

# KEOUGH + SWEENEY, LTD.

ATTORNEYS AND COUNSELORS AT LAW  
41 MENDON AVENUE  
PAWTUCKET, RHODE ISLAND 02861  
**TELEPHONE** (401) 724-3600  
**FACSIMILE** (401) 724-9909  
www.keoughsweeney.com

RAYNHAM OFFICE:  
90 NEW STATE HIGHWAY  
RAYNHAM, MA 02109  
TEL. (508) 822-2813  
FAX (508) 822-2832

**JOSEPH A. KEOUGH JR.\***  
**JEROME V. SWEENEY III\***

**SEAN P. KEOUGH\***

**JEROME V. SWEENEY II**  
**OF COUNSEL**

\*ADMITTED TO PRACTICE IN  
RHODE ISLAND & MASSACHUSETTS

BOSTON OFFICE:  
171 MILK STREET  
SUITE 30  
BOSTON, MA 02109  
TEL. (617) 574-0054  
FAX (617) 451-1914

April 10, 2019

Ms. Luly Massaro, Clerk  
Rhode Island Public Utilities Commission  
89 Jefferson Boulevard  
Warwick, RI 02888

*Re: City of Newport, Utilities Department, Water Division  
Docket 4933*

Dear Ms. Massaro:

Enclosed please find an original and nine copies of:

1. City of Newport, Utilities Division, Water Department's Supplemental Response to the Division of Public Utilities and Carrier's Data Request (Set 1, Request 1).

Thank you for your attention to this matter.

Sincerely,



Joseph A. Keough, Jr.

Enclosure

cc: Docket 4933 Service List (*via electronic mail*)

STATE OF RHODE ISLAND  
PUBLIC UTILITIES COMMISSION  
DOCKET NO. 4933  
Supplemental Response Of The City Of Newport,  
Utilities Division, Water Department  
To The State of Rhode Island  
Division Of Public Utilities And Carriers'  
Data Requests  
Set 1

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**DIV. 1-1:** Please provide the schedules of Harold Smith, HJS Schedule A-1A through HJS Schedule D-17, in Excel format.

**Response:** The schedules will be provided electronically in a file entitled "Newport COS Model FINAL for Filing.xlsx."

**Supplemental**

**Response:** The Excel file, "Newport COS Model Dkt. 4933 Supplemental.xlsx" submitted with this supplemental response (also attached as a PDF file), is a revised version of the cost of service model originally submitted in this Docket 4933 and the Excel file entitled "Newport COS Model FINAL for Filing.xlsx" that was produced in response to Div. 1-1. The model was revised to correct two errors that were noted during the preparation of responses to data requests.

First, as mentioned in Newport's response to Division Data Request 1-4, an incorrect value for the Navy's average day demand was used in the original model. This error has been corrected in HJS Schedule D-6 in the attached model. This change resulted in a slight increase in the amount of Max Day and Max Hour costs allocated to Newport's retail classes and a slight decrease in the Max Day and Max Hour costs allocated to the Navy.

Second, during the preparation of the response to Division Data Request 3-1, it was found that the plant production data for FY16 through FY18 was incorrect. This error resulted in an understatement of the three-year average of the percent of unbilled water on HJS Schedule D-4, and also a very slight understatement of Max Day and Max Hour Capacity factors for Newport's retail customer classes shown on HJS Schedule D-6.

The percent of unbilled water is used in the allocation of responsibility for the cost of unbilled water that is shown on HJS Schedule B-9. This correction results in a larger portion of the base costs being allocated to Newport's retail classes. Also, due to the resulting change in the retail classes' Max Day and Max Hour Capacity factors, Newport's retail classes are allocated a larger share of Newport's Max Day and Max Hour costs.

