusted COS Rates reflect an adjustment of 0.00%.
(b) Adjusted billings under existing rates should reflect proposed increases in effect prior to the test year. Adjusted billings under COS rates should reflect proposed increases after the test year.
(c) Adjusted service charge billings are equal to the number of months effective times billings times the cumulative percent increase times the COS rate adjustment.
Test year adjusted volume charge billings are equal to the number of months effective times billings times the cumulative percent increase times the COS rate adjustment. For each year after the test year, the adjusted volume charge billing rates time the previous year's billings times the previous year's cumulative percent increase plus the number of months at COS rates times billings times the cumulative percent increase times the COS rate adjustment.
Adjusted billings for FY 2022 and FY 2023 are equal to the billings times the cumulative percent increase times the 0.00% billings adjustment.
(d) Receipts Factor from Financial Planning Model.
(e) Not used.
(f) Not used.

(g)	New Rate	Pounds	Billings
BOD	0.4220	13,842,348	5,841,471
SS	0.4300	2,152,020	925,369
		Total	6,766,839

(h) Adjusted Total Less yyyyyyyyy
(i) Column (3) times (1- BILLADJ) or (1-0.00000).
(j) FY 2025 Adjusted Billings include 9.5 months at FY 2025 rates and 2.5 months at FY 2024 rates; FY 2026 Adjusted Billings include 9.5 months at FY 2026 rates and 2.5 months at FY 2025 rates; and FY 2027 Adjusted Billings include 9.5 months at FY 2027 rates and 2.5 months at FY 2026 rates.

(k)					
	FY 2022 Billings	233,840,263	plus	6,082,395	239,923,000
	FY 2023 Billings	247,597,763	plus	6,224,000	253,822,000

FY 2026 - FY 2027 Lines and Columns are NOT USED in this analysis.

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
TYRECPTS - Test Year Receipts with Lag	P.N. 135647.0100	January 27, 2023 January 27, 2023 4:07 p.m.					LagRate-14

	Percent Increase in Rates Required:	(0.002041)	(0.051364)	#N/A		#N/A	
		0.997959	0.948636	#N/A		#N/A	
	Adjustment Factors ==>	**USE:** 1.050000 (a)	1.051000 (a)	#N/A (a)		(a)	
Reference:		FY 2024	FY 2025	FY 2026		FY 2027	
		$	$	$		$	
LagRate-13	Total Receipts	474,747,000	522,107,000	#N/A		#N/A	
	Requirements:						
	COS	519,198,794	558,584,859	628,532,357			
	Less Wholesale Customers (Including Mgmt Fee)						
LagRate-19	Under Old Rates	LagRate-19a			LagRate-13		
	Under New Rates	(45,931,000)	(48,532,000)	#N/A	* 7.0407%		
	Plus_ CAP	1,000,000	1,000,000	#N/A			
	Total Requirements	474,267,794	511,052,859	#N/A		0	
	Revenue Surplus/(Deficiency)	479,206	11,054,141	#N/A		#N/A	
	Total Increasable Receipts	234,836,000	215,212,921	#N/A		#N/A	
	ADJUSTMENT FACTOR REQUIRED	-0.2041%	-5.1364%	#N/A		#N/A	
		0.10%					
		Test Year FY 2024 Receipts of Test Year FY 2024 Billings	Test Year FY 2025 Receipts of Test Year FY 2025 Billings	Test Year FY 2026 Receipts of Test Year FY 2026 Billings		Test Year FY 2027 Receipts of Test Year FY 2027 Billings	
		$	$	$		$	
	General Customers						
LagRate-13	Service Charge	43,917,000	42,172,000	#N/A		#N/A	
LagRate-13	Volume Charge	191,924,000	216,371,000	#N/A		#N/A	
	Total General Customers	235,841,000	258,543,000	#N/A		#N/A	
	yyyyyyyyyy						
LagRate-13	Service Charge	0	0	#N/A		#N/A	
LagRate-13	Volume Charge	0	0	#N/A		#N/A	
	Total yyyyyyyyyy	0	0	#N/A		#N/A	
LagRate-13	Surcharge	6,015,000	5,724,000	#N/A	NOT IN USE	#N/A	
	Total	241,856,000	264,267,000	#N/A		#N/A	

(a) This factor is determined by trial and error until the ADJUSTMENT FACTOR REQUIRED below becomes zero. Keep multiplying this factor by the factor in the highlighted cell above until the ADJUSTMENT FACTOR REQUIRED is as close to zero as possible.

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
ADJCOS - Modified COS Rates to Account for Lag	P.N. 135647.0100	January 27, 2023 January 27, 2023 4:07 p.m.					LagRate-15

(1)	(2)	(3)	(4)	(5)				
Meter Size inches	Meter Code	Lag Factor % LagRate-14	General Service Service Charge $/Bill LagRate-2 x Col. (3)	Discount Service Charge (a) $/Bill Col. (4) x (1-25%)	Existing Rates	Existing Rates		
5/8	R	105.0%	7.54	5.66	7.50	5.63	100.53%	100.53%
3/4	Z	105.0%	9.62	7.22	9.57	7.18	100.52%	100.56%
1	Q	105.0%	14.10	10.58	14.05	10.54	100.36%	100.38%
1-1/4	Y	105.0%	19.82	14.87	19.77	14.83	100.25%	100.27%
1-1/2	P	105.0%	24.80	18.60	24.75	18.56	100.20%	100.22%
2	X	105.0%	38.25	28.69	38.19	28.64	100.16%	100.17%
3	O	105.0%	68.97	51.73	68.87	51.65	100.15%	100.15%
4	W	105.0%	117.21	87.91	117.03	87.77	100.15%	100.16%
6	N	105.0%	231.03	173.27	230.71	173.03	100.14%	100.14%
8	V	105.0%	365.58	274.19	365.13	273.85	100.12%	100.12%
10	E	105.0%	527.64	395.73	526.96	395.22	100.13%	100.13%
12	T	105.0%	959.14	719.36	958.27	718.70	100.09%	100.09%
14	H	105.0%	1,010.78	758.09	0.00	0.00	0.00%	0.00%

Monthly Water Usage		Charge Per Mcf LagRate-2 x Col. (3)	Col. (4) x (1-25%)			
General Service Volume Cha	105.0%	39.61	29.71		34.57	114.58%
				discount vol charge	25.93	114.58%

Wastewater Surcharge		Charge $/lb LagRate-2 x Col. (3)		
BOD in excess of 250 mg/l	105.0%	0.443	0.391	113.30%
SS in excess of 350 mg/l	105.0%	0.452	0.406	111.33%

(a) Discount rate applies to Senior Citizens and Charities.

File: SCOS23_24_ver1.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2024 | Budget Yr 2023 | Ver. 1a
CTRCTUnits - Contract Service Customers Billing Units | P.N. 135647.0100 | January 27, 2023 January 27, 2023 4:07 p.m. | LagRate-16
Reference: Financial Planning Model - Customer

	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Abington										
Volume (Mcf)	91,859	91,859	91,859	91,859	91,859	91,859	91,859	91,859	91,859	91,859
Capacity (cfs)	9.5420	9.5420	9.5420	9.5420	9.5420	9.5420	9.5420	9.5420	9.5420	9.5420
SS (1,000 lbs.)	998	998	998	998	998	998	998	998	998	998
BOD (1,000 lbs.)	1,343	1,343	1,343	1,343	1,343	1,343	1,343	1,343	1,343	1,343
Bensalem										
Volume (Mcf)	150,020	150,020	150,020	150,020	150,020	150,020	150,020	150,020	150,020	150,020
Capacity (cfs)	11.7400	11.7400	11.7400	11.7400	11.7400	11.7400	11.7400	11.7400	11.7400	11.7400
SS (1,000 lbs.)	1,568	1,568	1,568	1,568	1,568	1,568	1,568	1,568	1,568	1,568
BOD (1,000 lbs.)	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623	1,623
Bucks County										
Volume (Mcf)	893,899	893,899	893,899	893,899	893,899	893,899	893,899	893,899	893,899	893,899
Capacity (cfs)	74.2600	74.2600	74.2600	74.2600	74.2600	74.2600	74.2600	74.2600	74.2600	74.2600
SS (1,000 lbs.)	10,541	10,541	10,541	10,541	10,541	10,541	10,541	10,541	10,541	10,541
BOD (1,000 lbs.)	10,369	10,369	10,369	10,369	10,369	10,369	10,369	10,369	10,369	10,369
Cheltenham										
Volume (Mcf)	410,973	410,973	410,973	410,973	410,973	410,973	410,973	410,973	410,973	410,973
Capacity (cfs)	31.7500	31.7500	31.7500	31.7500	31.7500	31.7500	31.7500	31.7500	31.7500	31.7500
SS (1,000 lbs.)	3,069	3,069	3,069	3,069	3,069	3,069	3,069	3,069	3,069	3,069
BOD (1,000 lbs.)	2,682	2,682	2,682	2,682	2,682	2,682	2,682	2,682	2,682	2,682
Lower Moreland										
Volume (Mcf)	61,845	61,845	61,845	61,845	61,845	61,845	61,845	61,845	61,845	61,845
Capacity (cfs)	5.8800	5.8800	5.8800	5.8800	5.8800	5.8800	5.8800	5.8800	5.8800	5.8800
SS (1,000 lbs.)	626	626	626	626	626	626	626	626	626	626
BOD (1,000 lbs.)	470	470	470	470	470	470	470	470	470	470
Lower Southampton										
Volume (Mcf)	270,135	270,135	270,135	270,135	270,135	270,135	270,135	270,135	270,135	270,135
Capacity (cfs)	15.7900	15.7900	15.7900	15.7900	15.7900	15.7900	15.7900	15.7900	15.7900	15.7900
SS (1,000 lbs.)	1,964	1,964	1,964	1,964	1,964	1,964	1,964	1,964	1,964	1,964
BOD (1,000 lbs.)	1,633	1,633	1,633	1,633	1,633	1,633	1,633	1,633	1,633	1,633
DELCORA										
Volume (Mcf)	1,086,790	1,086,790	1,086,790	1,086,790	1,086,790	0	0	0	0	0
Capacity (cfs)	155.0000	155.0000	155.0000	155.0000	155.0000	0.0000	0.0000	0.0000	0.0000	0.0000
SS (1,000 lbs.)	12,017	12,017	12,017	12,017	12,017	0	0	0	0	0
BOD (1,000 lbs.)	10,202	10,202	10,202	10,202	10,202	0	0	0	0	0
Lower Merion										
Volume (Mcf)	309,643	309,643	309,643	309,643	309,643	309,643	309,643	309,643	309,643	309,643
Capacity (cfs)	31.5700	31.5700	31.5700	31.5700	31.5700	31.5700	31.5700	31.5700	31.5700	31.5700
SS (1,000 lbs.)	3,234	3,234	3,234	3,234	3,234	3,234	3,234	3,234	3,234	3,234
BOD (1,000 lbs.)	2,760	2,760	2,760	2,760	2,760	2,760	2,760	2,760	2,760	2,760
Springfield (ex. Wyndmoor)										
Volume (Mcf)	109,419	109,419	109,419	109,419	109,419	109,419	109,419	109,419	109,419	109,419
Capacity (cfs)	4.6000	4.6000	4.6000	4.6000	4.6000	4.6000	4.6000	4.6000	4.6000	4.6000
SS (1,000 lbs.)	2,141	2,141	2,141	2,141	2,141	2,141	2,141	2,141	2,141	2,141
BOD (1,000 lbs.)	2,116	2,116	2,116	2,116	2,116	2,116	2,116	2,116	2,116	2,116
Upper Darby										
Volume (Mcf)	451,287	451,287	451,287	451,287	451,287	451,287	451,287	451,287	451,287	451,287
Capacity (cfs)	35.0000	35.0000	35.0000	35.0000	35.0000	35.0000	35.0000	35.0000	35.0000	35.0000
SS (1,000 lbs.)	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392
BOD (1,000 lbs.)	3,745	3,745	3,745	3,745	3,745	3,745	3,745	3,745	3,745	3,745
Springfield (Wyndmoor)										
Volume (Mcf)	17,518	17,518	17,518	17,518	17,518	17,518	17,518	17,518	17,518	17,518
Capacity (cfs)	1.9300	1.9300	1.9300	1.9300	1.9300	1.9300	1.9300	1.9300	1.9300	1.9300
SS (1,000 lbs.)	215	215	215	215	215	215	215	215	215	215
BOD (1,000 lbs.)	166	166	166	166	166	166	166	166	166	166

	2,023
Abington	
Volume ($/Mcf)	1.2958
Capacity ($/cfs)	11,009
SS ($/1,000 lbs.)	195.69
BOD ($/1,000 lbs.)	219.56
Annual Lump Sum ($)	714,750
Management Fee (%)	12
Bensalem	
Volume ($/Mcf)	1.2958
Capacity ($/cfs)	11,009
SS ($/1,000 lbs.)	195.69
BOD ($/1,000 lbs.)	219.56
Annual Lump Sum ($)	89,500
Management Fee (%)	10
Bucks County	
Volume ($/Mcf)	1.2958
Capacity ($/cfs)	11,009
SS ($/1,000 lbs.)	195.69
BOD ($/1,000 lbs.)	219.56
Annual Lump Sum ($)	892,250
Management Fee (%)	10
Cheltenham	
Volume ($/Mcf)	1.2251
Capacity ($/cfs)	6,138
SS ($/1,000 lbs.)	195.69
BOD ($/1,000 lbs.)	219.56
Annual Lump Sum ($)	1,979,750
Management Fee (%)	12
Lower Moreland	
Volume ($/Mcf)	1.2958
Capacity ($/cfs)	11,009
SS ($/1,000 lbs.)	195.69
BOD ($/1,000 lbs.)	219.56
Annual Lump Sum ($)	410,750
Management Fee (%)	12
Lower Southampton	
Volume ($/Mcf)	1.2958
Capacity ($/cfs)	11,009
SS ($/1,000 lbs.)	195.69
BOD ($/1,000 lbs.)	219.56
Annual Lump Sum ($)	2,494,750
Management Fee (%)	12
DELCORA	
Volume ($/Mcf)	1.4017
Capacity ($/cfs)	7,406
SS ($/1,000 lbs.)	205.37
BOD ($/1,000 lbs.)	202.20
Annual Lump Sum ($)	2,780,000
Management Fee (%)	12
Lower Merion	
Volume ($/Mcf)	1.4507
Capacity ($/cfs)	7,574
SS ($/1,000 lbs.)	208.16
BOD ($/1,000 lbs.)	202.63
Annual Lump Sum ($)	120,000
Management Fee (%)	10
Springfield (ex. Wyndmoor)	
Volume ($/Mcf)	1.4629
Capacity ($/cfs)	9,553
SS ($/1,000 lbs.)	208.16
BOD ($/1,000 lbs.)	202.63
Annual Lump Sum ($)	800,750
Management Fee (%)	12
Upper Darby	
Volume ($/Mcf)	1.4507
Capacity ($/cfs)	7,574
SS ($/1,000 lbs.)	208.16
BOD ($/1,000 lbs.)	202.63
Annual Lump Sum ($)	40,500
Management Fee (%)	10
Springfield (Wyndmoor)	
Volume ($/Mcf)	2.1386
Capacity ($/cfs)	17,383
SS ($/1,000 lbs.)	314.63
BOD ($/1,000 lbs.)	129.32
Annual Lump Sum ($)	134,000
Management Fee (%)	12

RATE DESIGN ADJUSTMENT TO UNIT O&M EXPENSE IN ORDER TO RECOVER COSTS ASSOCIATED WITH I/I WHEN RATES ARE APPLIED

Line No.	Contract Customer	Volume $/Mcf Somallo-40	Unit Costs Capacity $/Mcf/day Somallo-40	Unit Costs Suspended Solids $/1,000 lbs Somallo-40	Unit Costs Bod $/1,000 lbs Somallo-40
	Abington,Bensalem, Bucks County, Lower Moreland, and Lower Southampton				
	Northeast WPCP - Preliminary Treatment	0.1133	100.7329		
	Northeast WPCP - Other	1.8158	137.2145	259.2301	302.0965
	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000
	Total	1.9291	237.9474	259.2301	302.0965
	Cheltenham				
	Northeast WPCP	0.0000	0.0000		
	Northeast WPCP - Other	1.8158	137.2145	259.2301	302.0965
	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000
	Total	1.8158	137.2145	259.2301	302.0965
	DELCORA				
	Southwest WPCP	1.7046	108.5607	241.6653	254.5809
	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000
	Total	1.7046	108.5607	241.6653	254.5809
	Lower Merion				
	Southwest WFCP	1.7706	111.0324	245.3270	255.1715
	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000
	Neill Drive Pumping Station	0.1711	519.0073		
	CONTRACT ADJUSTMENT	0.0000	0.0000		
	Total	1.9417	630.0397	245.3270	255.1715
	Springfield (less Wyndmoor)				
	Southwest WPCP	1.7706	111.0324	245.3270	255.1715
	Central Schuylkill Pumping Station	0.0146	26.1513		
	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000
	Total	1.7852	137.1837	245.3270	255.1715
	Upper Darby				
	Southwest WPCP	1.7706	111.0324	245.3270	255.1715
	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000
	Total	1.7706	111.0324	245.3270	255.1715
	Springfield (Wyndmoor)				
	Southeast WPCP	2.8578	294.1994	407.1357	191.3339
	CONTRACT ADJUSTMENT	0.0000	0.0000	0.0000	0.0000
	Total	2.8578	294.1994	407.1357	191.3339

A lag factor is applied to all wholesale customer rates equal to 1.0000
Months in effective test year: 12
Months to collect COS: 12
BUT, DELCORA is for 12 months, or an adjustment factor of 1.0000

SUMMARY OF CHARGES FOR WHOLESALE CONTRACT CUSTOMERS EXCLUDING MANAGEMENT FEES

	(1)	(2)	(3)	(4)	(5)
		Unit Costs			
Contract Customers	Annual Lump Sum Cost $ Retcos-10	Volume $/Mcf Above	Capacity (a) $/cfs Above	Suspended Solids $/1,000 lbs Above	BOD $/1,000 lbs Above
Abington	655,000	1.9291	20,559	259.2301	302.0965
Bensalem	88,000	1.9291	20559	259.2301	302.0965
Bucks County (b)	1,001,000	1.9291	20559	259.2301	302.0965
Cheltenham	1,955,000	1.8158	11,855	259.2301	302.0965
Lower Moreland	356,000	1.9291	20559	259.2301	302.0965
Lower Southampton	2,593,000	1.9291	20559	259.2301	302.0965
DELCORA (e)	1,009,000	1.7046	9,380	241.6653	254.5809
Lower Merion (c)(d)	118,000	1.7706	9,593	245.3270	255.1715
Springfield (less Wyndmoor)	762,000	1.7852	11,853	245.3270	255.1715
Upper Darby	39,000	1.7706	9,593	245.3270	255.1715
Springfield (Wyndmoor)	122,000	2.8578	25,419	407.1357	191.3339
Total	8,698,000				

(a) Annual Cost.
(b) Charges for recovery of costs associated with odor control of Bucks County W&SA wastewater are in addition to the charges shown herein.
(c) For flow through City Line Avenue and Presidential Drive connection, an additional cost of $0.1711 per Mcf is applicable for costs related to the Neill Drive Pump Station.
(d) For contract capacity at the City Line Avenue and Presidential Drive connection, an additional charge of $519.01 per Mcf/day ($44,842.2 per cfs) is applicable to costs related to Neill Drive Pump Static
(e) DELCORA Unit Costs from Somallo-48 and reflect rec and strength.

SUMMARY OF EXISTING CHARGES FOR WHOLESALE CONTRACT CUSTOMERS (EXCLUDING MANAGEMENT FEES)

	(1)	(2)	(3)	(4)	(5)
		Unit Costs			
Contract Customers	Annual Lump Sum Cost $ LagRate-16	Volume $/Mcf LagRate-16	Capacity (e) $/cfs LagRate-16	Suspended Solids $/1,000 lbs LagRate-16	BOD $/1,000 lbs LagRate-16
Abington	714,750	1.2958	11,009	195.6866	219.5584
Bensalem	89,500	1.2958	11,009	195.6866	219.5584
Bucks County	892,250	1.2958	11,009	195.6866	219.5584
Cheltenham	1,979,750	1.2251	6,138	195.6866	219.5584
Lower Moreland	410,750	1.2958	11,009	195.6866	219.5584
Lower Southampton	2,494,750	1.2958	11,009	195.6866	219.5584
DELCORA	2,780,000	1.4017	7,406	205.3746	202.2020
Lower Merion (g)(h)	120,000	1.4507	7,574	208.1631	202.6277
Springfield (less Wyndmoor)	800,750	1.4629	9,553	208.1631	202.6277
Upper Darby	40,500	1.4507	7,574	208.1631	202.6277
Springfield	134,000	2.1386	17,383	314.6312	129.3211
Total	10,457,000				

(e) Annual Cost.
(f) DELCORA Unit Costs reflect recovery of lump sum costs in the unit charges for volume, capacity, and strength.
(g) For flow through City Line Avenue and Presidential Drive connection, an additional cost of $0.5952 per Mcf is applicable for costs related to the Neill Drive Pump Station.
(h) For contract capacity at the City Line Avenue and Presidential Drive connection, an additional charge of $49.72 per Mcf/day ($4,296 per cfs) is applicable to costs related to Neill Drive Pump Station.

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
PRATES - Proposed Contract Rates and Percent Incr. Over Existing Rates	P.N. 135647.0100	January 27, 2023 January 27, 2023 4:07 p.m.					LagRate-18

	Reference	Abington	Bensalem	Bucks County	Cheltenham	Lower Moreland	Lower Southampton	DELCORA	Lower Merion	Springfield (ex. Wyndmoor)	Upper Darby	Springfield (Wyndmoor)
New Rates												
Volume ($/Mcf)	LagRate-17	1.9291	1.9291	1.9291	1.8158	1.9291	1.9291	1.7046	1.7706	1.7852	1.7706	2.8578
Percent Incr. Over Old Rat	LagRate-16	148.87%	148.87%	148.87%	148.22%	148.87%	148.87%	121.61%	122.05%	122.03%	122.05%	133.63%
Capacity ($/cfs)	LagRate-17	20,559	20,559	20,559	11,855	20,559	20,559	9,380	9,593	11,853	9,593	25,419
Percent Incr. Over Old Rat	LagRate-16	186.75%	186.75%	186.75%	193.14%	186.75%	186.75%	126.65%	126.66%	124.08%	126.66%	146.23%
SS ($/1,000 lbs.)	LagRate-17	259.23	259.23	259.23	259.23	259.23	259.23	241.67	245.33	245.33	245.33	407.14
Percent Incr. Over Old Rat	LagRate-16	132.47%	132.47%	132.47%	132.47%	132.47%	132.47%	117.67%	117.85%	117.85%	117.85%	129.40%
BOD ($/1,000 lbs.)	LagRate-17	302.10	302.10	302.10	302.10	302.10	302.10	254.58	255.17	255.17	255.17	191.33
Percent Incr. Over Old Rat	LagRate-16	137.59%	137.59%	137.59%	137.59%	137.59%	137.59%	125.90%	125.93%	125.93%	125.93%	147.95%
Annual Lump Sum ($)	LagRate-17	655,000	88,000	1,001,000	1,955,000	356,000	2,593,000	1,009,000	118,000	762,000	39,000	122,000
Percent Incr. Over Old Rat	LagRate-16	91.64%	98.32%	112.19%	98.75%	86.67%	103.94%	36.29%	98.33%	95.16%	96.30%	91.04%
Management Fee (%)		12	10	10	12	12	12	12	10	12	10	12

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
CTRCTANAL1 - Cntrct Serv. Proposed Rates Receipts Analysis - Part 1	P.N. 135647.0100	January 27, 2023 January 27, 2023 4:07 p.m.					LagRate-19

Reference:

B. Billing Units (LagRate-16) x Percent Increase over existing rates (LagRate-18)

Contract Customers	Receipts FY 2021 $ Ref. B	FY 2022 $ Ref. B	FY 2023 $ Ref. B	FY 2024 $ Ref. B	FY 2025 $ Ref. B	FY 2026 $ Ref. B	FY 2027 $ Ref. B	FY 2028 $ Ref. B	FY 2029 $ Ref. B	FY 2030 $ Ref. B	Test Year $	FY 2024 Test Year Receipts Under Existing Rates $
Camden - Ref. A				Temporary wastewater service to Camden ceased in January 1996							0	
Abington												
Volume	0	0	0	177,205	177,205	177,205	177,205	177,205	177,205	177,205	177,205	
Capacity	0	0	0	196,174	196,174	196,174	196,174	196,174	196,174	196,174	196,174	
SS	0	0	0	258,655	258,655	258,655	258,655	258,655	258,655	258,655	258,655	
BOD	0	0	0	405,722	405,722	405,722	405,722	405,722	405,722	405,722	405,722	
Annual Lump Sum	0	0	0	655,000	655,000	655,000	655,000	655,000	655,000	655,000	655,000	
Management Fee	0	0	0	203,131	203,131	203,131	203,131	203,131	203,131	203,131	203,131	
Subtotal	1,576,223	775,431	1,600,427	1,895,887	1,895,887	1,895,887	1,895,887	1,895,887	1,895,887	1,895,887	1,895,887	1,482,863
Bensalem												
Volume	0	0	0	289,404	289,404	289,404	289,404	289,404	289,404	289,404	289,404	
Capacity	0	0	0	241,363	241,363	241,363	241,363	241,363	241,363	241,363	241,363	
SS	0	0	0	406,455	406,455	406,455	406,455	406,455	406,455	406,455	406,455	
BOD	0	0	0	490,251	490,251	490,251	490,251	490,251	490,251	490,251	490,251	
Annual Lump Sum		0	0	88,000	88,000	88,000	88,000	88,000	88,000	88,000	88,000	
Management Fee	0	0	0	151,547	151,547	151,547	151,547	151,547	151,547	151,547	151,547	
Subtotal	1,363,835	1,616,590	1,183,897	1,667,020	1,667,020	1,667,020	1,667,020	1,667,020	1,667,020	1,667,020	1,667,020	1,194,727
Bucks County												
Volume	0	0	0	1,724,421	1,724,421	1,724,421	1,724,421	1,724,421	1,724,421	1,724,421	1,724,421	
Capacity	0	0	0	1,526,711	1,526,711	1,526,711	1,526,711	1,526,711	1,526,711	1,526,711	1,526,711	
SS	0	0	0	2,732,424	2,732,424	2,732,424	2,732,424	2,732,424	2,732,424	2,732,424	2,732,424	
BOD	0	0	0	3,132,472	3,132,472	3,132,472	3,132,472	3,132,472	3,132,472	3,132,472	3,132,472	
Annual Lump Sum (a)	0	0	0	1,001,000	1,001,000	1,001,000	1,001,000	1,001,000	1,001,000	1,001,000	1,001,000	
Management Fee	0	0	0	1,011,703	1,011,703	1,011,703	1,011,703	1,011,703	1,011,703	1,011,703	1,011,703	
Subtotal	9,047,916	7,196,688	7,928,095	11,128,731	11,128,731	11,128,731	11,128,731	11,128,731	11,128,731	11,128,731	11,128,731	7,994,699
Cheltenham												
Volume	0	0	0	746,245	746,245	746,245	746,245	746,245	746,245	746,245	746,245	
Capacity	0	0	0	376,396	376,396	376,396	376,396	376,396	376,396	376,396	376,396	
SS	0	0	0	795,525	795,525	795,525	795,525	795,525	795,525	795,525	795,525	
BOD	0	0	0	810,237	810,237	810,237	810,237	810,237	810,237	810,237	810,237	
Annual Lump Sum	0	0	0	1,955,000	1,955,000	1,955,000	1,955,000	1,955,000	1,955,000	1,955,000	1,955,000	
Management Fee	0	0	0	562,008	562,008	562,008	562,008	562,008	562,008	562,008	562,008	
Subtotal	4,437,076	3,826,824	4,331,604	5,245,411	5,245,411	5,245,411	5,245,411	5,245,411	5,245,411	5,245,411	5,245,411	4,013,946
Lower Moreland												
Volume	0	0	0	119,305	119,305	119,305	119,305	119,305	119,305	119,305	119,305	
Capacity	0	0	0	120,887	120,887	120,887	120,887	120,887	120,887	120,887	120,887	
SS	0	0	0	162,331	162,331	162,331	162,331	162,331	162,331	162,331	162,331	
BOD	0	0	0	142,107	142,107	142,107	142,107	142,107	142,107	142,107	142,107	
Annual Lump Sum	0	0	0	356,000	356,000	356,000	356,000	356,000	356,000	356,000	356,000	
Management Fee	0	0	0	108,076	108,076	108,076	108,076	108,076	108,076	108,076	108,076	
Subtotal	1,030,403	875,279	875,215	1,008,706	1,008,706	1,008,706	1,008,706	1,008,706	1,008,706	1,008,706	1,008,706	803,250
Lower Southampton												
Volume	0	0	0	521,117	521,117	521,117	521,117	521,117	521,117	521,117	521,117	
Capacity	0	0	0	324,627	324,627	324,627	324,627	324,627	324,627	324,627	324,627	
SS	0	0	0	509,176	509,176	509,176	509,176	509,176	509,176	509,176	509,176	
BOD	0	0	0	493,246	493,246	493,246	493,246	493,246	493,246	493,246	493,246	
Annual Lump Sum	0	0	0	2,593,000	2,593,000	2,593,000	2,593,000	2,593,000	2,593,000	2,593,000	2,593,000	
Management Fee	0	0	0	532,940	532,940	532,940	532,940	532,940	532,940	532,940	532,940	
Subtotal	4,071,888	3,792,389	4,212,847	4,974,106	4,974,106	4,974,106	4,974,106	4,974,106	4,974,106	4,974,106	4,974,106	4,065,233

(a) See footnote at bottom of LagRate-19a.

File: SCOS23_24_ver1.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2024 | Budget Yr 2023 | Ver. 1a
CTRCTANAL2 - Cntrct Serv. Proposed Rates Receipts Analysis - Part 2 | P.N. 135647.0100 | January 27, 2023 January 27, 2023 4:07 p.m. | LagRate-19a

Reference:

B. Billing Units (LagRate-16) x Percent Increase over existing rates (LagRate-18), except FY 2021 through FY 2023 are under existing rates.

Contract Customers	Receipts FY 2021 $ Ref. B	FY 2022 $ Ref. B	FY 2023 $ Ref. B	FY 2024 $ Ref. B	FY 2025 $ Ref. B	FY 2026 $ Ref. B	FY 2027 $ Ref. B	FY 2028 $ Ref. B	FY 2029 $ Ref. B	FY 2030 $ Ref. B	FY 2024 Test Year $		FY 2024 Test Year Receipts Under Existing Rates $	
DELCORA														
Volume	0	0	0	1,852,542	1,852,542	0	0	0	0	0	1,852,542			
Capacity	0	0	0	1,453,900	1,453,900	0	0	0	0	0	1,453,900			
SS	0	0	0	2,903,976	2,903,976	0	0	0	0	0	2,903,976			
BOD	0	0	0	2,597,357	2,597,357	0	0	0	0	0	2,597,357			
Annual Lump Sum	0	0	0	1,009,000	1,009,000	1,009,000	1,009,000	1,009,000	1,009,000	1,009,000	1,009,000			
Management Fee	0	0	0	1,178,013	1,178,013	121,080	121,080	121,080	121,080	121,080	1,178,013			
Subtotal	9,415,281	9,704,255	11,179,990	10,994,788	10,994,788	1,130,080	1,130,080	1,130,080	1,130,080	1,130,080	10,994,788		8,869,563	
Lower Merion														
Volume (c)	0	0	0	550,427	550,427	550,427	550,427	550,427	550,427	550,427	550,427			
Capacity (c)	0	0	0	362,537	362,537	362,537	362,537	362,537	362,537	362,537	362,537			
SS	0	0	0	793,454	793,454	793,454	793,454	793,454	793,454	793,454	793,454			
BOD	0	0	0	704,302	704,302	704,302	704,302	704,302	704,302	704,302	704,302			
Annual Lump Sum	0	0	0	118,000	118,000	118,000	118,000	118,000	118,000	118,000	118,000			
Management Fee	0	0	0	252,872	252,872	252,872	252,872	252,872	252,872	252,872	252,872			
Subtotal	2,731,477	2,990,169	2,244,926	2,781,592	2,781,592	2,781,592	2,781,592	2,781,592	2,781,592	2,781,592	2,781,592		2,264,874	
Springfield (less Wyndmoor)														
Volume	0	0	0	195,335	195,335	195,335	195,335	195,335	195,335	195,335	195,335			
Capacity	0	0	0	54,524	54,524	54,524	54,524	54,524	54,524	54,524	54,524			
SS	0	0	0	525,338	525,338	525,338	525,338	525,338	525,338	525,338	525,338			
BOD	0	0	0	539,871	539,871	539,871	539,871	539,871	539,871	539,871	539,871			
Annual Lump Sum	0	0	0	762,000	762,000	762,000	762,000	762,000	762,000	762,000	762,000			
Management Fee	0	0	0	249,248	249,248	249,248	249,248	249,248	249,248	249,248	249,248			
Subtotal	1,986,188	1,878,184	2,104,729	2,326,316	2,326,316	2,326,316	2,326,316	2,326,316	2,326,316	2,326,316	2,326,316		1,981,383	
Upper Darby														
Volume	0	0	0	799,049	799,049	799,049	799,049	799,049	799,049	799,049	799,049			
Capacity	0	0	0	335,755	335,755	335,755	335,755	335,755	335,755	335,755	335,755			
SS	0	0	0	1,077,507	1,077,507	1,077,507	1,077,507	1,077,507	1,077,507	1,077,507	1,077,507			
BOD	0	0	0	955,508	955,508	955,508	955,508	955,508	955,508	955,508	955,508			
Annual Lump Sum	0	0	0	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000			
Management Fee	0	0	0	320,682	320,682	320,682	320,682	320,682	320,682	320,682	320,682			
Subtotal	3,121,364	3,403,579	2,896,636	3,527,501	3,527,501	3,527,501	3,527,501	3,527,501	3,527,501	3,527,501	3,527,501		2,922,660	
Springfield (Wyndmoor)														
Volume	0	0	0	50,063	50,063	50,063	50,063	50,063	50,063	50,063	50,063			
Capacity	0	0	0	49,059	49,059	49,059	49,059	49,059	49,059	49,059	49,059			
SS	0	0	0	87,574	87,574	87,574	87,574	87,574	87,574	87,574	87,574			
BOD	0	0	0	31,816	31,816	31,816	31,816	31,816	31,816	31,816	31,816			
Annual Lump Sum	0	0	0	122,000	122,000	122,000	122,000	122,000	122,000	122,000	122,000			
Management Fee	0	0	0	40,861	40,861	40,861	40,861	40,861	40,861	40,861	40,861			
Subtotal	320,241	279,913	329,496	381,373	381,373	381,373	381,373	381,373	381,373	381,373	381,373		331,197	
Total	39,101,894	36,339,303	38,887,862	45,931,431	45,931,431	36,066,723	36,066,723	36,066,723	36,066,723	36,066,723	45,931,431		35,924,394	10,007,037
CHECK	39,101,894	36,339,303	38,887,862									CHECK	35,924,394	

(a) Includes Direct charges to Bucks County for odor control of $0.0 per year.
(b) DELCORA Unit Costs reflect recovery of lump sum costs in the unit charges for volume, capacity, and strength.
(c) Includes charges for flow through the City Line Avenue and Presidential Drive connection.

File: SCOS23_24_ver1.xls
COSCLASS - COS & Adjusted COS by Class

Philadelphia Water Department (PWD)
P.N. 135647.0100

CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE
January 27, 2023 January 27, 2023 4:07 p.m.

Test Year 2024 Budget Yr 2023 Ver. 1a
LagRate-20

Line No.	Customer Type	(1) Allocated Cost of Service (a) $ Retcos-17	(2) Discounted COS $	(3) Cost of Service With Discount $ (1) or (2)	(4) Discounts $ (1) - (3)	(5) Recovery of Discounts $	(6) Adjusted Cost of Service $ (3) + (5)	(7) Percent Change ((6) - (1)) / (1)
1	Residential Excluding Senior Citizens	151,850,669		151,850,669	0	2,092,187	153,942,856	1.38%
2	Commercial	65,233,588		65,233,588		898,784	66,132,372	1.38%
3	Industrial	2,313,991		2,313,991		31,882	2,345,873	1.38%
4	Public Utilities	473,696		473,696		6,527	480,223	1.38%
5	Senior Citizens	6,199,119	4,649,339	4,649,339	1,549,780	64,058	4,713,397	-23.97%
6	Sewer Only	5,537,645		5,537,645		76,297	5,613,942	1.38%
7	Groundwater	2,794,761		2,794,761		38,506	2,833,267	1.38%
8	Surcharge	7,026,212		7,026,212		96,807	7,123,019	1.38%
9	Housing Authority	6,248,553	5,936,125	5,936,125	312,428	81,787	6,017,913	-3.69%
10	Charities and Schools	5,269,987	3,952,490	3,952,490	1,317,497	54,457	4,006,947	-23.97%
11	Hospitals and Universities	2,006,228	1,504,671	1,504,671	501,557	20,731	1,525,402	-23.97%
12	Hand Billed	15,905,590		15,905,590		219,146	16,124,736	1.38%
13	xxxxxxxxxx	0		0		0	0	0.00%
14	Water Treatment Plant Sludge	16,592,337		16,592,337			16,592,337	0.00%
15	Private Fire Connections	3,622		3,622		50	3,672	1.38%
16	Scheduled (Flat Rate)	3,044		3,044		42	3,086	1.38%
17	yyyyyyyyyy	0		0	0	0	0	0.00%
18	Total Retail Service	287,459,042	16,042,626	283,777,781	3,681,261	3,681,261	287,459,042	0.00%
19								
20	Contract Service	45,928,109		45,928,109	0		45,928,109	0.00%
21	Total System	333,387,151	16,042,626	329,705,890	3,681,261	3,681,261	333,387,151	0.00%

(a) Includes allocation of I/I

SUMMARY OF ALLOCATED COST OF SERVICE FOR CONTRACT CUSTOMERS
Test Year 2024

	(1) Allocated Investment $	(2) Allocated Depreciable Investment $	(3) O&M Expense $	(4) Depreciation Expense (b) $	(5) Return on Investment (c) $	(6) Management Fee $	(7) Allocated Cost of Service $	FY 2024 Test Year Receipts Under Proposed Rates $	Difference $	
	Retcos-11	Retcos-11	Retcos-11	Retcos-11	Retcos-11	Rates-7				
Abington	6,092,000	6,077,000	1,091,000	148,015	456,900	203,131	1,899,046	1,895,887	3,159	
Bensalem	10,599,000	10,571,000	1,514,000	(a)	(a)	151,548	1,665,548	1,667,020	(1,472)	
Bucks County	33,103,000	33,010,000	9,184,000	232,450	697,275	1,011,686	11,125,411	11,128,731	(3,320)	Direct Chemical Costs
Cheltenham	17,137,000	17,098,000	2,993,000	408,510	1,285,275	561,997	5,248,782	5,245,411	3,371	
DELCORA	48,734,000	48,593,000	8,890,000	229,475	697,425	1,178,019	10,994,919	10,994,788	131	
Lower Merion	16,672,000	16,628,000	2,536,000	(a)	(a)	252,872	2,788,872	2,781,592	7,280	
Lower Moreland	3,033,000	3,027,000	603,000	71,275	227,475	108,052	1,009,802	1,008,706	1,096	
Lower Southampton	22,442,000	22,407,000	2,247,000	506,740	1,683,150	532,917	4,969,807	4,974,106	(4,299)	
Springfield (excl. Wyndmoor)	6,659,000	6,645,000	1,409,000	158,660	499,425	249,273	2,316,358	2,326,316	(9,958)	
Springfield (Wyndmoor)	1,037,000	1,036,000	239,000	24,245	77,775	40,861	381,881	381,373	508	
Upper Darby	16,677,000	16,630,000	3,207,000	(a)	(a)	320,683	3,527,683	3,527,501	182	
Total	182,185,000	181,722,000	33,913,000	1,779,370	5,624,700	4,611,039	45,928,109	45,931,431	(3,322)	

(a) It is assumed that Bensalem, Bucks County, DELCORA, Lower Merion, Lower Southampton, and Upper Darby contribute their entire allocated plant investment, and therefore, are not allocated any depreciation expense or return on investment.
(b) Treatment Plant depreciation rate = 2.50%.
(c) Outside City rate of return = 7.50%.

COMPARISON OF TEST YEAR COSTS OF SERVICE AND ADJUSTED COST OF SERVICE WITH REVENUES UNDER EXISTING RATES TEST YEAR 2024

Line No.	Customer Type	(1) Revenue Under Existing Rates (a) $	(2) Allocated Cost of Service $ Retcos-17	(3) Adjusted Cost of Service $ LagRate-20	(4) Indicated Increase (Decrease) Required % (3)/(1)-1
1	Residential Excluding Senior Citizens	142,578,243	151,850,669	153,942,856	8.0
2	Commercial	60,457,883	65,233,588	66,132,372	9.4
3	Industrial	2,199,191	2,313,991	2,345,873	6.7
4	Public Utilities	437,685	473,696	480,223	9.7
5	Senior Citizens	4,407,719	6,199,119	4,713,397	6.9
6	Housing Authority	5,495,609	6,248,553	6,017,913	9.5
7	Charities and Schools	3,695,162	5,269,987	4,006,947	8.4
8	Hospitals and Universities	1,464,968	2,006,228	1,525,402	4.1
9	Hand Billed	14,451,319	15,905,590	16,124,736	11.6
10	xxxxxxxxxx	0	0	0	0.0
11	Fire Meters	3,343	3,622	3,672	9.9
12	Scheduled (Flat Rate)	2,843	3,044	3,086	8.5
13	yyyyyyyyyy	0	0	0	0.0
14	Sewer Only	4,686,707	5,537,645	5,613,942	19.8
15	Groundwater	2,575,855	2,794,761	2,833,267	10.0
16	Surcharge	6,286,000	7,026,212	7,123,019	13.3
17	Total Retail Service	248,742,527	270,866,705	270,866,705	8.9
18	Contract Service	35,924,394	45,928,109	45,928,109	27.8
19	Total System	284,666,922	316,794,814	316,794,814	11.3

(a) Test Year Revenues under existing rates:

Receipts Factor (RECPTS)		2.04	10.29	84.65	
		Billings Under Existing Rates			
		2022 Billings LagRate-4	2023 Billings LagRate-4	2024 Billings LagRate-4	**Receipts**
Residential (excluding Senior Citizens)		136,913,914	144,978,377	147,500,716	142,578,243
Commercial		59,890,692	64,558,581	62,126,169	60,457,883
Industrial		2,943,078	2,601,448	2,210,697	2,199,191
Public Utilities		393,500	432,769	454,934	437,685
Senior Citizens		4,423,691	4,574,453	4,544,043	4,407,719
Housing Authority		5,387,850	5,647,710	5,675,436	5,495,609
"N" Charities		3,905,681	3,931,990	3,792,902	3,695,162
"6 Cent" Charities		2,634,487	1,977,965	1,426,614	1,464,968
Hand Billed		12,758,787	14,160,696	15,042,087	14,451,319
xxxxxxxxxx		0	0	0	0
Fire Meters		3,162	3,416	3,457	3,343
Scheduled (Flat Rate)		1,544	2,287	3,043	2,843
yyyyyyyyyy		0	0	0	0 <===== **No lag is applied to City billings.**
Sewer Only		2,114,387	2,094,483	5,230,724	4,686,707
Ground Water Charges		2,469,491	2,633,586	2,663,136	2,575,855
Townships (LagRate-19a)		36,339,303	38,887,862	35,924,394	35,924,394
Total (excluding Surcharge)		270,179,566	286,485,625	286,598,353	278,380,922
Surcharge (above)				250,673,958	6,286,000
Total					284,666,922
Total Per Cash Flow					476,637,280 Not including stormwater revenue
Cash Flow Total Less This Page Total					191,970,359
Percent Error of Cash Flow Total					40.3%

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
CTRCTREVCOM - Comparison of Contract Revenues Under Existing Rates and Adjusted Rates	P.N. 135647.0100	January 27, 2023 4:07 p.m.					LagRate-23

COMPARISON OF CONTRACT SERVICE REVENUE UNDER EXISTING AND ADJUSTED RATES TEST YEAR 2024

	(1)	(2)	(3)	(4)	(5)	(6)
		Existing Rates		Adjusted Rates		
	Units of Service	Unit Charge $/unit	Revenue $	Unit Charge $/unit	Revenue $	Revenue Difference $
	Rates-6	LagRate-16	(1) x (2)	LagRate-17	(1) x (4)	(5) - (3)
Abington						
O&M Charges						
Volume (Mcf)	91,859	1.2958	119,031	1.9291	177,205	58,174
Capacity (cfs)	9.5420	11,009	105,048	20,559	196,174	91,126
Suspended Solids (1,000 lbs)	998	195.69	195,253	259.23	258,655	63,402
BOD (1,000 lbs)	1,343	219.56	294,871	302.10	405,722	110,851
Subtotal			714,203		1,037,756	323,553
Lump Sum Charge		714,750	714,750	655,000	655,000	(59,750)
Management Fee		12%	171,474	12%	203,131	31,657
Total Service Charge			1,600,427		1,895,887	295,460
Bensalem						
O&M Charges						
Volume (Mcf)	150,020	1.2958	194,396	1.9291	289,404	95,008
Capacity (cfs)	11.7400	11,009	129,246	20,559	241,363	112,117
Suspended Solids (1,000 lbs)	1,568	195.69	306,823	259.23	406,455	99,632
BOD (1,000 lbs)	1,623	219.56	356,306	302.10	490,251	133,945
Subtotal			986,771		1,427,473	440,702
Lump Sum Charge		89,500	89,500	88,000	88,000	(1,500)
Management Fee		10%	107,627	10%	151,547	43,920
Total Service Charge			1,183,898		1,667,020	483,122
Bucks County						
O&M Charges						
Volume (Mcf)	893,899	1.2958	1,158,314	1.9291	1,724,421	566,107
Capacity (cfs)	74.2600	11,009	817,528	20,559	1,526,711	709,183
Suspended Solids (1,000 lbs)	10,541	195.69	2,062,641	259.23	2,732,424	669,783
BOD (1,000 lbs)	10,369	219.56	2,276,625	302.10	3,132,472	855,847
Subtotal			6,315,108		9,116,028	2,800,920
Lump Sum Charge (a)		892,250	892,250	1,001,000	1,001,000	108,750
Management Fee		10%	720,736	10%	1,011,703	290,967
Total Service Charge			7,928,094		11,128,731	3,200,637
Cheltenham						
O&M Charges						
Volume (Mcf)	410,973	1.2251	503,483	1.8158	746,245	242,762
Capacity (cfs)	31.7500	6,138	194,882	11,855	376,396	181,514
Suspended Solids (1,000 lbs)	3,069	195.69	600,523	259.23	795,525	195,002
BOD (1,000 lbs)	2,682	219.56	588,866	302.10	810,237	221,371
Subtotal			1,887,754		2,728,403	840,649
Lump Sum Charge		1,979,750	1,979,750	1,955,000	1,955,000	(24,750)
Management Fee		12%	464,100	12%	562,008	97,908
Total Service Charge			4,331,604		5,245,411	913,807
Lower Moreland						
O&M Charges						
Volume (Mcf)	61,845	1.2958	80,139	1.9291	119,305	39,166
Capacity (cfs)	5.8800	11,009	64,733	20,559	120,887	56,154
Suspended Solids (1,000 lbs)	626	195.69	122,540	259.23	162,331	39,791
BOD (1,000 lbs)	470	219.56	103,281	302.10	142,107	38,826
Subtotal			370,693		544,630	173,937
Lump Sum Charge		410,750	410,750	356,000	356,000	(54,750)
Management Fee		12%	93,773	12%	108,076	14,303
Total Service Charge			875,216		1,008,706	133,490
Lower Southampton						
O&M Charges						
Volume (Mcf)	270,135	1.2958	350,041	1.9291	521,117	171,076
Capacity (cfs)	15.7900	11,009	173,832	20,559	324,627	150,795
Suspended Solids (1,000 lbs)	1,964	195.69	384,365	259.23	509,176	124,811
BOD (1,000 lbs)	1,633	219.56	358,483	302.10	493,246	134,763
Subtotal			1,266,721		1,848,166	581,445
Lump Sum Charge		2,494,750	2,494,750	2,593,000	2,593,000	98,250
Management Fee		12%	451,377	12%	532,940	81,563
Total Service Charge			4,212,848		4,974,106	761,258

	(7)	(8)	(9)	(10)	(11)	(12)
		Existing Rates		Adjusted Rates		
	Units of Service	Unit Charge $/unit	Revenue $	Unit Charge $/unit	Revenue $	Revenue Difference $
	Ref. A	LagRate-16	(7) x (8)	LagRate-17	(7) x (10)	(11) - (9)
DELCORA						
O&M Charges						
Volume (Mcf)	1,086,790	1.4017	1,523,354	1.7046	1,852,542	329,188
Capacity (cfs)	155.0000	7,406	1,147,930	9,380	1,453,900	305,970
Suspended Solids (1,000 lbs)	12,017	205.37	2,467,888	241.67	2,903,976	436,088
BOD (1,000 lbs)	10,202	202.20	2,062,963	254.58	2,597,357	534,394
Subtotal			7,202,135		8,807,775	1,605,640
Lump Sum Charge		2,780,000	2,780,000	0	0	(2,780,000)
Management Fee		12%	1,197,856	12%	1,056,933	(140,923)
Total Service Charge			11,179,991		9,864,708	(1,315,283)
Lower Merion						
O&M Charges						
Volume (Mcf) (b)	309,643	1.4507	449,199	1.7706	550,427	101,228
Capacity (cfs) (b)	31.5700	7,574	239,111	9,593	362,537	123,426
Suspended Solids (1,000 lbs)	3,234	208.16	673,256	245.33	793,454	120,198
BOD (1,000 lbs)	2,760	202.63	559,275	255.17	704,302	145,027
Subtotal			1,920,841		2,410,720	489,879
Lump Sum Charge		120,000	120,000	118,000	118,000	(2,000)
Management Fee		10%	204,084	10%	252,872	48,788
Total Service Charge			2,244,925		2,781,592	536,667
Springfield (less Wyndmoor)						
O&M Charges						
Volume (Mcf)	109,419	1.4629	160,069	1.7852	195,335	35,266
Capacity (cfs)	4.6000	9,553	43,944	11,853	54,524	10,580
Suspended Solids (1,000 lbs)	2,141	208.16	445,756	245.33	525,338	79,582
BOD (1,000 lbs)	2,116	202.63	428,703	255.17	539,871	111,168
Subtotal			1,078,472		1,315,068	236,596
Lump Sum Charge		800,750	800,750	762,000	762,000	(38,750)
Management Fee		12%	225,507	12%	249,248	23,741
Total Service Charge			2,104,729		2,326,316	221,587
Upper Darby						
O&M Charges						
Volume (Mcf)	451,287	1.4507	654,682	1.7706	799,049	144,367
Capacity (cfs)	35.0000	7,574	265,090	9,593	335,755	70,665
Suspended Solids (1,000 lbs)	4,392	208.16	914,279	245.33	1,077,507	163,228
BOD (1,000 lbs)	3,745	202.63	758,754	255.17	955,508	196,754
Subtotal			2,592,805		3,167,819	575,014
Lump Sum Charge		40,500	40,500	39,000	39,000	(1,500)
Management Fee		10%	263,331	10%	320,682	57,351
Total Service Charge			2,896,636		3,527,501	630,865
Springfield (Wyndmoor)						
O&M Charges						
Volume (Mcf)	17,518	2.1386	37,464	2.8578	50,063	12,599
Capacity (cfs)	1.9300	17,383	33,549	25,419	49,059	15,510
Suspended Solids (1,000 lbs)	215	314.63	67,676	407.14	87,574	19,898
BOD (1,000 lbs)	166	129.32	21,504	191.33	31,816	10,312
Subtotal			160,193		218,512	58,319
Lump Sum Charge		134,000	134,000	122,000	122,000	(12,000)
Management Fee		12%	35,303	12%	40,861	5,558
Total Service Charge			329,496		381,373	51,877
Total Contract Service Revenue			38,887,864		44,801,351	5,913,487

(a) Includes charges for recovery of costs associated with odor control of Bucks County wastewater.
(b) Includes charges for flow through the City Line Avenue and Presidential Drive connection.

Reference: Retcos-17
LagRate-21

WASTEWATER SYSTEM
COST OF SERVICE
TEST YEAR 2024

Line No.	Customer Type	(1) Operation and Maintenance Expense (a) $	(2) Capital Cost (a) $	(3) Total Cost of Service $
1	Residential Excluding Senior Citizens	116,989,796	34,860,873	151,850,669
2	Commercial	49,146,606	16,086,982	65,233,588
3	Industrial	1,739,932	574,059	2,313,991
4	Public Utilities	354,853	118,843	473,696
5	Senior Citizens	4,799,323	1,399,796	6,199,119
6	Housing Authority	4,727,732	1,520,821	6,248,553
7	Charities and Schools	3,951,337	1,318,650	5,269,987
8	Hospitals & Universities	1,507,022	499,206	2,006,228
9	Hand Billed	11,956,136	3,949,454	15,905,590
10	xxxxxxxxxx	0	0	0
11	Private Fire Connections	2,718	904	3,622
12	Scheduled (Flat Rate)	2,320	724	3,044
13	yyyyyyyyyy	0	0	0
14	Sewer Only	4,164,796	1,372,849	5,537,645
15	Groundwater	2,007,774	786,987	2,794,761
16	Surcharge	6,047,832	978,380	7,026,212
17	Total Retail Service	207,398,177	63,468,528	270,866,705
18				
19	Contract Service	33,913,000	12,015,109	45,928,109
20	Total System	241,311,177	75,483,637	316,794,814

(a) Total cost of service excludes costs associated with water treatment

Water Treatment Plant Sludge	12,933,521	3,658,816	16,592,337
Cost of Service to be Derived from Rates	254,244,698	79,142,453	333,387,151

PROPOSED WASTEWATER RATES FOR GENERAL SERVICE

Service Charge

Meter Size inches	Monthly Charge $
5/8	7.54
3/4	9.62
1	14.10
1 1/4	19.82
1 1/2	24.80
2	38.25
3	68.97
4	117.21
6	231.03
8	365.58
10	527.64
12	959.14

Quantity Charge

Monthly Water Usage	Charge Per Mcf $
All billable water usage	39.61
Groundwater Charge	13.87

Surcharge Rates

BOD ($/lb in excess of 250 mg/l)	0.443
SS ($/lb in excess of 350 mg/l)	0.452

Mcf - thousand cubic feet
mg/l - milligrams per liter

Septic Hauler Charge	
Test Year:	2024
Assumed Strength (mg/l)	
BOD	9,000
SS	9,000
Surcharge Strength (mg/l)	
BOD	8,750
SS	8,650
Surcharge Rates (after lag factor)	
BOD ($/lb in excess of 250 mg/l)	0.443
SS ($/lb in excess of 350 mg/l)	0.452
Volume (1,000s of gal)	1
Surcharge Loading (lbs)	
BOD	72.98
SS	72.14
Septic Charge	
BOD	32.33
SS	32.61
Total Charge	64.94

Comparison of Typical Residential Water and Wastewater Bills
Under Existing and Proposed Rates

(1)	(2)	(3)	(4)		(5)	(6)	(7)	(8)	(9)	(10)			
		Existing Charge				Proposed Charge							
Meter Size Inches	Monthly Use Mcf	Water $	Sewer $	Stormwater $	Total $	Water $	Sewer $	Stormwater $	Total $	Increase %	Water % Change	Sewer % Change	Stormwater % Change
5/8	0.0	4.97	7.50	18.05	30.52	5.30	7.54	19.04	31.88	4.5	6.64%	0.53%	5.48%
5/8	0.2	14.76	14.41	18.05	47.23	17.53	15.46	19.04	52.03	10.2	18.74%	7.27%	5.48%
5/8	0.3	19.66	17.87	18.05	55.58	23.64	19.42	19.04	62.10	11.7	20.27%	8.68%	5.48%
5/8	0.4	24.55	21.33	18.05	63.93	29.76	23.38	19.04	72.18	12.9	21.19%	9.64%	5.48%
5/8	0.5	29.45	24.79	18.05	72.29	35.87	27.35	19.04	82.25	13.8	21.80%	10.33%	5.48%
5/8	0.6	34.35	28.24	18.05	80.64	41.98	31.31	19.04	92.33	14.5	22.24%	10.85%	5.48%
5/8	0.7	39.24	31.70	18.05	88.99	48.10	35.27	19.04	102.40	15.1	22.57%	11.26%	5.48%
5/8	0.8	44.14	35.16	18.05	97.34	54.21	39.23	19.04	112.48	15.5	22.82%	11.58%	5.48%
5/8	1.7	88.20	66.27	18.05	172.52	109.24	74.88	19.04	203.15	17.8	23.85%	12.99%	5.48%
5/8	2.7	134.38	100.84	18.05	253.27	166.03	114.49	19.04	299.56	18.3	23.55%	13.53%	5.48%
5/8	3.3	161.38	121.58	18.05	301.01	198.99	138.25	19.04	356.28	18.4	23.31%	13.71%	5.48%

Meter Size inches	FY 2024 Existing $/Bill	FY 2024 Proposed $/Bill	
	File: WCOS23_24_ver1	WCOS23_24_ver1.xls	
	LagRate-2	LagRate-13	
5/8	4.97	5.30	106.6%
3/4	5.37	5.81	108.2%
1	6.57	7.27	110.7%
1-1/4	8.01	9.05	113.0%
1-1/2	8.96	10.28	114.7%
2	12.59	14.65	116.4%
3	20.20	23.99	118.8%
4	36.45	42.84	117.5%
6	68.70	81.39	118.5%
8	104.91	125.10	119.2%
10	153.42	182.51	119.0%
12	253.19	306.82	121.2%
Monthly Water Usage	$/Mcf	$/Mcf	
First 2 Mcf	48.96	61.14	124.9%
Next 98 Mcf	44.99	54.93	122.1%
Next 1,900 Mcf	34.85	42.55	122.1%
Over 2,000 Mcf	33.91	41.40	122.1%

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XXXXXX - PAGE NOT IN USE | P.N. 135647.0100 | January 27, 2023 January 27, 2023 4:07 p.m. | LagRate-28

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PHRATESTABLE - Four Years of Phased Rates (No trending) | P.N. 135647.0100 | January 27, 2023 January 27, 2023 4:07 p.m. | LagRate-31

Sewer Rates

(1) Meter Size inches	(2) Meter Code	(3) 2024 General Service Service Charge $/Bill LagRate-30	(4) 2024 Discount Service Charge (a) $/Bill Col. (3) x (1-25%)	(5) 2025 General Service Service Charge $/Bill LagRate-30	(6) 2025 Discount Service Charge (a) $/Bill Col. (5) x (1-25%)	(7) 2026 General Service Service Charge $/Bill LagRate-30	(8) 2026 Discount Service Charge (a) $/Bill Col. (7) x (1-25%)	(9) 2027 General Service Service Charge $/Bill LagRate-30	(10) 2027 Discount Service Charge (a) $/Bill Col. (9) x (1-25%)
5/8	R	7.54	5.66	7.98	5.99	#N/A	#N/A	#N/A	#N/A
3/4	Z	9.62	7.22	10.19	7.64	#N/A	#N/A	#N/A	#N/A
1	Q	14.10	10.58	15.00	11.25	#N/A	#N/A	#N/A	#N/A
1-1/4	Y	19.82	14.87	21.14	15.86	#N/A	#N/A	#N/A	#N/A
1-1/2	P	24.80	18.60	26.47	19.85	#N/A	#N/A	#N/A	#N/A
2	X	38.25	28.69	40.87	30.65	#N/A	#N/A	#N/A	#N/A
3	O	68.97	51.73	73.78	55.34	#N/A	#N/A	#N/A	#N/A
4	W	117.21	87.91	125.31	93.98	#N/A	#N/A	#N/A	#N/A
6	N	231.03	173.27	247.10	185.33	#N/A	#N/A	#N/A	#N/A
8	V	365.58	274.19	391.12	293.34	#N/A	#N/A	#N/A	#N/A
10	E	527.64	395.73	564.44	423.33	#N/A	#N/A	#N/A	#N/A
12	T	959.14	719.36	1,026.89	770.17	#N/A	#N/A	#N/A	#N/A
14	H	0.00	0.00	0.00	0.00	0.00	0.00	#N/A	#N/A
Monthly Water Usage		Charge Per Mcf	Charge Per Mcf	Charge Per Mcf	Charge Per Mcf	Charge Per Mcf	Charge Per Mcf	Charge Per Mcf	Charge Per Mcf
General Service Quantity Charge		39.61	29.71	43.09	32.32	#N/A	#N/A	#N/A	#N/A
Wastewater Surcharge		Charge $/lb		Charge $/lb		Charge $/lb		Charge $/lb	
BOD in excess of 250 mg/l		0.443		0.470		#N/A		#N/A	
SS in excess of 350 mg/l		0.452		0.482		#N/A		#N/A	
Monthly Stormwater Charge									
SWMS Charge		17.09		18.96		0.00		#N/A	
Billing & Collection		1.95		2.04		0.00		#N/A	

(a) Discount rate applies to Senior Citizens and Charities.

Water Rates

Meter Size inches	FY 2024 Existing $/Bill	FY 2024 Proposed $/Bill	FY 2024 Existing $/Bill	FY 2025 Proposed $/Bill atb increase = 8.66%	FY 2024 Existing $/Bill	FY 2026 Proposed $/Bill atb increase = 12.83%	FY 2024 Existing $/Bill	FY 2027 Proposed $/Bill atb increase = 7.04%
5/8	4.97	5.30	4.97	5.42	4.97	#N/A	4.97	#N/A
3/4	5.37	5.81	5.37	5.96	5.37	#N/A	5.37	#N/A
1	6.57	7.27	6.57	7.49	6.57	#N/A	6.57	#N/A
1-1/4	8.01	9.05	8.01	9.35	8.01	#N/A	8.01	#N/A
1-1/2	8.96	10.28	8.96	10.67	8.96	#N/A	8.96	#N/A
2	12.59	14.65	12.59	15.25	12.59	#N/A	12.59	#N/A
3	20.20	23.99	20.20	25.10	20.20	#N/A	20.20	#N/A
4	36.45	42.84	36.45	44.71	36.45	#N/A	36.45	#N/A
6	68.70	81.39	68.70	85.12	68.70	#N/A	68.70	#N/A
8	104.91	125.10	104.91	131.01	104.91	#N/A	104.91	#N/A
10	153.42	182.51	153.42	191.01	153.42	#N/A	153.42	#N/A
12	253.19	306.82	253.19	322.40	253.19	#N/A	253.19	#N/A
14				#N/A		#N/A		#N/A
Monthly Water Usage	$/Mcf	$/Mcf	$/Mcf	$/Mcf	$/Mcf	$/Mcf	$/Mcf	$/Mcf
First 2 Mcf	48.96	61.14	48.96	66.42	48.96	#N/A	48.96	#N/A
Next 98 Mcf	44.99	54.93	44.99	59.72	44.99	#N/A	44.99	#N/A
Next 1,900 Mcf	34.85	42.55	34.85	46.27	34.85	#N/A	34.85	#N/A
Over 2,000 Mcf	33.91	41.40	33.91	45.03	33.91	#N/A	33.91	#N/A

NOT IN USE

Comparison of Typical Residential Water and Wastewater Bills
Under Existing and Proposed Rates

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		(9)	(10)			
		Existing Charge				2024 Charges							
Meter Size Inches	Monthly Use Mcf	Water $	Sewer $	Stormwater $	Total $	Water $	Sewer $	Stormwater $	Total $	Increase %	Water % Change	Sewer % Change	Stormwater % Change
	LagRate-26	LagRate-26	LagRate-2			LagRate-31	LagRate-31						
5/8	0.0	4.97	7.50	18.05	30.52	5.30	7.54	19.04	31.88	4.5	6.64%	0.53%	5.48%
5/8	0.2	14.76	14.41	18.05	47.23	17.53	15.46	19.04	52.03	10.2	18.74%	7.27%	5.48%
5/8	0.3	19.66	17.87	18.05	55.58	23.64	19.42	19.04	62.11	11.7	20.27%	8.68%	5.48%
5/8	0.4	24.55	21.33	18.05	63.93	29.76	23.38	19.04	72.18	12.9	21.19%	9.64%	5.48%
5/8	0.5	29.45	24.79	18.05	72.29	35.87	27.35	19.04	82.26	13.8	21.80%	10.33%	5.48%
5/8	0.6	34.35	28.24	18.05	80.64	41.98	31.31	19.04	92.33	14.5	22.24%	10.85%	5.48%
5/8	0.7	39.24	31.70	18.05	88.99	48.10	35.27	19.04	102.41	15.1	22.57%	11.26%	5.48%
5/8	0.8	44.14	35.16	18.05	97.34	54.21	39.23	19.04	112.48	15.5	22.82%	11.58%	5.48%
5/8	1.7	88.20	66.27	18.05	172.52	109.24	74.88	19.04	203.16	17.8	23.85%	12.99%	5.48%
5/8	2.7	134.38	100.84	18.05	253.27	166.03	114.49	19.04	299.56	18.3	23.55%	13.53%	5.48%
5/8	3.3	161.38	121.58	18.05	301.01	198.99	138.25	19.04	356.28	18.4	23.31%	13.71%	5.48%

NOT IN USE

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
PHASE2BILLS - Transition Phase 2 Typical Bills	P.N. 135647.0100	January 27, 2023 January 27, 2023 4:07 p.m.					LagRate-33

Comparison of Typical Water and Wastewater Bills
Under Existing and Proposed Rates

(1)	(2)	(3)	(4)		(5)	(6)	(7)		(8)	(9)			
		Existing Charge				2025 Charges							
Meter Size Inches	Monthly Use Mcf	Water $	Sewer $	Stormwater $	Total $	Water $	Sewer $	Stormwater $	Total $	Increase %	Water % Change	Sewer % Change	Stormwater % Change
	LagRate-26	LagRate-26	LagRate-2			LagRate-31	LagRate-31						
5/8	0.0	4.97	7.50	18.05	30.52	5.42	7.98	21.00	34.40	12.7	9.05%	6.40%	16.34%
5/8	0.2	14.76	14.41	18.05	47.23	18.70	16.60	21.00	56.30	19.2	26.70%	15.15%	16.34%
5/8	0.3	19.66	17.87	18.05	55.58	25.35	20.91	21.00	67.25	21.0	28.93%	16.99%	16.34%
5/8	0.4	24.55	21.33	18.05	63.93	31.99	25.22	21.00	78.20	22.3	30.28%	18.23%	16.34%
5/8	0.5	29.45	24.79	18.05	72.29	38.63	29.53	21.00	89.16	23.3	31.17%	19.12%	16.34%
5/8	0.6	34.35	28.24	18.05	80.64	45.27	33.83	21.00	100.11	24.1	31.81%	19.80%	16.34%
5/8	0.7	39.24	31.70	18.05	88.99	51.91	38.14	21.00	111.06	24.8	32.29%	20.33%	16.34%
5/8	0.8	44.14	35.16	18.05	97.34	58.56	42.45	21.00	122.01	25.3	32.67%	20.75%	16.34%
5/8	1.7	88.20	66.27	18.05	172.52	118.33	81.23	21.00	220.57	27.8	34.16%	22.58%	16.34%
5/8	2.7	134.38	100.84	18.05	253.27	180.06	124.32	21.00	325.39	28.5	33.99%	23.29%	16.34%
5/8	3.3	161.38	121.58	18.05	301.01	215.90	150.18	21.00	387.07	28.6	33.78%	23.52%	16.34%

NOT IN USE

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
PHASE3BILLS - Transition Phase 3 Typical Bills	P.N. 135647.0100	January 27, 2023 January 27, 2023 4:07 p.m.					LagRate-34

Comparison of Typical Residential Water and Wastewater Bills
Under Existing and Proposed Rates

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)			
		Existing Charge				2026 Charges							
Meter Size Inches	Monthly Use Mcf	Water $	Sewer $	Stormwater $	Total $	Water $	Sewer $	Stormwater $	Total $	Increase %	Water % Change	Sewer % Change	Stormwater % Change
	LagRate-26	LagRate-26	LagRate-2			LagRate-31	LagRate-31						
5/8	0.0	4.97	7.50	18.05	30.52	#N/A	#N/A	0.00	#N/A	#N/A	#N/A	#N/A	-100.00%
5/8	0.2	14.76	14.41	18.05	47.23	#N/A	#N/A	0.00	#N/A	#N/A	#N/A	#N/A	-100.00%
5/8	0.3	19.66	17.87	18.05	55.58	#N/A	#N/A	0.00	#N/A	#N/A	#N/A	#N/A	-100.00%
5/8	0.4	24.55	21.33	18.05	63.93	#N/A	#N/A	0.00	#N/A	#N/A	#N/A	#N/A	-100.00%
5/8	0.5	29.45	24.79	18.05	72.29	#N/A	#N/A	0.00	#N/A	#N/A	#N/A	#N/A	-100.00%
5/8	0.6	34.35	28.24	18.05	80.64	#N/A	#N/A	0.00	#N/A	#N/A	#N/A	#N/A	-100.00%
5/8	0.7	39.24	31.70	18.05	88.99	#N/A	#N/A	0.00	#N/A	#N/A	#N/A	#N/A	-100.00%
5/8	0.8	44.14	35.16	18.05	97.34	#N/A	#N/A	0.00	#N/A	#N/A	#N/A	#N/A	-100.00%
5/8	1.7	88.20	66.27	18.05	172.52	#N/A	#N/A	0.00	#N/A	#N/A	#N/A	#N/A	-100.00%
5/8	2.7	134.38	100.84	18.05	253.27	#N/A	#N/A	0.00	#N/A	#N/A	#N/A	#N/A	-100.00%
5/8	3.3	161.38	121.58	18.05	301.01	#N/A	#N/A	0.00	#N/A	#N/A	#N/A	#N/A	-100.00%

NOT IN USE

Comparison of Typical Water and Wastewater Bills
Under Existing and Proposed Rates

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)			
		Existing Charge				2027 Charges							
Meter Size Inches	Monthly Use Mcf	Water $	Sewer $	Stormwater $	Total $	Water $	Sewer $	Stormwater $	Total $	Increase %	Water % Change	Sewer % Change	Stormwater % Change
	LagRate-26	LagRate-26	LagRate-2			LagRate-31	LagRate-31						
5/8	0.0	4.97	7.50	18.05	30.52	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
5/8	0.2	14.76	14.41	18.05	47.23	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
5/8	0.3	19.66	17.87	18.05	55.58	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
5/8	0.4	24.55	21.33	18.05	63.93	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
5/8	0.5	29.45	24.79	18.05	72.29	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
5/8	0.6	34.35	28.24	18.05	80.64	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
5/8	0.7	39.24	31.70	18.05	88.99	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
5/8	0.8	44.14	35.16	18.05	97.34	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
5/8	1.7	88.20	66.27	18.05	172.52	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
5/8	2.7	134.38	100.84	18.05	253.27	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
5/8	3.3	161.38	121.58	18.05	301.01	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

NOT IN USE

Comparison of Typical Residential Combined Water and Wastewater Bills
Under Existing and Proposed Rates

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
			FY 2024		FY 2025		FY 2026		FY 2027	
Meter Size Inches	Monthly Use Mcf	Existing Rates $	Proposed Rates $	Percent Proposed of Existing %	Proposed Rates $	Percent Proposed of Existing %	Proposed Rates $	Percent Proposed of Existing %	Proposed Rates $	Percent Proposed of Existing %
	LagRate-26	LagRate-32	LagRate-32		LagRate-33		LagRate-34		LagRate-34	
5/8	0.0	30.52	31.88	4.5	34.40	12.7	#N/A	#N/A	#N/A	#N/A
5/8	0.2	47.23	52.03	10.2	56.30	19.2	#N/A	#N/A	#N/A	#N/A
5/8	0.3	55.58	62.11	11.7	67.25	21.0	#N/A	#N/A	#N/A	#N/A
5/8	0.4	63.93	72.18	12.9	78.20	22.3	#N/A	#N/A	#N/A	#N/A
5/8	0.5	72.29	82.26	13.8	89.16	23.3	#N/A	#N/A	#N/A	#N/A
5/8	0.6	80.64	92.33	14.5	100.11	24.1	#N/A	#N/A	#N/A	#N/A
5/8	0.7	88.99	102.41	15.1	111.06	24.8	#N/A	#N/A	#N/A	#N/A
5/8	0.8	97.34	112.48	15.6	122.01	25.3	#N/A	#N/A	#N/A	#N/A
5/8	1.7	172.52	203.16	17.8	220.57	27.9	#N/A	#N/A	#N/A	#N/A
5/8	2.7	253.27	299.56	18.3	325.39	28.5	#N/A	#N/A	#N/A	#N/A
5/8	3.3	301.01	356.28	18.4	387.07	28.6	#N/A	#N/A	#N/A	#N/A

NOT IN USE

Table C-4

Comparison of Typical Combined Water and Wastewater Bills Under Existing and Proposed Rates

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
			FY 2024		FY 2025		FY 2026		FY 2027	
Meter Size Inches	Monthly Use Mcf	Existing Rates $	Proposed Rates $	Percent of Existing %	Proposed Rates $	Percent of Proposed FY 2024 %	Proposed Rates $	Percent of Proposed of FY 2025 %	Proposed Rates $	Percent of Proposed of FY 2026 %
	LagRate-26	LagRate-32	LagRate-32		LagRate-33		LagRate-34		LagRate-34	
5/8	0.0	30.52	31.88	4.5	34.40	7.9	#N/A	#N/A	#N/A	#N/A
5/8	0.2	47.23	52.03	10.2	56.30	8.2	#N/A	#N/A	#N/A	#N/A
5/8	0.3	55.58	62.11	11.7	67.25	8.3	#N/A	#N/A	#N/A	#N/A
5/8	0.4	63.93	72.18	12.9	78.20	8.3	#N/A	#N/A	#N/A	#N/A
5/8	0.5	72.29	82.26	13.8	89.16	8.4	#N/A	#N/A	#N/A	#N/A
5/8	0.6	80.64	92.33	14.5	100.11	8.4	#N/A	#N/A	#N/A	#N/A
5/8	0.7	88.99	102.41	15.1	111.06	8.4	#N/A	#N/A	#N/A	#N/A
5/8	0.8	97.34	112.48	15.6	122.01	8.5	#N/A	#N/A	#N/A	#N/A
5/8	1.7	172.52	203.16	17.8	220.57	8.6	#N/A	#N/A	#N/A	#N/A
5/8	2.7	253.27	299.56	18.3	325.39	8.6	#N/A	#N/A	#N/A	#N/A
5/8	2.7	301.01	356.28	18.4	387.07	8.6	#N/A	#N/A	0.00	#N/A

NOT IN USE

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
PROPRCPTS1 - Page 1 of FY 2024 Proposed Receipts Calcs	P.N. 135647.0100	January 27, 2023 January 27, 2023 4:07 p.m.					LagRate-37

This page uses FY 2024 billing data times COS rates.

Meter Size inches	Meter Code	Residential (a)(b) Service Charge Billings $	Residential (a)(b) Volume Charge Billings $	Commercial Service Charge Billings $	Commercial Volume Charge Billings $	Industrial Service Charge Billings $	Industrial Volume Charge Billings $	Public Utilities Service Charge Billings $	Public Utilities Volume Charge Billings $	Senior Citizens (b) Service Charge Billings $	Senior Citizens (b) Volume Charge Billings $	Housing Authority (b) Service Charge Billings $	Housing Authority (b) Volume Charge Billings $	"N" Charities (b) Service Charge Billings $	"N" Charities (b) Volume Charge Billings $	"6 Cent" Charities (b) Service Charge Billings $	"6 Cent" Charities (b) Volume Charge Billings $
		LagRate-6 x rates								LagRate-6 x rates		LagRate-6 x rates		LagRate-6 x rates		LagRate-6 x rates	
5/8	R	38,960,392		2,577,896		44,881		7,848		1,436,063		440,775		46,762		193	
3/4	Z	7,785		1,060		0		0		0		0		0		0	
1	Q	1,619,574		584,980		38,931		7,059		1,340		4,862		27,436		1,324	
1-1/4	Y	0		0		0		0		0		0		0		0	
1-1/2	P	331,750		464,949		24,010		4,901		0		52,694		22,323		847	
2	X	311,880		1,018,285		53,033		14,111		0		45,955		61,487		2,448	
3	O	124,312		768,564		51,111		17,265		0		28,388		105,322		10,300	
4	W	73,294		793,722		22,415		12,354		0		33,901		235,505		14,003	
6	N	33,993		557,331		19,330		15,219		0		30,841		46,418		15,771	
8	V	13,447		219,360		0		9,633		0		20,334		11,753		4,680	
10	E	6,470		116,302		0		0		0		0		0		4,503	
12	T	0		0		0		0		0		0		0		0	
14	H	0		0		0		0		0		0		0		0	
		41,482,896	121,719,470	7,102,450	63,070,686	253,711	2,243,035	88,391	420,183	1,437,403	3,570,043	657,749	5,752,309	557,004	3,709,294	54,069	1,572,877

Meter Size inches	Meter Code	Hand Billed Service Charge Billings $	Hand Billed Volume Charge Billings $	xxxxxxxxxx Service Charge Billings $	xxxxxxxxxx Volume Charge Billings $	Fire Meters (b) Service Charge Billings $	Fire Meters (b) Volume Charge Billings $	Scheduled (Flat Rate) (b) Service Charge Billings $	Scheduled (Flat Rate) (b) Volume Charge Billings $	yyyyyyyyy Service Charge Billings $	yyyyyyyyy Volume Charge Billings $	Sewer Only Sewer Only Service Charge Billings $	Sewer Only Sewer Only Volume Charge Billings $	Sewer Only Ground Water Service Charge Billings $	Sewer Only Ground Water Volume Charge Billings $	Sewer Only Total Sewer Only Service Charge Billings $	Sewer Only Total Sewer Only Volume Charge Billings $
				LagRate-6 x rates		LagRate-6 x rates		LagRate-6 x rates		LagRate-6 x rates		LagRate-6 x rates		LagRate-6 x rates		LagRate-6 x rates	
5/8	R	1,398		0		0		905		0							
3/4	Z	0		0		0		0		0							
1	Q	1,230		0		0		0		0							
1-1/4	Y	0		0		0		0		0							
1-1/2	P	2,434		0		0		0		0		Volume				Volume	
2	X	12,512		0		0		0		0		charge only				charge only	
3	O	45,123		0		0		0		0							
4	W	76,684		0		0		0		0							
6	N	62,979		0		0		0		0							
8	V	23,918		0		0		0		0							
10	E	23,014		0		0		0		0							
12	T	0		0		0		0		0							
14	H	0		0		0		0		0							
		249,293	16,949,872	0	0	0	3,961	905	2,456	0	0	0	5,961,939	0	2,936,224	0	8,898,162

(a) Excludes Senior Citizens
(b) Excludes Water Only and Wastewater Only.

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
PROPRCPTS2 - Page 2 of FY 2024 Proposed Receipts Calcs	P.N. 135647.0100	January 27, 2023 January 27, 2023 4:07 p.m.					LagRate-38

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
						LagRate-13			1/2 Mo Vol Chrg @ Exst Rates		Prior Year Receipts				Percent
	Service Charge	Volume Charge	Total	Bill Tab Factors	100% of (1) * (4)	11.5/12 of (2) * (4)	Total Billings	FY 2024 Receipts of FY 2024 Billings	Basis of Proration	Proration	Basis of Proration	Proration	FY 2024 Receipts	FY 2024 Adjusted COS	Receipts of Adjusted COS
	$	$	$		$	$	$	$	$	$	$	$	$	$	%
	LagRate-37	LagRate-37		LagRate-12				84.7% * (7)	LagRate-7		LagRate-7a		(8)+(10)+(12)	LagRate-22	
Residential Excl. Sen. Cit.	41,482,896	121,719,470	163,202,367	100.00%	41,482,896	116,647,826	158,130,722	133,864,618	105,155,551	3,726,842	147,500,716	17,802,724	155,394,184	153,942,856	104.6%
Commercial	7,102,450	63,070,686	70,173,136	100.00%	7,102,450	60,442,741	67,545,191	57,179,978	57,005,135	2,020,332	62,126,169	7,498,371	66,698,680	66,132,372	105.1%
Industrial	253,711	2,243,035	2,496,746	100.00%	253,711	2,149,575	2,403,286	2,034,487	2,889,910	102,422	2,210,697	266,822	2,403,731	2,345,873	102.6%
Public Utilities	88,391	420,183	508,574	100.00%	88,391	402,675	491,066	415,709	339,965	12,049	454,934	54,909	482,667	480,223	55516.1%
Senior Citizens	1,437,403	3,570,043	5,007,446	99.97%	1,436,907	3,420,110	4,857,016	4,111,678	3,209,540	113,750	4,544,043	548,447	4,773,875	4,713,397	361.8%
Housing Authority	657,749	5,752,309	6,410,058	100.00%	657,749	5,512,629	6,170,378	5,223,497	5,078,222	179,978	5,675,436	685,002	6,088,477	6,017,913	147.6%
Charities & Schools	557,004	3,709,294	4,266,298	99.99%	556,955	3,554,422	4,111,376	3,480,461	3,547,953	125,744	3,792,902	457,788	4,063,992	4,006,947	6910.2%
Hospitals & Universities	54,069	1,572,877	1,626,946	99.99%	54,064	1,507,206	1,561,270	1,321,683	2,702,578	95,783	1,426,614	172,186	1,589,652	1,525,402	17550.0%
Hand Billed	249,293	16,949,872	17,199,164	99.99%	249,270	16,242,131	16,491,400	13,960,696	13,385,269	474,390	15,042,087	1,815,517	16,250,604	16,124,736	142.4%
xxxxxxxxxx	0	0	0	0.00%	0	0	0	0	0	0	0	0	0	0	
Fire Meters	0	3,961	3,961	100.00%	0	3,796	3,796	3,213	3,381	120	3,457	417	3,751	3,672	7430173.4%
Scheduled	905	2,456	3,361	100.00%	905	2,353	3,258	2,758	1,099	39	3,043	367	3,165	3,086	102.5%
yyyyyyyyyy	0	0	0	0.00%	0	0	0	0	0	0	0	0	0	0	
Sewer Only	0	5,961,939	5,961,939	100.53%	0	5,743,596	5,743,596	4,862,207	2,233,412	79,155	5,230,724	631,327	5,572,688	5,613,942	99.3%
Groundwater	0	2,936,224	2,936,224	100.00%	0	2,813,881	2,813,881	2,382,074	2,522,374	89,396	2,663,136	321,429	2,792,900	2,833,267	98.6%
Subtotal	51,883,871	227,912,347	279,796,218		51,883,297	218,442,941	270,326,238	228,843,061	198,074,390	7,020,000	250,673,958	30,255,306	266,118,367	263,743,686	100.9%
Surcharge (COS)	7,026,212	0	7,026,212	100.0%	7,026,212		7,026,212	5,947,998		LagRate-22==>	6,286,000	758,694	6,706,692	7,123,019	94.2%
Total	58,910,083	227,912,347	286,822,430		58,909,509	218,442,941	277,352,450	234,791,058			256,959,958	31,014,000	272,825,058	270,866,705	100.7%

		Receipts
Current Yr Receipts:		$
84.65% of Subtotal less yyyyyyyyyy		228,843,061
Plus 100% of yyyyyyyyyy		0
Plus 84.65% of Surcharge		5,947,998
Plus 1/2 Mo Vol @ Existing Rates	LagRate-13	7,020,000
Prior Yr Receipts:		
1st Prior Year	LagRate-13	26,124,000
2nd Prior Year	LagRate-13	4,890,000
Total Receipts		272,825,058
	vs LagRate-24==>	270,866,705
		100.7%
	difference	(1,958,353)

File: SCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
XXXXXX - PAGE NOT IN USE	P.N. 135647.0100	January 27, 2023 January 27, 2023 4:07 p.m.					LagRate-39

File: SCOS23_24_ver1.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2024 | Budget Yr 2023 | Ver. 1a
SSERVCHGS - 2024 Components of Sewer Service Charges | P.N. 135647.0100 | January 27, 2023 January 27, 2023 4:07 p.m. | LagRate-40

		Collection System Stormwater Costs Equiv. Meters	Customer Costs: Meter Costs Equiv. Meters	Billing Costs: Sanitary Equiv. Bills	Billing Costs: Stormwater Bills	Industrial Waste Costs Equiv. Meters	Stormwater I/I Costs Equiv. Meters	Sanitary I/I Costs Equiv. Meters	Stormwater Direct Equiv. Meters	Total Cost $	Reference	Rounding Factor	IA/GA Stormwater	Other Stormwater	Sanitary
5/8 Inch Meter	2024 COS Service Charge	0.0000	0.6573	3.2335		0.5078		2.7828		7.1814	Servchg-2				
	Lag + Rounding Factor	1.0483	1.0483	1.0483		1.0483		1.0483		1.0483	LagRate-14	(0.0017)			
	2024 Adjusted COS Service Charge	0.0000	0.6890	3.3897		0.5323		2.9172		7.5282					
	Proration of Transition Rate Adjustment	N/A						N/A		N/A					
	Total Service Charge	0.0000	0.6890	3.3897		0.5323		2.9172		7.5282					
	Total Service Charge Rounded	0.00	0.69	3.39		0.53		2.92		7.54	LagRate-31	(0.01)	0.00	0.00	7.53
	Times (100%-25%) Charities Discount	0.00	0.52	2.54		0.40		2.19		5.66	LagRate-31				
3/4 Inch Meter	2024 COS Service Charge	0.0000	0.9860	3.2335		0.7617		4.1742		9.1554	Servchg-2				
	Lag + Rounding Factor	1.0504	1.0504	1.0504		1.0504		1.0504		1.0504	LagRate-14	0.0004			
	2024 Adjusted COS Service Charge	0.0000	1.0357	3.3965		0.8001		4.3846		9.6169					
	Proration of Transition Rate Adjustment	N/A						N/A		N/A					
	Total Service Charge	0.0000	1.0357	3.3965		0.8001		4.3846		9.6169					
	Total Service Charge Rounded	0.00	1.04	3.40		0.80		4.38		9.62	LagRate-31	0.00	0.00	0.00	9.62
	Times (100%-25%) Charities Discount	0.00	0.78	2.55		0.60		3.29		7.22	LagRate-31				
1 Inch Meter:	2024 COS Service Charge	0.0000	1.6433	3.5569		1.2695		6.9570		13.4267	Servchg-2				
	Lag + Rounding Factor	1.0500	1.0500	1.0500		1.0500		1.0500		1.0500	LagRate-14	0.0000			
	2024 Adjusted COS Service Charge	0.0000	1.7255	3.7347		1.3330		7.3049		14.0981					
	Proration of Transition Rate Adjustment	N/A						N/A		N/A					
	Total Service Charge	0.0000	1.7255	3.7347		1.3330		7.3049		14.0981					
	Total Service Charge Rounded	0.00	1.73	3.73		1.33		7.30		14.10	LagRate-31	(0.01)	0.00	0.00	14.09
	Times (100%-25%) Charities Discount	0.00	1.30	2.80		1.00		5.48		10.58	LagRate-31				
1-1/4 Inch Me	2024 COS Service Charge	0.0000	2.4977	3.8802		1.9296		10.5746		18.8821	Servchg-2				
	Lag + Rounding Factor	1.0502	1.0502	1.0502		1.0502		1.0502		1.0502	LagRate-14	0.0002			
	2024 Adjusted COS Service Charge	0.0000	2.6231	4.0750		2.0265		11.1054		19.8300					
	Proration of Transition Rate Adjustment	N/A						N/A		N/A					
	Total Service Charge	0.0000	2.6231	4.0750		2.0265		11.1054		19.8300					
	Total Service Charge Rounded	0.00	2.62	4.08		2.03		11.11		19.82	LagRate-31	0.02	0.00	0.00	19.84
	Times (100%-25%) Charities Discount	0.00	1.97	3.06		1.52		8.33		14.87	LagRate-31				
1-1/2 Inch Me	2024 COS Service Charge	0.0000	3.2865	3.8802		2.5390		13.9140		23.6197	Servchg-2				
	Lag + Rounding Factor	1.0504	1.0504	1.0504		1.0504		1.0504		1.0504	LagRate-14	0.0004			
	2024 Adjusted COS Service Charge	0.0000	3.4521	4.0757		2.6669		14.6150		24.8097					
	Proration of Transition Rate Adjustment	N/A						N/A		N/A					
	Total Service Charge	0.0000	3.4521	4.0757		2.6669		14.6150		24.8097					
	Total Service Charge Rounded	0.00	3.45	4.08		2.67		14.62		24.80	LagRate-31	0.02	0.00	0.00	24.82
	Times (100%-25%) Charities Discount	0.00	2.59	3.06		2.00		10.97		18.60	LagRate-31				
2 Inch Meter:	2024 COS Service Charge	0.0000	5.2584	4.8503		4.0624		22.2624		36.4335	Servchg-2				
	Lag + Rounding Factor	1.0500	1.0500	1.0500		1.0500		1.0500		1.0500	LagRate-14	0.0000			
	2024 Adjusted COS Service Charge	0.0000	5.5213	5.0928		4.2655		23.3755		38.2551					
	Proration of Transition Rate Adjustment	N/A						N/A		N/A					
	Total Service Charge	0.0000	5.5213	5.0928		4.2655		23.3755		38.2551					
	Total Service Charge Rounded	0.00	5.52	5.09		4.27		23.38		38.25	LagRate-31	0.01	0.00	0.00	38.26
	Times (100%-25%) Charities Discount	0.00	4.14	3.82		3.20		17.54		28.69	LagRate-31				
3 Inch Meter:	2024 COS Service Charge	0.0000	9.8595	6.4670		7.6170		41.7420		65.6855	Servchg-2				
	Lag + Rounding Factor	1.0499	1.0499	1.0499		1.0499		1.0499		1.0499	LagRate-14	(0.0001)			
	2024 Adjusted COS Service Charge	0.0000	10.3512	6.7895		7.9969		43.8237		68.9613					
	Proration of Transition Rate Adjustment	N/A						N/A		N/A					
	Total Service Charge	0.0000	10.3512	6.7895		7.9969		43.8237		68.9613					
	Total Service Charge Rounded	0.00	10.35	6.79		8.00		43.82		68.97	LagRate-31	(0.01)	0.00	0.00	68.96
	Times (100%-25%) Charities Discount	0.00	7.76	5.09		6.00		32.87		51.73	LagRate-31				
4 Inch Meter:	2024 COS Service Charge	0.0000	16.4325	12.9340		12.6950		69.5700		111.6315	Servchg-2				
	Lag + Rounding Factor	1.0501	1.0501	1.0501		1.0501		1.0501		1.0501	LagRate-14	0.0001			
	2024 Adjusted COS Service Charge	0.0000	17.2558	13.5820		13.3310		73.0555		117.2243					
	Proration of Transition Rate Adjustment	N/A						N/A		N/A					
	Total Service Charge	0.0000	17.2558	13.5820		13.3310		73.0555		117.2243					
	Total Service Charge Rounded	0.00	17.26	13.58		13.33		73.06		117.21	LagRate-31	0.02	0.00	0.00	117.23
	Times (100%-25%) Charities Discount	0.00	12.95	10.19		10.00		54.80		87.91	LagRate-31				
6 Inch Meter:	2024 COS Service Charge	0.0000	32.8650	22.6345		25.3900		139.1400		220.0295	Servchg-2				
	Lag + Rounding Factor	1.0500	1.0500	1.0500		1.0500		1.0500		1.0500	LagRate-14	0.0000			
	2024 Adjusted COS Service Charge	0.0000	34.5089	23.7667		26.6600		146.0998		231.0354					
	Proration of Transition Rate Adjustment	N/A						N/A		N/A					
	Total Service Charge	0.0000	34.5089	23.7667		26.6600		146.0998		231.0354					
	Total Service Charge Rounded	0.00	34.51	23.77		26.66		146.10		231.03	LagRate-31	0.01	0.00	0.00	231.04
	Times (100%-25%) Charities Discount	0.00	25.88	17.83		20.00		109.58		173.27	LagRate-31				
8 Inch Meter:	2024 COS Service Charge	0.0000	52.5840	32.3350		40.6240		222.6240		348.1670	Servchg-2				
	Lag + Rounding Factor	1.0500	1.0500	1.0500		1.0500		1.0500		1.0500	LagRate-14	0.0000			
	2024 Adjusted COS Service Charge	0.0000	55.2134	33.9518		42.6553		233.7559		365.5764					
	Proration of Transition Rate Adjustment	N/A						N/A		N/A					
	Total Service Charge	0.0000	55.2134	33.9518		42.6553		233.7559		365.5764					
	Total Service Charge Rounded	0.00	55.21	33.95		42.66		233.76		365.58	LagRate-31	0.00	0.00	0.00	365.58
	Times (100%-25%) Charities Discount	0.00	41.41	25.46		32.00		175.32		274.19	LagRate-31				
10 Inch Meter	2024 COS Service Charge	0.0000	75.5895	48.5025		58.3970		320.0220		502.5110	Servchg-2				
	Lag + Rounding Factor	1.0500	1.0500	1.0500		1.0500		1.0500		1.0500	LagRate-14	0.0000			
	2024 Adjusted COS Service Charge	0.0000	79.3697	50.9281		61.3174		336.0263		527.6415					
	Proration of Transition Rate Adjustment	N/A						N/A		N/A					
	Total Service Charge	0.0000	79.3697	50.9281		61.3174		336.0263		527.6415					
	Total Service Charge Rounded	0.00	79.37	50.93		61.32		336.03		527.64	LagRate-31	0.01	0.00	0.00	527.65
	Times (100%-25%) Charities Discount	0.00	59.53	38.20		45.99		252.02		395.73	LagRate-31				
12 Inch Meter	2024 COS Service Charge	0.0000	141.3195	64.6700		109.1770		598.3020		913.4685	Servchg-2				
	Lag + Rounding Factor	1.0500	1.0500	1.0500		1.0500		1.0500		1.0500	LagRate-14	0.0000			
	2024 Adjusted COS Service Charge	0.0000	148.3855	67.9035		114.6359		628.2171		959.1420					
	Proration of Transition Rate Adjustment	N/A						N/A		N/A					
	Total Service Charge	0.0000	148.3855	67.9035		114.6359		628.2171		959.1420					

Total Service Charge Rounded	0.00	148.39	67.90	114.64	628.22	959.14	LagRate-31	0.01	0.00	0.00	959.15
Times (100%-25%) Charities Discount	0.00	111.29	50.93	85.98	471.17	719.36	LagRate-31				
14 Inch Meter 2024 COS Service Charge	0.0000	147.8925	74.3705	114.2550	626.1300	962.6480	Servchg-2				
Lag + Rounding Factor	1.0500	1.0500	1.0500	1.0500	1.0500	1.0500	LagRate-14	0.0000			
2024 Adjusted COS Service Charge	0.0000	155.2871	78.0890	119.9678	657.4365	1,010.7804					
Proration of Transition Rate Adjustment	N/A				N/A	N/A					
Total Service Charge	0.0000	155.2871	78.0890	119.9678	657.4365	1,010.7804					
Total Service Charge Rounded	0.00	155.29	78.09	119.97	657.44	0.00	LagRate-31		0.00	0.00	1,010.79
Times (100%-25%) Charities Discount	0.00	116.47	58.57	89.98	493.08	0.00	LagRate-31				

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XXXXXX - PAGE NOT IN USE	P.N. 135647.0100	January 27, 2023 January 27, 2023 4:07 p.m.					LagRate-42

Rate Components of Regular Sewer Service Charges

	Collection System Stormwater Costs Equiv. Meters	Customer Costs: Meter Costs Equiv. Meters	Billing Costs: Sanitary Equiv. Bills	Billing Costs: Stormwater Equiv. Bills	Industrial Waste Costs Equiv. Meters	Stormwater I/I Costs Equiv. Meters	Sanitary I/I Costs Equiv. Meters	Warranty Costs Equiv. Service	Total Cost $	Reference	IA/GA Stormwater	Billing & Collecting Stormwater	Sanitary Sewer
FY 2024 Service Charges			**Regular Sewer Service Charges Detail**										
5/8 Inch Meter:		0.6900	3.3900		0.5300		2.9200	0.0000	7.5300	LagRate-40			7.5300
3/4 Inch Meter:		1.0400	3.4000		0.8000		4.3800	0.0000	9.6200	LagRate-40			9.6200
1 Inch Meter:		1.7300	3.7300		1.3300		7.3000	0.0000	14.0900	LagRate-40			14.0900
1-1/4 Inch Meter:		2.6200	4.0800		2.0300		11.1100	0.0000	19.8400	LagRate-40			19.8400
1-1/2 Inch Meter:		3.4500	4.0800		2.6700		14.6200	0.0000	24.8200	LagRate-40			24.8200
2 Inch Meter:		5.5200	5.0900		4.2700		23.3800	0.0000	38.2600	LagRate-40			38.2600
3 Inch Meter:		10.3500	6.7900		8.0000		43.8200	0.0000	68.9600	LagRate-40			68.9600
4 Inch Meter:		17.2600	13.5800		13.3300		73.0600	0.0000	117.2300	LagRate-40			117.2300
6 Inch Meter:		34.5100	23.7700		26.6600		146.1000	0.0000	231.0400	LagRate-40			231.0400
8 Inch Meter:		55.2100	33.9500		42.6600		233.7600	0.0000	365.5800	LagRate-40			365.5800
10 Inch Meter:		79.3700	50.9300		61.3200		336.0300	0.0000	527.6500	LagRate-40			527.6500
12 Inch Meter:		148.3900	67.9000		114.6400		628.2200	0.0000	959.1500	LagRate-40			959.1500

Rate Components of Discount Sewer Service Charges

	Collection System Stormwater Costs Equiv. Meters	Customer Costs: Meter Costs Equiv. Meters	Billing Costs: Sanitary Equiv. Bills	Billing Costs: Stormwater Equiv. Bills	Industrial Waste Costs Equiv. Meters	Stormwater I/I Costs Equiv. Meters	Sanitary I/I Costs Equiv. Meters	Warranty Costs Equiv. Service	Total Cost $	Reference	IA/GA Stormwater	Billing & Collecting Stormwater	Wastewater
FY 2024 Service Charges			**Discount Sewer Service Charges Detail**										
5/8 Inch Meter:		0.52	2.54		0.40		2.19	0.00	5.65	LagRate-40			5.65
3/4 Inch Meter:		0.78	2.55		0.60		3.29	0.00	7.22	LagRate-40			7.22
1 Inch Meter:		1.30	2.80		1.00		5.48	0.00	10.58	LagRate-40			10.58
1-1/4 Inch Meter:		1.97	3.06		1.52		8.33	0.00	14.88	LagRate-40			14.88
1-1/2 Inch Meter:		2.59	3.06		2.00		10.97	0.00	18.62	LagRate-40			18.62
2 Inch Meter:		4.14	3.82		3.20		17.54	0.00	28.70	LagRate-40			28.70
3 Inch Meter:		7.76	5.09		6.00		32.87	0.00	51.72	LagRate-40			51.72
4 Inch Meter:		12.95	10.19		10.00		54.80	0.00	87.94	LagRate-40			87.94
6 Inch Meter:		25.88	17.83		20.00		109.58	0.00	173.29	LagRate-40			173.29
8 Inch Meter:		41.41	25.46		32.00		175.32	0.00	274.19	LagRate-40			274.19
10 Inch Meter:		59.53	38.20		45.99		252.02	0.00	395.74	LagRate-40			395.74
12 Inch Meter:		111.29	50.93		85.98		471.17	0.00	719.37	LagRate-40			719.37

SCOS23_24.XLS

SWLAGRATE

The "SW LagRate" worksheet calculated projected billings and revenues under proposed stormwater rates.