STATE OF RHODE ISLAND  
PUBLIC UTILITIES COMMISSION  
DOCKET NO. 4933  
Supplemental Response Of The City Of Newport,  
Utilities Division, Water Department  
To The State of Rhode Island  
Division Of Public Utilities And Carriers'  
Data Requests  
Set 1

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These two corrections to the original COS model result in approximately 63% of Newport's costs being allocated for recovery through volume charges for the retail classes as opposed to 62% in the original model. As shown on HJS Schedules A-2A and A-2B, this change in cost allocation causes the volume rates for Newport's retail classes to increase slightly while the volume rates for the Navy and PWFD decrease slightly. Additionally, both public and private fire protection charges decrease slightly.

**Prepared by:** Harold Smith

## Docket XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing

## Index of Model Schedules

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HJS Schedule A-2B	<a href="#">Multi-Year Rate Plan</a>
HJS Schedule A-3A	<a href="#">Bill Impacts</a>
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HJS Schedule A-4	<a href="#">Revenue Proof</a>

**COS Model Schedules**

HJS Schedule B-1	<a href="#">Base Extra Capacity Cost Allocations</a>
HJS Schedule B-2	<a href="#">Allocation of Costs to Water Rate Classes</a>
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**Supporting Data**

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Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule A-1A  
Revenue Requirements

## Docket XXXX

Account

**O&M COSTS****Administration**

	<b>Docket 4595</b>	<b>Test Year (FY2018)</b>	<b>Test Year Normalizing Adjustments</b>	<b>Normalized Test Year</b>	<b>Rate Year Adjustments</b>	<b>Proposed Rate Year - FY2020</b>
50001 Salaries & Wages	\$ 281,582	\$ 286,942	\$ -	\$ 286,942	\$ 10,975	\$ 297,917
AFSCME retro	-	-	\$ -	\$ -	\$ -	-
NEA retro	-	-	\$ -	\$ -	\$ -	-
AFSCME benefits on retro pay	-	-	\$ -	\$ -	\$ -	-
NEA benefits on retro pay	-	-	\$ -	\$ -	\$ -	-
50044 Standby Salaries	18,720	18,857	\$ -	\$ 18,857	\$ (137)	18,720
50520 Accrued Benefits Buyout	-	-	\$ -	\$ -	\$ -	-
50100 Employee Benefits	115,683	139,015	\$ -	\$ 139,015	\$ (1,371)	137,644
50103 Retiree Insurance Coverage	265,000	372,907	\$ -	\$ 372,907	\$ 13,877	386,784
50105 Workers Compensation	64,000	78,304	\$ -	\$ 78,304	\$ (20,919)	57,385