Range	Page Number	Description
	SW LagRate - 1	PROJECTED BILLABLE PARCELS
	SW LagRate - 2	PROJECTED BILLABLE ACCOUNTS
	SW LagRate - 3	PROJECTED BILLABLE IMPERVIOUS AREA (1000 sq ft)
	SW LagRate - 4	PROJECTED BILLABLE GROSS AREA (1000 sq ft)
	SW LagRate - 5	PROJECTED BILLINGS UNDER COS RATES
	SW LagRate - 6	PROPOSED RATES (ADJUSTED FOR DISCOUNT RECOVERY AND LAG FACTOR)
	SW LagRate - 7	PROJECTED BILLINGS UNDER PROPOSED RATES
	SW LagRate - 8	STORMWATER REVENUES UNDER PROPOSED RATES-TEST YEAR 2024

PROJECTED BILLABLE PARCELS

SW LagRate - 1

	2023	2024	2025	2026	2027	2028	2029
Residential							
Non-Discount							
Water & Sewer	430,782	430,782	430,782	430,782	430,782	430,782	430,782
SW Only	7,139	7,139	7,139	7,139	7,139	7,139	7,139
Discount Non-PHA							
Water & Sewer	21,534	21,534	21,534	21,534	21,534	21,534	21,534
SW Only	14	14	14	14	14	14	14
Discount PHA							
Water & Sewer	3,796	3,796	3,796	3,796	3,796	3,796	3,796
SW Only	143	143	143	143	143	143	143
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	463,408	463,408	463,408	463,408	463,408	463,408	463,408
Non-Residential							
Non-Discount							
Water & Sewer	33,696	33,695	33,695	33,695	33,695	33,694	33,694
SW Only	32,276	32,271	32,267	32,262	32,258	32,253	32,249
Discount Non-PHA							
Water & Sewer	1,349	1,349	1,348	1,347	1,347	1,346	1,346
SW Only	169	167	164	162	160	158	155
Discount PHA							
Water & Sewer	236	236	236	236	236	236	236
SW Only	1,198	1,197	1,197	1,196	1,196	1,196	1,195
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	68,923	68,915	68,907	68,899	68,891	68,883	68,875

Condominiums							
Non-Discount							
Water & Sewer	2,202	2,202	2,202	2,202	2,202	2,202	2,202
SW Only	37	37	37	37	37	37	37
Discount Non-PHA							
Water & Sewer	42	42	42	42	42	42	42
SW Only	0	0	0	0	0	0	0
Discount PHA							
Water & Sewer	1	1	1	1	1	1	1
SW Only	0	0	0	0	0	0	0
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	2,282	2,282	2,282	2,282	2,282	2,282	2,282
Total Billable Parcels	534,613	534,605	534,597	534,589	534,581	534,573	534,565

PROJECTED BILLABLE ACCOUNTS

SW LagRate - 2

	2023	2024	2025	2026	2027	2028	2029
Residential							
Non-Discount							
Water & Sewer	432,724	432,724	432,724	432,724	432,724	432,724	432,724
SW Only	7,175	7,175	7,175	7,175	7,175	7,175	7,175
Discount Non-PHA							
Water & Sewer	21,579	21,579	21,579	21,579	21,579	21,579	21,579
SW Only	14	14	14	14	14	14	14
Discount PHA							
Water & Sewer	3,965	3,965	3,965	3,965	3,965	3,965	3,965
SW Only	144	144	144	144	144	144	144
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	465,601	465,601	465,601	465,601	465,601	465,601	465,601
Non-Residential							
Non-Discount							
Water & Sewer	40,491	40,490	40,490	40,490	40,490	40,489	40,489
SW Only	32,473	32,468	32,464	32,459	32,455	32,450	32,446
Discount Non-PHA							
Water & Sewer	1,840	1,840	1,839	1,838	1,838	1,837	1,837
SW Only	169	167	164	162	160	158	155
Discount PHA							
Water & Sewer	1,445	1,445	1,445	1,445	1,445	1,445	1,445
SW Only	1,245	1,244	1,244	1,243	1,243	1,243	1,242
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	77,662	77,654	77,646	77,638	77,630	77,622	77,614

Condominiums							
Non-Discount							
Water & Sewer	4,608	4,608	4,608	4,608	4,608	4,608	4,608
SW Only	42	42	42	42	42	42	42
Discount Non-PHA							
Water & Sewer	627	627	627	627	627	627	627
SW Only	0	0	0	0	0	0	0
Discount PHA							
Water & Sewer	0	0	0	0	0	0	0
SW Only	1	1	1	1	1	1	1
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	5,278	5,278	5,278	5,278	5,278	5,278	5,278
Total Billable Parcels	548,541	548,533	548,525	548,517	548,509	548,501	548,493

PROJECTED BILLABLE IMPERVIOUS AREA (1000 sq ft) SW LagRate - 3

	2023	2024	2025	2026	2027	2028	2029
Residential							
Non-Discount							
Water & Sewer	512,631	512,631	512,631	512,631	512,630	512,630	512,630
SW Only	8,495	8,495	8,495	8,495	8,495	8,495	8,495
Discount Non-PHA							
Water & Sewer	25,625	25,625	25,625	25,625	25,625	25,625	25,625
SW Only	17	17	17	17	17	17	17
Discount PHA							
Water & Sewer	4,517	4,517	4,517	4,517	4,517	4,517	4,517
SW Only	170	170	170	170	170	170	170
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	551,455	551,455	551,455	551,455	551,454	551,454	551,454
Non-Residential							
Non-Discount							
Water & Sewer	457,289	453,943	451,020	448,653	446,429	443,929	441,492
SW Only	71,856	71,325	70,846	70,442	70,048	69,605	69,173
Discount Non-PHA							
Water & Sewer	62,541	62,286	62,056	61,862	61,672	61,459	61,252
SW Only	3,009	3,004	2,999	2,995	2,991	2,986	2,982
Discount PHA							
Water & Sewer	7,005	7,005	7,005	7,005	7,005	7,005	7,005
SW Only	1,197	1,197	1,197	1,196	1,196	1,196	1,196
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	602,898	598,759	595,122	592,153	589,341	586,180	583,098

Condominiums							
Non-Discount							
Water & Sewer	19,882	19,716	19,566	19,440	19,318	19,179	19,044
SW Only	657	657	657	657	656	656	656
Discount Non-PHA							
Water & Sewer	738	730	723	717	712	705	699
SW Only	0	0	0	0	0	0	0
Discount PHA							
Water & Sewer	6	6	6	6	6	6	6
SW Only	0	0	0	0	0	0	0
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	21,283	21,109	20,953	20,821	20,692	20,547	20,406
Total Impervious Area	1,175,635	1,171,323	1,167,530	1,164,428	1,161,488	1,158,181	1,154,958

PROJECTED BILLABLE GROSS AREA (1000 sq ft) **SW LagRate - 4**

	2023	2024	2025	2026	2027	2028	2029
Residential							
Non-Discount							
Water & Sewer	904,642	904,641	904,641	904,641	904,640	904,640	904,640
SW Only	14,992	14,992	14,992	14,992	14,992	14,992	14,992
Discount Non-PHA							
Water & Sewer	45,221	45,221	45,221	45,221	45,221	45,221	45,221
SW Only	29	29	29	29	29	29	29
Discount PHA							
Water & Sewer	7,972	7,972	7,972	7,972	7,972	7,972	7,972
SW Only	300	300	300	300	300	300	300
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	973,156	973,156	973,156	973,155	973,155	973,155	973,154
Non-Residential							
Non-Discount							
Water & Sewer	789,009	784,695	780,745	777,273	773,924	770,337	766,804
SW Only	226,846	225,349	223,945	222,675	221,422	220,082	218,762
Discount Non-PHA							
Water & Sewer	106,356	105,809	105,295	104,827	104,366	103,874	103,388
SW Only	5,893	5,876	5,860	5,846	5,831	5,815	5,800
Discount PHA							
Water & Sewer	12,971	12,971	12,971	12,971	12,971	12,971	12,971
SW Only	3,277	3,275	3,274	3,272	3,271	3,269	3,268
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	1,144,352	1,137,977	1,132,091	1,126,864	1,121,785	1,116,349	1,110,994

Condominiums							
Non-Discount							
Water & Sewer	28,690	28,544	28,407	28,283	28,161	28,031	27,903
SW Only	951	950	949	948	947	946	945
Discount Non-PHA							
Water & Sewer	1,362	1,351	1,341	1,332	1,322	1,313	1,303
SW Only	0	0	0	0	0	0	0
Discount PHA							
Water & Sewer	9	9	9	9	9	9	9
SW Only	0	0	0	0	0	0	0
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	31,012	30,854	30,706	30,572	30,441	30,299	30,160
Total Gross Area	2,148,521	2,141,987	2,135,953	2,130,592	2,125,380	2,119,803	2,114,309

Residential Billing & Collection charge	$	1.86	Adjusted for Discount Recovery Factor
Non Residential Billing & Collection charge	$	2.42	

Residential GA/IA charge	$16.28	Area (sq ft)	1,000
Non Residential IA charge ($/500 sq ft)	$5.564		500
Non Residential GA charge ($/500 sq ft)	$0.761	No. of Bills	12

Senior Citizen Discount applied to category "Residential Discount Non-PHA"	25.00%
Charities, Hospitals, Schools Discount applied to "Non-Residential Discount Non-PHA"	25.00%
PHA Discount applied to categories "Residential and Non Residential Discount PHA"	5.00%

PROJECTED BILLINGS UNDER COS RATES — SW LagRate - 5

Stormwater Billings (Billing & Collection)	2023	2024	2025	2026	2027	2028	2029
Residential							
Non-Discount							
Water & Sewer	9,658,400	9,658,400	9,658,400	9,658,400	9,658,400	9,658,400	9,658,400
SW Only	160,146	160,146	160,146	160,146	160,146	160,146	160,146
Discount Non-PHA							
Water & Sewer	361,232	361,232	361,232	361,232	361,232	361,232	361,232
SW Only	234	234	234	234	234	234	234
Discount PHA							
Water & Sewer	84,074	84,074	84,074	84,074	84,074	84,074	84,074
SW Only	3,053	3,053	3,053	3,053	3,053	3,053	3,053
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	10,267,140	10,267,140	10,267,140	10,267,140	10,267,140	10,267,140	10,267,140
Non-Residential							
Non-Discount							
Water & Sewer	1,175,850	1,175,842	1,175,834	1,175,825	1,175,817	1,175,809	1,175,801
SW Only	943,003	942,875	942,746	942,618	942,489	942,360	942,232
Discount Non-PHA							
Water & Sewer	40,083	40,069	40,055	40,041	40,027	40,013	39,999
SW Only	3,675	3,626	3,577	3,528	3,479	3,430	3,381
Discount PHA							
Water & Sewer	39,865	39,865	39,865	39,865	39,865	39,865	39,865
SW Only	34,336	34,325	34,315	34,304	34,293	34,282	34,271
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	2,236,813	2,236,602	2,236,392	2,236,181	2,235,970	2,235,759	2,235,549

Condominiums							
Non-Discount							
Water & Sewer	133,816	133,816	133,816	133,816	133,816	133,816	133,816
SW Only	1,220	1,220	1,220	1,220	1,220	1,220	1,220
Discount Non-PHA							
Water & Sewer	13,656	13,656	13,656	13,656	13,656	13,656	13,656
SW Only	0	0	0	0	0	0	0
Discount PHA							
Water & Sewer	0	0	0	0	0	0	0
SW Only	28	28	28	28	28	28	28
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	148,720	148,720	148,720	148,720	148,720	148,720	148,720
Subtotal Billing & Collection Stormwater Charges	12,652,672	12,652,462	12,652,251	12,652,040	12,651,829	12,651,619	12,651,408
W&S	11,506,976	11,506,954	11,506,932	11,506,909	11,506,887	11,506,865	11,506,843
SW Only	1,145,696	1,145,508	1,145,319	1,145,131	1,144,942	1,144,754	1,144,565
xxxxxxxxxx	0	0	0	0	0	0	0
Total	12,652,672	12,652,462	12,652,251	12,652,040	12,651,829	12,651,619	12,651,408

Stormwater Billings (GA/IA)	2023	2024	2025	2026	2027	2028	2029
Residential							
Non-Discount							
Water & Sewer	84,157,572	84,157,572	84,157,572	84,157,572	84,157,572	84,157,572	84,157,572
SW Only	1,394,675	1,394,675	1,394,675	1,394,675	1,394,675	1,394,675	1,394,675
Discount Non-PHA							
Water & Sewer	3,155,162	3,155,162	3,155,162	3,155,162	3,155,162	3,155,162	3,155,162
SW Only	2,051	2,051	2,051	2,051	2,051	2,051	2,051
Discount PHA							
Water & Sewer	704,507	704,507	704,507	704,507	704,507	704,507	704,507
SW Only	26,540	26,540	26,540	26,540	26,540	26,540	26,540
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	89,440,506	89,440,506	89,440,506	89,440,506	89,440,506	89,440,506	89,440,506
Non-Residential							
Non-Discount							
Water & Sewer	75,475,063	74,949,358	74,486,953	74,107,432	73,749,334	73,349,903	72,959,919
SW Only	13,738,523	13,640,296	13,550,681	13,473,529	13,398,003	13,314,348	13,232,552
Discount Non-PHA							
Water & Sewer	7,720,454	7,687,421	7,657,328	7,631,490	7,606,208	7,578,150	7,550,727
SW Only	382,073	381,318	380,617	379,995	379,383	378,719	378,068
Discount PHA							
Water & Sewer	1,113,677	1,113,677	1,113,677	1,113,677	1,113,677	1,113,677	1,113,677
SW Only	208,742	208,681	208,620	208,559	208,498	208,438	208,377
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	98,638,532	97,980,750	97,397,876	96,914,682	96,455,102	95,943,234	95,443,318

Condominiums							
Non-Discount							
Water & Sewer	3,178,914	3,154,116	3,131,653	3,112,569	3,093,926	3,073,079	3,052,736
SW Only	105,166	105,103	105,045	104,996	104,947	104,894	104,841
Discount Non-PHA							
Water & Sewer	92,529	91,620	90,795	90,091	89,402	88,635	87,886
SW Only	0	0	0	0	0	0	0
Discount PHA							
Water & Sewer	944	944	944	944	944	944	944
SW Only	0	0	0	0	0	0	0
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	3,377,552	3,351,782	3,328,436	3,308,599	3,289,219	3,267,552	3,246,407
SubTotal GA/IA Stormwater Billings	191,456,590	190,773,039	190,166,818	189,663,787	189,184,828	188,651,293	188,130,232
W&S	175,598,820	175,014,375	174,498,589	174,073,443	173,670,731	173,221,628	172,783,128
SW Only	15,857,769	15,758,664	15,668,229	15,590,345	15,514,097	15,429,665	15,347,103
xxxxxxxxxx	0	0	0	0	0	0	0
Total	191,456,590	190,773,039	190,166,818	189,663,787	189,184,828	188,651,293	188,130,232

SUM OF STORMWATER BILLING & COLLECTION AND GA/IA CHARGE UNDER COS RATES

Stormwater Billings (Billing & Collection & GA/IA)	2023	2024	2025	2026	2027	2028	2029
Residential							
Non-Discount							
Water & Sewer	93,815,971	93,815,971	93,815,971	93,815,971	93,815,971	93,815,971	93,815,971
SW Only	1,554,821	1,554,821	1,554,821	1,554,821	1,554,821	1,554,821	1,554,821
Discount Non-PHA							
Water & Sewer	3,516,394	3,516,394	3,516,394	3,516,394	3,516,394	3,516,394	3,516,394
SW Only	2,286	2,286	2,286	2,286	2,286	2,286	2,286
Discount PHA							
Water & Sewer	788,581	788,581	788,581	788,581	788,581	788,581	788,581
SW Only	29,593	29,593	29,593	29,593	29,593	29,593	29,593
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	99,707,646	99,707,646	99,707,646	99,707,646	99,707,646	99,707,646	99,707,646
Non-Residential							
Non-Discount							
Water & Sewer	76,650,913	76,125,200	75,662,787	75,283,258	74,925,151	74,525,712	74,135,719
SW Only	14,681,527	14,583,171	14,493,428	14,416,147	14,340,492	14,256,709	14,174,784
Discount Non-PHA							
Water & Sewer	7,760,537	7,727,490	7,697,383	7,671,531	7,646,235	7,618,163	7,590,726
SW Only	385,748	384,944	384,194	383,523	382,862	382,150	381,449
Discount PHA							
Water & Sewer	1,153,541	1,153,541	1,153,541	1,153,541	1,153,541	1,153,541	1,153,541
SW Only	243,078	243,006	242,935	242,863	242,791	242,720	242,648
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	100,875,345	100,217,353	99,634,267	99,150,863	98,691,072	98,178,994	97,678,867

Condominiums							
Non-Discount							
Water & Sewer	3,312,730	3,287,932	3,265,469	3,246,385	3,227,742	3,206,896	3,186,553
SW Only	106,385	106,322	106,265	106,216	106,167	106,113	106,061
Discount Non-PHA							
Water & Sewer	106,185	105,276	104,451	103,747	103,058	102,291	101,542
SW Only	0	0	0	0	0	0	0
Discount PHA							
Water & Sewer	944	944	944	944	944	944	944
SW Only	28	28	28	28	28	28	28
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	3,526,271	3,500,501	3,477,156	3,457,319	3,437,939	3,416,271	3,395,127
Total Stormwater Billings	204,109,262	203,425,500	202,819,069	202,315,828	201,836,657	201,302,911	200,781,640

	2023	2024	2025	2026	2027	2028	2029
Billing & Collection Stormwater Charges							
Water & Sewer	11,506,976	11,506,954	11,506,932	11,506,909	11,506,887	11,506,865	11,506,843
SW Only	1,145,696	1,145,508	1,145,319	1,145,131	1,144,942	1,144,754	1,144,565
xxxxxxxxxx	0	0	0	0	0	0	0
Subtotal Billing & Collection Charges	12,652,672	12,652,462	12,652,251	12,652,040	12,651,829	12,651,619	12,651,408
Parcel Area Stormwater Charges							
Water & Sewer	175,598,820	175,014,375	174,498,589	174,073,443	173,670,731	173,221,628	172,783,128
SW Only	15,857,769	15,758,664	15,668,229	15,590,345	15,514,097	15,429,665	15,347,103
xxxxxxxxxx	0	0	0	0	0	0	0
Subtotal Parcel Based Charges	191,456,590	190,773,039	190,166,818	189,663,787	189,184,828	188,651,293	188,130,232

PROPOSED RATES (ADJUSTED FOR DISCOUNT RECOVERY AND LAG FACTOR) SW LagRate - 6

Residential Billing & Collection charge	$	1.95	Adjusted for Discount Recovery & Lag Factor
Non Residential Billing & Collection charge	$	2.53	

Residential GA/IA charge	$17.09
Non Residential IA charge ($/500 sq ft)	$5.842
Non Residential GA charge ($/500 sq ft)	$0.799

Note Rounded the Non Residential IA/GA charge to 3 decimal places as shown in the PWD Regulations

PROJECTED BILLINGS UNDER PROPOSED RATES

SW LagRate - 7

Stormwater Billings (Billing & Collection)	2023	2024	2025	2026	2027	2028	2029
Residential							
Non-Discount							
Water & Sewer	10,125,742	10,125,742	10,125,742	10,125,742	10,125,742	10,125,742	10,125,742
SW Only	167,895	167,895	167,895	167,895	167,895	167,895	167,895
Discount Non-PHA							
Water & Sewer	378,711	378,711	378,711	378,711	378,711	378,711	378,711
SW Only	246	246	246	246	246	246	246
Discount PHA							
Water & Sewer	88,142	88,142	88,142	88,142	88,142	88,142	88,142
SW Only	3,201	3,201	3,201	3,201	3,201	3,201	3,201
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	10,763,937	10,763,937	10,763,937	10,763,937	10,763,937	10,763,937	10,763,937
Non-Residential							
Non-Discount							
Water & Sewer	1,229,298	1,229,289	1,229,281	1,229,272	1,229,263	1,229,255	1,229,246
SW Only	985,867	985,733	985,598	985,464	985,329	985,195	985,061
Discount Non-PHA							
Water & Sewer	41,905	41,890	41,876	41,861	41,846	41,832	41,817
SW Only	3,842	3,791	3,740	3,689	3,638	3,586	3,535
Discount PHA							
Water & Sewer	41,677	41,677	41,677	41,677	41,677	41,677	41,677
SW Only	35,897	35,886	35,874	35,863	35,852	35,840	35,829
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal Non Residential	2,338,486	2,338,266	2,338,046	2,337,825	2,337,605	2,337,385	2,337,164

Condominiums							
Non-Discount							
Water & Sewer	139,899	139,899	139,899	139,899	139,899	139,899	139,899
SW Only	1,275	1,275	1,275	1,275	1,275	1,275	1,275
Discount Non-PHA							
Water & Sewer	14,277	14,277	14,277	14,277	14,277	14,277	14,277
SW Only	0	0	0	0	0	0	0
Discount PHA							
Water & Sewer	0	0	0	0	0	0	0
SW Only	29	29	29	29	29	29	29
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal Condominium	155,480	155,480	155,480	155,480	155,480	155,480	155,480
SubTotal Billing & Collection SW Charges (proposed)	13,257,903	13,257,682	13,257,462	13,257,242	13,257,022	13,256,801	13,256,581
W&S	12,059,650	12,059,627	12,059,604	12,059,580	12,059,557	12,059,534	12,059,511
SW Only	1,198,252	1,198,055	1,197,858	1,197,661	1,197,464	1,197,267	1,197,070
xxxxxxxxxx	0	0	0	0	0	0	0
Subtotal Billing & Collection (Proposed Rates)	13,257,903	13,257,682	13,257,462	13,257,242	13,257,022	13,256,801	13,256,581

Stormwater Billings (GA/IA) (Proposed Rates)	2023	2024	2025	2026	2027	2028	2029
Residential							
Non-Discount							
Water & Sewer	88,344,773	88,344,773	88,344,773	88,344,773	88,344,773	88,344,773	88,344,773
SW Only	1,464,066	1,464,066	1,464,066	1,464,066	1,464,066	1,464,066	1,464,066
Discount Non-PHA							
Water & Sewer	3,312,145	3,312,145	3,312,145	3,312,145	3,312,145	3,312,145	3,312,145
SW Only	2,153	2,153	2,153	2,153	2,153	2,153	2,153
Discount PHA							
Water & Sewer	739,559	739,559	739,559	739,559	739,559	739,559	739,559
SW Only	27,860	27,860	27,860	27,860	27,860	27,860	27,860
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	93,890,556	93,890,556	93,890,556	93,890,556	93,890,556	93,890,556	93,890,556
Non-Residential							
Non-Discount							
Water & Sewer	79,245,674	78,693,705	78,208,199	77,809,717	77,433,729	77,014,343	76,604,875
SW Only	14,424,832	14,321,698	14,227,607	14,146,600	14,067,301	13,979,468	13,893,585
Discount Non-PHA							
Water & Sewer	8,106,156	8,071,473	8,039,876	8,012,748	7,986,202	7,956,743	7,927,949
SW Only	401,161	400,368	399,632	398,978	398,336	397,639	396,955
Discount PHA							
Water & Sewer	1,169,314	1,169,314	1,169,314	1,169,314	1,169,314	1,169,314	1,169,314
SW Only	219,169	219,106	219,042	218,978	218,914	218,850	218,786
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal Non Residential	103,566,307	102,875,663	102,263,669	101,756,336	101,273,796	100,736,356	100,211,465

Condominiums							
Non-Discount							
Water & Sewer	3,337,729	3,311,692	3,288,107	3,268,070	3,248,496	3,226,608	3,205,248
SW Only	110,420	110,354	110,293	110,241	110,190	110,134	110,079
Discount Non-PHA							
Water & Sewer	97,151	96,197	95,331	94,591	93,869	93,063	92,276
SW Only	0	0	0	0	0	0	0
Discount PHA							
Water & Sewer	991	991	991	991	991	991	991
SW Only	0	0	0	0	0	0	0
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	3,546,291	3,519,234	3,494,722	3,473,894	3,453,546	3,430,796	3,408,595
SubTotal GA/IA Stormwater Billings	201,003,154	200,285,453	199,648,947	199,120,785	198,617,898	198,057,708	197,510,615
W&S	184,353,492	183,739,848	183,198,294	182,751,908	182,329,077	181,857,537	181,397,131
SW Only	16,649,661	16,545,605	16,450,653	16,368,878	16,288,821	16,200,171	16,113,485
xxxxxxxxxx	0	0	0	0	0	0	0
Total	201,003,154	200,285,453	199,648,947	199,120,785	198,617,898	198,057,708	197,510,615

SUM OF STORMWATER BILLING & COLLECTION AND GA/IA CHARGE UNDER PROPOSED RATES

Stormwater Billings (Billing & Collection & GA/IA)	2023	2024	2025	2026	2027	2028	2029
Residential							
Non-Discount							
Water & Sewer	98,470,514	98,470,514	98,470,514	98,470,514	98,470,514	98,470,514	98,470,514
SW Only	1,631,961	1,631,961	1,631,961	1,631,961	1,631,961	1,631,961	1,631,961
Discount Non-PHA							
Water & Sewer	3,690,856	3,690,856	3,690,856	3,690,856	3,690,856	3,690,856	3,690,856
SW Only	2,399	2,399	2,399	2,399	2,399	2,399	2,399
Discount PHA							
Water & Sewer	827,701	827,701	827,701	827,701	827,701	827,701	827,701
SW Only	31,061	31,061	31,061	31,061	31,061	31,061	31,061
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	104,654,493	104,654,493	104,654,493	104,654,493	104,654,493	104,654,493	104,654,493
Non-Residential							
Non-Discount							
Water & Sewer	80,474,972	79,922,995	79,437,480	79,038,989	78,662,992	78,243,597	77,834,121
SW Only	15,410,700	15,307,431	15,213,205	15,132,064	15,052,630	14,964,663	14,878,645
Discount Non-PHA							
Water & Sewer	8,148,061	8,113,363	8,081,752	8,054,609	8,028,049	7,998,575	7,969,767
SW Only	405,003	404,159	403,372	402,667	401,973	401,225	400,490
Discount PHA							
Water & Sewer	1,210,990	1,210,990	1,210,990	1,210,990	1,210,990	1,210,990	1,210,990
SW Only	255,066	254,991	254,916	254,841	254,766	254,691	254,615
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	105,904,793	105,213,929	104,601,714	104,094,161	103,611,401	103,073,741	102,548,629

Condominiums							
Non-Discount							
Water & Sewer	3,477,628	3,451,591	3,428,006	3,407,969	3,388,395	3,366,506	3,345,147
SW Only	111,695	111,629	111,568	111,516	111,466	111,409	111,354
Discount Non-PHA							
Water & Sewer	111,428	110,474	109,607	108,868	108,146	107,340	106,553
SW Only	0	0	0	0	0	0	0
Discount PHA							
Water & Sewer	991	991	991	991	991	991	991
SW Only	29	29	29	29	29	29	29
xxxxxxxxxx							
Water & Sewer	0	0	0	0	0	0	0
SW Only	0	0	0	0	0	0	0
Subtotal	3,701,771	3,674,713	3,650,201	3,629,373	3,609,025	3,586,275	3,564,074
Total Stormwater Billings	214,261,057	213,543,135	212,906,409	212,378,027	211,874,919	211,314,509	210,767,196
	2023	2024	2025	2026	2027	2028	2029

Billing & Collection Stormwater Charges							
Water & Sewer	12,059,650	12,059,627	12,059,604	12,059,580	12,059,557	12,059,534	12,059,511
SW Only	1,198,252	1,198,055	1,197,858	1,197,661	1,197,464	1,197,267	1,197,070
xxxxxxxxxx	0	0	0	0	0	0	0
Subtotal Billing & Collection Charges	13,257,903	13,257,682	13,257,462	13,257,242	13,257,022	13,256,801	13,256,581

Parcel Area Stormwater Charges

Water & Sewer	184,353,492	183,739,848	183,198,294	182,751,908	182,329,077	181,857,537	181,397,131
SW Only	16,649,661	16,545,605	16,450,653	16,368,878	16,288,821	16,200,171	16,113,485
xxxxxxxxxx	0	0	0	0	0	0	0
Subtotal Parcel Based Charges	201,003,154	200,285,453	199,648,947	199,120,785	198,617,898	198,057,708	197,510,615

STORMWATER REVENUES UNDER PROPOSED RATES-TEST YEAR 2024

SW LagRate - 8

Collection Factors	TY-2 2022	TY-1 2023	TY 2024	
Water, Sewer	2.04%	10.29%	84.65%	1,000
SW Only	7.23%	8.99%	64.20%	
xxxxxxxxxx			100.0%	

	TY-2 2022	TY-1 2023	TY 2024	Total Revenue
Residential				
Non-Discount				
Water & Sewer	1,754,248	9,477,491	83,359,625	94,591,364
SW Only	103,146	137,255	1,047,793	1,288,194
Discount Non-PHA				
Water & Sewer	65,751	355,232	3,124,472	3,545,455
SW Only	152	202	1,540	1,894
Discount PHA				
Water & Sewer	14,749	79,672	700,686	795,107
SW Only	1,963	2,612	19,943	24,518
xxxxxxxxxx				
Water & Sewer			0	0
SW Only			0	0
Subtotal	1,940,010	10,052,463	88,254,059	100,246,532
Non-Residential				
Non-Discount				
Water & Sewer	1,446,388	7,731,189	67,247,324	76,424,900
SW Only	996	1,300,201	9,767,568	11,068,765
Discount Non-PHA				
Water & Sewer	149,384	782,497	6,841,559	7,773,439
SW Only	22,763	34,018	258,983	315,764
Discount PHA				
Water & Sewer	21,884	116,446	1,025,157	1,163,486
SW Only	16,541	21,541	163,668	201,749
xxxxxxxxxx				
Water & Sewer			0	0
SW Only			0	0
Subtotal	1,657,955	9,985,892	85,304,257	96,948,104

Condominiums				
Non-Discount				
Water & Sewer	64,533	334,032	2,901,958	3,300,524
SW Only	7,070	9,367	71,632	88,069
Discount Non-PHA				
Water & Sewer	2,068	10,742	92,787	105,598
SW Only	0	0	0	0
Discount PHA				
Water & Sewer	18	95	839	952
SW Only	2	2	19	23
xxxxxxxxxx				
Water & Sewer			0	0
SW Only			0	0
Subtotal	73,691	354,239	3,067,235	3,495,165
Total Stormwater Revenues	**3,671,656**	**20,392,594**	**176,625,551**	**200,689,801**

WCOS23_24.XLS

INDEX

The "Units" worksheet develops the units of service for retail and contract customers, treatment plants, and pumping stations. It also develops equivalent bills and meters.

Range	Description	Page Number	Table
UntIndx	Index	Units-1	
EUOS	Estimated Units of Service for Retail Water Customers	Units-2	Schedule BV-2: Table 4-4
EWB	Equivalent Water Bills	Units-3	Schedule BV-2: Table 4-3
EWM	Equivalent Water Meters	Units-4	Schedule BV-2: Table 4-3

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
PlntInd - Index	P.N. 401641.0100	January 31, 2023 12:54 p.m.					Plant-1

Fixed Asset Listing as of date: 6/30/2022

The "Plant" worksheet contains water plant data for the water treatment plants. It was developed using the Fixed Asset Listing as of 6/30/2022.

Whenever this worksheet is updated to reflect a new or more current fixed asset listing (FAL), all that is required is to input new data in Plant-2 through Plant-5. Depot totals from the FAL is all that is required. for the Water System.

Range	Description	Page Number	Table
PlntInd	Index	Plant-1	
OC1	Page 1 of OC and Net OC as of 6/30/2022	Plant-2	
OC2	Page 2 of OC and Net OC as of 6/30/2022	Plant-3	
OC3	Page 3 of OC and Net OC as of 6/30/2022	Plant-4	
OC4	Page 4 of OC and Net OC as of 6/30/2022	Plant-5	
WPI1	Page 1 of Water Plant Investment at 6/30/2022	Plant-6	
WPI2	Page 2 of Water Plant Investment at 6/30/2022	Plant-7	
WPIS	Water Plant Investment	Plant-8	
LCA	Calculation of Load Control Allocation	Plant-9	
APBC	Collection System Allocation and Wholesale Rate of Return	Plant-10	
xxxxx	NOT IN USE	Plant-11	
CPA	Plant Allocations	Plant-12	
FPA	Factors for Allocation of Plant Investment to Wholesal	Plant-13	
ADE	Annual Depreciation Expense	Plant-14	
PFS	Plant File Summary for Wpltallo	Plant-15	
PSWCPLAN1	Aqua PA Plant, Depr, and Return	Plant-16	

The "Wpltallo" worksheet allocates water treatment plant investment and annual depreciation to cost functions.

Range	Description	Page Number	Table
WpltInd	Index	Wpltallo-1	
API	Allocation of Plant Investment	Wpltallo-2	Schedule BV-2: Table 4-6
ALLOCFAC1	Allocation Factors - Page 1	Wpltallo-3	
ALLOCFAC2	Allocation Factors - Page 2	Wpltallo-4	
ALLDEP	Allocation of Depreciation Expense	Wpltallo-5	Schedule BV-2: Table 4-7

The "Womallo" worksheet allocates Water System operation and maintenance expense to functional cost components.

Range	Description	Page Number	Table
WomaInd	Index	Womallo-1	
TYOME	Test Year O&M Expense	Womallo-2	
OMFAC	O&M by Facility	Womallo-3	
AOMF1	Adjusted O&M by Facility - Page 1	Womallo-4	
AOMF2	Adjusted O&M by Facility - Page 2	Womallo-5	
LDCNTRL	Load Control O&M Expense	Womallo-6	
DISTSYS	Distribution System O&M Expense	Womallo-7	
XXXXX	PAGE NOT IN USE	Womallo-8	
ADMIN	Allocation of Administrative Costs	Womallo-9	
MSMM	Machine Shop & Materials Mgmt O&M	Womallo-10	
DIROM	Allocation of Direct to O&M Facility	Womallo-11	
ADHR	Administrative & Human Resources O&M	Womallo-12	
xxxxx	NOT IN USE	Womallo-13	
ATOM	Allocation of Total O&M Expense	Womallo-14	
xxxxx	NOT IN USE	Womallo-15	
OMALLO	Allocation of O&M Expense - Table	Womallo-16	Schedule BV-2: Table 4-5
ATACC	Allocated Treatment & Conveyance Costs	Womallo-17	
PSWCOMAL	Aqua PA Allocated O&M	Womallo-18	

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBU Test Year 2024	Budget Yr 2023	Ver. 1a
RetcInd - Index	P.N. 401641.0100	January 31, 2023 2:40 p.m.		Retcos-1

The "Retcos" worksheet develops unit costs of service and allocates the retail cost of service among retail customer types. It also develops wholesale cost of service water rates for Bucks County and Aqua PA.

Range	Description	Page Number	Table
RetcInd	Index	Retcos-1	
UCOS	Unit Cost of Service	Retcos-2	Schedule BV-2: Table 4-9
ACOS	Allocated Cost of Service to Customer Types	Retcos-3	Schedule BV-2: Table 4-10
ADJCOS	Adjusted Cost of Service to Customer Types	Retcos-4	Schedule BV-2: Table 4-11
BCPC	Bucks County Proposed Charges	Retcos-5	
PSWCRate	Aqua PA Proposed Rates	Retcos-6	Schedule BV-2: Table 4-8

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI Test Year	2024	Budget Yr	2023	Ver. 1a
LagInd - Index	P.N. 401641.0100	January 31, 2023 12:54 p.m.				LagRate-1

The "LagRate" worksheet refines cost of service rates to recognize billing lag and rate implementation refinements and develops proposed Water System rates for the test year and two following years.

Range	Description	Page Number	Table
LagInd	Index	LagRate-1	
RATES	Existing and COS Rates	LagRate-2	
PBAC	Projected Bills, Accounts, and Consumption	LagRate-3	
PWR	Projected Water Receipts	LagRate-4	
BER	Test Year Billings Under Existing Rates	LagRate-5	
BPR	Projected Billings Under Proposed Rates	LagRate-6	
SBPR	Summary of Projected Billings Under Proposed Rates	LagRate-7	
RWL	Calculation of Receipts with Lag	LagRate-8	
TYRWL	Test Year Retail Receipts with Lag	LagRate-9	
COSWL	Adjusted COS Rates to Account for Lag	LagRate-10	
REVCOMP	Comparison of Revenue Under Exist. Rates to COS	LagRate-11	Schedule BV-2: Table 4-12
CPRATES	Water & Wastewater Proposed Rates	LagRate-12	
WPRATES	Water Proposed Rates	LagRate-13	Schedule BV-2: Table 5-1 and Table 5-2
BTAB	BillTab Billing Percentages	LagRate-14	
WSERVCHG	Components of Water Service Charges	LagRate-15	
WSERVCHG	Summary of Components Water Service Charges	LagRate-16	

WCOS23_24.XLS

UNITS

The "Units" worksheet develops the units of service for retail and contract customers, treatment plants, and pumping stations. It also develops equivalent bills and meters.

Range	Description	Page Number	Table
UntIndx	Index	Units-1	
EUOS	Estimated Units of Service for Retail Water Customers	Units-2	Schedule BV-2: Table 4-4
EWB	Equivalent Water Bills	Units-3	Schedule BV-2: Table 4-3
EWM	Equivalent Water Meters	Units-4	Schedule BV-2: Table 4-3

References: Financial Planning Model - Customer

TABLE W-11

ESTIMATED UNITS OF SERVICE FOR RETAIL WATER CUSTOMERS
TEST YEAR 2024

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
				Maximum Day Extra Capacity			Maximum Hour Extra Capacity			Customer Cost			Percent
Line No.	Customer Type	Total Test Year Water Use Mcf Ref. A	Average Daily Water Use Mcf/day (1) / 365	Capacity Factor %	Total Capacity Mcf/day (2) x (3) /100	Extra Capacity (a) Mcf/day (4) - (2)	Capacity Factor %	Total Capacity Mcf/day (2) x (6) / 100	Extra Capacity (b) Mcf/day (7) - (4)	Equiv. Meters Units-4	Equiv. Bills Units-3	Equiv. Services Units-4	Distribution of General Service
1	Residential	3,084,500	8,450	200	16,900	8,450	360	30,420	13,520	488,873	5,378,984	446,841	89.84%
2	Senior Citizens	120,300	330	200	660	330	360	1,190	530	21,191	254,101	21,175	
3	Commercial (c)	1,607,100	4,400	180	7,920	3,520	265	11,660	3,740	142,094	585,801	39,349	9.78%
4	Industrial	61,100	170	160	270	100	200	340	70	6,025	18,280	1,109	0.31%
5	Public Utilities	10,600	30	160	50	20	200	60	10	1,788	4,396	221	0.07%
6	Total General Service (c)	4,883,600	13,380	193	25,800	12,420	326	43,670	17,870	659,971	6,241,562	508,694	100.00%
7	Housing Authority	152,900	420	190	800	380	313	1,310	510	9,146	70,191	5,607	
	Charities & Schools												
8	Charities & Schools	125,500	340	180	610	270	270	920	310	12,854	33,474	1,468	
9	Hospital/University	53,000	150	180	270	120	233	350	80	1,308	2,442	36	
10	Charities and Schools	178,500	490	180	880	390	259	1,270	390	14,162	35,916	1,504	
11	Hand Billed	525,100	1,440	180	2,590	1,150	270	3,890	1,300	6,468	9	0	
12	xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0	
13	Scheduled (Flat Rate)	100	0	200	0	0	360	0	0	10	120	10	
14	xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0	
	Fire Protection												
15	Public		0		800	800		2,090	1,290				
16	Private	0	0		310	310		800	490	9,641	864,791	0	
17	Total Retail Customers	5,740,200	15,730	198	31,180	15,450	337	53,030	21,850	699,398	7,212,589	515,815	

(a) Capacity in excess of average daily use.
(b) Capacity in excess of maximum day.
(c) Includes City and City Leased properties.

Mcf - thousand cubic feet

Line No.	Customer Type	Total Test Year Water Use Mcf	Average Daily Water Use Mcf/day	Capacity Factor %	Total Capacity Mcf/day	Capacity Factor %	Total Capacity Mcf/day	
1	Retail Demand Excluding Fire Protection	5,740,200	15,730	191	30,070	319	50,140	
2	Wholesale (Aqua PA)	74,000	203	239	485	593	1,203	Womallo-17
3	PWD Facilities	281,000	770	160	1,232	200	1,540	
4	Subtotal Metered Demand	6,095,200	16,703		31,787		52,883	
5	Estimated Non-Revenue Water based on % of System Metered Demand		12,755	100	12,755	100	12,755	
6	Estimated Total System Non-Coincidental Demand		29,458	151	44,542	223	65,638	
7	System Coincidental Demand Peaking Factor			139	Wpltallo-3	209	Wpltallo-4	
8	Diversity Factor			1.09		1.07		
	Estimated System Loses	43.3%		Reflects FY 2019 to FY 2021 three year average (Water Audit Data)				

File: WCOS23_24_ver1.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTR Test Year 2024 Budget Yr 2023** **Ver. 1a**
EWB - Equivalent Water Bills **P.N. 401641.0100** **January 26, 2023 9:24 a.m.** **Units-3**

References: Financial Plan Model - Customer-1 and Assumptions-41

Line No.	Customer Type	Total Number of Bills	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"	6"	8"	10"	12"	14"
	Equivalent Bill Factor		1.0	1.0	1.1	1.2	1.2	1.5	2.0	4.0	7.0	10.0	15.0	20.0	23.0
	GENERAL SERVICE														
	Residential (excluding Senior Citizens)														
1	Bills	5,335,476	5,181,704	821	117,248	0	13,842	16,172	2,084	1,582	1,471	503	37	12	
2	Equivalent Bills	5,378,984	5,181,704	821	128,973	0	16,610	24,258	4,168	6,328	10,297	5,030	555	240	
	Senior Citizens														
3	Bills	254,088	253,961	0	127	0	0	0	0	0	0	0	0	0	
4	Equivalent Bills	254,101	253,961	0	140	0	0	0	0	0	0	0	0	0	
	Commercial														
5	Bills	462,120	343,043	110	41,858	0	19,057	28,628	11,407	9,400	6,120	2,032	416	49	
6	Equivalent Bills	585,801	343,043	110	46,044	0	22,868	42,942	22,814	37,600	42,840	20,320	6,240	980	
	Industrial														
7	Bills	12,636	5,990	0	2,785	0	980	1,458	765	263	263	108	24	0	
8	Equivalent Bills	18,280	5,990	0	3,064	0	1,176	2,187	1,530	1,052	1,841	1,080	360	0	
	Public Utilities														
9	Bills	2,616	1,045	0	502	0	198	383	264	119	66	26	0	13	
10	Equivalent Bills	4,396	1,045	0	552	0	238	575	528	476	462	260	0	260	
	Total Gen'l Service Bills Incl SC														
10	Bills	6,066,936	5,785,743	931	162,520	0	34,077	46,641	14,520	11,364	7,920	2,669	477	74	
11	Equivalent Bills	6,241,562	5,785,743	931	178,773	0	40,892	69,962	29,040	45,456	55,440	26,690	7,155	1,480	
	ALL OTHER THAN GENERAL SERVICE														
	Housing Authority														
12	Bills	66,348	61,535	0	363	0	2,237	1,276	433	304	141	59	0	0	
13	Equivalent Bills	70,191	61,535	0	399	0	2,684	1,914	866	1,216	987	590	0	0	
	Charities & Schools														
	Charities & Schools														
14	Bills	19,716	8,567	0	2,645	0	1,236	2,215	2,043	2,698	269	43	0	0	
15	Equivalent Bills	33,474	8,567	0	2,910	0	1,483	3,323	4,086	10,792	1,883	430	0	0	
	Hospital/University														
16	Bills	804	53	0	128	0	47	87	204	163	93	17	12	0	
17	Equivalent Bills	2,442	53	0	141	0	56	131	408	652	651	170	180	0	
	Hand Billed														
18	Bills	2,712	106	0	94	0	105	339	701	713	409	164	58	23	
19	Equivalent Bills	10,931	106	0	103	0	126	509	1,402	2,852	2,863	1,640	870	460	
	xxxxxxxxxx														
20	Bills	0	0	0	0	0	0	0	0	0	0	0	0	0	
21	Equivalent Bills	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Scheduled (Flat Rate)														
22	Bills	120	120	0	0	0	0	0	0	0	0	0	0	0	
23	Equivalent Bills	120	120	0	0	0	0	0	0	0	0	0	0	0	
	xxxxxxxxxx														
24	Bills	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	Equivalent Bills	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Private Fire Connections & Fire Meters														
26	Bills	252,292	1,641	439	54,695	0	8,462	90,276	4,388	31,722	44,225	14,133	2,009	302	
27	Equivalent Bills	864,791	2,462	659	82,043	0	12,693	135,414	17,552	126,888	309,575	141,330	30,135	6,040	
			Equiv Bills - 3" based on 4" ratio and 2" and less based on 2" (consistent with basis of the private fire charges)												
	Total														
28	Bills	6,408,928	5,857,765	1,370	220,445	0	46,164	140,834	22,289	46,964	53,057	17,085	2,556	399	
29	Equivalent Bills	7,223,511	5,858,586	1,590	264,369	0	57,934	211,253	53,354	187,856	371,399	170,850	38,340	7,980	

File: WCOS23_24_ver1.xls **Philadelphia Water Department (PWD)** **CONFIDENTIAL: DO NOT DUPLICATE OR DISTR Test Year 2024 Budget Yr 2023** **Ver. 1a**
EWM - Equivalent Water Meters **P.N. 401641.0100** **January 26, 2023 9:24 a.m.** **Units-4**

References: Units-3

Line No.		Total Number of Meters	5/8	3/4	1	1 1/4	1 1/2	2	3	4	6	8	10	12	14
	Equivalent Meter Factor (Capacity)		1.0	1.5	2.5	3.8	5.0	8.0	15.0	25.0	50.0	80.0	115.0	215.0	225.0
	Equivalent Meter Factor (Service)		1.0	1.0	1.1	1.2	1.2	2.1	10.0	12.0	15.0	19.0	25.0	28.0	
	GENERAL SERVICE														
	Residential (excluding Senior Citizens)														
1	Meters	444,625	431,809	68	9,771	0	1,154	1,348	174	132	123	42	3	1	
2	Equivalent Meters	488,873	431,809	102	24,428	0	5,770	10,784	2,610	3,300	6,150	3,360	345	215	
3	Equivalent Service	446,841	431,809	68	10,748	0	1,385	2,831	0	0	0	0	0	0	0
	Senior Citizens														
4	Meters	21,174	21,163	0	11	0	0	0	0	0	0	0	0	0	
5	Equivalent Meters	21,191	21,163	0	28	0	0	0	0	0	0	0	0	0	
6	Equivalent Service	21,175	21,163	0	12	0	0	0	0	0	0	0	0	0	0
	Commercial														
7	Meters	38,510	28,587	9	3,488	0	1,588	2,386	951	783	510	169	35	4	
8	Equivalent Meters	142,094	28,587	14	8,720	0	7,940	19,088	14,265	19,575	25,500	13,520	4,025	860	
9	Equivalent Service	39,349	28,587	9	3,837	0	1,906	5,011	0	0	0	0	0	0	0
	Industrial														
10	Meters	1,054	499	0	232	0	82	122	64	22	22	9	2	0	
11	Equivalent Meters	6,025	499	0	580	0	410	976	960	550	1,100	720	230	0	
12	Equivalent Service	1,109	499	0	255	0	98	256	0	0	0	0	0	0	0
	Public Utilities														
13	Meters	219	87	0	42	0	17	32	22	10	6	2	0	1	
14	Equivalent Meters	1,788	87	0	105	0	85	256	330	250	300	160	0	215	
15	Equivalent Service	221	87	0	46	0	20	67	0	0	0	0	0	0	0
	Total Gen'l Service Mtrs. Incl SC														
16	Meters	505,582	482,145	77	13,544	0	2,841	3,888	1,211	947	661	222	40	6	
17	Equivalent Meters	659,971	482,145	116	33,861	0	14,205	31,104	18,165	23,675	33,050	17,760	4,600	1,290	
18	Equivalent Service	508,694	482,145	77	14,898	0	3,409	8,165	0	0	0	0	0	0	
	ALL OTHER THAN GENERAL SERVICE														
	Housing Authority														
19	Meters	5,528	5,128	0	30	0	186	106	36	25	12	5	0	0	
20	Equivalent Meters	9,146	5,128	0	75	0	930	848	540	625	600	400	0	0	
21	Equivalent Service	5,607	5,128	0	33	0	223	223	0	0	0	0	0	0	0
	Charities & Schools														
	Charities & Schools														
22	Meters	1,643	714	0	220	0	103	185	170	225	22	4	0	0	
23	Equivalent Meters	12,854	714	0	550	0	515	1,480	2,550	5,625	1,100	320	0	0	
24	Equivalent Service	1,468	714	0	242	0	124	389	0	0	0	0	0	0	0
	Hospital/University														
25	Meters	67	4	0	11	0	4	7	17	14	8	1	1	0	
26	Equivalent Meters	1,308	4	0	28	0	20	56	255	350	400	80	115	0	
27	Equivalent Service	36	4	0	12	0	5	15	0	0	0	0	0	0	0
	Hand Billed														
24	Meters	226	9	0	8	0	9	28	58	59	34	14	5	2	
25	Equivalent Meters	6,468	9	0	20	0	45	224	870	1,475	1,700	1,120	575	430	
26	Equivalent Service	87	9	0	9	0	11	59	0	0	0	0	0	0	0
	xxxxxxxxxx														
28	Meters	0	0	0	0	0	0	0	0	0	0	0	0	0	
29	Equivalent Meters	0	0	0	0	0	0	0	0	0	0	0	0	0	
30	Equivalent Service	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Scheduled (Flat Rate)														
31	Meters	10	10	0	0	0	0	0	0	0	0	0	0	0	
32	Equivalent Meters	10	10	0	0	0	0	0	0	0	0	0	0	0	

33	Equivalent Service	10	10	0	0	0	0	0	0	0	0	0	0	0	0
	xxxxxxxxxx														
34	Meters	0	0	0	0	0	0	0	0	0	0	0	0	0	
35	Equivalent Meters	0	0	0	0	0	0	0	0	0	0	0	0	0	
36	Equivalent Service	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Private Fire Connections														
37	Meters	21,025	137	37	4,558	0	705	7,523	366	2,644	3,685	1,178	167	25	
38	Equivalent Meters (5/8")	482,000	1,096	296	36,464	0	5,640	60,184	9,150	66,100	184,250	94,240	19,205	5,375	
39	Equivalent Meters (6")	9,641	22	6	729	0	113	1,204	183	1,322	3,685	1,885	384	108	
			Equiv Bills - 3" based on 4" ratio and 2" and less based on 2" (consistent with basis of the private fire charges)												
	Total														
40	Meters	534,081	488,147	114	18,371	0	3,848	11,737	1,858	3,914	4,422	1,424	213	33	
41	Equivalent Meters (5/8")	1,171,757	489,106	412	70,998	0	21,355	93,896	31,530	97,850	221,100	113,920	24,495	7,095	

WCOS23_24.XLS

PLANT

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
PlntInd - Index	P.N. 401641.0100	January 31, 2023 12:54 p.m.					Plant-1

Fixed Asset Listing as of date: 6/30/2022

The "Plant" worksheet contains water plant data for the water treatment plants. It was developed using the Fixed Asset Listing as of 6/30/2022.

Whenever this worksheet is updated to reflect a new or more current fixed asset listing (FAL), all that is required is to input new data in Plant-2 through Plant-5. Depot totals from the FAL is all that is required. for the Water System.

Range	Description	Page Number	Table
PlntInd	Index	Plant-1	
OC1	Page 1 of OC and Net OC as of 6/30/2022	Plant-2	
OC2	Page 2 of OC and Net OC as of 6/30/2022	Plant-3	
OC3	Page 3 of OC and Net OC as of 6/30/2022	Plant-4	
OC4	Page 4 of OC and Net OC as of 6/30/2022	Plant-5	
WPI1	Page 1 of Water Plant Investment at 6/30/2022	Plant-6	
WPI2	Page 2 of Water Plant Investment at 6/30/2022	Plant-7	
WPIS	Water Plant Investment	Plant-8	
LCA	Calculation of Load Control Allocation	Plant-9	
APBC	Collection System Allocation and Wholesale Rate of Return	Plant-10	
xxxxx	NOT IN USE	Plant-11	
CPA	Plant Allocations	Plant-12	
FPA	Factors for Allocation of Plant Investment to Wholesal	Plant-13	
ADE	Annual Depreciation Expense	Plant-14	
PFS	Plant File Summary for Wpltallo	Plant-15	
PSWCPLAN1	Aqua PA Plant, Depr, and Return	Plant-16	

Assets data from Fixed Asset Listing. See Summary data input on Plant Worksheet - Sewer Model

Location (Depot)		Net Original Cost $
SOURCE OF SUPPLY PLANT		
39	Struc. & Imprvmts-Fairmount Water Works	
39	Equip.-Fairmount Water Works	
	Total Fairmount Water Works	4,217,575
	Total Source of Supply Plant	4,217,575
RAW WATER PUMPING PLANT		
1	Struc. & Imprvmts-Belmont RWPS	
1	Equip.-Belmont RWPS	
1	Struc. & Imprvmts-Belmont RWPS, 36RW-Main	
	Total Belmont RWPS	21,966,338
6	Struc. & Imprvmts-Queen Lane RWPS	
6	Equip.-Queen Lane RWPS	
6	Struc. & Imprvmts-Queen Lane RWPS, Mains	
	Total Queen Lane RWPS	10,700,184
17	Struc. & Imprvmts-Torresdale RWPS	
17	Equip.-Torresdale RWPS	
17	Struc. & Imprvmts-Torresdale RWPS, Mains	
	Total Torresdale RWPS	17,022,129
	Total Raw Water Pumping Plant	49,688,651

The values on this page were extracted from the Fixed Asset Listing for 6/30/2022. They do no include any consideration of CWIP at 6/30/2022 or any capital program additions after 6/30/2022. Detail showin structures & improvements, equipment, and mains investment can only be estimated from the Fixed Asse printout. Since that detail is not needed for analyses in this file, only the totals for each Fixed Asset depo number are shown below

Location (Depot)		Net Original Cost $
TREATED WATER PUMPING PLANT		
26	Struc. & Imprvmts-East Park FWPS	
26	Equip.-East Park FWPS	
26	Struc. & Imprvmts-East Park FWPS, Mains	
	Total East Park FWPS	2,672,730
22	Struc. & Imprvmts-Foxchase FWPS	
22	Equip.-Foxchase FWPS	
22	Struc. & Imprvmts-Foxchase FWPS, Mains	
	Total Foxchase FWPS	5,873,963
23	Struc. & Imprvmts-Oak Lane FWPS	
23	Equip.-Oak Lane FWPS	
	Total Oak Lane FWPS	4,214,467
11	Struc. & Imprvmts-Roxborough HS FWPS	
11	Equip.-Roxborough HS FWPS	
	Total Roxborough HS FWPS	3,412,463
30	Struc. & Imprvmts-West Oak Lane FWPS	
30	Equip.-West Oak Lane FWPS	
	Total West Oak Lane FWPS	6,925,588
18	Struc. & Imprvmts-Torresdale FWPS	
18	Equip.-Torresdale FWPS	
18	Struc. & Imprvmts-Torresdale FWPS, Mains	
	Total Torresdale FWPS	18,854,799
19	Struc. & Imprvmts-Torresdale HS FWPS	
19	Equip.-Torresdale HS FWPS	
	Total Torresdale HS FWPS	4,536,276
25	Struc. & Imprvmts-Lardner's Point FWPS	
25	Equip.-Lardner's Point FWPS	
25	Struc. & Imprvmts-Lardner's Point FWPS, Mains	
	Total Lardner's Point FWPS	4,232,434
2	Struc. & Imprvmts-Belmont FWPS	
2	Equip.-Belmont FWPS	
	Total Belmont FWPS	15,844,985
7	Struc. & Imprvmts-Queen Lane HS FWPS	
7	Equip.-Queen Lane HS FWPS	
	Total Queen Lane HS FWPS	24,109,126
5	Struc. & Imprvmts-HS to Roxborough Expressway	
5	Equip.-HS to Roxborough Expressway	
	Total HS to Roxborough Expressway	0
	Total Treated Water Pumping Plant	90,676,831

The values on this page were extracted from the Fixed Asset Listing for 6/30/2022. They do no include any consideration of CWIP at 6/30/2022 or any capital program additions after 6/30/2022. Detail showin structures & improvements, equipment, and mains investment can only be estimated from the Fixed Asse printout. Since that detail is not needed for analyses in this file, only the totals for each Fixed Asset depo number are shown below

Location (Depot)		Net Original Cost $	
HIGH PRESSURE FIRE PUMPING PLANT			**High Pressure Fire System was decommissioned.**
28	Struc. & Imprvmts-Race Street HP PS		
28	Equip.-Race Street HP PS		
28	Struc. & Imprvmts-Race Street HP PS, Mains		
	Total Race Street HP PS	0	
29	Struc. & Imprvmts-Fairhill HP PS		
29	Equip.-Fairhill HP PS		
	Total Fairhill HP PS	0	
	Total High Pressure Fire Pumping Plant	0	
WATER PURIFICATION AND TREATMENT PLANT			
3	Struc. & Imprvmts-Belmont Filters		
3	Equip.-Belmont Filters		
	Total Belmont Filters	108,830,399	
13	Struc. & Imprvmts-Lower Roxborough Filters		
13	Equip.-Lower Roxborough Filters		
	Total Lower Roxborough Filters	57,752	
12	Struc. & Imprvmts-Upper Roxborough Filters		
12	Equip.-Upper Roxborough Filters		
	Total Upper Roxborough Filters	4,565,929	
8	Struc. & Imprvmts-Queen Lane Filters		
8	Equip.-Queen Lane Filters		
8	Struc. & Imprvmts-Queen Lane Filters, Mains		
	Total Queen Land Filters	104,547,122	
20	Struc. & Imprvmts-Baxter Filters		
20	Equip.-Baxter Filters		
	Total Baxter Filters	174,213,237	
	Total Water Purification and Treatment Plant	392,214,440	
TRANSMISSION & DISTRIBUTION PLANT			
1,000	Struc. & Imprvmts-Mains	988,057,473	
24	Struc. & Imprvmts-Oak Lane Reservoir		
24	Equip.-Oak Lane Reservoir		
	Total Oak Lane Reservoir	8,243,000	
27	Struc. & Imprvmts-East Park Reservoir		
27	Equip.-East Park Reservoir		
	Total East Park Reservoir	129,895,643	
80	Struc. & Imprvmts-Somerton Tanks		
80	Equip.-Somerton Tanks		
	Total Somerton Tanks	4,140,615	
15	Meters	46,226,870	
	Total Transmission & Distribution Plant	1,176,563,602	

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
OC4 - Page 4 of OC and Net OC as of 6/30/2022	P.N. 401641.0100	January 31, 2023 12:54 p.m.					Plant-5

The values on this page were extracted from the Fixed Asset Listing for 6/30/2022. They do no include any consideration of CWIP at 6/30/2022 or any capital program additions after 6/30/2022. Detail showin structures & improvements, equipment, and mains investment can only be estimated from the Fixed Asse printout. Since that detail is not needed for analyses in this file, only the totals for each Fixed Asset depo number are shown below

Location (Depot)	Description	Net Original Cost $
ADMINISTRATIVE & GENERAL PLANT		
0	Undetermined Location	
	Total Undetermined Location (a)	42,608,743
31	Struc. & Imprvmts-Load Control Center	
31	Equip.-Load Control Center	
	Total Load Control Center	4,258,574
32	Struc. & Imprvmts-Distribution	
32	Equip.-Distribution	
	Total Distribution	25,506,983
33	Struc. & Imprvmts-Automotive Garage	
33	Equip.-Automotive Garage	
	Total Automotive Garage	5,178,258
34	Struc. & Imprvmts-ARA Towers	
34	Equip.-ARA Towers	
	Total ARA Towers	10,362,534
35	Struc. & Imprvmts-Design	
35	Equip.-Design	
	Total Design Related	289,994
36	Struc. & Imprvmts-Testing Laboratory	
36	Equip.-Testing Laboratory	
	Total Testing Laboratory	0
40	Struc. & Imprvmts-Meter Shop	
40	Equip.-Meter Shop	
	Total Meter Shop	1,836,857
45	Struc. & Imprvmts-Building Maintenance	
45	Equip.-Building Maintenance	
	Total Building Maintenance	4,791,846
47	Struc. & Imprvmts-Central Stores	
47	Equip.-Central Stores	
	Total Central Stores	392,415
49	Struc. & Imprvmts-IBM Unit 29th & Cambia	
49	Equip.-IBM Unit 29th & Cambia	
	Total IBM Unit 29th & Cambil	529,038
42	Struc. & Imprvmts-Auto Repair Facility	
42	Equip.-Auto Repair Facility	
	Total Auto Repair Facility	960,935
43	Struc. & Imprvmts-Centralized Laboratory	
43	Equip.-Centralized Laboratory	
	Total Centralized Laboratory	19,323,938
44	Struc. & Imprvmts-Repair Shop	
44	Equip.-Repair Shop	
	Total Repair Shop	484,339
	Total Administrative & General Plant	116,234,460 Excludes Depot 35
Total Water and Administrative & General Plant		1,829,885,553

Comparable total from SCOS file 1,829,885,553 Difference = 0

0

(a) Consists of other costs that cannot be assigned to other depots, such as fringe benefits, gas mains, general engineering, etc.

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
WPI1 - Page 1 of Water Plant Investment at 6/30/2022	P.N. 401641.0100	January 31, 2023 12:54 p.m.			Plant-6

Reference: Fixed Asset Listing

Line No.	Description	(1) Depot No. $	(2) Land $	(3) Not Used $	(4) Not Used $	(5) Total Building & Related $	(6) Total $ (2) + (5)	
	Source of Supply:							
1	Fairmount Water Works (a)	39	150,000			4,217,575	4,367,575	
2	Manayunk Canal	81	50,000				50,000	
3	Subtotal		200,000			4,217,575	4,417,575	
	Raw Water							
4	Belmont	1	12,200			21,966,338	21,978,538	
5	Queen Lane	6	19,239			10,700,184	10,719,423	
6	Torresdale	17				17,022,129	17,022,129	
7	Torresdale Intake Conduit						0	
8	Torresdale Raw Water Basin						0	
9								
10	Subtotal		31,439			49,688,651	49,720,090	
	Treated Water							
11	East Park	26	3,000			2,672,730	2,675,730	
12	Foxchase	22	5,000			5,873,963	5,878,963	
13	Oak Lane	23				4,214,467	4,214,467	
14	Roxborough High Service	11				3,412,463	3,412,463	
15	West Oak Lane	30	16,614			6,925,588	6,942,202	
16	Torresdale Low Service (BOX 1)	18				14,163,229	14,163,229	
17	Torresdale High Service (BOX 1)	19				9,227,846	9,227,846	
18	Lardner's Point	25	45,000			4,232,434	4,277,434	
19	Belmont High Service	2				15,844,985	15,844,985	
20	Queen Lane High Service	7				24,109,126	24,109,126	
21	Roxborough Exp. High Service	5				0	0	
22	Chestnut Hill	14	1,000				1,000	
23	Subtotal		70,614			90,676,831	90,747,445	
	High Pressure Fire							
24	Race Street	28	0			0	0	**High Pressure Fire System was decommissioned.**
25	Fairhill	29	0			0	0	**High Pressure Fire System was decommissioned.**
26	Subtotal		0			0	0	
	Purification & Treatment							
27	Belmont Filters	3	273,443			108,830,399	109,103,842	
28	Lower Roxborough Filters	13	2,500			57,752	60,252	
29	Upper Roxborough Filters	12	63,000			4,565,929	4,628,929	
30	Queen Lane Filters	8	677,180			104,547,122	105,224,302	
31	Torresdale Filters/Baxter Filters	20	309,000			174,213,237	174,522,237	
32	Belmont Control Center	48					0	
33	Subtotal		1,325,123			392,214,440	393,539,563	

BOX 1-Split of Total Torresdale Low & High Service Depots Investment to Low & High Service

Depot 19 only includes investment for the Torresdale high service F.W.P.S. reservoir. It is assumed the pumping & related investment associated with Depot 19 is included in Depot 18 (Torresdale F.W.P.S.) investment. Because the description of investment in Depot 18 is not sufficient to determine which investment is associated with high and low service, prorate the investment in Depot 18 between Torresdale high service and low service on the basis of the pump capacities of each.

	Investment $		Pump Capacities mgd	
Depot 18 (Low Service)	18,854,799	Plant-3	160	Plant-9
Depot 19 (High Service)	4,536,276	Plant-3	53	Plant-9
Total	23,391,075		213	

Proration of Depot 18 investment to low and high service:

Low Service	$18,854,799*(160/213)= $	14,163,229
High Service	$18,854,799*(53/213)= $	4,691,570

Total Torresdale Investment Split Between Low and High Service:

	Depot 18 $	Depot 19 $	Total $
Low Service	14,163,229		14,163,229
High Service	4,691,570	4,536,276	9,227,846
Total	18,854,799	4,536,276	23,391,075

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
WPI2 - Page 2 of Water Plant Investment at 6/30/2022	P.N. 401641.0100	January 31, 2023 12:54 p.m.			Plant-7

Reference: Fixed Asset Listing

Line No.	Description	(1) Depot No. $	(2) Land $	(3) Not Used $	(4) Not Used $	(5) Total Building & Related $	(6) Total $ (2) + (5)
	Transmission & Distribution - Mains						
34	Mains-Total					978,420,231	978,420,231
	Transmission & Distribution - Other						
35	Oak Lane Reservoir	24	64,776			8,243,000	8,307,776
36	East Park Reservoir	27	100,000			129,895,643	129,995,643
37	Somerton Tanks	80	17,000			4,140,615	4,157,615
38	Deepwell Transfer (b)					7,655	7,655
39	Roxborough Tanks (b)					0	0
40	Filtered Water Storage (b)					39,587	39,587
41	George Hill Reservoir (b)					390,000	390,000
42	Meters (c)					46,226,870	46,226,870
43	Hydrants					9,200,000	9,200,000
44	Subtotal		181,776			198,143,370	198,325,146
	Administration & General (BOX 2)						
45	Undetermined Location	0				21,304,372	21,304,372
46	Load Control Center	31				4,258,574	4,258,574
47	Distribution	32	65,470			25,506,983	25,572,453
48	Logan Street Garage	33	25,800			2,226,651	2,252,451
49	MSB 11th Floor ARA Towers	34				5,181,267	5,181,267
50	Design Branch	35				162,397	162,397
51	Testing Laboratory	36				0	0
52	Research & Development	37				0	0
53	Survey & Construction	38				0	0
54	Meter Shop	40				918,428	918,428
55	Customer Service	41				0	0
56	Centralized Laboratory	43				9,661,969	9,661,969
57	Plant Maintenance/Repair Shop	44				184,049	184,049
58	Building Maintenance	45				4,552,254	4,552,254
59	Central Stores	47				196,207	196,207
60	IBM Unit	49				264,519	264,519
61	N.E. Corner Fox and Roberts	42	113,355			365,155	478,510
62	Subtotal		204,625			74,782,825	74,987,450
63	TOTAL		2,013,577			1,788,143,924	1,790,157,501

Notes:
(a) Land valued at $ 150,000 From previous study (no change in value of Land Assets per CAFR)
(b) Currently included in Depot 0 - Water T&D Other (1/19/2008). Roxborough Tanks retired
(c) Meters and radios assets obtained from Meters and other improvements.xls file provided by PWD.

BOX 2 - SPLIT OF A&G PLANT BETWEEN WATER AND SEWER

		(1) Land $ Ref: Prior Study	(2) Total Building & Related $ Ref. B	(3) Percent Water $ WG-1.3	(4) Water Allocated Land $ (1)*(3)	(5) Water - Total Building & Related $ (2)*(3)	(6) Sewer - Total Building & Related $ (1)+(2)-(4)-(5)
Admin. & General							
Undetermined Location	0		42,608,743	50.00%	0	21,304,372	21,304,371
Load Control Cntr	31		4,258,574	100.00%	0	4,258,574	0
Distribution	32	65,470	25,506,983	100.00%	65,470	25,506,983	(0)
Logan Street Garage	33	60,000	5,178,258	43.00%	25,800	2,226,651	2,985,807
MSB 11th Fl ARA Twr (6)	34		10,362,534	50.00%	0	5,181,267	5,181,267
Design Branch	35		289,994	56.00%	0	162,397	127,597
Testing Laboratory	36		0	38.00%	0	0	0
Research & Development	37			38.00%	0	0	0
Survey & Construction	38			56.00%	0	0	0
Meter Shop	40		1,836,857	50.00%	0	918,428	918,429
				50.00%	0	0	0
Centralized Laboratory	43		19,323,938	50.00%	0	9,661,969	9,661,969
Plant Maint/Repair Shop	44		484,339	38.00%	0	184,049	300,290
Building Maintenance	45		4,791,846	95.00%	0	4,552,254	239,592
Central Stores	47		392,415	50.00%	0	196,207	196,208
IBM Unit	49		529,038	50.00%	0	264,519	264,519
N.E. Corner Fox & Rbrts	42	298,303	960,935	38.00%	113,355	365,155	780,728
		423,773	116,524,454		204,625	74,782,825	41,960,777

TOTAL A&G ($423,773 + $116,524,454) 116,948,227

TOTAL A&G ALLOCATED TO WATER 74,987,450

TOTAL A&G ALLOCATED TO SEWER ($116,948,227 - $74,987,450) 41,960,777

Reference:

Line No.	Description	(1) Land $ Plant-6	(2) Buildings, Improvements & Equipment $ Plant-6	(3) Total Plant Investment @6/30/2022 $ (1)+(2)	(4) Allocated Load Control $ Plant-9	(5) Estimated Capitalized Interest $	(6) Plant Additions $	(7) Total Plant @6/30/2022 $
	Source of Supply:							
1	Fairmount Water Works (a)	150,000	4,217,575	4,367,575				4,367,575
2	Manayunk Canal (a)	50,000	0	50,000				50,000
3	Total	200,000	4,217,575	4,417,575				4,417,575
	Power & Pumping:							
	Raw Water							
4	Belmont	12,200	21,966,338	21,978,538				21,978,538
5	Queen Lane	19,239	10,700,184	10,719,423				10,719,423
6	Torresdale	0	17,022,129	17,022,129				17,022,129
7	Torresdale Intake Conduit	0	0	0				0
8	Torresdale Raw Water Basin	0	0	0				0
9	Total	31,439	49,688,651	49,720,090				49,720,090
	Treated Water							
10	East Park	3,000	2,672,730	2,675,730	165,884			2,841,614
11	Foxchase	5,000	5,873,963	5,878,963	52,419			5,931,382
12	Oak Lane	0	4,214,467	4,214,467	116,119			4,330,585
13	Roxborough High Service	0	3,412,463	3,412,463	99,530			3,511,994
14	West Oak Lane	16,614	6,925,588	6,942,202	58,059			7,000,262
15	Torresdale Low Service	0	14,163,229	14,163,229	530,829			14,694,058
16	Torresdale High Service	0	9,227,846	9,227,846	175,837			9,403,683
17	Lardner's Point	45,000	4,232,434	4,277,434	663,536			4,940,970
18	Belmont High Service	0	15,844,985	15,844,985	104,507			15,949,492
19	Queen Lane High Service	0	24,109,126	24,109,126	79,624			24,188,750
20	Roxborough Exp. High Service	0	0	0	82,942			82,942
21	Chestnut Hill	1,000	0	1,000				1,000
22	Total	70,614	90,676,831	90,747,445	2,129,287			92,876,732
	High Pressure Fire							
23	Race Street	0	0	0				0
24	Fairhill	0	0	0				0
25	Total	0	0	0				0
	Purification & Treatment							
26	Belmont Filters	273,443	108,830,399	109,103,842				109,103,842
27	Lower Roxborough Filters	2,500	57,752	60,252				60,252
28	Upper Roxborough Filters	63,000	4,565,929	4,628,929				4,628,929
29	Queen Lane Filters	677,180	104,547,122	105,224,302				105,224,302
30	Torresdale Filters	309,000	174,213,237	174,522,237				174,522,237
31	Belmont Control Center	0	0	0				0
32	Total	1,325,123	392,214,440	393,539,563				393,539,563
	Transmission & Distribution - Mains							
33	Mains-Total	0	978,420,231	978,420,231	2,129,287			980,549,518
	Transmission & Distribution - Other							
34	Oak Lane Reservoir	64,776	8,243,000	8,307,776				8,307,776
35	East Park Reservoir	100,000	129,895,643	129,995,643				129,995,643
36	Somerton Tanks	17,000	4,140,615	4,157,615				4,157,615
37	Deepwell Transfer	0	7,655	7,655				7,655
38	Roxborough Tanks	0	0	0				0
39	Filtered Water Storage	0	39,587	39,587				39,587
40	George Hill Reservoir	0	390,000	390,000				390,000
41	Meters	0	46,226,870	46,226,870				46,226,870
42	Fire Hydrants	0	9,200,000	9,200,000				9,200,000
43	Total	181,776	198,143,370	198,325,146				198,325,146

44	Load Control Center		4,258,574	4,258,574	(4,258,574)	0
45	Administration & General	204,625	70,524,251	70,728,876		70,728,876
46	TOTAL	2,013,577	1,788,143,924	1,790,157,501	0	1,790,157,501
	Check with Plant-7	2,013,577	1,788,143,924	1,790,157,501		1,790,157,501
						(1) through (6)

(a) Plant investment shown here is considered to be NOT used & useful. Fairmount Water Works is an historic landmark, and the land for Manayunk Canal is not used.

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
LCA - Calculation of Load Control Allocation	P.N. 401641.0100	January 31, 2023 12:54 p.m.					Plant-9

Reference: A. FN-12.3

	(1) Capacity Ref. A	(2) % of Capacity
TREATMENT:		
Torresdale Treatment Plant Capacity L.S.(mgd)	160.0	24.9%
Torresdale Treatment Plant Capacity H.S.(mgd)	53.0	8.3%
Queen Lane Treatment Plant Capacity H.S.(mgd)	24.0	3.7%
Belmont Treatment Plant Capacity H.S.(mgd)	31.5	4.9%
Lardners Point Capacity (mgd)	200.0	31.2%
BOOSTER PUMPING:		
East Park Capacity (mgd)	50.0	7.8%
Fox Chase Capacity (mgd)	15.8	2.5%
Oak Lane Capacity (mgd)	35.0	5.5%
Roxborough H.S. Capacity (mgd)	30.0	4.7%
West Oak Lane Capacity (mgd)	17.5	2.7%
Roxborough Exp. H.S. Capacity (mgd)	25.0	3.9%
Total System Capacity	641.8	100.0%

ALLOCATION OF LOAD CONTROL INVESTMENT:	Amount $	% Load Control (a)
TREATMENT:		
Torresdale Treatment Plant L.S.	530,829	12.5%
Torresdale Treatment Plant H.S.	175,837	4.1%
Queen Lane Treatment Plant H.S.	79,624	1.9%
Belmont Treatment Plant H.S.	104,507	2.5%
Lardners Point	663,536	15.6%
BOOSTER PUMPING:		
East Park	165,884	3.9%
Fox Chase	52,419	1.2%
Oak Lane	116,119	2.7%
Roxborough H.S.	99,530	2.3%
West Oak Lane	58,059	1.4%
Roxborough Exp. H.S.	82,942	1.9%
Total Pumping	2,129,287	50.0%
Transmission & Distribution	2,129,287	50.0%
Total Load Control Investment (a) WPIS.	4,258,574	100.0%

(a) Load Control Investment spread back between Pumping & Transmission with 50.0% to each - Pumping is spread further based on % Plant Capacity in pumping. This percent split discussed with JRM 6/30/92 - Assume OK for now. Source of percent is previous study.

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
APBC - Collection System Allocation and Wholesale Rate of Return	P.N. 401641.0100	January 31, 2023 12:54 p.m.					Plant-10

INPUT DATA FROM PWD_Water_Pipe Size Summary 2019.12.05.xlsx

Percentage of Total Mains.....

16" and larger	0.353
18" and larger	0.314
24" and larger	0.268
30" and larger	0.232
36" and larger	0.186
48" and larger	0.149

Outside City Return:	7.50%

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
xxxxx - NOT IN USE	P.N. 401641.0100	January 31, 2023 12:54 p.m.					Plant-11

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
CPA - Plant Allocations	P.N. 401641.0100	January 31, 2023 1:34 p.m.			Plant-12

References: B. (Plant-10) Percent split of water main investment between diff. size mains.

Line No.	Description	(1) Total Investment $ Plant-8&Ref B	(2) Aqua PA Allocated Investment to Aqua PA $ Plant-16	(3) Aqua PA Cap. Cost to Aqua PA $	(4) Aqua PA Return on Plant Investment @ 7.50% $ Plant-16	(5) Aqua PA Annual Depr. Expense $ Plant-16
	Supply and Treatment					
	Raw Water Power & Pumping					
1	Land	31,439	361	27	27	0
2	Buildings & Equipment	49,688,651	570,789	54,740	42,809	11,931
	Treatment					
	Purification					
3	Land	1,325,123	23,056	1,729	1,729	0
4	Buildings & Equipment	392,214,440	6,824,244	668,124	511,818	156,306
	Treated Water Power & Pumping					
5	Land	45,000	783	59	59	0
6	Buildings & Equipment	69,214,895	1,204,288	114,408	90,322	24,086
7	Total Supply and Treatment	512,519,548	8,623,521	839,087	646,764	192,323
	Distribution					
	Booster Pumping					
8	Land	25,614	379	28	28	0
9	Buildings & Equipment	23,591,223	349,200	32,933	26,190	6,743
	Filtered Water Storage					
10	Land	181,776	3,163	237	237	0
11	Buildings & Equipment	142,716,500	2,483,163	284,329	186,237	98,092
	High Pressure Fire System					
12	Land	0	0	0	0	0
13	Buildings & Equipment	0	0	0	0	0
	Transmission & Distribution Mains					
14	Small Mains (Less than 24")	717,751,428	0	0	0	0
15	Large Mains (24" & Over) (b)	262,798,090	4,572,494	428,891	342,937	85,954
16	Fire Hydrants	9,200,000	0	0	0	0
17	Meters	46,226,870	0	0	0	0
18	Total Distribution	1,202,491,502	7,408,399	746,418	555,629	190,789
	Administrative and General (a)					
19	Land	204,625	1,913	143	143	0
20	Buildings & Equipment	70,524,251	659,261	69,552	49,445	20,107
21	Total Administrative and General	70,728,876	661,174	69,695	49,588	20,107
22	TOTAL INVESTMENT	1,785,739,926	16,693,094	1,655,200	1,251,981	403,219

(a) Administrative and General allocated based on subtotals of Lines 7 & 18.

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
FPA - Factors for Allocation of Plant Investment to Wholesale	P.N. 401641.0100	January 31, 2023 12:54 p.m.			Plant-13

References: A. Series 2019A Bonds OS

Line No.	Description	Total Capacity of Facility mgd Ref. A	Aqua PA Contract Capacity mgd	Aqua PA Contract Capacity %
	Source of Supply:			
1	Fairmount Water Works			
2	Manayunk Canal			
3	Total	0.00		
	Power & Pumping:			
	Raw Water			
4	Belmont	140.00		
5	Queen Lane	207.00		
6	Torresdale/Baxter	480.00		
7	Torresdale Intake Conduit			
8	Torresdale Raw Water Basin			
9	Total	827.00	9.50	1.15%
	Treated Water			
10	East Park	50.00		
11	Foxchase	15.80		
12	Oak Lane (East)	35.00		
13	Roxborough High Service	30.00		
14	West Oak Lane	17.50		
15	Torresdale/Baxter Low Service	160.00		
16	Torresdale/Baxter High Service	53.00		
17	Lardner's Point	200.00		
18	Belmont High Service	31.50		
19	Queen Lane High Service	24.00		
20	Q. Ln. Roxborough Exp. High Serv	25.00		
21	Total	641.80	9.50	1.48%
	High Pressure Fire			
22	Race Street			
23	Fairhill			
24	Total	0.00		
	Purification & Treatment:			
25	Belmont Filters	86.00		
26	Lower Roxborough Filters			
27	Upper Roxborough Filters			
28	Queen Lane Filters	140.00		
29	Torresdale/Baxter Filters	320.00		
30	Treatment Headquarters			
31	Belmont Control Center			
32	Total x	546.00	9.50	1.74%
	Transmission & Distribution - Mains:			
33	Small Mains (24" & smaller)			
34	Large Mains (Over 24")			
	Transmission & Distribution - Other:			
35	Oak Lane Reservoir	70.00		
36	East Park Reservoir	370.00		
37	Somerton Tanks	10.00		
38	Deepwell Transfer			
39	Roxborough Tanks	17.60		
40	Filtered Water Storage			
41	George Hill Reservoir			
42	Meters			
43	Total	467.60	9.50	2.03%
44	Load Control Center		9.50	
45	Administration & General		9.50	
46	TOTAL			

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
ADE - Annual Depreciation Expense	P.N. 401641.0100	January 31, 2023 12:54 p.m.			Plant-14

Line No.	Description	(1) Total Plant Investment $ Plant-8	(2) Land $ Plant-8	(3) Depreciable Plant $ (1)-(2)	(4) Depr. Rate (b)	(5) Annual Depr. Expense $ (3)*(4)
	Source of Supply:					
1	Fairmount Water Works (a)	4,367,575	150,000	4,217,575	2.5%	105,439
2	Manayunk Canal (a)	50,000	50,000	0	2.5%	0
3	Total	4,417,575	200,000	4,217,575	2.5%	105,439
	Power & Pumping:					
	Raw Water					
4	Belmont	21,978,538	12,200	21,966,338	1.9%	427,641
5	Queen Lane	10,719,423	19,239	10,700,184	2.0%	209,499
6	Torresdale	17,022,129	0	17,022,129	2.4%	401,518
7	Torresdale Intake Conduit	0	0	0	2.4%	0
8	Torresdale Raw Water Basin	0	0	0	2.4%	0
9	Total	49,720,090	31,439	49,688,651	2.1%	1,038,658
	Treated Water					
10	East Park	2,841,614	3,000	2,838,614	2.0%	56,772
11	Foxchase	5,931,382	5,000	5,926,382	1.7%	102,254
12	Oak Lane	4,330,585	0	4,330,585	2.0%	86,612
13	Roxborough High Service	3,511,994	0	3,511,994	2.0%	70,240
14	West Oak Lane	7,000,262	16,614	6,983,648	2.0%	139,673
15	Torresdale Low Service	14,694,058	0	14,694,058	2.0%	293,881
16	Torresdale High Service	9,403,683	0	9,403,683	2.0%	188,074
17	Lardner's Point	4,940,970	45,000	4,895,970	2.0%	97,919
18	Belmont High Service	15,949,492	0	15,949,492	2.0%	318,990
19	Queen Lane High Service	24,188,750	0	24,188,750	2.0%	483,775
20	Roxborough Exp. High Service	82,942	0	82,942	2.0%	1,659
21	Chestnut Hill	1,000	1,000	0	2.0%	0
22	Total	92,876,732	70,614	92,806,118	2.0%	1,839,849
	High Pressure Fire					
23	Race Street	0	0	0	1.1%	0
24	Fairhill	0	0	0	1.8%	0
25	Total	0	0	0	#DIV/0!	0
	Purification & Treatment					
26	Belmont Filters	109,103,842	273,443	108,830,399	2.7%	2,987,830
27	Lower Roxborough Filters	60,252	2,500	57,752	2.9%	1,650
28	Upper Roxborough Filters	4,628,929	63,000	4,565,929	2.8%	128,951
29	Queen Lane Filters	105,224,302	677,180	104,547,122	2.5%	2,635,319
30	Torresdale Filters	174,522,237	309,000	174,213,237	1.9%	3,229,739
31	Belmont Control Center	0	0	0	2.5%	0
32	Total	393,539,563	1,325,123	392,214,440	2.3%	8,983,489
	Transmission & Distribution - Mains					
33	Mains-Total	980,549,518	0	980,549,518	1.9%	18,432,502
34						
	Transmission & Distribution - Other					
35	Oak Lane Reservoir	8,307,776	64,776	8,243,000	4.1%	336,685
36	East Park Reservoir	129,995,643	100,000	129,895,643	4.0%	5,214,011
37	Somerton Tanks	4,157,615	17,000	4,140,615	1.8%	76,071
38	Deepwell Transfer	7,655	0	7,655	2.5%	191
39	Roxborough Tanks	0	0	0	2.5%	0
40	Filtered Water Storage	39,587	0	39,587	2.5%	990
41	George Hill Reservoir	390,000	0	390,000	2.5%	9,750
42	Meters	46,226,870	0	46,226,870	7.0%	3,235,881
43	Fire Hydrants	9,200,000	0	9,200,000	2.5%	230,000
44	Total	198,325,146	181,776	198,143,370	4.6%	9,103,579
					4.0% <<== Excludes Meters & Hydrants	

45	Load Control Center	0		0		
	Administration & General					
	Undetermined Location	21,304,372		21,304,372	2.5%	532,609
	All Other	49,424,504	204,625	49,219,879	3.3%	1,617,907
46	Total Administration & General	70,728,876	204,625	70,524,251	3.1%	2,150,516
47	TOTAL	1,790,157,501	2,013,577	1,788,143,924	2.3%	41,654,032
	Check with column (1) - (2)			1,788,143,924		

(a) Plant investment not included as used & useful.
(b) Depreciation rates in this column were extracted from file Wrcld.wk4 of file Philly\31416100\.

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year 2024	Budget Yr 2023	Ver. 1a
PFS - Plant File Summary for Wpltallo	P.N. 401641.0100	January 31, 2023 12:54 p.m.			Plant-15

Line No.	Description	(1) Est. Test Yr. Plant Investment $ Plant-14	(2) Total Test Yr. Depr. Expense $ Plant-14	(3) Aqua PA Test Yr. Plant Investment $ Plant-12	(4) Aqua PA Test Yr. Capital Cost $ Plant-12	(5) Aqua PA Test Yr. Return on Plant $ Plant-12	(6) Aqua PA Test Yr. Depr. Expense $ Plant-12
	Raw Water Supply and Pumping						
	Source of Supply						
1	Land	200,000					
2	Buildings and Equipment	4,217,575	105,439				
	Power and Pumping						
3	Land	31,439		361	27	27	0
4	Buildings and Equipment	49,688,651	1,038,658	570,789	54,740	42,809	11,931
5	Total Raw Water Supply and Pumping	54,137,665	1,144,097	571,150	54,767	42,836	11,931
	Purification and Treatment						
	Power and Pumping (a)						
6	Land	70,614		1,162	87	87	0
7	Buildings and Equipment	92,806,118	1,839,849	1,553,489	147,341	116,512	30,829
	Treatment						
8	Land	1,325,123		23,056	1,729	1,729	0
9	Buildings and Equipment	392,214,440	8,983,489	6,824,244	668,124	511,818	156,306
10	Total Purification and Treatment	486,416,295	10,823,338	8,401,951	817,281	630,146	187,135
	Transmission and Distribution						
11	Mains	980,549,518	18,432,502	4,572,494	428,891	342,937	85,954
12	Meters	46,226,870	3,235,881		0		
13	Hydrants	9,200,000	230,000		0		
	Filtered Water Storage						
14	Land	181,776		3,163	237	237	0
15	Buildings and Equipment	142,716,500	5,637,698	2,483,163	284,329	186,237	98,092
	High Pressure Fire System						
16	Land	0			0		
17	Mains 0.0000 of Mains	0	0				
18	Buildings and Equipment	0	0		0		
19	Total Transmission and Distributior	1,178,874,665	27,536,081	7,058,820	713,457	529,411	184,046
20	Total excluding Administrative and General	1,719,428,625	39,503,516	16,031,920	1,585,505	1,202,393	383,112
	Administrative and General						
21	Land	204,625		1,913	143	143	0
22	Buildings and Equipment	70,524,251	2,150,516	659,261	69,552	49,445	20,107
23	Total Administrative and General	70,728,876	2,150,516	661,174	69,695	49,588	20,107
24	Total Water Plant Investment	1,790,157,501	41,654,032	16,693,094	1,655,200	1,251,981	403,219

Agrees with BOX 1 within $1,000

(a) Includes booster pumping

BOX 1		
Booked Original Cost	Plant-5	1,829,885,553
Land	Plant-14	2,013,577
Other Additions	Plant-14	0
Sewer Allocated A&G Less Land		
Sewer Allocated A&G Incl. Land	41,960,777	Plant-7
Less A&G Land (Water & Sewer)	(423,773)	Plant-7
Plus Water Allocated Land	204,625	Plant-7
Sewer Allocated A&G Less Land		(41,741,629)
Total Water Plant Investmen		1,790,157,501

Plant-13

Aqua PA Maximum Day 9.5 mgd

Water Plant Investment
Allocation of Water Plant Investment to Functional Cost Componen

Line No.		Estimated Test Period Plant Investment $ Plant-8	Aqua PA Direct $ Plant-13	Return on Plant Invest. @ 7.50% $	Annual Depreciation Expense $ Plant-11		CHECKS Rate Base Allocation	CHECKS Depr Rate
	Source of Supply							
1	Land	200,000					0.00%	
2	Buildings and Equipment	4,217,575					0.00%	
	Power and Pumping							
	Raw Water Power & Pumping							
3	Land	31,439	361	27			1.15%	0.00%
4	Buildings & Equipment	49,688,651	570,789	42,809	11,931		1.15%	2.09%
	Treatment							
	Purification							
5	Land	1,325,123	23,056	1,729			1.74%	0.00%
6	Buildings & Equipment	392,214,440	6,824,244	511,818	156,306		1.74%	2.29%
	Treated Water Power & Pumping							
7	Land	45,000	783	59			1.74%	0.00%
8	Buildings & Equipment	69,214,895	1,204,288	90,322	24,086		1.74%	2.00%
9	Total Supply and Treatment	512,519,548	8,623,521	646,764	192,323		1.68%	2.23%
	Distribution							
	Booster Pumping							
10	Land	25,614	379	28			1.48%	0.00%
11	Buildings & Equipment	23,591,223	349,200	26,190	6,743		1.48%	1.93%
	Filtered Water Storage							
12	Land	181,776	3,163	237			1.74%	0.00%
13	Buildings & Equipment	142,716,500	2,483,163	186,237	98,092		1.74%	3.95%
	High Pressure Fire System							
14	Land	0					NA	
15	Buildings & Equipment	0					NA	
	Transmission & Distribution Mains							
16	Small Mains (Less than 24")	717,751,428					0.00%	
17	Large Mains (24" & Over)	262,798,090	4,572,494	342,937	85,954		1.74%	1.88%
18	Fire Hydrants	9,200,000					0.00%	
19	Meters	46,226,870					0.00%	
20	Total Distribution	1,202,491,502	7,408,399	555,629	190,789		0.62%	2.58%
	Administrative and General (a)							
21	Land	204,625	1,913	143			0.93%	0.00%
22	Buildings & Equipment	70,524,251	659,261	49,445	20,107		0.93%	3.05%
23	Total Administrative and General	70,728,876	661,174	49,588	20,107		0.93%	3.04%
24	TOTAL INVESTMENT	1,785,739,926	16,693,094	1,251,981	403,219		0.93%	2.42%
	Return @ 7.50%		1,251,982			1,655,000		

WCOS23_24.XLS

WPLTALLO

The "Wpltallo" worksheet allocates water treatment plant investment and annual depreciation to cost functions.