50175 Annual Leave Buyback	3,300	3,750	\$ -	\$ 3,750	\$ (1,250)	2,500
50207 Advertisement	9,000	2,481	\$ -	\$ 2,481	\$ 6,519	9,000
50210 Membership Dues & Subscriptions	2,500	4,532	\$ -	\$ 4,532	\$ 523	5,055
50212 Conferences & Training	4,000	410	\$ 3,590	\$ 4,000	\$ -	4,000
50214 Tuition Reimbursement	2,000	-	\$ -	\$ -	\$ 2,000	2,000
50220 Consultant Fees	136,878	14,275	\$ -	\$ 14,275	\$ 237,350	251,625
50238 Postage	1,000	941	\$ -	\$ 941	\$ 59	1,000
50239 Fire & Liability Insurance	67,000	78,689	\$ -	\$ 78,689	\$ (42,189)	36,500
50251 Telephone & Communication	5,600	10,808	\$ -	\$ 10,808	\$ (208)	10,600
50305 Water	2,015	1,725	\$ -	\$ 1,725	\$ 75	1,800
50306 Electricity	7,956	7,293	\$ -	\$ 7,293	\$ (343)	6,950
50307 Natural Gas	5,226	5,504	\$ -	\$ 5,504	\$ (379)	5,125
50308 Property Taxes	567,770	535,316	\$ -	\$ 535,316	\$ 22,146	557,462
50266 Legal & Administrative			\$ -	\$ -	\$ -	-
Audit Fees	4,511	4,511	\$ -	\$ 4,511	\$ 433	4,944
OPEB Contribution	27,648	27,648	\$ -	\$ 27,648	\$ 3,840	31,488
City Council	3,155	3,155	\$ -	\$ 3,155	\$ 788	3,943
City Clerk	4,409	4,409	\$ -	\$ 4,409	\$ 128	4,537
City Manager	88,016	88,016	\$ -	\$ 88,016	\$ (11,396)	76,621
Human Resources	5,926	5,926	\$ -	\$ 5,926	\$ 267	6,193
City Solicitor	26,096	26,096	\$ -	\$ 26,096	\$ 11,022	37,118
Finance Administrative 50%	31,570	31,570	\$ -	\$ 31,570	\$ (5,358)	26,212
Finance Administrative 5%	3,201	3,201	\$ -	\$ 3,201	\$ 162	3,363
Finance Admin 10% Inv/Debt	14,359	14,359	\$ -	\$ 14,359	\$ (2,551)	11,809
Purchasing	20,603	20,603	\$ -	\$ 20,603	\$ 1,802	22,404
Collections	44,183	44,183	\$ -	\$ 44,183	\$ (19,355)	24,828
Accounting - Wires - 5%	9,456	9,456	\$ -	\$ 9,456	\$ (307)	9,149
Accounting	50,716	50,716	\$ -	\$ 50,716	\$ 14,988	65,704
50267 Data Processing	231,161	231,161	\$ -	\$ 231,161	\$ 112,014	343,175
50268 Mileage Allowance	2,000	392	\$ -	\$ 392	\$ 1,608	2,000
50271 Gasoline & Vehicle Allowance	5,389	10,723	\$ -	\$ 10,723	\$ (4,313)	6,410
50275 Repairs & Maintenance	1,200	-	\$ -	\$ -	\$ 1,000	1,000
50280 Regulatory Expense	5,000	906	\$ -	\$ 906	\$ 594	1,500
50281 Regulatory Assessment	80,000	112,456	\$ -	\$ 112,456	\$ 21,044	133,500
50361 Office Supplies	15,000	10,136	\$ 1,864	\$ 12,000	\$ (155)	11,845
50505 Self Insurance	5,000	2,584	\$ -	\$ 2,584	\$ 2,416	5,000
50515 Unemployment Claims	-	-	\$ -	\$ -	\$ -	-
<b>Subtotal:</b>	<b>\$ 2,237,828</b>	<b>\$ 2,263,955</b>	<b>\$ 5,454</b>	<b>\$ 2,269,409</b>	<b>\$ 355,400</b>	<b>\$ 2,624,809</b>