Range	Description	Page Number	Table
WpltInd	Index	Wpltallo-1	
API	Allocation of Plant Investment	Wpltallo-2	Schedule BV-2: Table 4-6
ALLOCFAC1	Allocation Factors - Page 1	Wpltallo-3	
ALLOCFAC2	Allocation Factors - Page 2	Wpltallo-4	
ALLDEP	Allocation of Depreciation Expense	Wpltallo-5	Schedule BV-2: Table 4-7

TABLE W-8

ALLOCATION OF TEST YEAR WATER PLANT INVESTMENT TO FUNCTIONAL COST COMPONENTS TEST YEAR 2024

Allocation Basis: Wpltallo-3

Line No.	Description	(1) Estimated Test Year Plant Investment $ Plant-15	(2) Base $	(3) Extra Capacity Maximum Day $	(4) Extra Capacity Maximum Hour In Excess of Maximum Day $	(5) Customer Meters $	(6) Public Fire Protection - Direct Standard Pressure $	(7) Public Fire Protection - Direct High Pressure $	(8) Wholesale Direct $ Plant-15	Base	Max Day	Max Hour	Aqua PA
	Raw Water Supply and Pumping												
	Source of Supply												
1	Land	200,000	200,000							100%			
2	Buildings and Equipment	4,218,000	4,218,000							100%			
	Power and Pumping												
3	Land	31,000	22,000	9,000					0	72%	28%		0
4	Buildings and Equipment	49,689,000	35,365,000	13,753,000					571,000	72%	28%		571,000
5	Total Raw Water Supply and Pumping	54,138,000	39,805,000	13,762,000					571,000				571,000
	Purification and Treatment												
	Power and Pumping (a)												
6	Land	71,000	34,000	10,000	26,000				1,000	48%	14%	38%	1,000
7	Buildings and Equipment	92,806,000	43,801,000	12,775,000	34,677,000				1,553,000	48%	14%	38%	1,553,000
	Treatment												
8	Land	1,325,000	937,000	365,000					23,000	72%	28%		23,000
9	Buildings and Equipment	392,214,000	277,481,000	107,909,000					6,824,000	72%	28%		6,824,000
10	Total Purification and Treatment	486,416,000	322,253,000	121,059,000	34,703,000				8,401,000				8,401,000
	Transmission and Distribution												
11	Mains	980,550,000	468,469,000	136,637,000	370,872,000				4,572,000	48%	14%	38%	4,572,000
12	Meters	46,227,000				46,227,000			0	100% Meters			0
13	Hydrants	9,200,000					9,200,000		0	100% Standard Pressure Fire			0
	Filtered Water Storage												
14	Land	182,000	86,000	25,000	68,000				3,000	48%	14%	38%	3,000
15	Buildings and Equipment	142,717,000	67,312,000	19,633,000	53,289,000				2,483,000	48%	14%	38%	2,483,000
	High Pressure Fire System (b)												
16	Land	0						0	0	100% High Pressure Fire			
17	Mains	0						0	0	100% High Pressure Fire			
18	Buildings and Equipment	0						0	0	100% High Pressure Fire			
19	Total Transmission and Distribution	1,178,876,000	535,867,000	156,295,000	424,229,000	46,227,000	9,200,000		7,058,000				7,058,000
20	Subtotal	1,719,430,000	897,925,000	291,116,000	458,932,000	46,227,000	9,200,000		16,030,000				16,030,000
	Administrative and General												
21	Land	205,000	106,000	35,000	55,000	6,000	1,000	0	2,000	Subtotal Line 20 (excluding Bucks)			2,000
22	Buildings and Equipment	70,524,000	36,829,000	11,940,000	18,823,000	1,896,000	377,000	0	659,000	Subtotal Line 20 (excluding Bucks)			659,000
23	Total Administrative and General	70,729,000	36,935,000	11,975,000	18,878,000	1,902,000	378,000		661,000				661,000
24	Total Water Plant Investment	1,790,159,000	934,860,000	303,091,000	477,810,000	48,129,000	9,578,000		16,691,000				16,691,000
			52.2%	16.9%	26.7%	2.7%	0.5%	0.0%	0.9%				0.9%

(a) Includes booster pumping
(b) Allocated to Mains

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRI	Test Year 2024	Budget Yr 2023	Ver. 1a
ALLOCFAC1 - Allocation Factors - Page 1	P.N. 401641.0100	January 26, 2023 9:26 a.m.			Wpltallo-3

Reference: BD-23

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		Flow Output			Demand Factors			Allocation Factors	
	Avg Day	Max Day	Max Rate	Base	Max Day	Max Hr	Base	Max Day	Max Hr
	mgd	mgd	mgd						
					(2)/(1)	(3)/(1)	1-(7)-(8)	(2)-(1)]/[(3) or (2)	[(3)-(2)]/(3)
Raw Water Pumping									
FY 2015	250.9	305.3		1.00	1.22	0.00	0.82	0.18	0.00
FY 2016	243.2	276.8		1.00	1.14	0.00	0.88	0.12	0.00
FY 2017	242.4	315.1		1.00	1.30	0.00	0.77	0.23	0.00
FY 2018	243.0	336.8		1.00	1.39	0.00	0.72	0.28	0.00
FY 2019	240.7	298.3		1.00	1.24	0.00	0.81	0.19	0.00
FY 2020	239.0	291.9		1.00	1.22	0.00	0.82	0.18	0.00
FY 2021	246.0	274.0		1.00	1.11	0.00	0.90	0.10	0.00
Avg FY 2015 - FY 2021	243.6	299.7		1.00	1.23	0.00	0.81	0.19	0.00
Avg FY 2017 - FY 2021	242.2	303.2		1.00	1.25	0.00	0.80	0.20	0.00
Avg FY 2019 - FY 2021	241.9	288.1		1.00	1.19	0.00	0.84	0.16	0.00
Maximum Demand Factors				1.00	1.39	0.00	0.72	0.28	0.00
USE				1.00	1.39	0.00	0.72	0.28	0.00
Filter Output									
FY 2015	235.0	278.6		1.00	1.19	0.00	0.84	0.16	0.00
FY 2016	228.1	255.7		1.00	1.12	0.00	0.89	0.11	0.00
FY 2017	227.5	272.9		1.00	1.20	0.00	0.83	0.17	0.00
FY 2018	227.6	311.8		1.00	1.37	0.00	0.73	0.27	0.00
FY 2019	226.0	266.8		1.00	1.18	0.00	0.85	0.15	0.00
FY 2020	224.5	264.9		1.00	1.18	0.00	0.85	0.15	0.00
FY 2021	230.6	250.5		1.00	1.09	0.00	0.92	0.08	0.00
Avg FY 2015 - FY 2021	228.5	271.6		1.00	1.19	0.00	0.84	0.16	0.00
Avg FY 2017 - FY 2021	227.2	273.4		1.00	1.20	0.00	0.83	0.17	0.00
Avg FY 2019 - FY 2021	227.0	260.7		1.00	1.15	0.00	0.87	0.13	0.00
Maximum Demand Factors				1.00	1.37	0.00	0.73	0.27	0.00
USE							0.72	0.28	0.00
Plant Output - Total									
FY 2015	230.8	289.2		1.00	1.25	0.00	0.80	0.20	0.00
FY 2016	223.8	256.4		1.00	1.15	0.00	0.87	0.13	0.00
FY 2017	222.2	268.2		1.00	1.21	0.00	0.83	0.17	0.00
FY 2018	222.6	303.9		1.00	1.37	0.00	0.73	0.27	0.00
FY 2019	221.8	258.1		1.00	1.16	0.00	0.86	0.14	0.00
FY 2020	220.3	259.7		1.00	1.18	0.00	0.85	0.15	0.00
FY 2021	226.6	251.7		1.00	1.11	0.00	0.90	0.10	0.00
Avg FY 2015 - FY 2021	224.0	269.6		1.00	1.20	0.00	0.83	0.17	0.00
Avg FY 2017 - FY 2021	222.7	268.3		1.00	1.20	0.00	0.83	0.17	0.00
Avg FY 2019 - FY 2021	222.9	256.5		1.00	1.15	0.00	0.87	0.13	0.00
Maximum Demand Factors				1.00	1.37	0.00	0.73	0.27	0.00
USE							0.72	0.28	

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRI	Test Year 2024	Budget Yr 2023	Ver. 1a
ALLOCFAC2 - Allocation Factors - Page 2	P.N. 401641.0100	January 26, 2023 9:26 a.m.			Wpltallo-4

Reference: BD-23

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		Flow Output			Demand Factors			Allocation Factors	
	Avg Day mgd	Max Day mgd	Max Rate mgd	Base	Max Day	Max Hr	Base	Max Day	Max Hr
					(2)/(1)	(3)/(1)	1-(7)-(8)	(2)-(1)]/[(3) or (2)	[(3)-(2)]/(3)
Total Districts Incl. Bucks Co									
FY 2015	230.8	291.8	365.5	1.00	1.26	1.58	0.63	0.17	0.20
FY 2016	223.8	258.2	430.8	1.00	1.15	1.92	0.52	0.08	0.40
FY 2017	223.0	263.8	402.5	1.00	1.18	1.80	0.56	0.10	0.34
FY 2018	232.2	301.0	346.0	1.00	1.30	1.49	0.67	0.20	0.13
FY 2019	221.8	258.1	330.9	1.00	1.16	1.49	0.67	0.11	0.22
FY 2020	220.5	257.7	326.0	1.00	1.17	1.48	0.68	0.11	0.21
FY 2021	226.7	256.9	472.7	1.00	1.13	2.09	0.48	0.06	0.46
Avg FY 2015 - FY 2021	225.5	269.6	382.1	1.00	1.20	1.69	0.59	0.12	0.29
Avg FY 2017 - FY 2021	224.8	267.5	375.6	1.00	1.19	1.67	0.60	0.11	0.29
Avg FY 2019 - FY 2021	223.0	257.6	376.5	1.00	1.16	1.69	0.59	0.09	0.32
Maximum Demand Factors				1.00	1.30	2.09	0.48	0.14	0.38
USE	223.0	.....	.....	1.00	1.30	2.09	0.48	0.14	0.38
Aqua PA									
FY 2015	2.6	6.1	9.0	1.00					
FY 2016	1.4	3.6	9.9	1.00	2.57	7.07	0.14	0.22	0.64
FY 2017	1.5	5.7	8.4	1.00	3.80	5.60	0.18	0.50	0.32
FY 2018	1.3	3.7	16.1	1.00	2.85	12.38	0.08	0.15	0.77
FY 2019	1.3	3.0	8.6	1.00	2.31	6.62	0.15	0.20	0.65
FY 2020	1.4	3.8	9.7	1.00	2.71	6.93	0.14	0.25	0.61
FY 2021	1.4	5.5	9.0	1.00	3.93	6.43	0.15	0.46	0.39
Avg FY 2015 - FY 2021	1.6	4.5	10.1	1.00	2.81	6.31	0.57	0.31	0.12
Avg FY 2017 - FY 2021	1.4	4.3	10.4	1.00	3.07	7.43	0.13	0.28	0.59
Avg FY 2019 - FY 2021	1.4	4.1	9.1	1.00	2.93	6.50	0.15	0.30	0.55
Maximum Demand Factors				1.00	3.93	12.38	0.08	0.24	0.68
USE	1.51	3.63	9.00	.....	2.40	.....	.....	.....	.....
	See Aqua PA TY Usage	=======	==========	==========	==========	==========	=========	=========	========== ======>

	Annual Increase	Average Annual Increase From FY 2017	Average Annual Increase Through FY 2023
FY 2015			
FY 2016	-3.0%	-3.0%	-0.4%
FY 2017	-0.4%	-1.7%	0.3%
FY 2018	4.1%	0.2%	0.6%
FY 2019	-4.5%	-1.0%	-1.2%
FY 2020	-5.0%	-0.9%	-2.4%
FY 2021	2.2%	-0.4%	2.2%

AQUA PA TEST YEAR USAGE

		Annual Usage (mcf)	Peak Usage mgd
FY 2023	73,753		
FY 2024	73,753	3.63	9.00
FY 2025	73,753	3.63	9.00
FY 2026	73,753	3.63	9.00
FY 2027	73,753	3.63	9.00
FY 2028	73,753		
FY 2029	73,753		
FY 2030	73,753		
TY 2024			
mcf	73,753		
mgd	1.51	3.63	9.00

Baxter Plant	% of Total									
FY 2016	55.2%	127.3	163.9		1.00	1.29	0.00	0.78	0.22	0.00
FY 2017	57.8%	129.3	150.6		1.00	1.16	0.00	0.86	0.14	0.00
FY 2018	59.2%	132.1	170.4		1.00	1.29	0.00	0.78	0.22	0.00
FY 2019	55.1%	127.9	166.4		1.00	1.30	0.00	0.77	0.23	0.00
FY 2020	58.1%	128.9	155.0		1.00	1.20	0.00	0.83	0.17	0.00
FY 2021	56.6%	124.8	155.1		1.00	1.24	0.00	0.80	0.20	0.00
FY 2022	56.1%	127.1	151.5		1.00	1.19	0.00	0.84	0.16	0.00
Avg FY 2016 - FY 2022	56.9%	128.2	159.0		1.00	1.24	0.00	0.81	0.19	0.00
Avg FY 2018 - FY 2022		128.2	159.7		1.00	1.25	0.00	0.80	0.20	0.00
Avg FY 2020 - FY 2022		126.9	153.9		1.00	1.21	0.00	0.82	0.18	0.00
Maximum Demand Factors					1.00	1.30	0.00	0.77	0.23	0.00
USE	56.9%	126.9				1.30				

Baxter Low Service									
FY 2016	40.0	50.1	62.0	1.00	1.25	1.55	0.65	0.16	0.19
FY 2017	40.1	49.7	68.0	1.00	1.24	1.70	0.59	0.14	0.27
FY 2018	39.0	52.0	62.2	1.00	1.33	1.59	0.63	0.21	0.16
FY 2019	36.7	46.3	60.0	1.00	1.26	1.63	0.61	0.16	0.23
FY 2020	37.7	42.1	65.5	1.00	1.12	1.74	0.57	0.07	0.36
FY 2021	32.8	42.0	54.9	1.00	1.28	1.67	0.60	0.17	0.23
FY 2022	38.6	44.6	55.8	1.00	1.16	1.45	0.69	0.11	0.20
Avg FY 2016 - FY 2022	37.8	46.7	61.2	1.00	1.24	1.62	0.61	0.15	0.24
Avg FY 2018 - FY 2022	37.0	45.4	59.7	1.00	1.23	1.61	0.62	0.14	0.24
Avg FY 2020 - FY 2022	36.4	42.9	58.7	1.00	1.18	1.61	0.62	0.11	0.27
Maximum Demand Factors				1.00	1.33	1.74	0.57	0.19	0.24
USE	36.4					1.74			

TABLE W-9

ALLOCATION OF TEST YEAR WATER PLANT DEPRECIATION EXPENSE
TO FUNCTIONAL COST COMPONENTS
TEST YEAR 2024

Line No.	Description	(1) Total Test Year Depreciation Expense $ Plant-15	(2) Base $	(3) Extra Capacity: Maximum Day $	(4) Extra Capacity: Maximum Hour In Excess of Maximum Day $	(5) Customer Meters $	(6) Public Fire Protection - Direct: Standard Pressure $	(7) Public Fire Protection - Direct: High Pressure $	(8) Wholesale Direct $ Plant-15	Allocation Basis: Base	Max Day	Max Hour	Aqua PA
	Raw Water Supply and Pumping												
1	Source of Supply	105,000	105,000							100%			
2	Power and Pumping	1,039,000	739,000	288,000					12,000	72%	28%		12,000
3	Total Supply and Pumping	1,144,000	844,000	288,000					12,000				12,000
	Purification and Treatment												
4	Power and Pumping (a)	1,840,000	868,000	253,000	688,000				31,000	48%	14%	38%	31,000
5	Treatment	8,983,000	6,355,000	2,472,000					156,000	72%	28%		156,000
6	Total Purification and Treatment	10,823,000	7,223,000	2,725,000	688,000				187,000				187,000
	Transmission and Distribution												
7	Mains	18,433,000	8,807,000	2,569,000	6,971,000				86,000	48%	14%	38%	86,000
8	Meters	3,236,000				3,236,000			0	100% Meters			
9	Hydrants	230,000					230,000		0	100% Standard Pressure Fire			
10	Filtered Water Storage	5,638,000	2,659,000	776,000	2,105,000				98,000	48%	14%	38%	98,000
11	High Pressure Fire System	0						0	0	100% High Pressure Fire			
12	Total Transmission and Distribution	27,537,000	11,466,000	3,345,000	9,076,000	3,236,000	230,000		184,000				184,000
13	Subtotal	39,504,000	19,533,000	6,358,000	9,764,000	3,236,000	230,000		383,000				383,000
14	Administrative and General	2,151,000	1,124,000	364,000	574,000	58,000	11,000	0	20,000	Allocation of Plant A & G			20,000
15	Total Water Plant Expense	41,655,000	20,657,000	6,722,000	10,338,000	3,294,000	241,000		403,000				403,000
			49.6%	16.1%	24.8%	7.9%	0.6%	0.0%	1.0%				1.0%

(a) Includes booster pumping

WCOS23_24.XLS

WOMALLO

The "Womallo" worksheet allocates Water System operation and maintenance expense to functional cost components.

Range	Description	Page Number	Table
WomaInd	Index	Womallo-1	
TYOME	Test Year O&M Expense	Womallo-2	
OMFAC	O&M by Facility	Womallo-3	
AOMF1	Adjusted O&M by Facility - Page 1	Womallo-4	
AOMF2	Adjusted O&M by Facility - Page 2	Womallo-5	
LDCNTRL	Load Control O&M Expense	Womallo-6	
DISTSYS	Distribution System O&M Expense	Womallo-7	
XXXXX	PAGE NOT IN USE	Womallo-8	
ADMIN	Allocation of Administrative Costs	Womallo-9	
MSMM	Machine Shop & Materials Mgmt O&M	Womallo-10	
DIROM	Allocation of Direct to O&M Facility	Womallo-11	
ADHR	Administrative & Human Resources O&M	Womallo-12	
xxxxx	NOT IN USE	Womallo-13	
ATOM	Allocation of Total O&M Expense	Womallo-14	
xxxxx	NOT IN USE	Womallo-15	
OMALLO	Allocation of O&M Expense - Table	Womallo-16	Schedule BV-2: Table 4-5
ATACC	Allocated Treatment & Conveyance Costs	Womallo-17	
PSWCOMAL	Aqua PA Allocated O&M	Womallo-18	

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
TYOME - Test Year O&M Expense	P.N. 401641.0100	January 26, 2023 2:16 p.m.					Womallo-2

Reference: Financial Planning Model
Link Worksheet

Line No.		(1) Test Year Class 100 Expend. $	(2) Test Year Class 200 Expenditures: Power $	(3) Gas $	(4) All Other $	(5) Total $	(6) Test Year Class 300 Expenditures: Chemicals $	(7) All Other $	(8) Total $	(9) Test Year Class 400 Expend. $	Total $	
	OPERATIONS DIVISION											
	DIRECT COSTS											
1	Baxter Treatment Plant	3,910,300	0	0	628,676	628,676	2,208,085	904,827	3,112,912	183,189	7,835,078	
2	Queen Lane Treatment Plant	3,600,338	0	0	1,112,332	1,112,332	2,244,348	786,288	3,030,636	40,335	7,783,641	
3	Belmont Treatment Plant	3,691,330	0	0	420,162	420,162	2,924,008	613,038	3,537,045	54,621	7,703,158	
4	Conveyance Headquarters	0	0	0	0	0	0	0	0	0	0	
5	Load Control	2,027,946	8,625,748	754,406	1,535,765	10,915,919	0	130,463	130,463	81,511	13,155,839	
6	Distribution	18,310,194	83,582	145,344	2,588,388	2,817,314	31,715	162,728	194,443	123,526	21,445,478	
7	Pumping	3,119,247	0	0	301,796	301,796	3,590	376,661	380,251	43,696	3,844,991	
8	Emergency & Support Services	0	0	0	0	0	0	0	0	0	0	
9	Subtotal	34,659,355	8,709,331	899,750	6,587,119	16,196,199	7,411,746	2,974,005	10,385,752	526,878	61,768,184	
	ALLOCATED COSTS											
10	Treatment Headquarters	372,122	0	44,987	87,011	131,998	15,728,556	3,858	15,732,414	420	16,236,955	
11	Machine Shops	0	0	0	0	0	0	0	0	0	0	
12	Building Maintenance	0	0	0	0	0	0	0	0	0	0	
13	Security	0	0	0	0	0	0	0	0	0	0	
14	Operations Admin.	3,142,173	0	0	10,252,462	10,252,462	0	99,601	99,601	1,344,509	14,838,745	
15	Mtls. Management	1,051,094	0	0	39,194	39,194	8,976	3,169,350	3,178,326	12,605	4,281,219	
16	Customer Service	947,491	0	0	1,965,199	1,965,199	0	10,171	10,171	1,261	2,924,122	
17	Warranty Program	0	0	0	0	0	0	0	0	0	0	
18	Meter Shop	1,397,826	0	0	6,663	6,663	0	34,019	34,019	2,941	1,441,449	
19	Automotive Maintenance	0	0	0	0	0	0	0	0	0	0	
20	Subtotal Allocated Costs	6,910,707	0	44,987	12,350,529	12,395,516	15,737,532	3,316,998	19,054,530	1,361,736	39,722,489	
21	Total Operations	41,570,062	8,709,331	944,737	18,937,648	28,591,716	23,149,279	6,291,003	29,440,282	1,888,614	101,490,672	
											101,490,672	x
	FRINGE BENEFITS											
22	Admin & Hr										3,435,325	
23	Finance										3,938,655	
24	Planning & Engr.										7,300,796	
25	Information Science & Tech										4,098,537	
26	Operations										34,340,787	
27	Public Affairs										2,651,132	
28	Dept. Of Revenue (WRB)										2,684,749	
29	Law Dept.										1,051,878	
30	Capital Fringes (270)										0	
31	Total Fringe Benefits										59,501,859	x
	INTERDEPARTMENTAL											
32	WRB Expense										4,850,032	x
33	All Other Expenses (includes Other Inter Dept Fringes)										7,427,497	
34	FINANCE & ADMIN										10,596,010	
35	HUMAN RESOURCES										5,754,598	
36	PLANNING & ENGINEERING	8,837,728				7,371,619			580,739	515,403	17,305,489	
37	INFORMATION SCIENCE & TECH	4,961,343				8,961,182			660,386	0	14,582,911	31,888,400
38	PUBLIC AFFAIRS										6,658,600	
39	INDEMNITIES										1,768,160	
40	TOTAL O&M EXPENSE (Adjusted for Liquidated Encumbrances)										229,935,828	31,888,400

Control Total Summary:		
Fringe Benefits	59,501,859	This page
Interdepartmental	68,943,297	This page
Operations	101,490,672	This page
Subtotal	229,935,828	
WTP Sludge	16,592,000	Womallo-16
Total	246,527,828	
Total agrees with Womallo-16	246,530,000	Womallo-16

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
OMFAC - O&M by Facility	P.N. 401641.0100	January 26, 2023 2:16 p.m.					Womallo-3

Reference: Womallo-2

WATER SYSTEM EXPENDITURES
TEST YEAR 2024

	(1) TRT HQ $	(2) Baxter $	(3) Queen Lane $	(4) Belmont $	(5) Treatment Subtotal $ (1)+(2)+(3)+(4)	(6) CONV HQ $	(7) Load Control $	(8) Dist. $	(9) Emerg & SS $	(10) Pumping $	(11) Control Subtotal $ (6)+(7)+(8)+(9)+(10)
PERSONAL SERVICES											
Total Class 100	372,122	3,910,300	3,600,338	3,691,330	11,574,090	0	2,027,946	18,310,194	0	3,119,247	23,457,387
PURCHASED SERVICES											
Power - Class 220	0	0	0	0	0	0	8,625,748	83,582	0	0	8,709,331
xxxxxxxx											
Power Less L.E. - Class 220	0	0	0	0	0	0	8,625,748	83,582	0	0	8,709,331
Gas - Class 221	44,987	0	0	0	44,987	0	754,406	145,344	0	0	899,750
xxxxxxxx											
Gas Less L.E. - Class 221	44,987	0	0	0	44,987	0	754,406	145,344	0	0	899,750
All Other	87,011	628,676	1,112,332	420,162	2,248,182	0	1,535,765	2,588,388	0	301,796	4,425,949
xxxxxxxx											
All Other Less L.E.	87,011	628,676	1,112,332	420,162	2,248,182	0	1,535,765	2,588,388	0	301,796	4,425,949
Total Class 200	131,998	628,676	1,112,332	420,162	2,293,169	0	10,915,919	2,817,314	0	301,796	14,035,029
MATERIALS AND SUPPLIES											
Chemicals - Class 307	15,728,556	2,208,085	2,244,348	2,924,008	23,104,997	0	0	31,715	0	3,590	35,305
xxxxxxxx											
Chemicals less L.E. - Class 3	15,728,556	2,208,085	2,244,348	2,924,008	23,104,997	0	0	31,715	0	3,590	35,305
All Other	3,858	904,827	786,288	613,038	2,308,010	0	130,463	162,728	0	376,661	669,853
xxxxxxxx											
All Other Less L.E.	3,858	904,827	786,288	613,038	2,308,010	0	130,463	162,728	0	376,661	669,853
Total Class 300	15,732,414	3,112,912	3,030,636	3,537,045	25,413,008	0	130,463	194,443	0	380,251	705,158
EQUIPMENT											
Total Class 400	420	183,189	40,335	54,621	278,565	0	81,511	123,526	0	43,696	248,733
Total Classes 100 - 400	16,236,955	7,835,078	7,783,641	7,703,158	39,558,832	0	13,155,839	21,445,478	0	3,844,991	38,446,307

	(12) GS HQ $	(13) CUST SERV $	(14) WARRANTY $	(15) METER SHOP $	(16) AUTO MAINT $	(17) BLDG MAINT $	(18) MACH SHOP $	(19) MTLS MGMT $	(20) SECURITY $	(21) GENERAL SUBTOTAL $ sum (12) thru (20)	(22) OPER ADMIN $	(23) OPER TOTAL $ (5)+(11)+(21)+(22)	(24) CHECK TOTAL $	(25) Difference $ (23) - (24)
PERSONAL SERVICES														
Total Class 100		947,491	0	1,397,826	0	0	0	1,051,094	0	3,396,411	3,142,173	41,570,062	41,570,062	0
PURCHASED SERVICES														
Power - Class 220		0	0	0	0	0	0	0	0	0	0	8,709,331	8,709,331	0
Gas - Class 221		0	0	0	0	0	0	0	0	0	0	944,737	944,737	0
All Other (excluding Class 2	0	1,965,199	0	6,663	0	0	0	39,194	0	2,011,056	10,252,462	18,937,648	18,937,648	0
Total Class 200	0	1,965,199	0	6,663	0	0	0	39,194	0	2,011,056	10,252,462	28,591,716	28,591,716	0
MATERIALS AND SUPPLIES														
Chemicals - Class 307		0	0	0	0	0	0	8,976	0	8,976	0	23,149,279	23,149,279	0
All Other	0	10,171	0	34,019	0	0	0	3,169,350	0	3,213,539	99,601	6,291,003	6,291,003	0
Total Class 300	0	10,171	0	34,019	0	0	0	3,178,326	0	3,222,515	99,601	29,440,282	29,440,282	0
EQUIPMENT														
Total Class 400		1,261	0	2,941	0	0	0	12,605	0	16,807	1,344,509	1,888,614	1,888,614	0
Total Classes 100 - 400	0	2,924,122	0	1,441,449	0	0	0	4,281,219	0	8,646,789	14,838,745	101,490,672	101,490,672	0

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
AOMF1 - Adjusted O&M by Facility - Page 1	P.N. 401641.0100	January 26, 2023 2:16 p.m.					Womallo-4

Reference: Womallo-3

WATER SYSTEM EXPENDITURES WITH ADJUSTMENTS
TEST YEAR 2024

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
	TRT HQ (a)	Baxter	Queen Lane	Belmont	Treatment Subtotal	CONV HQ (b)	Load Control	Dist.	Emerg & SS	Pumping (c)	WC Subtotal	
	$	$	$	$	$	$	$	$	$	$	$	
					(1)+(2)+(3)+(4)						(6)+(7)+(8)+(9)+(10)	
PERSONAL SERVICES												
Total Class 100	372,122	3,910,300	3,600,338	3,691,330	11,574,090	0	2,027,946	18,310,194	0	3,119,247	23,457,387	
Adjustments	(372,122)	124,041	124,041	124,040	0	0	3,119,247	0	0	(3,119,247)	(0)	
Adjusted Class 100	0	4,034,341	3,724,379	3,815,370	11,574,090	0	5,147,193	18,310,194	0	0	23,457,387	
PURCHASED SERVICES												
Power - Class 220	0	0	0	0	0	0	8,625,748	83,582	0	0	8,709,331	
Adjustments	0	0	0	0	0	0	0	0	0	0	0	Allocation of Admin Power Costs
Adjusted Power - Class 220	0	0	0	0	0	0	8,625,748	83,582	0	0	8,709,331	
Gas - Class 221	44,987	0	0	0	44,987	0	754,406	145,344	0	0	899,750	
Adjustments	(44,987)	14,996	14,996	14,995	0	0	0	0	0	0	0	
Adjusted Gas - Class 221	0	14,996	14,996	14,995	44,987	0	754,406	145,344	0	0	899,750	
Allocate Pumping Gas Costs to Load Control							0			0	0	
All Other	87,011	628,676	1,112,332	420,162	2,248,182	0	1,535,765	2,588,388	0	301,796	4,425,949	
Adjustments	(87,011)	29,004	29,004	29,003	0	0	301,796	0	0	(301,796)	0	
Adjusted All Other	0	657,680	1,141,336	449,165	2,248,182	0	1,837,561	2,588,388	0	0	4,425,949	
Total Class 200	0	672,676	1,156,332	464,161	2,293,169	0	11,217,715	2,817,314	0	0	14,035,029	
MATERIALS AND SUPPLIES												
Chemicals - Class 307	15,728,556	2,208,085	2,244,348	2,924,008	23,104,997	0	0	31,715	0	3,590	35,305	
Adjustments	(15,728,556)	5,244,049	5,244,049	5,244,049	3,590	0	0	0	0	(3,590)	(3,590)	
Adjusted Chemicals	0	7,452,134	7,488,397	8,168,056	23,108,588	0	0	31,715	0	0	31,715	
All Other	3,858	904,827	786,288	613,038	2,308,010	0	130,463	162,728	0	376,661	669,853	
Adjustments	(3,858)	1,286	1,286	1,286	0	0	376,661	0	0	(376,661)	0	
Adjusted All Other	0	906,113	787,574	614,323	2,308,010	0	507,124	162,728	0	0	669,853	
Total Class 300	0	8,358,247	8,275,971	8,782,380	25,416,598	0	507,124	194,443	0	0	701,568	
EQUIPMENT												
Total Class 400	420	183,189	40,335	54,621	278,565	0	81,511	123,526	0	43,696	248,733	
Adjustments	(420)	140	140	140	0	0	43,696	0	0	(43,696)	(0)	
Adjusted Class 400	0	183,329	40,475	54,761	278,565	0	125,207	123,526	0	0	248,733	
Adjusted Total Classes 100 - 400	0	13,248,594	13,197,157	13,116,671	39,562,422	0	16,997,239	21,445,478	0	0	38,442,717	
Fringe Benefits (Womallo-2) (d)	0	3,332,746	3,076,688	3,151,855	9,561,289	0	4,252,066	15,125,945	0	0	19,378,011	
ADJUSTED TOTAL INCLUDING FRINGE BENEFITS	0	16,581,339	16,273,845	16,268,526	49,123,711	0	21,249,305	36,571,423	0	0	57,820,728	

(a) Adjustments prorated to Baxter, Queen Lane, and Belmont plants.
(b) Adjustments prorated to Load Control, Distribution, and E&S Services.
(c) Chemical adjustment prorated to Baxter, Queen Lane, and Belmont Plants. Remaining adjustments prorated to Load Control .
(d) Allocated based on Adjusted Class 100.

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
AOMF2 - Adjusted O&M by Facility - Page 2	P.N. 401641.0100	January 26, 2023 2:16 p.m.					Womallo-5

Reference: Womallo-3

WATER SYSTEM EXPENDITURES WITH ADJUSTMENTS
TEST YEAR 2024

	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	
	GS HQ (a)	Customer Service	Warranty	Meter Shop	Auto Maint	BLDG MAINT	Machine Shop	MTLS MGMT	Security	General Subtotal	OPER ADMIN	OPER TOTAL	
	$	$	$	$	$	$	$	$	$	$	$	$	
										sum (12) thru (20)		(5)+(11)+(21)+(22)	
PERSONAL SERVICES													
Total Class 100	0	947,491	0	1,397,826	0	0	0	1,051,094	0	3,396,411	3,142,173	41,570,062	
Adjustments	0	0	0	0	0	0	0	0	0	0			
Adjusted Class 100	0	947,491	0	1,397,826	0	0	0	1,051,094	0	3,396,411	3,142,173	41,570,062	
PURCHASED SERVICES													
Power - Class 220	0	0	0	0	0	0	0	0	0	0	0	8,709,331	
Adjustments											0	0	
Adjusted Power - Class 220	0	0	0	0	0	0	0	0	0	0	0	8,709,331	
Gas - Class 221	0	0	0	0	0	0	0	0	0	0	0	944,737	
Adjustments											0	0	
Adjusted Gas - Class 221	0	0	0	0	0	0	0	0	0	0	0	944,737	
All Other (b)	0	1,965,199	0	6,663	0	0	0	39,194	0	2,011,056	10,252,462	18,937,648	
Adjustments	0	0	0	0	0	0	0	0	0	0			
Adjusted All Other	0	1,965,199	0	6,663	0	0	0	39,194	0	2,011,056	10,252,462	18,937,648	
Total Class 200	0	1,965,199	0	6,663	0	0	0	39,194	0	2,011,056	10,252,462	28,591,716	
MATERIALS AND SUPPLIES													
Chemicals - Class 307	0	0	0	0	0	0	0	8,976	0	8,976	0	23,149,279	
Adjustments										0			
Adjusted Chemicals	0	0	0	0	0	0	0	8,976	0	8,976	0	23,149,279	
All Other	0	10,171	0	34,019	0	0	0	3,169,350	0	3,213,539	99,601	6,291,003	
Adjustments	0	0	0	0	0	0	0	0	0	0			
Adjusted All Other	0	10,171	0	34,019	0	0	0	3,169,350	0	3,213,539	99,601	6,291,003	
Total Class 300	0	10,171	0	34,019	0	0	0	3,178,326	0	3,222,515	99,601	29,440,282	
EQUIPMENT													
Total Class 400	0	1,261	0	2,941	0	0	0	12,605	0	16,807	1,344,509	1,888,614	
Adjustments													
Adjusted Class 400	0	1,261	0	2,941	0	0	0	12,605	0	16,807	1,344,509	1,888,614	
Adjusted Total Classes 100 - 400	0	2,924,122	0	1,441,449	0	0	0	4,281,219	0	8,646,789	14,838,745	101,490,672	
												101,490,672	AGREES with Womallo-3
Fringe Benefits (Womallo-2) (b)	0	782,717	0	1,154,736	0	0	0	868,303	0	2,805,756	2,595,731	34,340,787	
ADJUSTED TOTAL INCLUDING FRINGE BENEFITS	0	3,706,839	0	2,596,185	0	0	0	5,149,522	0	11,452,545	17,434,476	135,831,459	

(a) Prorated to all other General Support items (Columns 13 through 19).
(b) Allocated based on Adjusted Class 100.

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
LDCNTRL - Load Control O&M Expense	P.N. 401641.0100	January 26, 2023 2:16 p.m.					Womallo-6

Reference:

Power Cost:	Percent of Total (a) BOX 2	Percent of Load Control	Load Control Power Cost $
Raw Water Pumping			
Baxter Plant	6.61%	6.98%	602,077
All Other	33.79%	35.69%	3,078,529
Subtotal	40.40%	42.67%	3,680,606
Treated Water Pumping			
Baxter Plant (Low Service)	9.68%	10.22%	881,551
All Other (b)	44.60%	47.11%	4,063,591
Subtotal	54.28%	57.33%	4,945,142
High Pressure Fire (c)	0.00%	0.00%	0
Total Load Control	94.68%	100.00%	8,625,748

(a) Percent of total system power bills based on 2 year average FY2020 and FY 2021.
(b) Includes booster pump stations and Filter Buildings.
(c) Includes Fairhill and Race Street pump stations.

BOX 2 - WATER DEPT ELECTRICAL EXPENDITURES

Source: PWD Power and Gas Costs.xls

	FY 2020 $	FY 2021 $	Average $	%			
Baxter							
Raw Water PS	443,155	422,866	433,011	6.61%	x		
Hi Service PS	356,261	339,951	348,106	5.32%	x		
Lo Service PS	648,802	619,097	633,950	9.68%	x		
Filter Bldg	232,867	208,079	220,473	3.37%	x		
Queen Lane							
Raw Water PS	1,131,527	1,148,891	1,140,209	17.41%	x		
Hi Service PS	440,459	443,617	442,038	6.75%	x		
Rox Exp PS	0	0	0	0.00%			
Filter Bldg	198,402	194,908	196,655	3.00%	x		
Belmont							
Raw Water PS	1,056,802	1,089,276	1,073,039	16.38%	x		
Hi Service PS	139,900	139,997	139,948	2.14%	x		
Filter Bldg	127,695	121,222	124,459	1.90%	x		
Distrib./Booster PS	1,878,921	1,715,419	1,797,170	27.44%	x		
Hi Press. Fire System	0	0	0	0.00%		100.00%	Shut down 1/6/05 (28282U01.xls BD-19 FY 2007)

Gas Cost:	Percent of Total (a) BOX 3	Percent of Load Control	Load Control Gas Cost $
Raw Water Pumping			
Baxter Plant	0.00%	0.00%	0
All Other	0.12%	0.12%	905
Subtotal	0.12%	0.12%	905
Treated Water Pumping			
Baxter Plant (Low Service)	0.00%	0.00%	0
All Other (b)	99.88%	99.88%	753,501
Subtotal	99.88%	99.88%	753,501
High Pressure Fire (c)	0.00%	0.00%	0
Total Load Control	100.00%	100.00%	754,406

(a) Percent of total system gas bills based on 2 year average FY2020 and FY 2021.
(b) Includes booster pump stations and Filter Buildings.
(c) Includes Fairhill and Race Street pump stations.

BOX 3 - WATER DEPT GAS EXPENDITURES

Source: PWD Power and Gas Costs.xls

	FY 2020 $	FY 2021 $	Average $	%		
Baxter						
Raw Water PS	0	0	0	0.00%	x	
Hi Service PS	0	0	0	0.00%	x	
Lo Service PS	0	0	0	0.00%	x	
Filter Bldg	161,447	123,006	142,227	39.12%	x	
Queen Lane						
Raw Water PS	499	372	436	0.12%	x	
Hi Service PS	0	0	0	0.00%	x	
Rox Exp PS	0	0	0	0.00%		
Filter Bldg	71,516	83,543	77,530	21.32%	x	
Belmont						
Raw Water PS	0	0	0	0.00%	x	
Hi Service PS	6,224	16,194	11,209	3.08%	x	
Filter Bldg	61,293	51,233	56,263	15.47%	x	
Distrib./Booster PS	75,315	76,630	75,973	20.89%	x	
Hi Press. Fire System	0	0	0	0.00%		100.00%

(a) Includes booster pumping.
(b) Includes Wastewater System cost of treating water treatment plant sludge of $16,592,000.

Line 21 Less power, gas, chemicals, and WTP sludge	163,409,000	89,942,000	1.73%	1,553,000	1,553,000

All Other Load Control Expense:

	Test Year Plant Investment $ BOX 1	Percent	Percent of Load Control	Load Control Expense Excluding Power: Class100(a) $ Womallo-4	Class200 $ Womallo-4	Class300 $ Womallo-4	Class400 $ Womallo-4	Total $
Raw Water Pumping			PUMPING RELATED:					
Baxter Plant	17,022,129	11.94%	8.96%	842,174	164,646	45,438	11,219	1,063,477
All Other	32,697,961	22.93%	17.20%	1,616,672	316,061	87,225	21,536	2,041,494
Subtotal	49,720,090	34.87%	26.16%	2,458,846	480,707	132,663	32,755	3,104,971
Treated Water Pumping								
Baxter Plant (Low Service)	14,694,058	10.30%	7.73%	726,563	142,043	39,201	9,678	917,485
All Other	78,182,674	54.83%	41.11%	3,864,035	755,421	208,479	51,473	4,879,408
Subtotal	92,876,732	65.13%	48.84%	4,590,598	897,464	247,680	61,151	5,796,893
High Pressure Fire	0	0.00%	0.00%	0	0	0	0	0
Total Load Control	142,596,822	100.00%	75%	7,049,444	1,378,171	380,343	93,906	8,901,864
			DISTRIBUTION SYSTEM RELATED:					
			25%	2,349,815	459,390	126,781	31,302	2,967,288
			100.00%	9,399,259	1,837,561	507,124	125,207	11,869,152
								11,869,151

Agrees with Womallo-4

(a) Includes Fringe Benefits

BOX 1 - PLANT INVESTMENT	$ Plant-8
TEST YR PLANT IN SERVICE	
POWER & PUMPING - RAW WATER	
Torresdale	17,022,129
Torresdale Intake Conduit	0
Torresdale Raw Water Basin	0
All Other	32,697,961
Total	49,720,090
PURIFICATION	
Torresdale Filters	174,522,237
All Other	219,017,326
Total	393,539,563
TREATED WATER	
Torresdale Low Service	14,694,058
All Other	78,182,674
Total	92,876,732
HIGH PRESSURE FIRE	0

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
DISTSYS - Distribution System O&M Expense	P.N. 401641.0100	January 26, 2023 2:16 p.m.					Womallo-7

	Test Year Plant Investment (a) $ BOX 1	Percent of Total Distribution	Distribution Expense Class100 $ Womallo-4	Class200 $ Womallo-4	Class300 $ Womallo-4	Class400 $ Womallo-4	Total $
Transmission & Distribution Mains							
Small Mains	717,751,428	60.88%	20,355,921	1,715,181	118,377	75,203	22,264,682
Large Mains (24" and larger)	262,798,090	22.29%	7,452,915	627,979	43,341	27,534	8,151,769
Total Mains (exClassHP Fire)	980,549,518	83.17%	27,808,836	2,343,160	161,718	102,737	30,416,451
Fire Hydrants	9,200,000	0.78%	260,802	21,975	1,517	964	285,258
Meters	46,226,870	3.92%	1,310,697	110,439	7,622	4,842	1,433,600
Filt Water Storage & All Other	142,898,276	12.13%	4,055,804	341,740	23,586	14,983	4,436,114
High Pressure Fire System	0	0.00%	0	0	0	0	0
Total Distribution System	1,178,874,665	100.00%	33,436,139	2,817,314	194,443	123,526	36,571,423
	1,178,874,665	AGREES with BOX 1					
Included in Fire Hydrants Above			0	0	0	0	0 (b)
(a) Plant investment in Distribution related facilities.			33,436,139	2,817,314	194,443	123,526	36,571,423
Includes Fringe Benefits.							36,571,423

(b) NA.