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule A-1A  
Revenue Requirements

## Docket XXXX

Account	Docket 4595	Test Year (FY2018)	Test Year Normalizing Adjustments	Normalized Test Year	Rate Year Adjustments	Proposed Rate Year - FY2020
<b>Customer Service</b>						
50001 Salaries & Wages	\$ 309,310	\$ 291,674	\$ -	\$ 291,674	\$ 41,740	\$ 333,414
50002 Overtime	5,409	2,611	\$ -	\$ 2,611	\$ 89	2,700
Collections	-	-	\$ -	\$ -	\$ -	-
50004 Temp Salaries	14,976	-	\$ -	\$ -	\$ -	-
50056 Injury Pay	-	-	\$ -	\$ -	\$ -	-
50100 Employee Benefits	186,231	173,340	\$ -	\$ 173,340	\$ 62,193	235,533
50120 Bank Fees (lock box)	16,800	13,298	\$ -	\$ 13,298	\$ 1,102	14,400
50175 Annual Leave Buyback	4,500	2,526	\$ -	\$ 2,526	\$ 1,624	4,150
50205 Copying & binding	500	532	\$ -	\$ 532	\$ 68	600
50212 Conferences & Training	5,000	840	\$ 4,160	\$ 5,000	\$ (2,000)	3,000
50225 Support Services	26,175	19,252	\$ -	\$ 19,252	\$ 32,363	51,615
50238 Postage	74,680	62,307	\$ -	\$ 62,307	\$ 1,893	64,200
50271 Gasoline & Vehicle Allowance	26,945	30,831	\$ -	\$ 30,831	\$ 1,219	32,050
50275 Repairs & Maintenance	35,000	22,708	\$ -	\$ 22,708	\$ 12,292	35,000
50299 Meter Maintenance	10,000	7,696	\$ -	\$ 7,696	\$ 2,304	10,000
50311 Operating Supplies	5,000	7,924	\$ (2,924)	\$ 5,000	\$ -	5,000
50320 Uniforms & protective Gear	1,000	-	\$ -	\$ -	\$ 2,450	2,450
50380 Customer Service Supplies	5,000	1,951	\$ -	\$ 1,951	\$ 1,049	3,000
<b>Subtotal:</b>	<b>\$ 726,526</b>	<b>\$ 637,490</b>	<b>\$ 1,236</b>	<b>\$ 638,726</b>	<b>\$ 158,386</b>	<b>\$ 797,112</b>
<b>Source of Supply - Island</b>						
50001 Salaries & Wages	\$ 309,950	\$ 297,103	\$ -	\$ 297,103	\$ 15,551	\$ 312,654
50002 Overtime	33,000	27,936	\$ -	\$ 27,936	\$ (2,936)	25,000
50004 Temp Salaries	26,180	20,270	\$ -	\$ 20,270	\$ 2,530	22,800
50056 Injury Pay	-	-	\$ -	\$ -	\$ -	-
50100 Employee Benefits	174,277	175,319	\$ -	\$ 175,319	\$ 36,871	212,190
50175 Annual Leave Buyback	3,800	-	\$ -	\$ -	\$ 1,700	1,700
50306 Electricity	49,880	42,593	\$ -	\$ 42,593	\$ (3,804)	38,789
50271 Gas/Vehicle Maintenance	59,279	57,957	\$ -	\$ 57,957	\$ 12,553	70,510
50275 Repairs & Maintenance	10,000	11,086	\$ -	\$ 11,086	\$ 2,914	14,000
50277 Reservoir Maintenance	16,000	21,424	\$ -	\$ 21,424	\$ 3,576	25,000
50311 Operating Supplies	7,500	9,251	\$ (1,751)	\$ 7,500	\$ (800)	6,700
50320 Uniforms & protective Gear	1,510	238	\$ -	\$ 238	\$ 1,762	2,000
50335 Chemicals	66,800	61,200	\$ -	\$ 61,200	\$ 33,600	94,800
<b>Subtotal:</b>	<b>\$ 758,176</b>	<b>\$ 724,377</b>	<b>\$ (1,751)</b>	<b>\$ 722,626</b>	<b>\$ 103,517</b>	<b>\$ 826,143</b>
<b>Source of Supply - Mainland</b>						
50002 Overtime	\$ 11,610	\$ 5,023	\$ -	\$ 5,023	\$ (1,023)	\$ 4,000
50004 Temp Salaries	29,996	21,106	\$ -	\$ 21,106	\$ 5,894	27,000
50005 Permanent Part time	12,900	6,040	\$ -	\$ 6,040	\$ 6,860	12,900
50100 Employee Benefits	2,525	2,461	\$ -	\$ 2,461	\$ 897	3,358
50306 Electricity	154,424	149,593	\$ -	\$ 149,593	\$ 11,197	160,790
50275 Repairs & Maintenance	7,000	18,462	\$ -	\$ 18,462	\$ (1,462)	17,000
50277 Reservoir Maintenance	4,500	4,199	\$ -	\$ 4,199	\$ 7,801	12,000
50311 Operating Supplies	1,000	178	\$ 822	\$ 1,000	\$ (500)	500
<b>Subtotal:</b>	<b>\$ 223,955</b>	<b>\$ 207,062</b>	<b>\$ 822</b>	<b>\$ 207,884</b>	<b>\$ 29,664</b>	<b>\$ 237,548</b>

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule A-1A  
Revenue Requirements

## Docket XXXX

Account		Docket 4595	Test Year (FY2018)	Test Year Normalizing Adjustments	Normalized Test Year	Rate Year Adjustments	Proposed Rate Year - FY2020
<b>Station One</b>							
50001	Salaries & Wages	\$511,075	\$ 561,329	\$ -	\$ 561,329	\$ (48,284)	\$ 513,045
50002	Overtime	102,940	91,625	\$ -	91,625	(3,125)	88,500
50003	Holiday Pay	22,032	20,686	\$ -	20,686	1,095	21,781
50045	Lead Plant Operator Stipend	12,480	11,240	\$ -	11,240	1,240	12,480
50100	Employee Benefits	\$263,937	280,974	\$ -	280,974	14,656	295,630
50175	Annual Leave Buyback	12,000	9,645	\$ -	9,645	1,955	11,600
50212	Conferences & Training	4,500	2,190	\$ 2,310	4,500	-	4,500
50239	Fire & Liability Insurance	35,000	28,331	\$ -	28,331	36,434	64,765
50306	Electricity	\$212,484	223,249	\$ -	223,249	2,936	226,185
50307	Natural Gas	43,410	32,402	\$ -	32,402	(14,562)	17,840
50260	Rental of Equipment	1,000	1,854	\$ -	1,854	(854)	1,000
50305	Sewer Charge	204,000	99,180	\$ -	99,180	19,720	118,900
50271	Gas/Vehicle Maintenance	5,389	7,050	\$ -	7,050	(640)	6,410
50275	Repairs & Maintenance	\$66,992	33,512	\$ -	33,512	21,488	55,000
50311	Operating Supplies	\$17,161	119	\$17,042	17,161	(2,161)	15,000
50320	Uniforms & protective Gear	1,426	835	\$ -	835	2,790	3,625
50335	Chemicals	366,315	242,583	\$ -	242,583	188,637	431,220
<b>Subtotal:</b>		<b>\$ 1,882,141</b>	<b>\$ 1,646,804</b>	<b>\$ 19,352</b>	<b>\$ 1,666,156</b>	<b>\$ 221,326</b>	<b>\$ 1,887,482</b>
<b>Lawton Valley</b>							
50001	Salaries & Wages	\$498,541	\$ 528,608	\$ -	\$ 528,608	\$ 2,434	\$ 531,042
50002	Overtime	98,903	102,478	\$ -	102,478	8,272	110,750
50003	Holiday Pay	19,992	19,772	\$ -	19,772	(157)	19,615
50045	Lead Plant Operator Stipend	12,480	4,176	\$ -	4,176	8,304	12,480
50100	Employee Benefits	\$278,234	309,454	\$ -	309,454	25,090	334,544
50175	Annual Leave Buyback	7,400	9,724	\$ -	9,724	(224)	9,500
50212	Conferences & Training	4,120	2,495	\$ 1,625	4,120	-	4,120
50239	Fire & Liability Insurance	54,000	61,505	\$ -	61,505	(1,180)	60,325
50306	Electricity	\$375,091	289,647	\$ -	289,647	12,008	301,655
50307	Natural Gas	34,663	25,950	\$ -	25,950	245	26,195
50260	Rental of Equipment	1,000	322	\$ -	322	678	1,000
50305	Sewer Charge	510,000	437,731	\$ -	437,731	38,894	476,625
50271	Gas/Vehicle Maintenance	5,389	5,678	\$ -	5,678	732	6,410
50275	Repairs & Maintenance	\$61,556	55,359	\$ -	55,359	9,641	65,000
50311	Operating Supplies	\$13,311	2,747	\$10,564	13,311	(11)	13,300
50320	Uniforms & protective Gear	1,303	835	\$ -	835	2,765	3,600
50335	Chemicals	328,667	332,292	\$ -	332,292	136,644	468,936
<b>Subtotal:</b>		<b>\$ 2,304,651</b>	<b>\$ 2,188,773</b>	<b>\$ 12,189</b>	<b>\$ 2,200,962</b>	<b>\$ 244,135</b>	<b>\$ 2,445,097</b>
<b>Laboratory</b>							
50001	Salaries & Wages	\$ 121,179	\$ 105,565	\$ -	\$ 105,565	\$ 38,398	\$ 143,963
50100	Employee Benefits	55,194	56,521	\$ -	56,521	30,253	86,774
50175	Annual Leave Buyback	1,500	4,210	\$ -	4,210	40	4,250
50275	Repairs & Maintenance	1,700	995	\$ -	995	5,205	6,200
50281	Regulatory Assessment	47,024	58,270	\$ -	58,270	25,430	83,700
50339	Laboratory Supplies	35,627	21,104	\$ -	21,104	33,896	55,000
<b>Subtotal:</b>		<b>\$ 262,224</b>	<b>\$ 246,665</b>	<b>\$ -</b>	<b>\$ 246,665</b>	<b>\$ 133,222</b>	<b>\$ 379,887</b>