AGREES with Womallo-4

BOX 1 - PLANT INVESTMENT			%	$ Plant-15
Total Mains				980,549,518
1	16" and larger		35.3%	
2	18" and larger		31.4%	
3	24" and larger		26.8%	
4	30" and larger		23.2%	
5	36" and larger		18.6%	
6	48" and larger		14.9%	
	USE	3	26.8%	262,798,090
	Bucks County 48" Main			0
Fire Hydrants				9,200,000
Meters				46,226,870
Filtered Water Storage (exClassresevoirs)				39,587
All Other (Reservoirs)				142,858,689
Total Distribution System				198,325,146
High Pressure Fire System				0

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
XXXXX - PAGE NOT IN USE	P.N. 401641.0100	January 26, 2023 2:16 p.m.					Womallo-8

COST CENTER NO LONGER BUDGETED

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
ADMIN - Allocation of Administrative Costs	P.N. 401641.0100	January 26, 2023 2:16 p.m.					Womallo-9

ALLOCATION OF PLANNING & ENGINEERING EXPENSE

ALLOCATION OF DOT

ALLOCATION OF PUBLIC AFFAIRS

Allocated to cost centers or functional categories based on budget details (Financial Plan Model: Assumptions-23 and Assumptions-31

	Total Planning & Engineering $ Womallo-3	Watersheds	BLS	Planning & Research	DOT Womallo-3	Customer	A&G	Public Affairs $	Customer	Volume	A&G
Class 100 (including fringes)	16,138,524	959,408	6,415,898	8,763,218	9,059,880	914,219	8,145,661	5,860,369			5,860,369
Class 200	7,371,619	4,285,826	1,047,330	2,038,463	8,961,182	1,812,494	7,148,688	3,299,281	1,566,767	821,828	910,686
Class 300	580,739	3,651	561,841	15,247	660,386	65,844	594,542	147,274			147,274
Class 400	515,403	3,167	481,934	30,303	0	0	0	2,808			2,808
Total	24,606,284	5,252,052	8,507,003	10,847,230	18,681,448	2,792,557	15,888,891	9,309,733	1,566,767	821,828	6,921,138
Class 100	8,837,728	525,388	3,513,454	4,798,886							
P&E + DOT		8,044,609	8,507,003	26,736,121							

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
MSMM - Machine Shop & Materials Mgmt O&M	P.N. 401641.0100	January 26, 2023 2:16 p.m.					Womallo-10

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Treatment Plants	Load Control	Distribution	E&SS (a)	Customer Service (b)	Automotive Maint. (c)	Building Maint. (d)	TOTAL Class300	Machine Shop & Materials Mgmt. (e)
	$	$	$	$	$	$	$	$	$
SUPPLY & TREATMENT	Womallo-4	Womallo-6	Womallo-7	Womallo-8	Womallo-5	Womallo-5	Womallo-5		Womallo-5
Source of Supply									
Raw Water Power & Pumping									
Baxter Treatment Plant									
Power									
Gas									
All Other Costs		45,438						45,438	81,166
Subtotal	0	45,438	0	0	0	0	0	45,438	81,166
All Other Treatment Plants									
Power									
Gas									
All Other Costs		87,225						87,225	155,810
Subtotal	0	87,225	0	0	0	0	0	87,225	155,810
Subtotal	0	132,663	0	0	0	0	0	132,663	236,976
Treatment									
Purification									
Baxter Treatment Plant									
Power									
Gas									
Chemicals									
All Other Costs	906,113					0		906,113	1,618,584
Subtotal	906,113	0	0	0	0	0	0	906,113	1,618,584
All Other Treatment Plants									
Power									
Gas									
Chemicals									
All Other Costs	1,401,897					0		1,401,897	2,504,201
Subtotal	1,401,897	0	0	0	0	0	0	1,401,897	2,504,201
Subtotal	2,308,010	0	0	0	0	0	0	2,308,010	4,122,785
Treated Water Power & Pumping									
Baxter Treatment Plant - L.S.									
Power									
Gas									
All Other Costs		39,201						39,201	70,025
Subtotal	0	39,201	0	0	0	0	0	39,201	70,025
All Other Pumping									
Power									
Gas									
All Other Costs		208,479						208,479	372,405
Subtotal	0	208,479	0	0	0	0	0	208,479	372,405
Subtotal	0	247,680	0	0	0	0	0	247,680	442,430
Total Supply & Treatment	2,308,010	380,343	0	0	0	0	0	2,688,353	4,802,191
DISTRIBUTION									
Filtered Water Storage			23,586			0		23,586	42,132
High Pressure Fire System		0				0		0	0
Transmission & Distribution Mains									
Small Mains (Less than 24")			118,377			0		118,377	211,456
Large Mains (24" & Over)			43,341			0		43,341	77,420
Subtotal	0	0	161,718	0	0	0	0	161,718	288,876

Fire Hydrants			1,517			0		1,517	2,710
Meters			7,622			0		7,622	13,613
Total Distribution	0	0	194,443	0	0	0	0	194,443	347,331
CUSTOMER ACCT. & COLLECTION			0		44,189			44,189	
ADMINISTRATIVE & GENERAL								0	0
TOTAL O & M	2,308,010	380,343	194,443	0	44,189	0	0	2,926,985	5,149,522
		380,343	194,443	0		0	0		5,149,522
		Agrees with Womallo-6	Agrees with Womallo-7	Agrees with Womallo-4		Agrees with Womallo-5	Agrees with Womallo-5		Agrees with Womallo-5

(a) Total of this column is distributed based on distribution shown in column (4), Womallo-11.
(b) Includes Customer Service and Meter Shop.
(c) Total of this column is distributed based on distribution shown in column (6), Womallo-11.
(d) Total of this column is distributed based on distribution shown in column (7), Womallo-11.
(e) Total of this column is distributed based on distribution shown in column (8), this page, excluding Customer Acct. and Collection.

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
DIROM - Allocation of Direct to O&M Facility	P.N. 401641.0100	January 26, 2023 2:16 p.m.					Womallo-11

Line No.		(1) Treatment Plants (a) $ Womallo-4	(2) Conveyance (b) Load Control (i) $ Womallo-6	(3) Conveyance (b) Distribution $ Womallo-7	(4) Conveyance (b) E & S Services (j) $ Womallo-8	(5) Customer Service (c) $ Womallo-5	(6) Warranty Program $ Womallo-5	(7) Automotive Maint (d) $ Womallo-9	(8) Building Maint $ Womallo-9	(9) Machine Shop & Materials Management $ Womallo-10	(10) Subtotal $	(11) Admin. & General (f) $ Womallo-5	(12) Total Direct Expense $
	SUPPLY & TREATMENT												
1	Source of Supply												
	Raw Water Power & Pumping												
	Baxter Treatment Plant												
2	Power		602,077								602,077		602,077
3	Gas		0								0		0
4	All Other Costs		1,063,477							81,166	1,144,643		1,144,643
5	Subtotal	0	1,665,554	0	0	0	0	0	0	81,166	1,746,720	0	1,746,720
	All Other Treatment Plants												
6	Power		3,078,529								3,078,529		3,078,529
7	Gas		905								905		905
8	All Other Costs		2,041,494							155,810	2,197,304		2,197,304
9	Subtotal	0	5,120,928	0	0	0	0	0	0	155,810	5,276,738	0	5,276,738
10	Subtotal	0	6,786,482	0	0	0	0	0	0	236,976	7,023,458	0	7,023,458
	Treatment												
	Purification												
	Baxter Treatment Plant												
11	Power	0									0		0
12	Gas	14,996									14,996		14,996
13	Chemicals	7,452,134									7,452,134		7,452,134
14	All Other Costs	9,114,209								1,618,584	10,732,793		10,732,793
15	Subtotal	16,581,339	0	0	0	0	0	0	0	1,618,584	18,199,923	0	18,199,923
	All Other Treatment Plants												
16	Power	0									0		0
17	Gas	29,991									29,991		29,991
18	Chemicals	15,656,453									15,656,453		15,656,453
19	All Other Costs	16,855,927								2,504,201	19,360,128		19,360,128
20	Subtotal	32,542,371	0	0	0	0	0	0	0	2,504,201	35,046,572	0	35,046,572
21	Subtotal	49,123,710	0	0	0	0	0	0	0	4,122,785	53,246,495	0	53,246,495
	Treated Water Power & Pumping												
	Baxter Treatment Plant - L.S.												
22	Power		881,551								881,551		881,551
23	Gas		0								0		0
24	All Other Costs		917,485							70,025	987,510		987,510
25	Subtotal	0	1,799,036	0	0	0	0	0	0	70,025	1,869,061	0	1,869,061
	All Other Pumping												
26	Power		4,063,591								4,063,591		4,063,591
27	Gas		753,501								753,501		753,501
28	All Other Costs		4,879,408							372,405	5,251,813		5,251,813
29	Subtotal	0	9,696,500	0	0	0	0	0	0	372,405	10,068,905	0	10,068,905
	Subtotal	0	11,495,536	0	0	0	0	0	0	442,430	11,937,966	0	11,937,966
30	Total Supply & Treatment	49,123,710	18,282,018	0	0	0	0	0	0	4,802,191	72,207,919	0	72,207,919
	DISTRIBUTION												
31	Filtered Water Storage		374,617	4,436,114				0		42,132	4,852,863		4,852,863
32	High Pressure Fire System		0	0				0		0	0		0
	Transmission & Distribution Mains												
33	Small Mains (Less than 24")		1,880,188	22,264,682				0		211,456	24,356,326		24,356,326
34	Large Mains (24" & Over)		688,393	8,151,769				0		77,420	8,917,582		8,917,582
35	Subtotal	0	2,568,581	30,416,451	0	0	0	0	0	288,876	33,273,908	0	33,273,908

36	Fire Hydrants		24,089	285,258				0		2,710	312,057		312,057		
37	Meters			1,433,600				0		13,613	1,447,213		1,447,213		
38	Total Distribution	0	2,967,287	36,571,423	0	0	0		0	347,331	39,886,041	0	39,886,041		
39	CUSTOMER ACCT. & COLLECTION					6,303,023				0	6,303,023		6,303,023		Operations Meter Shop and Custon
40	WARRANTY PROGRAM						0				0		0		
41	ADMINISTRATIVE & GENERAL										0	17,434,476	17,434,476		Operations Admin
42	TOTAL O & M	49,123,710	21,249,305	36,571,423	0	6,303,023	0	0	0	5,149,522	118,396,983	17,434,476	135,831,459		135,831,459
		49,123,711	21,249,305	36,571,423	0	6,303,023	0	0	0	5,149,522	118,396,983	17,434,476	135,831,459	0	135,831,459
		Agrees with Womallo-4	Agrees with Womallo-4	Agrees with Womallo-4	Agrees with Womallo-4	Agrees with Womallo-5	Agrees with Womallo-5	Agrees with Womallo-5	Agrees with Womallo-5	Agrees with Womallo-5	Agrees with sum of Columns (1) through (8)	Agrees with Womallo-5	Agrees with Womallo-5		

(a) Includes Treatment Headquarters.
(b) Includes Conveyance Headquarters, Load Control, Distribution, E & S Services, and Pumping.
(c) Includes Meter Expense.
(d) NA.
(f) Includes Security, Operations Admin. & a portion of Auto Maint. Total prorated on basis of all other expense excluding power & chemicals.
(g) NA
(i) Load Control distribution costs are allocated between categories based on col (3). HP Fire system includes Power, All Other, and a share of Distribution costs.
(j) E&SS is no longer a budget cost center.

File: WCOS23_24_ver1.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2024 | Budget Yr 2023 | Ver. 1a
ADHR - Administrative & Human Resources O&M | P.N. 401641.0100 | January 26, 2023 2:16 p.m. | Womallo-12

	(1) Treatment Plants $ Womallo-4	(2) Load Control $ Womallo-6	(3) Distribution $ Womallo-7	(4) E&SS $ Womallo-4	(5) Customer Service $ Womallo-5	(6) Automotive Maint. $ Womallo-5	(7) Building Maint. $ Womallo-5	(8) Materials Mgmt. (d) $ Womallo-5	(9) TOTAL Personal Srv & Fringe Bft Class100 $	(10) Admin. & Human Resources $ Womallo-2
SUPPLY & TREATMENT										
Source of Supply										
Raw Water Power & Pumping										
Baxter Treatment Plant										
Power										
Gas										
All Other Costs		842,174						30,253	872,427	118,567
Subtotal	0	842,174	0	0	0	0	0	30,253	872,427	118,567
All Other Treatment Plants										
Power										
Gas										
All Other Costs		1,616,672						58,076	1,674,748	227,606
Subtotal	0	1,616,672	0	0	0	0	0	58,076	1,674,748	227,606
Subtotal	0	2,458,846	0	0	0	0	0	88,329	2,547,175	346,173
Treatment										
Purification										
Baxter Treatment Plant										
Power										
Gas										
Chemicals										
All Other Costs	7,367,087					0		603,300	7,970,387	1,083,212
Subtotal	7,367,087	0	0	0	0	0	0	603,300	7,970,387	1,083,212
All Other Treatment Plants										
Power										
Gas										
Chemicals										
All Other Costs	13,768,292					0		933,399	14,701,691	1,998,028
Subtotal	13,768,292	0	0	0	0	0	0	933,399	14,701,691	1,998,028
Subtotal	21,135,379	0	0	0	0	0	0	1,536,699	22,672,078	3,081,240
Treated Water Power & Pumping										
Baxter Treatment Plant - L.S.										
Power										
Gas										
All Other Costs		726,563						26,101	752,664	102,291
Subtotal	0	726,563	0	0	0	0	0	26,101	752,664	102,291
All Other Pumping										
Power										
Gas										
All Other Costs		3,864,035						138,808	4,002,843	544,005
Subtotal	0	3,864,035	0	0	0	0	0	138,808	4,002,843	544,005
Subtotal	0	4,590,598	0	0	0	0	0	164,909	4,755,507	646,296
Total Supply & Treatment	21,135,379	7,049,444	0	0	0	0	0	1,789,937	29,974,760	4,073,709
DISTRIBUTION										
Filtered Water Storage		296,662	4,055,804			0		15,704	4,368,170	593,655
High Pressure Fire System		0	0			0		0	0	0
Transmission & Distribution Mains										
Small Mains (Less than 24")		1,488,934	20,355,921			0		78,815	21,923,670	2,979,528
Large Mains (24" & Over)		545,143	7,452,915			0		28,857	8,026,915	1,090,895
Subtotal	0	2,034,077	27,808,836	0	0	0	0	107,672	29,950,585	4,070,423

Fire Hydrants		19,076	260,802			0		1,010	280,888	38,174
Meters			1,310,697			0		5,074	1,315,771	178,819
Total Distribution	0	2,349,815	33,436,139	0	0	0	0	129,460	35,915,414	4,881,071
CUSTOMER ACCT. & COLLECTION					1,730,208			0	1,730,208	235,143
ADMINISTRATIVE & GENERAL								0	0	0
TOTAL O & M	21,135,379	9,399,259	33,436,139	0	1,730,208	0	0	1,919,397	67,620,382	9,189,923
	21,135,379	9,399,259	33,436,139	0	1,730,208	0	0	1,919,397	67,620,382	9,189,923
	Agrees with Womallo-4	Agrees with Womallo-4	Agrees with Womallo-4	Agrees with Womallo-4	Agrees with Womallo-5	Agrees with Womallo-5	Agrees with Womallo-5	Agrees with Womallo-5	Agrees with sum of Columns (1) through (8)	Agrees with Womallo-2

(a) NA.
(b) NA.
(c) NA.
(d) Total of this column is distributed based on distribution shown in column (9), Womallo-11.

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
xxxxx - NOT IN USE	P.N. 401641.0100	January 26, 2023 2:16 p.m.					Womallo-13

File: WCOS23_24_ver1.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE | Test Year 2024 | Budget Yr 2023 | Ver. 1a
ATOM - Allocation of Total O&M Expense | P.N. 401641.0100 | January 26, 2023 2:16 p.m. | Womallo-14

Line No.		(1) Total Direct Expense $ Womallo-11	(2) Inter-Departmental Charges (a) $ Womallo-2	(3) Finance Direct Allocations $	(4) Other Finance (b) $	(5) Admin. & Human Resources (c) $ Womallo-12	(6) Planning & Engineering Watersheds $ Womallo-15	(7) Planning & Engineering BLS $ Womallo-15	(8) Planning & Engineering P&R $ Womallo-15	(9) DOT (d) Womallo-15	(10) Public Affairs (b) $ Womallo-2	(11) Indemnities $ Womallo-2	(12) Capital Fringes (270) $ Womallo-2	(13) WTP Sludge (e) $	(14) Total Operation & Maint. $	(15) Distribution of Plant Investment $
	SUPPLY & TREATMENT															
1	Source of Supply	0				0										
	Raw Water Power & Pumping															
	Baxter Treatment Plant															
2	Power	602,077													602,077	
3	Gas	0													0	
4	All Other Costs	1,144,643	60,040		88,504	118,567	58,198	94,266	103,399	187,506	11,824		0		1,866,947	17,022,129
5	Subtotal	1,746,720	60,040	0	88,504	118,567	58,198	94,266	103,399	187,506	11,824	0	0		2,469,024	17,022,129
	All Other Treatment Plants															
6	Power	3,078,529													3,078,529	
7	Gas	905													905	
8	All Other Costs	2,197,304	115,254		169,895	227,606	111,719	180,957	198,619	359,945	22,697		0		3,583,996	32,697,961
9	Subtotal	5,276,738	115,254	0	169,895	227,606	111,719	180,957	198,619	359,945	22,697	0	0		6,663,430	32,697,961
10	Subtotal	7,023,458	175,294	0	258,399	346,173	169,917	275,223	302,018	547,451	34,521	0	0		9,132,454	49,720,090
	Treatment															
	Purification															
	Baxter Treatment Plant															
11	Power	0													0	
12	Gas	14,996													14,996	
13	Chemicals	7,452,134													7,452,134	
14	WTP Sludge													9,441,815	9,441,815	
15	All Other Costs	10,732,793	562,963		829,859	1,083,212	545,696	883,891	1,060,111	1,758,160	110,866		0		17,567,551	174,522,237
16	Subtotal	18,199,923	562,963	0	829,859	1,083,212	545,696	883,891	1,060,111	1,758,160	110,866	0	0	9,441,815	34,476,496	174,522,237
	All Other Treatment Plants															
17	Power	0													0	
18	Gas	29,991													29,991	
19	Chemicals	15,656,453													15,656,453	
20	WTP Sludge													7,150,185	7,150,185	
21	All Other Costs	19,360,128	1,015,489		1,496,924	1,998,028	984,343	1,594,388	1,330,390	3,171,420	199,983		0		31,151,093	219,017,326
22	Subtotal	35,046,572	1,015,489	0	1,496,924	1,998,028	984,343	1,594,388	1,330,390	3,171,420	199,983	0	0	7,150,185	53,987,722	219,017,326
23	Subtotal	53,246,495	1,578,452	0	2,326,783	3,081,240	1,530,039	2,478,279	2,390,501	4,929,580	310,849	0	0	16,592,000	88,464,218	393,539,563
	Treated Water Power & Pumping															
	Baxter Treatment Plant - L.S.															
24	Power	881,551													881,551	
25	Gas	0													0	
26	All Other Costs	987,510	51,797		76,354	102,291	50,209	81,326	89,257	161,766	10,201		0		1,610,711	14,694,058
27	Subtotal	1,869,061	51,797	0	76,354	102,291	50,209	81,326	89,257	161,766	10,201	0	0		2,492,262	14,694,058
	All Other Pumping															
28	Power	4,063,591													4,063,591	
29	Gas	753,501													753,501	
30	All Other Costs	5,251,813	275,471		406,070	544,005	267,022	432,509	474,910	860,310	54,249		0		8,566,359	78,182,674
31	Subtotal	10,068,905	275,471	0	406,070	544,005	267,022	432,509	474,910	860,310	54,249	0	0		13,383,451	78,182,674
	Subtotal	11,937,966	327,268	0	482,424	646,296	317,231	513,835	564,167	1,022,076	64,450	0	0	Womallo-16	15,875,713	92,876,732
32	Total Supply & Treatment	72,207,919	2,081,014	0	3,067,606	4,073,709	2,017,187	3,267,337	3,256,686	6,499,107	409,820	0	0	16,592,000	113,472,385	536,136,385

	DISTRIBUTION															
33	Filtered Water Storage	4,852,863	254,545		375,223	593,655	246,738	399,654	868,016	794,957	50,128		0		8,435,779	142,898,276
34	High Pressure Fire System	0	0		0	0	0	0	0	0	0		0		0	
	Transmission & Distribution Mains															
35	Small Mains (Less than 24")	24,356,326	1,277,553	4,522,058	1,883,232	2,979,528	1,238,370	2,005,847	4,359,881	3,989,856	251,593		0		46,864,243	717,751,428
36	Large Mains (24" & Over)	8,917,582	467,750	1,655,662	689,507	1,090,895	453,404	734,400	1,596,331	1,460,806	92,115		0		17,158,452	262,798,090
37	Subtotal	33,273,908	1,745,303	6,177,720	2,572,739	4,070,423	1,691,774	2,740,247	5,956,212	5,450,662	343,708	0	0	0	64,022,695	980,549,518
38	Fire Hydrants	312,057	16,368		24,128	38,174	15,866	25,699	55,884	51,119	3,223		0		542,518	9,200,000
39	Meters	1,447,213	75,910		111,898	178,819	73,582	119,184	280,799	237,071	14,949		0		2,539,425	46,226,870
40	Total Distribution	39,886,041	2,092,126	6,177,720	3,083,988	4,881,071	2,027,960	3,284,784	7,160,911	6,533,809	412,008	0	0	0	75,540,416	1,178,874,665
41	CUSTOMER ACCT. & COLLECTION	6,303,023	10,926,531	369,969	487,349	235,143	320,470	519,080	0	2,792,557	1,566,767		0		23,520,889	
42	WARRANTY PROGRAM	0													0	
43	ADMINISTRATIVE & GENERAL	17,434,476	914,484		1,348,033	0	886,435	1,435,802	429,633	2,855,975	6,921,138	1,768,160	0	0	33,994,136	70,728,876
44	TOTAL O & M	135,831,459	16,014,155	6,547,689	7,986,976	9,189,923	5,252,052	8,507,003	10,847,230	18,681,448	9,309,733	1,768,160	0	16,592,000	246,527,826	1,785,739,926
		135,831,459	16,014,157	3,752,993	7,986,976	9,189,923	5,252,052	8,507,003	10,847,230	18,681,448	9,309,733	1,768,160	0		246,527,828	1,785,739,926
		Agrees with Womallo-2	Agrees with footnote (a)		Agrees with Womallo-2	Agrees with Womallo-2	Agrees with Womallo-9	Agrees with Womallo-9	Agrees with Womallo-9	Agrees with Womallo-9	Agrees with Womallo-2	Agrees with Womallo-2	Agrees with Womallo-2		Agrees with Womallo-2	

(a) WRB expense 100% Customer (Line 41), 40% Public Properties to Customer (Line 41), all other prorated on basis of direct expenses excluding power & chemicals, Cust. Acc't. and Collection, and WTP Sludge (Lines 14 and 20).

	Direct Womallo-2	Fringe Benefits Womallo-2	Total	% Retail Only	Retail Only	All Other
WRB Expense	4,850,032	2,684,749	7,534,781	100%	7,534,781	0
All Other Expenses						
Public Properties	7,427,497	1,051,878	8,479,375	40%	3,391,750	5,087,625
All Other	0	0	0	0%	0	0
			16,014,157		10,926,531	5,087,626

59,501,859
68,943,297
101,490,672
229,935,828

(b) Prorated on basis of direct expense excluding power & chemicals and WTP Sludge (Lines 14 and 20).
(c) Prorated on basis of direct expense for Class 100 from Womallo-12.
(d) Customer billing expense 100% Customer (Line 41), all other prorated on basis of direct expense excluding power & chemicals, Cust. Acc't. and Collection, and WTP Sludge (Lines 14 and 20).
(e) Prorate Water Treatment Plant Sludge costs to the Baxter Plant and All Other Treatment Plants on the basis of average day production from Wpltallo-4.

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
xxxxx - NOT IN USE	P.N. 401641.0100	January 26, 2023 2:16 p.m.					Womallo-15

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
OMALLO - Allocation of O&M Expense - Table	P.N. 401641.0100	January 26, 2023 2:16 p.m.					Womallo-16

TABLE W-10

ALLOCATION OF TEST YEAR WATER OPERATION AND MAINTENANCE EXPENSE TO FUNCTIONAL COST COMPONENTS TEST YEAR 2024

Line No.	Description	(1) Test Year Operation & Maintenance Expense	(2) Base	(3) Extra Capacity: Maximum Day	(4) Extra Capacity: Maximum Hour In Excess of Maximum Day	(5) Meters	(6) Customer Costs Billing	(7) Warranty	(8) Public Fire Protection: Direct Standard Pressure	(9) Public Fire Protection: High Pressure	(10) Wholesale Direct	(11) Allocation Basis: Base	(12) Allocation Basis: Max Day	(13) Allocation Basis: Max Hour	(14) Aqua PA
		$	$	$	$	$	$	$	$	$	$				$
		Womallo-15									Womallo-15, Womallo-18				Womallo-18
	Raw Water Pumping														
1	Purchased Power	3,681,000	3,461,000	182,000							38,000	95.00%	5.00%		38,000
2	Purchased Gas	1,000	1,000	0							0	72%	28%		0
3	Other	5,451,000	3,865,000	1,503,000							83,000	72%	28%		83,000
4	Total Raw Water Pumping	9,133,000	7,327,000	1,685,000							121,000				121,000
	Purification and Treatment														
	Power and Pumping (a)														
5	Purchased Power	4,945,000	4,406,000	245,000	244,000						50,000	90.00%	5.00%	5.00%	50,000
6	Purchased Gas	754,000	358,000	104,000	284,000						8,000	48%	14%	38%	8,000
7	Other	10,177,000	4,810,000	1,403,000	3,808,000						156,000	48%	14%	38%	156,000
	Treatment														
8	Purchased Power	0	0	0	0						0	90.00%	5.00%	5.00%	0
9	Purchased Gas	45,000	32,000	13,000	0						0	72%	28%		0
10	Chemicals	23,109,000	22,873,000								236,000	100.00%			236,000
	Other														
	Other	48,719,000	34,541,000	13,432,000							746,000	72%	28%		746,000
	Water Treatment Plant Sludge	16,592,000	16,381,000								211,000	100.00%			211,000
11	Other (b)	65,311,000	50,922,000	13,432,000							957,000				957,000
12	Total Purification and Treatment	104,341,000	83,401,000	15,197,000	4,336,000						1,407,000				1,407,000
	Transmission and Distribution														
13	Mains	64,023,000	30,548,000	8,910,000	24,184,000						381,000	48%	14%	38%	381,000
14	Meters	2,539,000				2,539,000					0	100% Meters			0
15	Hydrants	543,000							543,000		0	100% Standard Pressure Fire			0
16	Filtered Water Storage	8,436,000	3,960,000	1,155,000	3,134,000						187,000	48%	14%	38%	187,000
17	High Pressure Fire System	0								0	0	100% High Pressure Fire			0
18	Total Transmission and Distribution	75,541,000	34,508,000	10,065,000	27,318,000	2,539,000			543,000	0	568,000				568,000
19	Customer Accounting and Collection	23,521,000					23,521,000				0	100% Billing			0
20	Warranty Program	0						0							
21	Subtotal	212,536,000	125,236,000	26,947,000	31,654,000	2,539,000	23,521,000	0	543,000	0	2,096,000				2,096,000
22	Administrative and General	33,994,000	16,169,000	5,493,000	6,475,000	528,000	4,893,000	0	113,000	0	323,000	Line 17 less power, chem., treatment plant sludge			323,000
23	Subtotal Water Operating Expense	246,530,000	141,405,000	32,440,000	38,129,000	3,067,000	28,414,000	0	656,000	0	2,419,000				2,419,000
24	Residual Fund Deposit	9,038,000	5,184,000	1,189,000	1,398,000	112,000	1,042,000	0	24,000	0	89,000	Line 19			89,000
25	Deposit (from) to RSF	7,316,000	4,196,000	963,000	1,132,000	91,000	843,000	0	19,000	0	72,000	Line 19			72,000
26	Total Water Operating Expense	262,884,000	150,785,000	34,592,000	40,659,000	3,270,000	30,299,000	0	699,000	0	2,580,000				2,580,000
27	Adjustment for Wholesale Contracts	0	0	0	0	0	0	0	0	0	0	Not Required for current analysis			0
	Other Operating Revenue														
28	Allocable to Wholesale	4,530,078	2,599,078	596,000	701,000	56,000	522,000	0	12,000	0	44,000	Line 19			44,000
29	Non-Allocable to Wholesale	9,023,922	5,228,922	1,199,000	1,409,000	113,000	1,050,000	0	24,000	0	0	Line 19 less wholesale			0
30	Other Operating Revenue	13,554,000	7,828,000	1,795,000	2,110,000	169,000	1,572,000	0	36,000	0	44,000				44,000
31	Interest Income	961,000	551,000	126,000	149,000	12,000	111,000	0	3,000	0	9,000	Line 19			9,000
32	Total Operating Expense Less Other Operating Revenue	248,369,000	142,406,000	32,671,000	38,400,000	3,089,000	28,616,000	0	660,000	0	2,527,000				2,527,000
			57.3%	13.2%	15.5%	1.2%	11.5%	0.0%	0.3%	0.0%	1.0%				

(a) Includes booster pumping.

(b) Includes Wastewater System cost of treating water treatment plant sludge of $16,592,000.

Line 23 Less power, chemicals, and WTP sludge	163,409,000	77,724,000	26,403,000	31,126,000	2,539,000	23,521,000	0	543,000	0	1,553,000

CHECK OF TOTAL O&M PRIOR TO CREDIT FOR OTHER REVENUE:

Subtotal Direct and Allocated Operations O&M from TYOME		101,491,000	Womallo-2
Subtotal Fringe Benefits from TYOME		59,502,000	Womallo-2
Subtotal Interdepartmental, Finance, A&HR, etc. from TYOME		68,943,000	Womallo-2
Plus Water Treatment Plant Sludge		16,592,000	Above
		246,528,000	Disagrees with line 23 (2,000)
Total Power, Gas & Chemicals	32,535,000		

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTE	Test Year	2024	Budget Yr	2023	Ver. 1a
ATACC - Allocated Treatment & Conveyance Costs	P.N. 401641.0100	January 26, 2023 2:16 p.m.					Womallo-17

	Total Test Year Water Use Mcf	Average Daily Water Use Mcf/day	Maximum Day Extra Capacity: Capacity Factor %	Maximum Day Extra Capacity: Total Capacity Mcf/day	Maximum Day Extra Capacity: Extra Capacity (a) Mcf/day	Maximum Hour Extra Capacity: Capacity Factor %	Maximum Hour Extra Capacity: Total Capacity Mcf/day	Maximum Hour Extra Capacity: Extra Capacity (b) Mcf/day				Average Day mgd	Average Day w/ losses mgd	Max Day mgd	Max Hour Mcf/day
TREATMENT PLANT:											Approach	Aqua	Aqua	Aqua	Aqua
1) Allocation of Personal Services, Materials & Supplies and Equipment (excluding Power & Chemicals)															
Retail	5,740,200	15,730		31,180	15,450		53,030	21,850	Units-2			117.66		233.23	396.66
Bucks County	0	0		0	0		0	0	Womallo-13	Wpltallo-4		0.00		0.00	0.00
Aqua PA	74,000	203		485	282		1,203	718	Retcos-6			1.51		3.63	9.00
Total	5,814,200	15,933		31,665	15,732		54,233	22,568				119.17	170.24	236.86	405.66
	1.273%	1.274%		1.532%	1.793%		2.218%	3.181%							
		0.000%		0.000%			0.000%				Bucks	0.000%	0.000%	0.00%	0.00%
2) Allocation of Power and Chemicals:											Aqua	1.268%	0.89%	1.53%	2.22%
Retail	5,740,200	15,730		31,180	15,450		53,030	21,850	Units-2						
Bucks County	0	0							Womallo-13						
Aqua PA		1.019%	See Box 2 on Retcos-6												
WATER CONVEYANCE SYSTEM:															
(Load Control)															
1) Raw Water Pumping Power (based on annual use)															
Retail	5,740,200	15,730		31,180	15,450		53,030	21,850	Units-2						
Bucks County															
Aqua PA															
2) Treated Water Pumping Power															
Retail	5,740,200	15,730		31,180	15,450		53,030	21,850	Units-2						
Bucks County															
Aqua PA															
3) All Other Expense															
Raw Water															
Retail	5,740,200	15,730		31,180	15,450		53,030	21,850	Units-2						
Bucks County															
Aqua PA															
Treated Water															
Retail	5,740,200	15,730		31,180	15,450		53,030	21,850	Units-2						
Bucks County															
Aqua PA															

AQUA PA
ALLOCATION OF TEST YEAR WATER OPERATION AND MAINTENANCE EXPENSE
TO FUNCTIONAL COST COMPONENTS
TEST YEAR 2024

Line No.	Description	(1) Test Year Operation & Maintenance Expense $	(2) Allocable	(3)	(4) Aqua PA Total $		(5) Adjustment	(6) Aqua PA Total $	(7) USE Aqua PA Total $
		Womallo-16		Womallo-17	(2) x (3)				
	Raw Water Pumping								
1	Purchased Power	3,681,000	3,681,000	1.02%	38,000			38,000	
2	Purchased Gas	1,000	1,000	1.02%	0			0	
3	Other	5,451,000	5,451,000	1.53%	83,000			83,000	
4	Total Raw Water Pumping	9,133,000	9,133,000	1.32%	121,000			121,000	
	Purification and Treatment								
	Power and Pumping (a)								
5	Purchased Power	4,945,000	4,945,000	1.02%	50,000			50,000	
6	Purchased Gas	754,000	754,000	1.02%	8,000			8,000	
7	Other	10,177,000	10,177,000	1.53%	156,000			156,000	
	Treatment								
8	Purchased Power	0	0	1.02%	0			0	
9	Purchased Gas	45,000	45,000	1.02%	0			0	
10	Chemicals	23,109,000	23,109,000	1.02%	236,000			236,000	
	Other								
	Other	48,719,000	48,719,000	1.53%	746,000			746,000	
	Water Treatment Plant Sludge	16,592,000	16,592,000	1.27%	211,000			211,000	
11	Other (b)	65,311,000	65,311,000	1.47%	957,000		0	957,000	0
12	Total Purification and Treatment	104,341,000	104,341,000	1.35%	1,407,000		0	1,407,000	0
	Transmission and Distribution								
13	Mains	64,023,000	17,159,000	2.22%	381,000			381,000	
14	Meters	2,539,000	-					0	
15	Hydrants	543,000	-					0	
16	Filtered Water Storage	8,436,000	8,436,000	2.22%	187,000			187,000	
17	High Pressure Fire System	0	-					0	
18	Total Transmission and Distribution	75,541,000	25,595,000	2.22%	568,000		0	568,000	0
19	Customer Accounting and Collection	23,521,000						0	
20	Warranty Program	0							
21	Subtotal	212,536,000	139,069,000	1.51%	2,096,000		0	2,096,000	0
22	Administrative and General	33,994,000	18,711,000	1.73%	323,000			323,000	
23	Subtotal Water Operating Expense	246,530,000	157,780,000	1.53%	2,419,000		0	2,419,000	0
24	Adjustment for Wholesale Contracts	0	0		0			0	
25	Residual Fund Deposit	9,038,000	5,784,000	1.53%	89,000			89,000	
26	Deposit (from) to RSF	7,316,000	4,682,000	1.53%	72,000			72,000	
27	Total Water Operating Expense	262,884,000	168,246,000	1.53%	2,580,000		0	2,580,000	0
	Other Operating Revenue								
	Miscellaneous	4,530,078	4,530,078	0.97%	44,000	Womallo-16		44,000	
	All Other	9,023,922	9,023,922	0.00%	0	Womallo-16		0	
28	Other Operating Revenue	13,554,000	13,554,000	0.32%	44,000		0	44,000	0
29	Non-Operating Income	961,000	961,000	0.94%	9,000	Womallo-16		9,000	
30	Total Operating Expense Less Other Operating Revenue	248,369,000	153,731,000	1.64%	2,527,000		0	2,527,000	0

WCOS23_24.XLS

RETCOS

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBU Test Year 2024	Budget Yr 2023	Ver. 1a
RetcInd - Index	P.N. 401641.0100	January 31, 2023 2:40 p.m.		Retcos-1

The "Retcos" worksheet develops unit costs of service and allocates the retail cost of service among retail customer types. It also develops wholesale cost of service water rates for Bucks County and Aqua PA.

Range	Description	Page Number	Table
RetcInd	Index	Retcos-1	
UCOS	Unit Cost of Service	Retcos-2	Schedule BV-2: Table 4-9
ACOS	Allocated Cost of Service to Customer Types	Retcos-3	Schedule BV-2: Table 4-10
ADJCOS	Adjusted Cost of Service to Customer Types	Retcos-4	Schedule BV-2: Table 4-11
BCPC	Bucks County Proposed Charges	Retcos-5	
PSWCRate	Aqua PA Proposed Rates	Retcos-6	Schedule BV-2: Table 4-8

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUT	Test Year 2024	Budget Yr 2023	Ver. 1a
UCOS - Unit Cost of Service	P.N. 401641.0100	January 26, 2023 1:01 p.m.			Retcos-2

TABLE W-14

TEST YEAR UNIT COSTS OF WATER SERVICE FOR RETAIL CUSTOMERS
TEST YEAR 2024

Reference	Line No.	Description	(1) Total Test Year Retail Costs $	(2) Base	(3) Extra Capacity: Maximum Day	(4) Extra Capacity: Max Hour In Excess of Max Day	(5) Customer Costs: Meters	(6) Customer Costs: Billing	(7) Warranty Program	(8) Direct Public Fire Protection
		Total Retail Customer Units of Service								
Units-2	1	Number		5,740,200	15,450	21,850	699,398	7,212,589	515,815	
	2	Units		Mcf	Mcf/day	Mcf/day	Equiv. Meters	Equiv. Bills	Eq. Services	Total
4										
		Operating Expense								
Womallo-16	3	Total Expense - $	245,842,000	142,406,000	32,671,000	38,400,000	3,089,000	28,616,000	0	660,000
Line 4 / Line 1	4	Unit Expense - $/Unit		24.8085	2,114.6278	1,757.4371	4.4167	3.9675	0.0000	
		Depreciation Expense								
Wpltallo-5	5	Total Expense - $	41,252,000	20,657,000	6,722,000	10,338,000	3,294,000			241,000
Line 5 / Line 1	6	Unit Expense - $/Unit		3.5987	435.0809	473.1350	4.7098			
		Plant Investment								
Wpltallo-2	7	Total Investment - $	1,773,468,000	934,860,000	303,091,000	477,810,000	48,129,000			9,578,000
Line 6 / Line 1	8	Unit Investment - $/Unit		162.8619	19,617.5405	21,867.7346	68.8149			
		Unit Return on Investment								
Line 10 x Line 1	9	Total Return - $	60,362,000	31,819,000	10,316,000	16,263,000	1,638,000			326,000
Line 8 x 3.4036%	10	Inside City - $/Unit (a)		5.5432	667.7026	744.2902	2.3422			
		Total Unit Costs of Service								
Lines 4 + 6 + 10	11	Inside City - $/Unit		33.9504	3,217.4113	2,974.8623	11.4687	3.9675	0.0000	
		Total Unit Costs of Service								
		Inside City - $/Unit/Bill		33.9504	3,217.4113	2,974.8623	0.9557	3.9675	0.0000	
	12	Total Retail Cost of Service	347,456,000	194,882,000	49,709,000	65,001,000	8,021,000	28,616,000	0	1,227,000

(a) Retail rate of return = Box 1 3.4036%

Mcf - thousand cubic feet

BOX 1 - INSIDE CITY RATE OF RETURN		$	
Total Test Year Capital Costs		103,687,333	
Less Total Test Year Depr. Expense	40.2%	41,655,000	Wpltallo-5
Less Wholesale Return	1.2%	1,252,000	Retcos-4
Less Wholesale Management Fee Revenue	0.4%	418,000	LagRate-9
Inside City Return	58.2%	60,362,333	
Investment Allocated to Retail Customers		1,773,468,000	Wpltallo-2
INSIDE CITY RATE OF RETURN: ($60,362,333 / $1,773,468,000) =		3.4036%	

CALCULATION OF UNIT COSTS FOR FIRE PROTECTION:

		Total Private Fire Customer Units of Service							
Units-2	13	Number	0	310	490	9,641	864,791		
	14	Units	Mcf	Mcf/day	Mcf/day	Eq. Meters	Eq. Bills		
Line 11	15	$/Unit	33.9504	3217.4113	2974.8623	11.4687	3.9675		
Line 12 x Line 14	16	Total Expense	0	997,398	1,457,683	110,570	3,431,058	5,996,708	
Retcos-4	17	Multiplied by Adjustment Factor						1.35%	
	18	Total Cost	0	1,010,869	1,477,371	112,063	3,477,401	6,077,704	2,600,303
		Total Cost per equiv 6" meter		104.85	153.24	11.62	4.02	630.4018	269.71
		Total Cost per equiv 6" meter per bill		8.74	12.77	0.97	28.15	52.53	22.48

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUT	Test Year 2024	Budget Yr 2023	Ver. 1a
ACOS - Allocated Cost of Service to Customer Types	P.N. 401641.0100	January 26, 2023 1:01 p.m.			Retcos-3

Select Public Fire Recovery Basis: 0 | 0

TABLE W-15

ALLOCATED COST OF SERVICE TO RETAIL CUSTOMER TYPES
TEST YEAR 2024

Reference	Line No.	Description	(1) Total Allocated Cost of Service $	(2) Base $	(3) Extra Capacity Max Day $	(4) Extra Capacity Max Hour In Excess of Max Day $	(5) Meters $	(6) Customer Costs Billing $	(7) Customer Costs Warranty Program $	(8) Direct Public Fire Protection $	Reallocate Public Fire Protection on Base $	Reallocate Public Fire Protection on Meters $	Total Allocated Cost of Service $
Retcos-2	1	Total Retail Unit Costs of Service		33.9504	3,217.4113	2,974.8623	11.4687	3.9675	0.0000		0.0000	0.0000	
		Residential											
Units-2	2	Units of Service		3,084,500	8,450	13,520	488,873	5,378,984	446,841		3,084,500	488,873	
Line 1 x Line 2	3	Allocated Cost of Service - S	199,076,000	104,721,000	27,187,000	40,220,000	5,607,000	21,341,000	0		0	0	199,076,000
		CHECK	199,076,000	104,720,009									
		Senior Citizens											
Units-2	4	Units of Service		120,300	330	530	21,191	254,101	21,175		120,300	21,191	
Line 1 x Line 4	5	Allocated Cost of Service - S	7,974,000	4,084,000	1,062,000	1,577,000	243,000	1,008,000	0		0	0	7,974,000
		Commercial											
Units-2	6	Units of Service		1,607,100	3,520	3,740	142,094	585,801	39,349		1,607,100	142,094	
Line 1 x Line 6	7	Allocated Cost of Service - S	80,967,000	54,562,000	11,325,000	11,126,000	1,630,000	2,324,000	0		0	0	80,967,000
		Industrial											
Units-2	8	Units of Service		61,100	100	70	6,025	18,280	1,109		61,100	6,025	
Line 1 x Line 8	9	Allocated Cost of Service - S	2,746,000	2,074,000	322,000	208,000	69,000	73,000	0		0	0	2,746,000
		Public Utilities											
Units-2	10	Units of Service		10,600	20	10	1,788	4,396	221		10,600	1,788	
Line 1 x Line 10	11	Allocated Cost of Service - S	492,000	360,000	64,000	30,000	21,000	17,000	0		0	0	492,000
		Housing Authority											
Units-2	12	Units of Service		152,900	380	510	9,146	70,191	5,607		152,900	9,146	
Line 1 x Line 15	13	Allocated Cost of Service - S	8,314,000	5,191,000	1,223,000	1,517,000	105,000	278,000	0		0	0	8,314,000
		Charities & Schools											
		Charities & Schools											
Units-2	14	Units of Service		125,500	270	310	12,854	33,474	1,468		125,500	12,854	
Line 1 x Line 16	15	Allocated Cost of Service -	6,332,000	4,261,000	869,000	922,000	147,000	133,000	0		0	0	6,332,000
		Hospital/University											
Units-2	16	Units of Service		53,000	120	80	1,308	2,442	36		53,000	1,308	
Line 1 x Line 18	17	Allocated Cost of Service -	2,448,000	1,799,000	386,000	238,000	15,000	10,000	0		0	0	2,448,000
		Hand Billed											
	18	Units of Service		525,100	1,150	1,300	6,468	9	0		525,100	6,468	
	19	Allocated Cost of Service -	25,468,000	17,827,000	3,700,000	3,867,000	74,000	0	0		0	0	25,468,000
		xxxxxxxxxx											
Units-2	20	Units of Service		0	0	0	0	0	0		0	0	
Line 1 x Line 20	21	Allocated Cost of Service - S	0	0	0	0	0	0	0		0	0	0
		Scheduled (Flat Rate)											
Units-2	22	Units of Service		100	0	0	10	120	10		100	10	
Line 1 x Line 22	23	Allocated Cost of Service - S	3,000	3,000	0	0	0	0	0		0	0	3,000
		xxxxxxxxxx											
Units-2	18	Units of Service		0	0	0	0	0	0		0	0	
Line 1 x Line 24	19	Allocated Cost of Service - S	0	0	0	0	0	0	0		0	0	0

		Public Fire Protection											
		Standard Pressure											
Units-2	20	Units of Service		0	800	1,290	0	0	0				
Line 1 x Line 26	21	Allocated Cost of Service -	7,639,000	0	2,574,000	3,838,000	0	0	0	1,227,000	0	0	7,639,000
		High Pressure											
	22	Units of Service											
Line 1 x Line 28	23	Allocated Cost of Service -	0	0	0	0	0	0	0	0	0	0	0
		Private Fire Protection											
Units-2	24	Units of Service		0	310	490	9,641	864,791	0		0	9,641	
Line 1 x Line 30	25	Allocated Cost of Service - S	5,997,000	0	997,000	1,458,000	111,000	3,431,000	0		0	0	5,997,000
	26	Total Retail Cost of Service -	347,456,000	194,882,000	49,709,000	65,001,000	8,022,000	28,615,000	0	1,227,000	0	0	347,456,000
			Agrees with Retcos-2										
		CHECK	347,456,000	347,456,000		0							

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUT	Test Year 2024	Budget Yr 2023	Ver. 1a
ADJCOS - Adjusted Cost of Service to Customer Types	P.N. 401641.0100	January 26, 2023 1:01 p.m.			Retcos-4

Housing Authority discount: 0.05
Senior Citizens, "6 cent" charities, "N" charities discount: 0.25

TABLE W-16

WATER: TEST YEAR ADJUSTED COST OF SERVICE
TEST YEAR 2024

Line No.	Customer Type	(1) Allocated Cost of Service $ Retcos-3	(2) Reallocation of HP Fire System $	(3) Discount $ ((1)+(2)) x 25.00%	(4) Cost of Service w Discount $ (1) - (2)	(5) Recovery of Discount $	(6) Adjusted Cost of Service $ (2)+(3)+(4)	(7) Percent Change % [(5)-(1)]/(1)	Recovery of Discount: Residential $	Non-Res $	All $	Total $	Adjusted Cost of Service $	Percent Change %
1	Residential	199,076,000	0		199,076,000	2,672,000	201,748,000	1.34%			1,399,363	1,399,363	200,475,363	0.70%
2	Senior Citizens	7,974,000	0	1,994,000	5,980,000	80,000	6,060,000	-24.00%			42,035	42,035	6,022,035	-24.48%
3	Commercial	80,967,000	0		80,967,000	1,088,000	82,055,000	1.34%		1,289,761	569,141	1,858,901	82,825,901	2.30%
4	Industrial	2,746,000	0		2,746,000	37,000	2,783,000	1.35%		43,742	19,302	63,045	2,809,045	2.30%
5	Public Utilities	492,000			492,000	7,000	499,000	1.42%		7,837	3,458	11,296	503,296	2.30%
6	Housing Authority	8,314,000	0	416,000	7,898,000	106,000	8,004,000	-3.73%		125,811	55,517	181,328	8,079,328	-2.82%
	Charities and Schools													
7	Charities & Schools	6,332,000	0	1,583,000	4,749,000	64,000	4,813,000	-23.99%		75,649	33,382	109,031	4,858,031	-23.28%
8	Hospital/University	2,448,000	0	612,000	1,836,000	25,000	1,861,000	-23.98%		29,246	12,906	42,152	1,878,152	-23.28%
9	Subtotal Charities and Schools	8,780,000	0	2,195,000	6,585,000	89,000	6,674,000	-23.99%	0	104,895	46,288	151,183	6,736,183	-23.28%
10	Hand Billed	25,468,000			25,468,000	342,000	25,810,000	1.34%		405,691	179,022	584,714	26,052,714	2.30%
11	xxxxxxxxxx	0			0	0	0	0.00%		0	0	0	0	0.00%
12	Scheduled (Flat Rate)	3,000			3,000	0	3,000	0.00%		48	21	69	3,069	2.30%
13	xxxxxxxxxx	0	0		0	0	0	0.00%		0	0	0	0	0.00%
	Fire Protection													
14	Private	5,997,000			5,997,000	81,000	6,078,000	1.35%		95,529	42,155	137,684	6,134,684	2.30%
	Public													
15	Standard Pressure	7,639,000			7,639,000	103,000	7,742,000	1.35%		121,685	53,697	175,382	7,814,382	2.30%
16	High Pressure	0	0		0	0	0	0.00%		0	0	0	0	0.00%
17	Subtotal Public Fire Protection	7,639,000	0	0	7,639,000	103,000	7,742,000	1.35%	0	121,685	53,697	175,382	7,814,382	2.30%
18	Subtotal Retail Service	347,456,000	0	4,605,000	342,851,000	4,605,000	347,456,000	0.00%	0	2,195,000	2,410,000	4,605,000	347,456,000	0.00%
19	Wholesale (a)	4,600,000			4,600,000		4,600,000	0.00%						
20	Total System	352,056,000	0	4,605,000	347,451,000	4,605,000	352,056,000	0.00%	0	2,195,000	2,410,000	4,605,000	347,456,000	

Cost of Service Check 352,054,959
Difference (1,041) Agrees with total system above

(a) Includes Management Fee revenue.