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule A-1A  
Revenue Requirements

## Docket XXXX

Account

**Transmission & Distribution**

	<b>Docket 4595</b>	<b>Test Year (FY2018)</b>	<b>Test Year Normalizing Adjustments</b>	<b>Normalized Test Year</b>	<b>Rate Year Adjustments</b>	<b>Proposed Rate Year - FY2020</b>
50001 Salaries & Wages	\$ 515,219	\$ 463,664	\$ -	\$ 463,664	\$ 57,785	\$ 521,449
50002 Overtime	52,364	43,341	\$ -	43,341	3,159	46,500
50004 Temp Salaries	26,180	22,256	\$ -	22,256	544	22,800
50056 Injury Pay	-	-	\$ -	-	-	-
50100 Employee Benefits	312,306	231,379	\$ -	231,379	71,458	302,837
50175 Annual Leave Buyback	7,500	2,722	\$ -	2,722	3,278	6,000
50212 Conferences & Training	4,000	1,200	\$ 2,800	4,000	-	4,000
50225 Contract Services	21,525	10,316	\$ -	10,316	1,554	11,870
50239 Fire & Liability Insurance	12,000	9,664	\$ -	9,664	1,246	10,910
50306 Electricity	20,607	16,922	\$ -	16,922	3,578	20,500
50260 Heavy Equipment Rental	8,260	246	\$ -	246	8,754	9,000
50271 Gas/Vehicle Maintenance	70,057	93,121	\$ -	93,121	(9,791)	83,330
50275 Repairs & Maintenance	26,000	18,687	\$ -	18,687	1,513	20,200
50276 Main Maintenance	91,200	84,145	\$ -	84,145	(18,145)	66,000
50296 Service Maintenance	30,000	27,194	\$ -	27,194	2,806	30,000
50311 Operating Supplies	8,000	10,014	\$ -	10,014	(2,014)	8,000
50320 Uniforms & protective Gear	4,000	1,173	\$ -	1,173	2,827	4,000
<b>Subtotal:</b>	<b>\$ 1,209,218</b>	<b>\$ 1,036,044</b>	<b>\$ 2,800</b>	<b>\$ 1,038,844</b>	<b>\$ 128,552</b>	<b>\$ 1,167,396</b>

**Fire Protection**

50275 Repair & Maintenance - Equipment	\$ 23,800	\$ 7,739	\$ 16,061	\$ 23,800	\$ 7,500	\$ 31,300
<b>Subtotal:</b>	<b>\$ 23,800</b>	<b>\$ 7,739</b>	<b>\$ 16,061</b>	<b>\$ 23,800</b>	<b>\$ 7,500</b>	<b>\$ 31,300</b>

<b>Total O&amp;M Costs</b>	<b>\$ 9,628,521</b>	<b>\$ 8,958,909</b>	<b>\$ 56,163</b>	<b>\$ 9,015,072</b>	<b>\$ 1,381,702</b>	<b>\$ 10,396,774</b>
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Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule A-1A  
Revenue Requirements

## Docket XXXX

Account

**CAPITAL COSTS**

Contribution to Capital Spending Acct.

Contribution to Debt Service Acct.

**Total Capital Costs****Operating Revenue Allowance****Total Costs before Offsets****OFFSETS****Nonrate Revenues**

Sundry charges

WPC cost share on customer service

Middletown cost share on customer service

Rental of Property

Water Penalty

Miscellaneous\*

Investment Interest Income

Water Quality Protection Fees

**Total Nonrate Revenues****Net Costs to Be Recovered through Rates**

	Docket 4595	Test Year (FY2018)	Test Year Normalizing Adjustments	Normalized Test Year	Rate Year Adjustments	Proposed Rate Year - FY2020
\$ 2,500,000	\$ 2,500,000	\$ 2,508,830	\$ -	\$ 2,508,830	\$ (8,830)	\$ 2,500,000
\$6,811,000	\$6,811,000	\$6,810,996	\$ -	\$6,810,996	\$ (27,801)	\$ 6,783,195
<b>\$ 9,311,000</b>	<b>\$ 9,311,000</b>	<b>\$ 9,319,826</b>	<b>\$ -</b>	<b>\$ 9,319,826</b>	<b>\$ (36,631)</b>	<b>\$ 9,283,195</b>
<b>Operating Revenue Allowance</b>	\$ 144,428	\$ 268,767	\$ (1,469)	\$ 267,298	\$ (111,346)	\$ 155,952
<b>Total Costs before Offsets</b>	<b>\$ 19,083,948</b>	<b>\$ 18,547,503</b>	<b>\$ 54,694</b>	<b>\$ 18,602,196</b>	<b>\$ 1,233,725</b>	<b>\$ 19,835,921</b>
<b>OFFSETS</b>						
<b>Nonrate Revenues</b>						
Sundry charges	\$ 126,250	\$ 152,508	\$ -	\$ 152,508	\$ (19,508)	\$ 133,000
WPC cost share on customer service	330,000	331,646	\$ -	331,646	\$ (1,646)	330,000
Middletown cost share on customer service	167,000	166,727	\$ -	166,727	\$ (727)	166,000
Rental of Property	95,200	92,371	\$ -	92,371	\$ (2,371)	90,000
Water Penalty	51,200	48,776	\$ -	48,776	\$ 1,224	50,000
Miscellaneous*	242,251	-	\$ -	-	\$ 11,300	11,300
Investment Interest Income	1,250	24,842	\$ -	24,842	\$ (4,842)	20,000
Water Quality Protection Fees	22,250	20,751	\$ -	20,751	\$ 249	21,000
<b>Total Nonrate Revenues</b>	<b>\$ 1,035,401</b>	<b>\$ 837,621</b>	<b>\$ -</b>	<b>\$ 837,621</b>	<b>\$ (16,321)</b>	<b>\$ 821,300</b>
<b>Net Costs to Be Recovered through Rates</b>	<b>\$ 18,048,547</b>	<b>\$ 17,709,882</b>	<b>\$ 54,694</b>	<b>\$ 17,764,575</b>	<b>\$ 1,250,046</b>	<b>\$ 19,014,621</b>

\* In Docket 4595 the transfer from restricted accounts to mitigate rate increase was included in this line item.