A lag factor is applied to all wholesale customer rates equal to 1.0000
Months in effective test year: 1.00 Months to collect COS: 1.00

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUT	Test Year 2024	Budget Yr 2023	Ver. 1a
PSWCRate - Aqua PA Proposed Rates	P.N. 401641.0100	January 26, 2023 1:01 p.m.			Retcos-6

Aqua PA Rate

Raw Water Pumping Purchased Power	38,000	
Purification & Treatment Power & Pump Purchased Power	50,000	
Treatment Purchased Power	0	
Treatment Purchased Gas	0	
Chemicals	236,000	
Total Variable O&M	324,000	
Volume - mgd	1.5	
Volume (1,000 gal)	551,672	
Commodity Charge	0.587	
Total O&M	2,527,000	
Variable O&M	(324,000)	
Fixed O&M	2,203,000	
Capital		
Depr	403,000	
Return	1,252,000	
Demand - mgd	3.63	
Total Fixed - $/yr	3,858,000	
Total Fixed - $/mo	321,500	
Adjustment for Contract	0	Not Required for Current Analysis

Aqua PA Use and Demand Assumptions
(Reference: Based on JRM Calcs Dated 12/1/00 and Aqua PA Contract)
Contract Capacities

	FY 2024	FY 2025	FY 2026	FY 2027
	1	2	3	4
Average Day - mgd	6.50	6.50	6.50	6.50
Max Day - mgd	9.50	9.50	9.50	9.50
Max Hour - mgd	11.25	11.25	11.25	11.25

Aqua PA Use and Demand Assumptions
Projected Demand (Current Use)

	FY 2024	FY 2025	FY 2026	FY 2027
	1	2	3	4
Average Day - mgd	1.51	1.51	1.51	1.51
Max Day - mgd	3.63	3.63	3.63	3.63
Max Hour - mgd	9.00	9.00	9.00	9.00

BOX 2 - MODIFICATION OF AQUA PA RATE FOR WATER LOSS
Per JRM Letter of 11/01/2002, the methodology for calculating the commodity charge is modified to acknowledge that the amount of system water loss attributable to Aqua PA should be limited. Per the 11/01/2002 letter, Aqua PA's allowance for water loss is limited to 20%.
Commodity rate calculation is then:

Total projected cost of Power, Gas & Chemicals	32,535,000	
Total Metered Water Usage	119.19	mgd
Water Loss allowance	20%	
Commodity Charge =	0.598	

WCOS23_24.XLS

RATES

The "Rates" worksheet develops retail cost of service rates before recognizing billing lag and rate implementation refinements.

Range	Description	Page Number	Table
RatesInd	Index	Rates-1	
ADJC	Adjusted COS by Class	Rates-2	
COSR	COS Rates	Rates-3	
BILLCOS	Billings Under COS Rates	Rates-4	

TEST YEAR ADJUSTED COS BY CLASS

	TY Adjusted COS $ Retcos-4	TY Usage Mcf Units-2
Residential	201,748,000	3,084,500
Senior Citizens	6,060,000	120,300
Commercial	82,055,000	1,607,100
Industrial	2,783,000	61,100
Public Utilities	499,000	10,600
Housing Authority	8,004,000	152,900
Charities and Schools	4,813,000	125,500
Hospital/University	1,861,000	53,000
Hand Billed	25,810,000	525,100
xxxxxxxxxx	0	0
Scheduled (Flat Rate)	3,000	100
xxxxxxxxxx	0	0
Private Fire Protection	6,078,000	0
Public Fire Protection	7,742,000	0
Total	347,456,000	5,740,200

CHOOSE OPTION 1

TEST YEAR UNIT CUSTOMER COSTS-USED

	COS Unit Cost $ Retcos-2	Adjust. Factor (a) % Retcos-4	Adjusted Unit Cost $
Non-Subsidized Residential Customers			
Cost per Equiv Meter per Bill	0.9557	1.3422	0.9685
Cost per Equiv Bill	3.9675	1.3422	4.0208
Cost per Equiv Service	0.0000	1.3422	0.0000
Non-Subsidized Non-Residential Customers			
Cost per Equiv Meter per Bill	0.9557	1.3438	0.9685
Cost per Equiv Bill	3.9675	1.3438	4.0208
Cost per Equiv Service	0.0000	1.3438	0.0000
Subsidized Residential Customers - Senior Citizens			
Cost per Equiv Meter per Bill	0.9557	(24.0030)	0.7263
Cost per Equiv Bill	3.9675	(24.0030)	3.0152
Cost per Equiv Service	0.0000	(24.0030)	0.0000
Subsidized Non-Res Customers - Hospitals & Charities			
Cost per Equiv Meter per Bill	0.9557	(23.9863)	0.7265
Cost per Equiv Bill	3.9675	(23.9863)	3.0158
Cost per Equiv Service	0.0000	(23.9863)	0.0000
Subsidized Customers - PHA			
Cost per Equiv Meter per Bill	0.9557	(3.7287)	0.9201
Cost per Equiv Bill	3.9675	(3.7287)	3.8196
Cost per Equiv Service	0.0000	(3.7287)	0.0000
Fire Meters (Private)			
$/Equiv 6" Meter/Bill	52.5300	<-- Includes Adj. Factor	
Cost per Equiv Bill	16.0832	<-- Includes Adj. Factor	
All Other Costs/Equiv Meter/Bill	0.0000	<-- Includes Adj. Factor	

(a) To account for Senior Citizens and Charities and Schools paying 75 % of COS rates.

EXISTING DISCOUNT RECOVERY -SPREAD ACROSS ALL CLASSES

	Adjust. Factor (1) % Retcos-4
Non-Subsidized Residential Customers	
Cost per Equiv Meter per Bill	1.3422
Cost per Equiv Bill	1.3422
Cost per Equiv Service	1.3422
Non-Subsidized Non-Residential Customers	
Cost per Equiv Meter per Bill	1.3438
Cost per Equiv Bill	1.3438
Cost per Equiv Service	1.3438
Subsidized Residential Customers - Senior Citizens	
Cost per Equiv Meter per Bill	(24.0030)
Cost per Equiv Bill	(24.0030)
Cost per Equiv Service	(24.0030)
Subsidized Non-Res Customers - Hospitals & Charities	
Cost per Equiv Meter per Bill	(23.9863)
Cost per Equiv Bill	(23.9863)
Cost per Equiv Service	(23.9863)
Subsidized Customers - PHA	
Cost per Equiv Meter per Bill	(3.7287)
Cost per Equiv Bill	(3.7287)
Cost per Equiv Service	(3.7287)

ALTERNATIVE DISCOUNT RECOVERY-CLASS SPECIFIC

	Adjust. Factor (2) % Retcos-4
Non-Subsidized Residential Customers	
Cost per Equiv Meter per Bill	0.7029
Cost per Equiv Bill	0.7029
Cost per Equiv Service	0.7029
Non-Subsidized Non-Residential Customers	
Cost per Equiv Meter per Bill	2.2959
Cost per Equiv Bill	2.2959
Cost per Equiv Service	2.2959
Subsidized Residential Customers - Senior Citizens	
Cost per Equiv Meter per Bill	(24.4791)
Cost per Equiv Bill	(24.4791)
Cost per Equiv Service	(24.4791)
Subsidized Non-Res Customers - Hospitals & Charities	
Cost per Equiv Meter per Bill	(23.2781)
Cost per Equiv Bill	(23.2781)
Cost per Equiv Service	(23.2781)
Subsidized Customers - PHA	
Cost per Equiv Meter per Bill	(2.8226)
Cost per Equiv Bill	(2.8226)
Cost per Equiv Service	(2.8226)

EQUIV. PRIVATE FIRE METER AND BILL FACTORS (6" BASE):

		5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"	6"	8"	10"	12"	14"
Equiv. Meters (Capacity)	Units-4		0.03	0.05	0.08	0.10	0.16	0.30	0.50	1.00	1.60	2.30	4.30	4.50
Equiv. Bills	Units-3	0.14	0.14	0.16	0.17	0.17	0.21	0.29	0.57	1.00	1.43	2.14	2.86	3.29

File: WCOS23_24_ver1.xls COSR - COS Rates	Philadelphia Water Department (PWD) P.N. 401641.0100	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBU January 26, 2023 9:33 a.m.	Test Year 2024	Budget Yr 2023	Ver. 1a Rates-3

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
					Service Charge				Volume Charge							
										Usage						
Line No.	Customer Type	Meter Size	TY COS $ Rates-2	TY Bills Units-3	COS Monthly Service Charge $ Rates-2 Units-3 Units-4	USE $	Service Charge Revenue $ (3) x (5)	Balance of COS to be Recovered through Volume Charge $ (2) - (6)		Rate Block 0 - 2	Rate Block 3 - 100	Rate Block 101 - 2,000	Rate Block >2,000	Total Rates-2	Total Billings $ (6) + (13)	Percent Billings of COS $ (14) / (2)
										48.96	44.99	34.85	33.91			
	GENERAL SERVICE RATES								Rate Block Volume Charge $/Mcf	57.52	51.67	40.03	38.95			
1	Residential	R = 5/8		5,181,704	4.99	4.99	25,856,703		Percent of Total Usage in Each Block							
2		Z = 3/4		821	5.47	5.47	4,491		%	83.04%	15.99%	0.97%	0.00%			
3		Q = 1		117,248	6.84	6.84	801,976									
4		Y = 1-1/4		0	8.51	8.51	0		Total Usage in Each Block							
5		P = 1-1/2		13,842	9.67	9.67	133,852		Mcf	2,561,309	493,252	29,939	0	3,084,500		
6		X = 2		16,172	13.78	13.78	222,850									
7		O = 3		2,084	22.57	22.57	47,036		Total Usage Charge Billings in Each Block							
8		W = 4		1,582	40.30	40.30	63,755		$	147,326,494	25,486,331	1,198,458	0	174,011,283		
9		N = 6		1,471	76.57	76.57	112,634									
10		V = 8		503	117.69	117.69	59,198									
11		E = 10		37	171.69	171.69	6,353									
12		T = 12		12	288.64	288.64	3,464									
13		H = 14			310.39	310.39	0									
14	Total		201,748,000	5,335,476			27,312,312	174,435,688							201,323,595	99.79%
											Bill tab adjustment			100.00%	201,323,595	99.79%
											Adjusted to = COS projection			100.000	201,323,595	99.79%
15	Senior Citizens	R = 5/8		253,961	3.74	3.74	949,814		Percent of Total Usage in Each Block							
16		Z = 3/4		0	4.10	4.10	0		%	86.21%	13.43%	0.36%	0.00%			
17		Q = 1		127	5.13	5.13	652									
18		Y = 1-1/4		0	6.38	6.38	0		Total Usage in Each Block							
19		P = 1-1/2		0	7.25	7.25	0		Mcf	103,707	16,157	436	0	120,300		
20		X = 2		0	10.34	10.34	0									
21		O = 3		0	16.93	16.93	0		Total Usage Charge Billings in Each Block							
22		W = 4		0	30.23	30.23	0		$	4,473,920	626,124	13,090	0	5,113,134		
23		N = 6		0	57.43	57.43	0									
24		V = 8		0	88.27	88.27	0									
25		E = 10		0	128.77	128.77	0									
26		T = 12		0	216.48	216.48	0									
27		H = 14			232.79	232.79	0									
28	Total		6,060,000	254,088			950,466	5,109,534							6,063,600	100.06%
											Bill tab adjustment			100.00%	6,063,600	100.06%
											Adjusted to = COS projection			100.000	6,063,600	100.06%

29	Commercial	R = 5/8		343,043	4.99	4.99	1,711,785		Percent of Total Usage in Each Block							
30		Z = 3/4		110	5.47	5.47	602		%	19.55%	57.68%	21.91%	0.85%			
31		Q = 1		41,858	6.84	6.84	286,309									
32		Y = 1-1/4		0	8.51	8.51	0		Total Usage in Each Block							
33		P = 1-1/2		19,057	9.67	9.67	184,281		Mcf	314,198	926,996	352,171	13,735	1,607,100		
34		X = 2		28,628	13.78	13.78	394,494									
35		O = 3		11,407	22.57	22.57	257,456		Total Usage Charge Billings in Each Block							
36		W = 4		9,400	40.30	40.30	378,820		$	18,072,669	47,897,883	14,097,405	534,978	80,602,935		
37		N = 6		6,120	76.57	76.57	468,608									
38		V = 8		2,032	117.69	117.69	239,146									
39		E = 10		416	171.69	171.69	71,423									
40		T = 12		49	288.64	288.64	14,143		Non-Residential Rate Block Volume Charge							
41		H = 14			310.39	310.39	0		$/Mcf	57.52	51.67	40.03	38.95			
42	Total		82,055,000	462,120			4,007,067	78,047,933							84,610,002	103.11%
											Bill tab adjustment			100.00%	84,610,002	103.11%
											Adjusted to = COS projection			100.000	84,610,002	103.11%
43	Industrial	R = 5/8		5,990	4.99	4.99	29,890		Percent of Total Usage in Each Block							
44		Z = 3/4		0	5.47	5.47	0		%	12.79%	56.44%	30.77%	0.00%			
45		Q = 1		2,785	6.84	6.84	19,049									
46		Y = 1-1/4		0	8.51	8.51	0		Total Usage in Each Block							
47		P = 1-1/2		980	9.67	9.67	9,477		Mcf	7,815	34,486	18,799	0	61,100		
48		X = 2		1,458	13.78	13.78	20,091									
49		O = 3		765	22.57	22.57	17,266		Total Usage Charge Billings in Each Block							
50		W = 4		263	40.30	40.30	10,599		$	449,519	1,781,892	752,524	0	2,983,935		
51		N = 6		263	76.57	76.57	20,138									
52		V = 8		108	117.69	117.69	12,711									
53		E = 10		24	171.69	171.69	4,121									
54		T = 12		0	288.64	288.64	0									
55		H = 14			310.39	310.39	0									
56	Total		2,783,000	12,636			143,342	2,639,658							3,127,277	112.37%
											Bill tab adjustment			100.00%	3,127,277	112.37%
														100.000	3,127,277	112.37%
57	Public Utilities	R = 5/8		1,045	4.99	4.99	5,215		Percent of Total Usage in Each Block							
58		Z = 3/4		0	5.47	5.47	0		%	15.46%	74.18%	10.36%	0.00%			
59		Q = 1		502	6.84	6.84	3,434									
60		Y = 1-1/4		0	8.51	8.51	0		Total Usage in Each Block							
61		P = 1-1/2		198	9.67	9.67	1,915		Mcf	1,638	7,863	1,099	0	10,600		
62		X = 2		383	13.78	13.78	5,278									
63		O = 3		264	22.57	22.57	5,958		Total Usage Charge Billings in Each Block							
64		W = 4		119	40.30	40.30	4,796		$	94,218	406,281	43,993	0	544,492		
65		N = 6		66	76.57	76.57	5,054									
66		V = 8		26	117.69	117.69	3,060									
67		E = 10		0	171.69	171.69	0									
68		T = 12		13	288.64	288.64	3,752									
69		H = 14			310.39	310.39	0									
70	Total		499,000	2,616			38,462	460,538							582,954	116.82%
											Bill tab adjustment			100.00%	582,954	116.82%
											Adjusted to = COS projection			100.0000	582,954	116.82%
71	TOTAL GENERAL SERVICE		293,145,000	6,066,936			32,451,649	260,693,351							295,707,428	100.87%
											Adjusted				295,707,428	100.87%
											Adjusted to = COS projection				295,707,428	100.87%

ALL OTHER CLASSES

					5% discount											
72	Housing Authority	R = 5/8		61,535	4.74	4.74	291,676		Percent of Total Usage in Each Block							
73		Z = 3/4		0	5.20	5.20	0		%	33.93%	44.19%	21.89%	0.00%			
74		Q = 1		363	6.50	6.50	2,360									
75		Y = 1-1/4		0	8.08	8.08	0		Total Usage in Each Block							
76		P = 1-1/2		2,237	9.19	9.19	20,558		Mcf	51,872	67,565	33,463	0	152,900		
77		X = 2		1,276	13.09	13.09	16,703									
78		O = 3		433	21.44	21.44	9,284		Total Usage Charge Billings in Each Block							
79		W = 4		304	38.29	38.29	11,640		$	2,834,494	3,316,529	1,272,548	0	7,423,571		
80		N = 6		141	72.74	72.74	10,256									
81		V = 8		59	111.81	111.81	6,597									
82		E = 10		0	163.11	163.11	0									
83		T = 12		0	274.21	274.21	0									
84		H = 14			294.87	294.87	0									
85	Total		8,004,000	66,348			369,074	7,634,926							7,792,645	97.36%
												Bill tab adjustment		100.00%	7,792,645	97.36%
												Adjusted to = COS projection		100.000	7,792,645	97.36%
86	Charities & Schools	R = 5/8		8,567	3.74	3.74	32,041		Percent of Total Usage in Each Block							
87		Z = 3/4		0	4.10	4.10	0		%	16.38%	75.18%	8.33%	0.11%			
88		Q = 1		2,645	5.13	5.13	13,569									
89		Y = 1-1/4		0	6.38	6.38	0		Total Usage in Each Block							
90		P = 1-1/2		1,236	7.25	7.25	8,961		Mcf	20,560	94,353	10,453	134	125,500		
91		X = 2		2,215	10.34	10.34	22,903									
92		O = 3		2,043	16.93	16.93	34,588		Total Usage Charge Billings in Each Block							
93		W = 4		2,698	30.23	30.23	81,561		$	886,958	3,656,415	313,825	3,914	4,861,112		
94		N = 6		269	57.43	57.43	15,449									
95		V = 8		43	88.27	88.27	3,796									
96		E = 10		0	128.77	128.77	0									
97		T = 12		0	216.48	216.48	0									
98		H = 14			232.79	232.79	0									
99	Total		4,813,000	19,716			212,868	4,600,132							5,073,980	105.42%
												Bill tab adjustment		100.00%	5,073,980	105.42%
												Adjusted to = COS projection		100.000	5,073,980	105.42%
100	Hospital/University	R = 5/8		53	3.74	3.74	198		Percent of Total Usage in Each Block							
101		Z = 3/4		0	4.10	4.10	0		%	2.06%	43.10%	52.85%	1.99%			
102		Q = 1		128	5.13	5.13	657									
103		Y = 1-1/4		0	6.38	6.38	0		Total Usage in Each Block							
104		P = 1-1/2		47	7.25	7.25	341		Mcf	1,094	22,842	28,008	1,056	53,000		
105		X = 2		87	10.34	10.34	900									
106		O = 3		204	16.93	16.93	3,454		Total Usage Charge Billings in Each Block							
107		W = 4		163	30.23	30.23	4,927		$	47,195	885,185	840,870	30,848	1,804,098		
108		N = 6		93	57.43	57.43	5,341									
109		V = 8		17	88.27	88.27	1,501									
110		E = 10		12	128.77	128.77	1,545									
111		T = 12		0	216.48	216.48	0									
112		H = 14			232.79	232.79	0									
113	Total		1,861,000	804			18,864	1,842,136							1,822,962	97.96%
												Bill tab adjustment		100.00%	1,822,962	97.96%
												Adjusted to = COS projection		100.000	1,822,962	97.96%

114	Hand Billed	R = 5/8		106	4.99	4.99	529		Percent of Total Usage in Each Block							
115		Z = 3/4		0	5.47	5.47	0		%	0.86%	24.09%	53.62%	21.43%			
116		Q = 1		94	6.84	6.84	643									
117		Y = 1-1/4		0	8.51	8.51	0		Total Usage in Each Block							
118		P = 1-1/2		105	9.67	9.67	1,015		Mcf	4,530	126,482	281,542	112,546	525,100		
119		X = 2		339	13.78	13.78	4,671									
120		O = 3		701	22.57	22.57	15,822		Total Usage Charge Billings in Each Block							
121		W = 4		713	40.30	40.30	28,734		$	260,566	6,535,325	11,270,126	4,383,667	22,449,684		
122		N = 6		409	76.57	76.57	31,317									
123		V = 8		164	117.69	117.69	19,301									
124		E = 10		58	171.69	171.69	9,958									
125		T = 12		23	288.64	288.64	6,639									
126		H = 14			310.39	310.39	0									
127	Total		25,810,000	2,712			118,629	25,691,371							22,568,313	87.44%
											Bill tab adjustment			100.00%	22,568,313	87.44%
											Adjusted to = COS projection			100.000	22,568,313	87.44%
128	xxxxxxxxxx	R = 5/8		0	4.99	4.99	0		Percent of Total Usage in Each Block							
129		Z = 3/4		0	5.47	5.47	0		%	100.00%	0.00%	0.00%	0.00%			
130		Q = 1		0	6.84	6.84	0									
131		Y = 1-1/4		0	8.51	8.51	0		Total Usage in Each Block							
132		P = 1-1/2		0	9.67	9.67	0		Mcf	0	0	0	0	0		
133		X = 2		0	13.78	13.78	0									
134		O = 3		0	22.57	22.57	0		Total Usage Charge Billings in Each Block							
135		W = 4		0	40.30	40.30	0		$	0	0	0	0	0		
136		N = 6		0	76.57	76.57	0									
137		V = 8		0	117.69	117.69	0									
138		E = 10		0	171.69	171.69	0									
139		T = 12		0	288.64	288.64	0									
140		H = 14			310.39	310.39	0									
141	Total		0	0			0	0							0	0.00%
											Bill tab adjustment			100.00%	0	0.00%
											Adjusted to = COS projection			100.000	0	0.00%
142	Scheduled (Flat Rate)	R = 5/8		120	4.99	4.99	599		Percent of Total Usage in Each Block							
143		Z = 3/4		0	5.47	5.47	0		%	95.60%	4.40%	0.00%	0.00%			
144		Q = 1		0	6.84	6.84	0									
145		Y = 1-1/4		0	8.51	8.51	0		Total Usage in Each Block							
146		P = 1-1/2		0	9.67	9.67	0		Mcf	96	4	0	0	100		
147		X = 2		0	13.78	13.78	0									
148		O = 3		0	22.57	22.57	0		Total Usage Charge Billings in Each Block							
149		W = 4		0	40.30	40.30	0		$	5,522	207	0	0	5,729		
150		N = 6		0	76.57	76.57	0									
151		V = 8		0	117.69	117.69	0									
152		E = 10		0	171.69	171.69	0									
153		T = 12		0	288.64	288.64	0									
154		H = 14			310.39	310.39	0									
155	Total		3,000	120			599	2,401							6,328	210.93%
											Bill tab adjustment			100.00%	6,328	210.93%
											Adjusted to = COS projection			100.000	6,328	210.93%

156	xxxxxxxxxx	R = 5/8		0	4.99	4.99	0		Percent of Total Usage in Each Block							
157		Z = 3/4		0	5.47	5.47	0		%	100.00%	0.00%	0.00%	0.00%			
158		Q = 1		0	6.84	6.84	0									
159		Y = 1-1/4		0	8.51	8.51	0		Total Usage in Each Block							
160		P = 1-1/2		0	9.67	9.67	0		Mcf	0	0	0	0	0		
161		X = 2		0	13.78	13.78	0									
162		O = 3		0	22.57	22.57	0		Total Usage Charge Billings in Each Block							
163		W = 4		0	40.30	40.30	0		$	0	0	0	0	0		
164		N = 6		0	76.57	76.57	0									
165		V = 8		0	117.69	117.69	0									
166		E = 10		0	171.69	171.69	0									
167		T = 12		0	288.64	288.64	0									
168		H = 14			310.39	310.39	0									
169	Total		0	0			0	0		7					0	0.00%
											Bill tab adjustment			100.00%	0	0.00%
											Adjusted to = COS projection			100.0000	0	0.00%
170	Fire Protect. (Private)	R = 5/8		1,641	4.02	8.91	14,627		Percent of Total Usage in Each Block							
171		Z = 3/4		439	4.70	8.91	3,913		%	64.95%	35.05%	0.00%	0.00%			
172		Q = 1		54,695	5.55	10.28	562,433									
173		Y = 1-1/4		0	6.53	11.95	0		Total Usage in Each Block							
174		P = 1-1/2		8,462	7.07	13.11	110,963		Mcf	0	0	0	0	0		
175		X = 2		90,276	9.63	17.22	1,554,831									
176		O = 3		4,388	14.79	27.32	119,880		Total Usage Charge Billings in Each Block							
177		W = 4		31,722	27.32	27.32	866,645		$	0	0	0	0	0		
178		N = 6		44,225	50.62	50.62	2,238,670									
179		V = 8		14,133	76.17	76.17	1,076,511									
180		E = 10		2,009	112.01	112.01	225,028									
181		T = 12		302	177.07	177.07	53,475									
182		H = 14			193.63	193.63	0									
183	Total		6,078,000	252,292			6,826,976	(748,976)							6,826,976	112.32%
					Factor	1.0000								100.00%	6,826,976	112.32%
														100.0000	6,826,976	112.32%
184	Fire Protect. (Public)	R = 5/8					Annual		Percent of Total Usage in Each Block							
185		Z = 3/4					Svc. Charge		%	64.95%	35.05%	0.00%	0.00%			
186		Q = 1					Equals COS									
187		Y = 1-1/4					Less Vol.		Total Usage in Each Block							
188		P = 1-1/2					Charges		Mcf	0	0	0	0	0		
189		X = 2														
190		O = 3							Total Usage Charge Billings in Each Block							
191		W = 4							$	0	0	0	0	0		
192		N = 6														
193		V = 8														
194		E = 10														
195		T = 12														
196		H = 14														
197	Total		7,742,000	0			7,742,000	0							7,742,000	100.00%
											Bill tab adjustment			100.00%	7,742,000	100.00%
198	TOTAL EXCLUDING GENERAL SERVICE		54,311,000	341,992			15,289,010	39,021,990							51,833,204	95.44%
											Adjusted				51,833,204	95.44%
199	TOTAL ALL CLASSES		347,456,000	6,408,928			47,740,659	299,715,341							347,540,632	100.02%
											Adjusted				347,540,632	100.02%
											Adjusted to = COS projection				347,540,632	100.02%

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBU	Test Year 2024	Budget Yr 2023	Ver. 1a
BILLCOS - Billings Under COS Rates	P.N. 401641.0100	January 26, 2023 9:33 a.m.			Rates-4

Line No.	Customer Type	(1) Billed Volume Mcf Rates-3	(2) Billings $ Rates-3	(3) Unit Billings (1) $/Mcf (2) / (1)	(4) Service Charge $ Rates-3	(5) Volume Charge $ (2) - (4)	(6) Percent Distribution Service Charge % (4) / (2)	(7) Percent Distribution Volume Charge % 1 - (6)
1	Residential	3,084,500	201,323,595	65.2694	27,312,312	174,011,283	13.57%	86.43%
2	Senior Citizens	120,300	6,063,600	50.4040	950,466	5,113,134	15.67%	84.33%
3	Commercial	1,607,100	84,610,002	52.6476	4,007,067	80,602,935	4.74%	95.26%
4	Industrial	61,100	3,127,277	51.1829	143,342	2,983,935	4.58%	95.42%
5	Public Utilities	10,600	582,954	54.9957	38,462	544,492	6.60%	93.40%
6	Subtotal General Service	4,883,600	295,707,428	60.5511	32,451,649	263,255,779	10.97%	89.03%
7	Housing Authority	152,900	7,792,645	50.9656	369,074	7,423,571	4.74%	95.26%
8	Charities & Schools	125,500	5,073,980	40.4301	212,868	4,861,112	4.20%	95.80%
9	Hospital/University	53,000	1,822,962	34.3955	18,864	1,804,098	1.03%	98.97%
10	Hand Billed	525,100	22,568,313	42.9791	118,629	22,449,684	0.53%	99.47%
11	xxxxxxxxxx	0	0	0.0000	0	0	100.00%	0.00%
12	Scheduled (Flat Rate)	100	6,328	63.2800	599	5,729	9.47%	90.53%
13	xxxxxxxxxx	0	0	0.0000	0	0	100.00%	0.00%
14	Fire Protect. (Private)	0	6,826,976	27.0598	6,826,976	0	100.00%	0.00%
15	Fire Protect. (Public)	0	7,742,000	7,742,000	7,742,000	0	100.00%	0.00%
16	Total	5,740,200	347,540,632	60.5450	47,740,659	299,799,973	13.74%	86.26%

(1) Public and Private Fire Protection Unit Billings = $/Bill.

WCOS23_24.XLS

LAGRATE

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI	Test Year	2024	Budget Yr	2023	Ver. 1a
LagInd - Index	P.N. 401641.0100	January 31, 2023 2:40 p.m.					LagRate-1

The "LagRate" worksheet refines cost of service rates to recognize billing lag and rate implementation refinements and develops proposed Water System rates for the test year and two following years.

Range	Description	Page Number	Table
LagInd	Index	LagRate-1	
RATES	Existing and COS Rates	LagRate-2	
PBAC	Projected Bills, Accounts, and Consumption	LagRate-3	
PWR	Projected Water Receipts	LagRate-4	
BER	Test Year Billings Under Existing Rates	LagRate-5	
BPR	Projected Billings Under Proposed Rates	LagRate-6	
SBPR	Summary of Projected Billings Under Proposed Rates	LagRate-7	
RWL	Calculation of Receipts with Lag	LagRate-8	
TYRWL	Test Year Retail Receipts with Lag	LagRate-9	
COSWL	Adjusted COS Rates to Account for Lag	LagRate-10	
REVCOMP	Comparison of Revenue Under Exist. Rates to COS	LagRate-11	Schedule BV-2: Table 4-12
CPRATES	Water & Wastewater Proposed Rates	LagRate-12	
WPRATES	Water Proposed Rates	LagRate-13	Schedule BV-2: Table 5-1 and Table 5-2
BTAB	BillTab Billing Percentages	LagRate-14	
WSERVCHG	Components of Water Service Charges	LagRate-15	
WSERVCHG	Summary of Components Water Service Charges	LagRate-16	

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI Test Year 2024	Budget Yr 2023	Ver. 1a
RATES - Existing and COS Rates	P.N. 401641.0100	January 31, 2023 2:40 p.m.		LagRate-2

References: 0
0

TEST YEAR COS RATES
TEST YEAR 2024
Effective July 1, 2024
(Prior to Application of Lag Factor Adjustment)

Meter Size inches	Meter Code	Gen Svc Residential Service Charge $/Bill Rates-3	Discount Senior Citizen Service Charge (a) $/Bill Rates-3
5/8	R	4.99	3.74
3/4	Z	5.47	4.10
1	Q	6.84	5.13
1 1/4	Y	8.51	6.38
1 1/2	P	9.67	7.25
2	X	13.78	10.34
3	O	22.57	16.93
4	W	40.30	30.23
6	N	76.57	57.43
8	V	117.69	88.27
10	E	171.69	128.77
12	T	288.64	216.48
14	H	310.39	232.79

	First Block 0 - 2 Mcf $/Mcf Rates-3	Second Block 3 - 100 Mcf $/Mcf Rates-3	Third Block 101 - 2,000 Mcf $/Mcf Rates-3	Fourth Block >2,000 Mcf $/Mcf Rates-3
General Service Volume Cha	57.52	51.67	40.03	38.95
Discount Volume Charge (a)	43.14	38.75	30.02	29.21

EXISTING RATES
(Effective September 1, 2022)

Meter Size inches	Meter Code	General Service Service Charge $/Bill Ref. A	Other (a) Service Charge $/Bill
5/8	R	4.97	3.73
3/4	Z	5.37	4.03
1	Q	6.57	4.93
1 1/4	Y	8.01	6.01
1 1/2	P	8.96	6.72
2	X	12.59	9.44
3	O	20.20	15.15
4	W	36.45	27.34
6	N	68.70	51.53
8	V	104.91	78.68
10	E	153.42	115.07
12	T	253.19	189.89
14	H		0.00

	First 2 Mcf $/Mcf Ref. B	Next 98 Mcf $/Mcf Ref. B	Next 1,900 Mcf $/Mcf Ref. B	Over 2,000 Mcf $/Mcf Ref. B
General Service Volume Charge	48.96	44.99	34.85	33.91
Discount Volume Charge (a)	36.72	33.74	26.14	25.43

Meter Size inches	Meter Code	Gen Svc Non Res Service Charge $/Bill Rates-3	Discount Service Charge (a) $/Bill Rates-3
5/8	R	4.99	3.74
3/4	Z	5.47	4.10
1	Q	6.84	5.13
1 1/4	Y	8.51	6.38
1 1/2	P	9.67	7.25
2	X	13.78	10.34
3	O	22.57	16.93
4	W	40.30	30.23
6	N	76.57	57.43
8	V	117.69	88.27
10	E	171.69	128.77
12	T	288.64	216.48
14	H	310.39	232.79

	First Block 0 - 2 Mcf $/Mcf Rates-3	Second Block 3 - 100 Mcf $/Mcf Rates-3	Third Block 101 - 2,000 Mcf $/Mcf Rates-3	Fourth Block >2,000 Mcf $/Mcf Rates-3
General Service Volume Cha	57.52	51.67	40.03	38.95
Discount Volume Charge (a)	43.14	38.75	30.02	29.21

Meter Size inches	Meter Code	General Service Service Charge $/Bill Ref. A	Other (a) Service Charge $/Bill
5/8	R	4.97	3.73
3/4	Z	5.37	4.03
1	Q	6.57	4.93
1 1/4	Y	8.01	6.01
1 1/2	P	8.96	6.72
2	X	12.59	9.44
3	O	20.20	15.15
4	W	36.45	27.34
6	N	68.70	51.53
8	V	104.91	78.68
10	E	153.42	115.07
12	T	253.19	189.89
14	H		0.00

	First 2 Mcf $/Mcf Ref. B	Next 98 Mcf $/Mcf Ref. B	Next 1,900 Mcf $/Mcf Ref. B	Over 2,000 Mcf $/Mcf Ref. B
General Service Volume Charge	48.96	44.99	34.85	33.91
Discount Volume Charge (a)	36.72	33.74	26.14	25.43

(a) Discount rate applies to Senior Citizens and Charities.

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI Test Year 2024	Budget Yr 2023	Ver. 1a
PBAC - Projected Bills, Accounts, and Consumption	P.N. 401641.0100	January 31, 2023 2:40 p.m.		LagRate-3

Projected Number of Accounts
"Water and Sewer" plus "Water Only"

	Fiscal Year Ending June 30										Test Year
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2024
General Service											
5/8" (excl Senior Citizens)	449,174	451,238	454,292	457,369	460,469	463,592	463,592	463,592	463,592	463,592	457,369
>5/8" (excl Senior Citizens)	20,788	22,946	24,889	27,035	29,409	32,026	32,026	32,026	32,026	32,026	27,035
Senior Citizens (5/8")	22,215	22,052	21,602	21,161	20,729	20,306	20,306	20,306	20,306	20,306	21,161
Senior Citizens (>5/8")	8	11	12	13	14	15	15	15	15	15	13
Housing Authority	5,718	5,666	5,597	5,529	5,462	5,396	5,396	5,396	5,396	5,396	5,529
Charities & Schools	1,858	1,834	1,736	1,643	1,555	1,472	1,472	1,472	1,472	1,472	1,643
Hospital/University	140	138	96	67	47	33	33	33	33	33	67
xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0
Fire Meters	16,313	18,226	19,575	21,024	22,581	24,253	24,253	24,253	24,253	24,253	21,024
Scheduled (Flat Rate)	5	6	8	10	13	16	16	16	16	16	10
xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0
Total	516,219	522,117	527,807	533,851	540,279	547,109	547,109	547,109	547,109	547,109	533,851

Projected Number of Bills
"Water and Sewer" plus "Water Only"
(Number of Accounts x 12)

	Fiscal Year Ending June 30										Test Year
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2024
General Service											
5/8" (excl Senior Citizens)	5,390,088	5,414,856	5,451,504	5,488,428	5,525,628	5,563,104	5,563,104	5,563,104	5,563,104	5,563,104	5,488,428
>5/8" (excl Senior Citizens)	249,456	275,352	298,668	324,420	352,908	384,312	384,312	384,312	384,312	384,312	324,420
Senior Citizens (5/8")	266,580	264,624	259,224	253,932	248,748	243,672	243,672	243,672	243,672	243,672	253,932
Senior Citizens (>5/8")	96	132	144	156	168	180	180	180	180	180	156
Housing Authority	68,616	67,992	67,164	66,348	65,544	64,752	64,752	64,752	64,752	64,752	66,348
"N" Charities	22,296	22,008	20,832	19,716	18,660	17,664	17,664	17,664	17,664	17,664	19,716
"6 Cent" Charities	1,680	1,656	1,152	804	564	396	396	396	396	396	804
xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0
Fire Meters	195,752	218,712	234,898	252,292	270,976	291,035	291,035	291,035	291,035	291,035	252,292
Scheduled (Flat Rate)	60	72	96	120	156	192	192	192	192	192	120
xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0
Total	6,194,624	6,265,404	6,333,682	6,406,216	6,483,352	6,565,307	6,565,307	6,565,307	6,565,307	6,565,307	6,406,216

Projected Consumption
"Water and Sewer" plus "Water Only"

	Fiscal Year Ending June 30										Test Year
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2024
Senior Citizens	127,214	123,911	122,140	120,297	118,481	116,691	116,691	116,691	116,691	116,691	120,297
Residential (excl SC)	3,080,445	3,053,350	3,068,635	3,084,482	3,100,664	3,117,262	3,099,856	3,082,450	3,065,044	3,051,990	3,084,482
Commercial	1,542,241	1,663,824	1,701,116	1,607,139	1,642,981	1,679,866	1,679,866	1,679,866	1,679,866	1,679,866	1,607,139
Industrial	84,616	88,098	73,291	61,130	51,140	42,925	42,925	42,925	42,925	42,925	61,130
Public Utilities	9,275	9,849	10,243	10,623	11,064	10,827	10,827	10,827	10,827	10,827	10,623
Housing Authority	145,316	154,693	153,806	152,932	152,062	151,196	151,196	151,196	151,196	151,196	152,932
Charities & Schools ("N" Charities)	113,224	137,520	131,398	125,542	119,937	114,610	114,610	114,610	114,610	114,610	125,542
Hospital & University("6 Cent" Charities)	93,694	104,294	74,234	53,010	38,048	27,334	27,334	27,334	27,334	27,334	53,010
Hand Billed	475,823	484,406	504,400	525,131	546,620	568,885	568,885	568,885	568,885	568,885	525,131
xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0
Fire Meters	10,022	197	73	0	0	0	0	0	0	0	0
Scheduled (Flat Rate)	38	32	46	62	88	117	117	117	117	117	62
xxxxxxxxxx	0	0	0	0	0	0	0	0	0	0	0
Total	5,681,907	5,820,175	5,839,382	5,740,348	5,781,085	5,829,713	5,812,307	5,794,901	5,777,495	5,764,441	5,740,348
Bucks County	0	0	0	0	0	0	0	0	0	0	0
Total	5,681,907	5,820,175	5,839,382	5,740,348	5,781,085	5,829,713	5,812,307	5,794,901	5,777,495	5,764,441	5,740,348

(a) Included with General Service for this update.

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI	Test Year 2024	Budget Yr 2023	Ver. 1a
PWR - Projected Water Receipts	P.N. 401641.0100	January 31, 2023 2:40 p.m.			LagRate-4

Reference: Financial Planning Model - Customer/Link

PROJECTED WATER RECEIPTS UNDER EXISTING RATES

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	Billings													Receipts				
Fiscal Year Ending June 30	Senior Citizens $1,000	Residential Excluding SC $1,000	Commercial $1,000	Industrial $1,000	Public Utilities $1,000	Housing Authority $1,000	Charities & Schools $1,000	Hospitals & Universities $1,000	Hand Bill $1,000	Scheduled (Flat Rate) $1,000	Subtotal (b) $1,000	Aqua PA $1,000	Total Billings $1,000	B&V Calculate General Service Total Receipts (d) $1,000	Actual General Service Total Receipts $1,000	Public Fire Protection $1,000	Private Fire Protection $1,000	Total Receipts $1,000 (10)+(15)+(16)
													x					
2021	5,231	162,007	61,994	3,237	387	5,739	3,518	2,418	15,295	2	259,829	3,848	263,677	270,963	274,824	6,533	4,624	282,120
2022	5,177	163,641	70,606	3,586	437	6,382	4,489	2,889	16,768	2	273,978	3,442	277,420	275,484	278,758	6,533	3,840	285,857
2023	5,340	172,770	76,745	3,201	484	6,731	4,565	2,196	18,650	3	290,685	3,310	293,994	279,572	0	7,114	4,042	290,728
2024	5,312	175,753	73,624	2,724	509	6,771	4,413	1,587	19,648	4	290,344	3,329	293,673	281,292	0	7,114	4,358	292,764
2025	5,227	176,842	75,221	2,300	530	6,730	4,214	1,139	20,446	5	292,654	3,329	295,983	283,553	0	7,114	4,684	295,351
2026	5,143	177,966	76,865	1,952	520	6,689	4,025	818	21,274	7	295,258	3,329	298,588	285,988	0	7,114	5,034	298,137
2027	5,143	177,127	76,865	1,952	520	6,689	4,025	818	21,274	7	294,420	3,329	297,749	285,593	0	7,114	5,034	297,742
2028	5,143	176,289	76,865	1,952	520	6,689	4,025	818	21,274	7	293,581	3,329	296,910	284,850	0	7,114	5,034	296,998
2029	5,143	175,450	76,865	1,952	520	6,689	4,025	818	21,274	7	292,742	3,329	296,071	284,037	0	7,114	5,034	296,185
2030	5,143	174,821	76,865	1,952	520	6,689	4,025	818	21,274	7	292,113	3,329	295,442	283,401	0	7,114	5,034	295,549
2031	5,143	174,401	76,865	1,952	520	6,689	4,025	818	21,274	7	291,694	3,329	295,023	282,964	0	7,114	5,034	295,112
2032	5,143	173,982	76,865	1,952	520	6,689	4,025	818	21,274	7	291,274	3,329	294,604	282,553	0	7,114	5,034	294,701
2033	5,143	173,772	76,865	1,952	520	6,689	4,025	818	21,274	7	291,065	3,329	294,394	282,324	0	7,114	5,034	294,472
2034	5,143	173,772	76,865	1,952	520	6,689	4,025	818	21,274	7	291,065	3,329	294,394	282,293	0	7,114	5,034	294,442
TY 2024	5,312	175,753	73,624	2,724	509	6,771	4,413	1,587	19,648	4	290,344	3,329	293,673	281,292		7,114	4,358	292,764

(a) Includes Residential, Commercial, and Industrial.

(b) 2023 and beyond subtotals reflect an adjustment to gross water billings of 0.0%.

(d) Receipts are computed using following formula:

(Current Year Collection Factor * Current Year Subtotal Billings)+(First Year Prior Collection Factor * First Year Prior Subtotal Billings)+(Second Year Collection Factor * Second Year Prior Subtotal Billings)+Wholesale Current Year Billings

(e) Reflects Interfund Charges To General Fund for Water Service for City , Zoo, Groundwater Discharge, Public Fire Protection (FNC-12), Aviation Fund, and Misc. City revenues.

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI Test Year 2024	Budget Yr 2023	Ver. 1a
BER - Test Year Billings Under Existing Rates	P.N. 401641.0100	January 31, 2023 2:40 p.m.		LagRate-5

Reference: Financial Planning Model - Customer/Link

Gross Billing Adjustment Factor = 0.00

	(1)	(2)	(3)	(4)	(5)
	Percent Volume Charge % Ref. A	Percent Service Charge % Ref. A	TY 2024 Billings Under Existing Rates $ LagRate-4	Volume Charge Billings $ (1) x (3)	Service Charge Billings $ (2) x (3)
Senior Citizens	82.17%	17.83%	5,311,846	4,364,545	947,300
Residential (Excluding SC)	84.49%	15.51%	175,753,346	148,496,557	27,256,789
Commercial	94.72%	5.28%	73,623,857	69,733,459	3,890,398
Industrial	95.08%	4.92%	2,723,835	2,589,782	134,054
Public Utilities	92.90%	7.10%	508,698	472,604	36,094
Housing Authority	94.67%	5.33%	6,770,616	6,409,645	360,971
Charities & Schools	95.56%	4.44%	4,412,830	4,216,702	196,128
Hospitals & University	98.93%	1.07%	1,587,167	1,570,133	17,033
Hand Billed	99.46%	0.54%	19,648,220	19,541,549	106,671
Scheduled (Flat Rate)	83.53%	16.47%	3,621	3,025	596
xxxxxxxxxx	0.00%	0.00%	0	0	0
xxxxxxxxxx	0.00%	0.00%	0	0	0
Private Fire	0.00%	100.00%	4,358,150	0	4,358,150
Public Fire	0.00%	100.00%	7,114,000	0	7,114,000
Total	85.28%	14.72%	301,816,186	257,398,002	44,418,185
Total less xxxxxxxxxx	85.28%	14.72%	301,816,186	257,398,002	44,418,185
Total less xxxxxxxxxx & Fir	88.65%	11.35%	290,344,036	257,398,002	32,946,035

(a) Includes Residential, Commercial, Industrial, Public Utilities, and Miscellaneous.

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI	Test Year 2024	Budget Yr 2023	Ver. 1a
BPR - Projected Billings Under Proposed Rates	P.N. 401641.0100	January 31, 2023 2:40 p.m.			LagRate-6

		Senior Citizens	Residential	Commercial	Industrial	Public Utilities	Housing Authority	Charities & Schools	Hospitals & Universities	Hand Billed	xxxxxxxxxx	Scheduled (Flat Rate)	xxxxxxxxxx	Private Fire Protection	Public Fire Protection	Total	Total less xxxxxxxxxx
Test Year Unit Billings - $/M	Rates-4	50.4040	65.2694	52.6476	51.1829	54.9957	50.9656	40.4301	34.3955	42.9791	0.0000	63.2800	0.0000	27.0598	7,742,000		
Test Year Percent Service Cl	Rates-4	15.67%	13.57%	4.74%	4.58%	6.60%	4.74%	4.20%	1.03%	0.53%	100.00%	9.47%	100.00%	100.00%	100.00%		
Test Year Percent Volume C	Rates-4	84.33%	86.43%	95.26%	95.42%	93.40%	95.26%	95.80%	98.97%	99.47%	0.00%	90.53%	0.00%	0.00%	0.00%		
2023														234,898			
Billed Volume	LagRate-3	122,140	3,068,635	1,701,116	73,291	10,243	153,806	131,398	74,234	504,400	0	46	0	(b)		5,839,309	5,839,309
Service Charge Billings		965,000	27,179,000	4,245,000	172,000	37,000	372,000	223,000	26,000	115,000	0	0	0	4,358,000	7,114,000	44,806,000	44,806,000
Volume Charge Billings		5,191,000	173,109,000	85,315,000	3,579,000	526,000	7,467,000	5,089,000	2,527,000	21,564,000	0	3,000	0	0	0	304,370,000	304,370,000
Total Billings		6,156,000	200,288,000	89,560,000	3,751,000	563,000	7,839,000	5,312,000	2,553,000	21,679,000	0	3,000	0	4,358,000	7,114,000	349,176,000	349,176,000
2024														252,292			
Billed Volume	LagRate-3	120,297	3,084,482	1,607,139	61,130	10,623	152,932	125,542	53,010	525,131	0	62	0	(b)		5,740,348	5,740,348
Service Charge Billings		950,000	27,319,000	4,011,000	143,000	39,000	369,000	213,000	19,000	120,000	0	0	0	6,827,000	7,742,000	47,752,000	47,752,000
Volume Charge Billings		5,113,000	174,003,000	80,601,000	2,986,000	545,000	7,425,000	4,863,000	1,804,000	22,450,000	0	4,000	0	0	0	299,794,000	299,794,000
Total Billings		6,063,000	201,322,000	84,612,000	3,129,000	584,000	7,794,000	5,076,000	1,823,000	22,570,000	0	4,000	0	6,827,000	7,742,000	347,546,000	347,546,000
		x					x	x					x				
2025														270,976			
Billed Volume	LagRate-3	118,481	3,100,664	1,642,981	51,140	11,064	152,062	119,937	38,048	546,620	0	88	0	(b)		5,781,085	5,781,085
Service Charge Billings		936,000	27,463,000	4,100,000	120,000	40,000	367,000	204,000	13,000	125,000	0	1,000	0	7,333,000	7,742,000	48,444,000	48,444,000
Volume Charge Billings		5,036,000	174,915,000	82,399,000	2,497,000	568,000	7,383,000	4,645,000	1,296,000	23,368,000	0	5,000	0	0	0	302,112,000	302,112,000
Total Billings		5,972,000	202,378,000	86,499,000	2,617,000	608,000	7,750,000	4,849,000	1,309,000	23,493,000	0	6,000	0	7,333,000	7,742,000	350,556,000	350,556,000
2026														291,035			
Billed Volume	LagRate-3	116,691	3,117,262	1,679,866	42,925	10,827	151,196	114,610	27,334	568,885	0	117	0	(b)		5,829,713	5,829,713
Service Charge Billings		922,000	27,610,000	4,192,000	101,000	39,000	365,000	195,000	10,000	130,000	0	1,000	0	7,875,000	7,742,000	49,182,000	49,182,000
Volume Charge Billings		4,960,000	175,852,000	84,249,000	2,096,000	556,000	7,341,000	4,439,000	930,000	24,320,000	0	6,000	0	0	0	304,749,000	304,749,000
Total Billings		5,882,000	203,462,000	88,441,000	2,197,000	595,000	7,706,000	4,634,000	940,000	24,450,000	0	7,000	0	7,875,000	7,742,000	353,931,000	353,931,000
2027														291,035			
Billed Volume	LagRate-3	116,691	3,099,856	1,679,866	42,925	10,827	151,196	114,610	27,334	568,885	0	117	0	(b)		5,812,307	5,812,307
Service Charge Billings		922,000	27,456,000	4,192,000	101,000	39,000	365,000	195,000	10,000	130,000	0	1,000	0	7,875,000	7,742,000	49,028,000	49,028,000
Volume Charge Billings		4,960,000	174,870,000	84,249,000	2,096,000	556,000	7,341,000	4,439,000	930,000	24,320,000	0	6,000	0	0	0	303,767,000	303,767,000
Total Billings		5,882,000	202,326,000	88,441,000	2,197,000	595,000	7,706,000	4,634,000	940,000	24,450,000	0	7,000	0	7,875,000	7,742,000	352,795,000	352,795,000
2028														291,035			
Billed Volume	LagRate-3	116,691	3,082,450	1,679,866	42,925	10,827	151,196	114,610	27,334	568,885	0	117	0	(b)		5,794,901	5,794,901
Service Charge Billings		922,000	27,301,000	4,192,000	101,000	39,000	365,000	195,000	10,000	130,000	0	1,000	0	7,875,000	7,742,000	48,873,000	48,873,000
Volume Charge Billings		4,960,000	173,889,000	84,249,000	2,096,000	556,000	7,341,000	4,439,000	930,000	24,320,000	0	6,000	0	0	0	302,786,000	302,786,000
Total Billings		5,882,000	201,190,000	88,441,000	2,197,000	595,000	7,706,000	4,634,000	940,000	24,450,000	0	7,000	0	7,875,000	7,742,000	351,659,000	351,659,000
2029														291,035			
Billed Volume	LagRate-3	116,691	3,065,044	1,679,866	42,925	10,827	151,196	114,610	27,334	568,885	0	117	0	(b)		5,777,495	5,777,495
Service Charge Billings		922,000	27,147,000	4,192,000	101,000	39,000	365,000	195,000	10,000	130,000	0	1,000	0	7,875,000	7,742,000	48,719,000	48,719,000
Volume Charge Billings		4,960,000	172,907,000	84,249,000	2,096,000	556,000	7,341,000	4,439,000	930,000	24,320,000	0	6,000	0	0	0	301,804,000	301,804,000
Total Billings		5,882,000	200,054,000	88,441,000	2,197,000	595,000	7,706,000	4,634,000	940,000	24,450,000	0	7,000	0	7,875,000	7,742,000	350,523,000	350,523,000
2030														291,035			
Billed Volume	LagRate-3	116,691	3,051,990	1,679,866	42,925	10,827	151,196	114,610	27,334	568,885	0	117	0	(b)		5,764,441	5,764,441
Service Charge Billings		922,000	27,032,000	4,192,000	101,000	39,000	365,000	195,000	10,000	130,000	0	1,000	0	7,875,000	7,742,000	48,604,000	48,604,000
Volume Charge Billings		4,960,000	172,170,000	84,249,000	2,096,000	556,000	7,341,000	4,439,000	930,000	24,320,000	0	6,000	0	0	0	301,067,000	301,067,000
Total Billings		5,882,000	199,202,000	88,441,000	2,197,000	595,000	7,706,000	4,634,000	940,000	24,450,000	0	7,000	0	7,875,000	7,742,000	349,671,000	349,671,000

(a) Combined Residential, Commercial, Industrial unit billing rate and percent service and volume charge calculated as follows:

	Billed Volume Mcf Rates-4	Billings $ Rates-4	Unit Billings $/Mcf	Service Charge $ Rates-4	Volume Charge $ Rates-4	Percent Service Charge %	Percent Volume Charge %
Residential	3,084,500	201,323,595		27,312,312	174,011,283	13.57%	86.43%
Commercial	1,607,100	84,610,002		4,007,067	80,602,935	4.74%	95.26%
Industrial	61,100	3,127,277		143,342	2,983,935	4.58%	95.42%
Public Utilities	10,600	582,954		38,462	544,492	6.60%	93.40%
	4,763,300	289,643,828	60.8074	31,501,183	258,142,645	10.88%	89.12%

(b) Total projected billings are equal to test year billings under existing rates.

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI Test Year 2024	Budget Yr 2023	Ver. 1a
SBPR - Summary of Projected Billings Under Proposed Rates	P.N. 401641.0100	January 31, 2023 2:40 p.m.		LagRate-7

Reference: LagRate-6

SERVICE CHARGE BILLINGS

	2023	2024	2025	2026	2027	2028	2029	2030
Senior Citizens	965,000	950,000	936,000	922,000	922,000	922,000	922,000	922,000
Residential	27,179,000	27,319,000	27,463,000	27,610,000	27,456,000	27,301,000	27,147,000	27,032,000
Commercial	4,245,000	4,011,000	4,100,000	4,192,000	4,192,000	4,192,000	4,192,000	4,192,000
Industrial	172,000	143,000	120,000	101,000	101,000	101,000	101,000	101,000
Public Utilities	37,000	39,000	40,000	39,000	39,000	39,000	39,000	39,000
Subtotal	32,598,000	32,462,000	32,659,000	32,864,000	32,710,000	32,555,000	32,401,000	32,286,000
Housing Authority	372,000	369,000	367,000	365,000	365,000	365,000	365,000	365,000
Charities & Schools	223,000	213,000	204,000	195,000	195,000	195,000	195,000	195,000
Hospitals & Universities	26,000	19,000	13,000	10,000	10,000	10,000	10,000	10,000
Hand Billed	115,000	120,000	125,000	130,000	130,000	130,000	130,000	130,000
xxxxxxxxxx	0	0	0	0	0	0	0	0
Scheduled (Flat Rate)	0	0	1,000	1,000	1,000	1,000	1,000	1,000
xxxxxxxxxx	0	0	0	0	0	0	0	0
Fire Protect. (Private)	4,358,000	6,827,000	7,333,000	7,875,000	7,875,000	7,875,000	7,875,000	7,875,000
Fire Protect. (Public)	7,114,000	7,742,000	7,742,000	7,742,000	7,742,000	7,742,000	7,742,000	7,742,000
Total	44,806,000	47,752,000	48,444,000	49,182,000	49,028,000	48,873,000	48,719,000	48,604,000
Total Less xxxxxxxxxx	44,806,000	47,752,000	48,444,000	49,182,000	49,028,000	48,873,000	48,719,000	48,604,000
Total Less xxxxxxxxxx & Public and Privat	33,334,000	33,183,000	33,369,000	33,565,000	33,411,000	33,256,000	33,102,000	32,987,000

VOLUME CHARGE BILLINGS

	2023	2024	2025	2026	2027	2028	2029	2030
Senior Citizens	5,191,000	5,113,000	5,036,000	4,960,000	4,960,000	4,960,000	4,960,000	4,960,000
Residential	173,109,000	174,003,000	174,915,000	175,852,000	174,870,000	173,889,000	172,907,000	172,170,000
Commercial	85,315,000	80,601,000	82,399,000	84,249,000	84,249,000	84,249,000	84,249,000	84,249,000
Industrial	3,579,000	2,986,000	2,497,000	2,096,000	2,096,000	2,096,000	2,096,000	2,096,000
Public Utilities	526,000	545,000	568,000	556,000	556,000	556,000	556,000	556,000
Subtotal	267,720,000	263,248,000	265,415,000	267,713,000	266,731,000	265,750,000	264,768,000	264,031,000
Housing Authority	7,467,000	7,425,000	7,383,000	7,341,000	7,341,000	7,341,000	7,341,000	7,341,000
Charities & Schools	5,089,000	4,863,000	4,645,000	4,439,000	4,439,000	4,439,000	4,439,000	4,439,000
Hospitals & Universities	2,527,000	1,804,000	1,296,000	930,000	930,000	930,000	930,000	930,000
Hand Billed	21,564,000	22,450,000	23,368,000	24,320,000	24,320,000	24,320,000	24,320,000	24,320,000
xxxxxxxxxx	0	0	0	0	0	0	0	0
Scheduled (Flat Rate)	3,000	4,000	5,000	6,000	6,000	6,000	6,000	6,000
xxxxxxxxxx	0	0	0	0	0	0	0	0
Fire Protect. (Private)	0	0	0	0	0	0	0	0
Fire Protect. (Public)	0	0	0	0	0	0	0	0
Total	304,370,000	299,794,000	302,112,000	304,749,000	303,767,000	302,786,000	301,804,000	301,067,000
Total Less xxxxxxxxxx	304,370,000	299,794,000	302,112,000	304,749,000	303,767,000	302,786,000	301,804,000	301,067,000
Total Less xxxxxxxxxx & Public and Privat	304,370,000	299,794,000	302,112,000	304,749,000	303,767,000	302,786,000	301,804,000	301,067,000

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI Test Year 2024	Budget Yr 2023	Ver. 1a
RWL - Calculation of Receipts with Lag	P.N. 401641.0100	January 31, 2023 2:40 p.m.		LagRate-8

Fiscal Year	Proposed Increase	Months Effective	Cumulative Increase 2023 - 2030	Cumulative Increase 2024 - 2030	Cumulative Increase 2025 - 2030
	Financial Planning Model				
2023	0.00%	10	100.00%		
2024	18.90%	12	118.90%	1	
2025	9.00%	10	129.60%	129.60%	109.00%
2026	12.51%	10	145.81%	145.81%	122.63%
2027	9.37%	10	159.48%	159.48%	134.13%
2028	11.62%	10	178.01%	178.01%	149.72%
2029	9.31%	10	194.59%	194.59%	163.66%
2030	4.35%	10	203.06%	203.06%	170.78%

Line No.		(1) Number of months at Existing Rates	(2) Number of months at COS Rates	(3) Billings (a) LagRate-5 LagRate-7	(4) Cumulative Percent Increase (b)	(5) FY 2024 COS Rate Adjustment LagRate-9	(6) FY 2025 COS Rate Adjustment	(7) FY 2026 COS Rate Adjustment	(8) FY 2027 COS Rate Adjustment	(9) Adjusted Billings (c) $	(10) Receipts Factor (d) FY 2024 (e) %	(11) FY 2025 %	(12) FY 2026 %	(13) FY 2027 %	(14) FY 2024 $ (6) x (7)
	SERVICE CHARGE														
	All classes less xxxxxxxxxx and fir														
	Existing Rates														
1	FY 2024	0.0		32,946,035	100.00%					0	84.65	10.29	2.04		0
	Adjusted COS Rates Effective July 1, 2023														
2	FY 2024		12.0	33,183,000	100.00%	106.30%				35,274,000	84.65	10.29	2.04		29,861,000
	FY 2025		10.0	33,369,000	129.60%	106.30%	105.20%			40,301,000		84.65	10.29	2.04	
	FY 2026		10.0	33,565,000	145.81%	106.30%	105.20%	#N/A		#N/A			84.65	10.29	
	FY 2027		10.0	33,411,000	159.48%	106.30%	105.20%	#N/A	#N/A	#N/A				84.65	
	Increase in service charge deposit due to rate increase (f)														
	xxxxxxxxxx and Fire														
	Existing Rates														
3	FY 2024	0.0		4,358,150	100.00%					0	100.00	0.00	0.00		0
	Adjusted COS Rates Effective July 1, 2023														
4	FY 2024		12.0	6,827,000	100.00%	106.30%				7,257,000	100.00	0.00	0.00		7,257,000
	FY 2025		10.0	6,827,000	129.60%	106.30%	105.20%			8,245,000		100.00	0.00	0.00	
	FY 2026		10.0	7,875,000	145.81%	106.30%	105.20%	#N/A		#N/A			100.00	0.00	
	FY 2027		10.0	7,875,000	159.48%	106.30%	105.20%	#N/A	#N/A	#N/A				100.00	
	Increase in xxxxxxxxxx service charge deposit due to rate increase														
	VOLUME CHARGE														
	All classes less xxxxxxxxxx and fir														
	Existing Rates														
5	FY 2024	0.5		257,398,002	100.00%					10,725,000	84.65	10.29	2.04		9,079,000
	Adjusted COS Rates Effective July 1, 2023														
6	FY 2024		11.5	299,794,000	100.00%	106.30%				305,403,000	84.65	10.29	2.04		258,537,000
	FY 2025	2.5	9.5	302,112,000	129.60%	106.30%	105.20%			413,536,000		84.65	10.29	2.04	
	FY 2026	2.5	9.5	304,749,000	145.81%	106.30%	105.20%	#N/A		#N/A			84.65	10.29	
	FY 2027	2.5	9.5	303,767,000	159.48%	106.30%	105.20%	#N/A	#N/A	#N/A				84.65	

FY 2026 - FY 202 Line and Columns are NOT USED in this analysis

	XXXXXXXXXX and fire														
	Existing Rates														
7	FY 2024	0.5		0	100.00%					0	100.00	0.00	0.00		0
	Adjusted COS Rates Effective July 1, 2023														
8	FY 2024		11.5	0	100.00%	106.30%				0	100.00	0.00	0.00		0
	FY 2025	2.5	9.5	0	129.60%	106.30%	105.20%			0		100.00	0.00	0.00	
	FY 2026	2.5	9.5	0	145.81%	106.30%	105.20%	#N/A		#N/A			100.00	0.00	
	FY 2027	2.5	9.5	0	159.48%	106.30%	105.20%	#N/A	#N/A	#N/A				100.00	
	SURCHARGE RATES														
	Existing Rates														
9	FY 2024	0.0		na	100.00%					0	84.65	10.29	2.04		0
	Adjusted COS Rates Effective July 1, 2023														
10	FY 2024		12.0	na	100.00%	106.30%				0	84.65	10.29	2.04		0
	FY 2025		10.0	na	129.60%	106.30%				0		84.65	10.29	2.04	
	FY 2026		10.0	na	145.81%	106.30%				0			84.65	10.29	
	FY 2027		10.0	na	159.48%	106.30%				0				84.65	
11	FY 2022 Billings (LagRate-4)			273,977,753	100.00%					273,978,000	2.04				5,584,000
12	FY 2023 Billings (LagRate-4)			290,684,688	100.00%					290,685,000	10.29	2.04			29,918,000
13	Total Receipts														340,236,000

(a) Billings to General Service customers under existing rates reflect an adjustment to gross water billings of 0.00%. A billtab adjustment was made to determine the proposed rates. 332,979,000

(b) Adjusted billings under existing rates should reflect proposed increases in effect prior to the test year. Adjusted billings under COS rates should reflect proposed increases after the test year. 7,257,000

(c) Adjusted service charge billings are equal to the number of months effective times billings times the cumulative percent increase times the COS rate adjustment.
Test year adjusted volume charge billings are equal to the number of months effective times billings times the cumulative percent increase times the COS rate adjustment. For each year after the test year, the adjusted volume charge rates time the previous year's billings times the previous year's cumulative percent increase plus the number of months at COS rates times billings times the cumulative percent increase times the COS rate adjustment. 340,236,000
Adjusted billings for FY 2022 and FY 2023 are equal to the billings times the cumulative percent increase times the 0.00% billings adjustment.

(d) Receipts Factor from Financial Planning Model .

(e) Receipt factor will need to be adjusted to recognize a partial year rate increase.

(f) Increase in service charge deposit calculated as 2 months of billings times the cumulative percent increase.

FY 2026 - FY 202 Line and Columns are NOT USED in this analysis

File: WCOS23_24_ver1.xls | **Philadelphia Water Department (PWD)** | **CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI Test Year 2024 Budget Yr 2023** | **Ver. 1a**
TYRWL - Test Year Retail Receipts with Lag | **P.N. 401641.0100** | **January 31, 2023 2:40 p.m.** | **LagRate-9**

NOT USED IN CURRENT ANALYSIS

	Percent Increase in Rates Required:	0.998466	0.863685	#N/A	#N/A
	USE:	1.0630	1.05200	#N/A	#N/A
Reference		FY 2024 $	FY 2025 $	FY 2026 $	FY 2027 $
LagRate-8	Total Retail Receipts less Public Fire	340,236,000	426,031,000	#N/A	#N/A
	Requirements:	Retcos-4	CF Data	CF Data	CF Data
	COS	352,056,000	381,222,608	430,596,449	472,591,145 x
	Less Wholesale (Including Mgmt Fee)	(4,600,000)	(4,766,000)	#N/A	#N/A
	Net Retail COS	347,456,000	376,456,608	#N/A	#N/A
	Less Public Fire Protection				
LagRate-5	Under Old Rates				
LagRate-8	Under New Rates	7,742,000	8,500,000	#N/A	#N/A
	Less Monthly Billing Incr. in Volume Charges				
	Total Requirements	339,714,000	367,956,608	#N/A	#N/A
	Revenue Surplus/(Deficiency)	522,000	58,074,392	#N/A	#N/A
LagRate-8	Total Increasable Receipts	295,655,000	419,002,000	#N/A	#N/A
	ADJUSTMENT FACTOR REQUIRED	-0.1534%	-13.6315%	#N/A	#N/A
		0.18%			
	%Rate Adjustment		14.67%	#N/A	#N/A

			Input from Model Application for FY 2025 , FY 2026 and FY 2027			
		FY 2024 $	FY 2025 $	FY 2026 $	FY 2027 $
	Bucks County		Retcos-4	Retcos-4	Retcos-4
	Rate Billings	0	0	#N/A	#N/A
	Mgmt Fee 12.0%	0	0	#N/A	#N/A
	Total Bucks Retcos-4	0	0	#N/A	#N/A
	Aqua PA				
	Rate Billings LagRate-11	4,182,000	4,333,000	#N/A	#N/A
	Mgmt Fee 10.0%	418,000	433,000	#N/A	#N/A
	Carrying				
	Total Aqua PA	4,600,000	4,766,000	#N/A	#N/A
	Total Wholesale w/Mgmt Fee	4,600,000	4,766,000	#N/A	#N/A
		347,456,000			

		Test Year 2024 Receipts of Test Year 2024 Billings
	General Customers	$
LagRate-8	Service Charge	29,861,000
LagRate-8	Volume Charge	267,616,000
	Total General Customers	297,477,000
	xxxxxxxxxx	
LagRate-8	Service Charge	7,257,000
LagRate-8	Volume Charge	0
	Total xxxxxxxxxx	7,257,000
LagRate-8	Surcharge	0
	Total	304,734,000

		FY 2024 Receipts (a)	FY 2024 Billings (a)	Percent	FY 2025 Receipts (a)	FY 2025 Billings (a)	Percent	FY 2026 Billings (a)	FY 2027 Billings (a)
LagRate-8	Current Year	304,734,000	351,402,000	86.72%	384,193,000	453,837,000	84.65%	#N/A	#N/A
LagRate-8	First Prior Year	29,918,000	290,685,000	10.29%	36,168,000	351,402,000	10.29%		
LagRate-8	Second Prior Year	5,584,000	273,978,000	2.04%	5,925,000	290,685,000	2.04%		
		340,236,000			426,286,000				

NOT IN USE

(a) Excludes wholesale

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI Test Year 2024 Budget Yr 2023	Ver. 1a
COSWL - Adjusted COS Rates to Account for Lag	P.N. 401641.0100	January 31, 2023 2:40 p.m.	LagRate-10

(1)	(2)	(3)	(4)	(5)
Meter Size inches	Meter Code	Adjustment Factor % LagRate-9	Gen Svc Residential Service Charge $/Bill LagRate-2 x Col. (3)	Discount Residential Service Charge (a) $/Bill LagRate-2 x Col. (3)
5/8	R	106.3%	5.30	4.00
3/4	Z	106.3%	5.81	4.40
1	Q	106.3%	7.27	5.50
1 1/4	Y	106.3%	9.05	6.80
1 1/2	P	106.3%	10.28	7.70
2	X	106.3%	14.65	11.00
3	O	106.3%	23.99	18.00
4	W	106.3%	42.84	32.10
6	N	106.3%	81.39	61.00
8	V	106.3%	125.10	93.80
10	E	106.3%	182.51	136.90
12	T	106.3%	306.82	230.10
14	H	106.3%	329.94	247.50

	Residential Service Charge $/Bill LagRate-2 x Col. (3)	
3/4	9.47	3.66
1	10.93	3.66
1 1/4	12.71	3.66
1 1/2	13.94	3.66
2	18.31	3.66

	First Block 0 - 2 Mcf $/Mcf	Second Block 3 - 100 Mcf $/Mcf	Third Block 101 - 2,000 Mcf $/Mcf	Fourth Block >2,000 Mcf $/Mcf
		LagRate-2 x Column (3)		
Volume Charge				
General Service	61.14	54.93	42.55	41.40
Discount (a)	45.86	41.19	31.91	31.05

Fire Protection Component calculation	
Unit Cost per Month per Equiv 6" Meter	
Extra Capacity Max Day (Retcos-2)	8.74
Extra Capacity Max Hour (Retcos_2)	12.77
Total Unit Cost	21.51
Lag Factor (LagRate-9)	1.063
Adjusted Unit Cost	22.86
2" Equiv Meter Ratio (Capacity)	0.160
Fire Protection Component calculation	3.66

Fire Protection

Connection Size	Monthly Service Charge
Up Through 4	29.04
6	53.81
8	80.97
10	119.07
12	188.23

(a) Discount rate applies to Senior Citizens, and Charities.
A 5% discount applies to the Housing Authority.

Schedule BV-2: Table 4-12

COMPARISON OF TEST YEAR COSTS OF SERVICE AND ADJUSTED COST OF SERVICE WITH REVENUES UNDER EXISTING RATES TEST YEAR 2024

Line No.	Customer Type	(1) Revenue Under Existing Rates (a) $	(2) Allocated Cost of Service $ Retcos-4	(3) Adjusted Cost of Service $ Retcos-4	(4) Indicated Increase (Decrease) Required % (3)/(1) - 1
1	Senior Citizens	5,151,885	7,974,000	6,060,000	17.6%
2	Residential	169,900,488	199,076,000	201,748,000	18.7%
3	Commercial	71,663,828	80,967,000	82,055,000	14.5%
4	Industrial	2,708,368	2,746,000	2,783,000	2.8%
5	Public Utilities	489,405	492,000	499,000	2.0%
6	Subtotal General Service	249,913,974	291,255,000	293,145,000	17.3%
7	Housing Authority	6,554,466	8,314,000	8,004,000	22.1%
8	Charities & Schools	4,297,017	6,332,000	4,813,000	12.0%
9	Hospitals & University	1,628,549	2,448,000	1,861,000	14.3%
10	Hand Billed	18,894,388	25,468,000	25,810,000	36.6%
11	Scheduled (Flat Rate)	3,379	3,000	3,000	-11.2%
12	xxxxxxxxxx	0	0	0	NA
13	xxxxxxxxxx	0	0	0	0.0%
	Fire Protection				
14	Private	4,358,150	5,997,000	6,078,000	39.5%
	Public				
15	Standard Pressure	7,114,000	7,639,000	7,742,000	8.8%
16	High Pressure (b)	0	0	0	NA
17	Subtotal Public Fire Protection	7,114,000	7,639,000	7,742,000	8.8%
18	Subtotal Retail Service	292,763,923	347,456,000	347,456,000	18.7%
19	Bucks County Wholesale Service	0	0	0	0.0%
20	Aqua PA	3,329,398	4,182,000	4,182,000	25.6%
21	Total Wholesale	3,329,398	4,182,000	4,182,000	25.6%
22	Total System	296,093,321	351,638,000	351,638,000	18.8%

(a) Revenue Under Existing Rates calculation:

(b) Reflects gradual decommissioning of the system.

	Fiscal Year Ending June 30							
	2022 Billings $1,000 LagRate-4	2022 Adjusted Billings (1) $1,000	2023 Billings $1,000 LagRate-4	2023 Adjusted Billings (1) $1,000	2024 Billings $1,000 LagRate-4	2024 Adjusted Billings (1) $1,000	2024 Receipts $1,000	
Test Year Revenues under existing rates:		2.04%		10.29%		84.65%		
Senior Citizens	5,177	5,177	5,340	5,340	5,312	5,312	5,152	
Residential	163,641	163,641	172,770	172,770	175,753	175,753	169,900	
Commercial	70,606	70,606	76,745	76,745	73,624	73,624	71,664	
Industrial	3,586	3,586	3,201	3,201	2,724	2,724	2,708	
Public Utilities	437	437	484	484	509	509	489	
Housing Authority	6,382	6,382	6,731	6,731	6,771	6,771	6,554	
Charities & Schools	4,489	4,489	4,565	4,565	4,413	4,413	4,297	
Hospitals & Universities	2,889	2,889	2,196	2,196	1,587	1,587	1,629	
Hand Billed	16,768	16,768	18,650	18,650	19,648	19,648	18,894	
Scheduled (Flat Rate)	2	2	3	3	4	4	3	
xxxxxxxxxx	0	0	0	0	0	0	0	
xxxxxxxxxx	0	0	0	0	0	0	0	No Lag
Public Fire Protection	6,533	6,533	7,114	7,114	7,114	7,114	7,114	No Lag
Private Fire Protection	3,840	3,840	4,042	4,042	4,358	4,358	4,358	No Lag
Subtotal	284,350	284,350	301,841	301,841	301,816	301,816	292,764	
Bucks County	0	0	0	0	0	0	0	0.08333 factor - One month lag
Aqua PA	3,442	3,442	3,310	3,310	3,329	3,329	3,328	0.08333 factor - One month lag
Total	287,792	287,792	305,151	305,151	305,146	305,146	296,092	

(1) Adjusted billings after 2022 reflect an adjustment to General Service billings of 0.00%.

(b) Public high pressure fire system revenue under existing rates is included with standard pressure fire protection.

File: WCOS23_24_ver1.xls	Philadelphia Water Department (PWD)	CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI Test Year 2024	Budget Yr 2023	Ver. 1a
CPRATES - Water & Wastewater Proposed Rates	P.N. 401641.0100	January 31, 2023 2:40 p.m.		LagRate-12

Reference A: Financial Planning Model - Customer
Reference B: SCOS Lagrate-25

FY 2024 PROPOSED RATES FOR GENERAL SERVICE

Service Charges

Meter Size inches	Existing Rates Water $/month LagRate-2	Existing Rates Wastewater $/month REF. A	Existing Rates Total Existing $/month	Proposed Rates Water $/month LagRate-10	Proposed Rates Wastewater $/month REF. B	Proposed Rates Total Proposed $/month
5/8	4.97	7.50	12.47	5.30	7.54	12.84
3/4	5.37	9.57	14.94	5.81	9.62	15.43
1	6.57	14.05	20.62	7.27	14.10	21.37
1 1/4	8.01	19.77	27.78	9.05	19.82	28.87
1 1/2	8.96	24.75	33.71	10.28	24.80	35.08
2	12.59	38.19	50.78	14.65	38.25	52.90
3	20.20	68.87	89.07	23.99	68.97	92.96
4	36.45	117.03	153.48	42.84	117.21	160.05
6	68.70	230.71	299.41	81.39	231.03	312.42
8	104.91	365.13	470.04	125.10	365.58	490.68
10	153.42	526.96	680.38	182.51	527.64	710.15
12	253.19	958.27	1,211.46	306.82	959.14	1,265.96

Quantity Charges

Water Usage		Existing $/Mcf LagRate-2	Proposed $/Mcf LagRate-10
First	2 Mcf	48.96	61.14
Next	98 Mcf	44.99	54.93
Next	1,900 Mcf	34.85	42.55
Over	2,000 Mcf	33.91	41.40
Wastewater Usage			
Per Mcf		34.57	39.61

Surcharge Rates

BOD ($/lb in excess of 250 mg/l)	0.387	0.443
SS ($/lb in excess of 350 mg/l)	0.403	0.452

Schedule BV-2: Table 5-1 and Table 5-2

PROPOSED WATER RATES

Service Charge

Meter Size inches	Monthly Charge $ LagRate-12	FY 2025		FY 2026		FY 2027	
5/8	5.30	5.42	102.26%	#N/A	#N/A	#N/A	#N/A
3/4	5.81	5.96	102.58%	#N/A	#N/A	#N/A	#N/A
1	7.27	7.49	103.03%	#N/A	#N/A	#N/A	#N/A
1 1/4	9.05	9.35	103.31%	#N/A	#N/A	#N/A	#N/A
1 1/2	10.28	10.67	103.79%	#N/A	#N/A	#N/A	#N/A
2	14.65	15.25	104.10%	#N/A	#N/A	#N/A	#N/A
3	23.99	25.10	104.63%	#N/A	#N/A	#N/A	#N/A
4	42.84	44.71	104.37%	#N/A	#N/A	#N/A	#N/A
6	81.39	85.12	104.58%	#N/A	#N/A	#N/A	#N/A
8	125.10	131.01	104.72%	#N/A	#N/A	#N/A	#N/A
10	182.51	191.01	104.66%	#N/A	#N/A	#N/A	#N/A
12	306.82	322.40	105.08%	#N/A	#N/A	#N/A	#N/A

Quantity Charge

Monthly Water Usage		Charge Per Mcf $ LagRate-12						
First	2 Mcf	61.14	66.42	108.64%	#N/A	#N/A	#N/A	#N/A
Next	98 Mcf	54.93	59.72	108.72%	#N/A	#N/A	#N/A	#N/A
Next	1,900 Mcf	42.55	46.27	108.74%	#N/A	#N/A	#N/A	#N/A
Over	2,000 Mcf	41.40	45.03	108.77%	#N/A	#N/A	#N/A	#N/A

Private Fire Service

Size of Meter or Connection:	Monthly Charge $ Rates-3*1.063(LagRate-9)	Prior to Lag Factor Rates-3						
4" or less	29.04	27.32	29.34	101.03%	#N/A	#N/A	#N/A	#N/A
6"	53.81	50.62	54.38	101.06%	#N/A	#N/A	#N/A	#N/A
8"	80.97	76.17	81.81	101.04%	#N/A	#N/A	#N/A	#N/A
10"	119.07	112.01	120.32	101.05%	#N/A	#N/A	#N/A	#N/A
12"	188.23	177.07	190.21	101.05%	#N/A	#N/A	#N/A	#N/A

Public Fire Protection

Standard Pressure:	$7,742,000	Annually	LagRate-11	8,500,000	109.79%	#N/A	#N/A	#N/A	#N/A
High Pressure:	$0	Annually	LagRate-11	0		0		0	

Mcf - thousand cubic feet

NOT IN USE

	(1)	(2)	(3)	(4)	(5)	(6)
	Total Water Service Charges $ LagRate-7	Total Water Volume Charges $ LagRate-7	Total Water Billings $ (1)+(2)	Percent of Total Billings %	Total Water Billings Excluding Senior Citizens $ (1)+(2)	Percent of Total Billings Excluding Senior Citizens %
Senior Citizens	936,000	5,036,000	5,972,000	1.70%	-	0.00%
Residential	27,463,000	174,915,000	202,378,000	57.73%	202,378,000	69.12%
Commercial	4,100,000	82,399,000	86,499,000	24.67%	86,499,000	29.54%
Industrial	120,000	2,497,000	2,617,000	0.75%	2,617,000	0.89%
Public Utilities	40,000	568,000	608,000	0.17%		
Housing Authority	367,000	7,383,000	7,750,000	2.21%		
Charities & Schools	204,000	4,645,000	4,849,000	1.38%		
Hospitals & Universities	13,000	1,296,000	1,309,000	0.37%	1,309,000	0.45%
Hand Billed	125,000	23,368,000	23,493,000	6.70%		
xxxxxxxxxx	0	0	0	0.00%		
Scheduled (Flat Rate)	1,000	5,000	6,000	0.00%		
xxxxxxxxxx	0	0	0	0.00%		
Fire Protection (Private)	7,333,000	0	7,333,000	2.09%		
Fire Protection (Public)	7,742,000	0	7,742,000	2.21%		
	48,444,000	302,112,000	350,556,000		292,803,000	

File: WCOS23_24_ver1.xls | Philadelphia Water Department (PWD) | CONFIDENTIAL: DO NOT DUPLICATE OR DISTRIBUTI | Test Year 2024 | Budget Yr 2023 | Ver. 1a
WSERVCHGS - Components of Water Service Charges | P.N. 401641.0100 | January 31, 2023 2:40 p.m. | LagRate-15

		Equivalent Bills	Equivalent Meters	Equivalent Services	FY 2024 Water Service Charge Billing Costs $	Metering Costs $	Warranty Costs $	Total Costs $	FY 2025 Water Service Charge Billing Costs $	Metering Costs $	Warranty Costs $	Total Costs $	FY 2026 Water Service Charge Billing Costs $	Metering Costs $	Warranty Costs $
Unit Costs	Rates-2				4.0208	0.9685	0.0000								
Units	Rates-2				$/equiv bill	$/equiv mtr/bil	$/equiv srv/bil								
		Units-3	Units-4	Units-4											
5/8 Inch Mete 2024 COS Service Charge		1.0	1.0	1.0	4.0208	0.9685	0.0000		4.0208	0.9685	0.0000		4.0208	0.9685	0.0000
Times Combined Rate Increase and Lag Facto	Calc from LagRate-9 (a)				1.0630	1.0630	1.0630		1.2189	1.2189	1.2189		#N/A	#N/A	#N/A
Adjusted COS Service Charge (Rounded)					4.27	1.03	0.00	5.30	4.24	1.18	0.00	5.42	#N/A	#N/A	#N/A
Times (100%-25%) Charities Discount	Retcos-4				3.21	0.77	0.00	3.98	3.18	0.89	0.00	4.07	#N/A	#N/A	#N/A
3/4 Inch Mete 2024 COS Service Charge		1.0	1.5	1.0	4.0208	1.4528	0.0000		4.0208	1.4528	0.0000		4.0208	1.4528	0.0000
Times Combined Rate Increase and Lag Facto	Calc from LagRate-9				1.0630	1.0630	1.0630		1.2189	1.2189	1.2189		#N/A	#N/A	#N/A
Adjusted COS Service Charge (Rounded)					4.27	1.54	0.00	5.81	4.19	1.77	0.00	5.96	#N/A	#N/A	#N/A
Times (100%-25%) Charities Discount	Retcos-4				3.20	1.16	0.00	4.36	3.14	1.33	0.00	4.47	#N/A	#N/A	#N/A
1 Inch Meter: 2024 COS Service Charge		1.1	2.5	1.1	4.4229	2.4213	0.0000		4.4229	2.4213	0.0000		4.4229	2.4213	0.0000
Times Combined Rate Increase and Lag Facto	Calc from LagRate-9				1.0630	1.0630	1.0630		1.2189	1.2189	1.2189		#N/A	#N/A	#N/A
Adjusted COS Service Charge (Rounded)					4.70	2.57	0.00	7.27	4.54	2.95	0.00	7.49	#N/A	#N/A	#N/A
Times (100%-25%) Charities Discount	Retcos-4				3.52	1.93	0.00	5.45	3.41	2.21	0.00	5.62	#N/A	#N/A	#N/A
1-1/4 Inch Me 2024 COS Service Charge		1.2	3.8	1.2	4.8250	3.6803	0.0000		4.8250	3.6803	0.0000		4.8250	3.6803	0.0000
Times Combined Rate Increase and Lag Facto	Calc from LagRate-9				1.0630	1.0630	1.0630		1.2189	1.2189	1.2189		#N/A	#N/A	#N/A
Adjusted COS Service Charge (Rounded)					5.14	3.91	0.00	9.05	4.86	4.49	0.00	9.35	#N/A	#N/A	#N/A
Times (100%-25%) Charities Discount	Retcos-4				3.86	2.93	0.00	6.79	3.64	3.37	0.00	7.01	#N/A	#N/A	#N/A
1-1/2 Inch Me 2024 COS Service Charge		1.2	5.0	1.2	4.8250	4.8425	0.0000		4.8250	4.8425	0.0000		4.8250	4.8425	0.0000
Times Combined Rate Increase and Lag Facto	Calc from LagRate-9				1.0630	1.0630	1.0630		1.2189	1.2189	1.2189		#N/A	#N/A	#N/A
Adjusted COS Service Charge (Rounded)					5.13	5.15	0.00	10.28	4.77	5.90	0.00	10.67	#N/A	#N/A	#N/A
Times (100%-25%) Charities Discount	Retcos-4				3.85	3.86	0.00	7.71	3.57	4.43	0.00	8.00	#N/A	#N/A	#N/A
2 Inch Meter: 2024 COS Service Charge		1.5	8.0	2.1	6.0312	7.7480	0.0000		6.0312	7.7480	0.0000		6.0312	7.7480	0.0000
Times Combined Rate Increase and Lag Facto	Calc from LagRate-9				1.0630	1.0630	1.0630		1.2189	1.2189	1.2189		#N/A	#N/A	#N/A
Adjusted COS Service Charge (Rounded)					6.41	8.24	0.00	14.65	5.81	9.44	0.00	15.25	#N/A	#N/A	#N/A
Times (100%-25%) Charities Discount	Retcos-4				4.81	6.18	0.00	10.99	4.36	7.08	0.00	11.44	#N/A	#N/A	#N/A
3 Inch Meter: 2024 COS Service Charge		2.0	15.0		8.0416	14.5275	0.0000		8.0416	14.5275	0.0000		8.0416	14.5275	0.0000
Times Combined Rate Increase and Lag Facto	Calc from LagRate-9				1.0630	1.0630	1.0630		1.2189	1.2189	1.2189		#N/A	#N/A	#N/A
Adjusted COS Service Charge (Rounded)					8.55	15.44	0.00	23.99	7.39	17.71	0.00	25.10	#N/A	#N/A	#N/A
Times (100%-25%) Charities Discount	Retcos-4				6.41	11.58	0.00	17.99	5.55	13.28	0.00	18.83	#N/A	#N/A	#N/A
4 Inch Meter: 2024 COS Service Charge		4.0	25.0		16.0832	24.2125	0.0000		16.0832	24.2125	0.0000		16.0832	24.2125	0.0000
Times Combined Rate Increase and Lag Facto	Calc from LagRate-9				1.0630	1.0630	1.0630		1.2189	1.2189	1.2189		#N/A	#N/A	#N/A
Adjusted COS Service Charge (Rounded)					17.10	25.74	0.00	42.84	15.20	29.51	0.00	44.71	#N/A	#N/A	#N/A
Times (100%-25%) Charities Discount	Retcos-4				12.82	19.31	0.00	32.13	11.40	22.13	0.00	33.53	#N/A	#N/A	#N/A
6 Inch Meter: 2024 COS Service Charge		7.0	50.0		28.1456	48.4250	0.0000		28.1456	48.4250	0.0000		28.1456	48.4250	0.0000
Times Combined Rate Increase and Lag Facto	Calc from LagRate-9				1.0630	1.0630	1.0630		1.2189	1.2189	1.2189		#N/A	#N/A	#N/A
Adjusted COS Service Charge (Rounded)					29.91	51.48	0.00	81.39	26.09	59.03	0.00	85.12	#N/A	#N/A	#N/A
Times (100%-25%) Charities Discount	Retcos-4				22.43	38.61	0.00	61.04	19.57	44.27	0.00	63.84	#N/A	#N/A	#N/A
8 Inch Meter: 2024 COS Service Charge		10.0	80.0		40.2080	77.4800	0.0000		40.2080	77.4800	0.0000		40.2080	77.4800	0.0000
Times Combined Rate Increase and Lag Facto	Calc from LagRate-9				1.0630	1.0630	1.0630		1.2189	1.2189	1.2189		#N/A	#N/A	#N/A
Adjusted COS Service Charge (Rounded)					42.74	82.36	0.00	125.10	36.57	94.44	0.00	131.01	#N/A	#N/A	#N/A
Times (100%-25%) Charities Discount	Retcos-4				32.06	61.77	0.00	93.83	27.43	70.83	0.00	98.26	#N/A	#N/A	#N/A
10 Inch Meter 2024 COS Service Charge		15.0	115.0		60.3120	111.3775	0.0000		60.3120	111.3775	0.0000		60.3120	111.3775	0.0000
Times Combined Rate Increase and Lag Facto	Calc from LagRate-9				1.0630	1.0630	1.0630		1.2189	1.2189	1.2189		#N/A	#N/A	#N/A
Adjusted COS Service Charge (Rounded)					64.12	118.39	0.00	182.51	55.25	135.76	0.00	191.01	#N/A	#N/A	#N/A
Times (100%-25%) Charities Discount	Retcos-4				48.09	88.79	0.00	136.88	41.44	101.82	0.00	143.26	#N/A	#N/A	#N/A

NOT IN USE

12 Inch Meter 2024 COS Service Charge		20.0	215.0	80.4160	208.2275	0.0000		80.4160	208.2275	0.0000		80.4160	208.2275	0.0000
Times Combined Rate Increase and Lag Facto	Calc from LagRate-9			1.0630	1.0630	1.0630		1.2189	1.2189	1.2189		#N/A	#N/A	#N/A
Adjusted COS Service Charge (Rounded)				85.47	221.35	0.00	306.82	68.59	253.81	0.00	322.40	#N/A	#N/A	#N/A
Times (100%-25%) Charities Discount	Retcos-4			64.11	166.01	0.00	230.12	51.44	190.36	0.00	241.80	#N/A	#N/A	#N/A

(a) Reference: LagRate-9 106.3000 * 1.1467 = 1.2189

NOT IN USE

Rate Components of Water Service Charges

Black & Veatch	Regular Rates Metering Costs $/bill	Regular Rates Billing Costs $/bill	Regular Rates Warranty Costs $/bill	Regular Rates Total $/bill	Discount Rates Metering Costs $/bill	Discount Rates Billing Costs $/bill	Discount Rates Warranty Costs $/bill	Discount Rates Total $/bill	Reference
FY 2024 Service Charges									
5/8 Inch Meter:	1.03	4.27	0.00	5.30	0.77	3.21	0.00	3.98	LagRate-15
3/4 Inch Meter:	1.54	4.27	0.00	5.81	1.16	3.20	0.00	4.36	LagRate-15
1 Inch Meter:	2.57	4.70	0.00	7.27	1.93	3.52	0.00	5.45	LagRate-15
1-1/4 Inch Meter:	3.91	5.14	0.00	9.05	2.93	3.86	0.00	6.79	LagRate-15
1-1/2 Inch Meter:	5.15	5.13	0.00	10.28	3.86	3.85	0.00	7.71	LagRate-15
2 Inch Meter:	8.24	6.41	0.00	14.65	6.18	4.81	0.00	10.99	LagRate-15
3 Inch Meter:	15.44	8.55	0.00	23.99	11.58	6.41	0.00	17.99	LagRate-15
4 Inch Meter:	25.74	17.10	0.00	42.84	19.31	12.82	0.00	32.13	LagRate-15
6 Inch Meter:	51.48	29.91	0.00	81.39	38.61	22.43	0.00	61.04	LagRate-15
8 Inch Meter:	82.36	42.74	0.00	125.10	61.77	32.06	0.00	93.83	LagRate-15
10 Inch Meter:	118.39	64.12	0.00	182.51	88.79	48.09	0.00	136.88	LagRate-15
12 Inch Meter:	221.35	85.47	0.00	306.82	166.01	64.11	0.00	230.12	LagRate-15
FY 2025 Service Charges									
5/8 Inch Meter:	1.18	4.24	0.00	5.42	0.89	3.18	0.00	4.07	LagRate-15
3/4 Inch Meter:	1.77	4.19	0.00	5.96	1.33	3.14	0.00	4.47	LagRate-15
1 Inch Meter:	2.95	4.54	0.00	7.49	2.21	3.41	0.00	5.62	LagRate-15
1-1/4 Inch Meter:	4.49	4.86	0.00	9.35	3.37	3.64	0.00	7.01	LagRate-15
1-1/2 Inch Meter:	5.90	4.77	0.00	10.67	4.43	3.57	0.00	8.00	LagRate-15
2 Inch Meter:	9.44	5.81	0.00	15.25	7.08	4.36	0.00	11.44	LagRate-15
3 Inch Meter:	17.71	7.39	0.00	25.10	13.28	5.55	0.00	18.83	LagRate-15
4 Inch Meter:	29.51	15.20	0.00	44.71	22.13	11.40	0.00	33.53	LagRate-15
6 Inch Meter:	59.03	26.09	0.00	85.12	44.27	19.57	0.00	63.84	LagRate-15
8 Inch Meter:	94.44	36.57	0.00	131.01	70.83	27.43	0.00	98.26	LagRate-15
10 Inch Meter:	135.76	55.25	0.00	191.01	101.82	41.44	0.00	143.26	LagRate-15
12 Inch Meter:	253.81	68.59	0.00	322.40	190.36	51.44	0.00	241.80	LagRate-15
FY 2026 Service Charges									
5/8 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15
3/4 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15
1 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15
1-1/4 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15
1-1/2 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15
2 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15
3 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15
4 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15
6 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15
8 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15
10 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15
12 Inch Meter:	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	LagRate-15

NOT IN USE