Rhode Island Public Utilities Commission  
Docket XXXX  
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Revenue Requirements by Account

		Test Year	Test Year	Normalized	Rate Year	Proposed
		Test Year	Normalizing	Test Year	Adjustments	Rate Year -
		(FY2018)	Adjustments			FY2020
50001	Salaries & Wages	\$ 2,534,885	\$ -	\$2,534,885	\$ 118,599	\$ 2,653,484
50002	Overtime	\$ 273,014	\$ -	\$ 273,014	\$ 4,436	\$ 277,450
50003	Holiday Pay	\$ 40,458	\$ -	\$ 40,458	\$ 939	\$ 41,397
50004	Temp Salaries	\$ 63,632	\$ -	\$ 63,632	\$ 8,968	\$ 72,600
50005	Permanent Part time	\$ 6,040	\$ -	\$ 6,040	\$ 6,860	\$ 12,900
50044	Standby Salaries	\$ 18,857	\$ -	\$ 18,857	\$ (137)	\$ 18,720
50045	Lead Plant Operator Stipend	\$ 15,416	\$ -	\$ 15,416	\$ 9,544	\$ 24,960
50056	Injury Pay	\$ -	\$ -	\$ -	\$ -	\$ -
50100	Employee Benefits	\$ 1,368,463	\$ -	\$1,368,463	\$ 240,047	\$ 1,608,510
50103	Retiree Insurance Coverage	\$ 372,907	\$ -	\$ 372,907	\$ 13,877	\$ 386,784
50105	Workers Compensation	\$ 78,304	\$ -	\$ 78,304	\$ (20,919)	\$ 57,385
50120	Bank Fees (lock box)	\$ 13,298	\$ -	\$ 13,298	\$ 1,102	\$ 14,400
50175	Annual Leave Buyback	\$ 32,577	\$ -	\$ 32,577	\$ 7,123	\$ 39,700
50205	Copying & binding	\$ 532	\$ -	\$ 532	\$ 68	\$ 600
50207	Advertisement	\$ 2,481	\$ -	\$ 2,481	\$ 6,519	\$ 9,000
50210	Membership Dues & Subscriptions	\$ 4,532	\$ -	\$ 4,532	\$ 523	\$ 5,055
50212	Conferences & Training	\$ 7,135	\$ 14,485	\$ 21,620	\$ (2,000)	\$ 19,620
50214	Tuition Reimbursement	\$ -	\$ -	\$ -	\$ 2,000	\$ 2,000
50220	Consultant Fees	\$ 14,275	\$ -	\$ 14,275	\$ 237,350	\$ 251,625
50225	Support Services/Contract Services	\$ 29,568	\$ -	\$ 29,568	\$ 33,917	\$ 63,485
50238	Postage	\$ 63,248	\$ -	\$ 63,248	\$ 1,952	\$ 65,200
50239	Fire & Liability Insurance	\$ 178,189	\$ -	\$ 178,189	\$ (5,689)	\$ 172,500
50251	Telephone & Communication	\$ 10,808	\$ -	\$ 10,808	\$ (208)	\$ 10,600
50260	Rental of Equipment	\$ 2,422	\$ -	\$ 2,422	\$ 8,578	\$ 11,000
50266	Legal & Administrative	\$ 333,848	\$ -	\$ 333,848	\$ (5,536)	\$ 328,312
50267	Data Processing	\$ 231,161	\$ -	\$ 231,161	\$ 112,014	\$ 343,175
50268	Mileage Allowance	\$ 392	\$ -	\$ 392	\$ 1,608	\$ 2,000
50271	Gasoline & Vehicle Allowance	\$ 205,360	\$ -	\$ 205,360	\$ (240)	\$ 205,120
50275	Repairs & Maintenance	\$ 168,548	\$ 16,061	\$ 184,609	\$ 60,091	\$ 244,700
50276	Main Maintenance	\$ 84,145	\$ -	\$ 84,145	\$ (18,145)	\$ 66,000
50277	Reservoir Maintenance	\$ 25,623	\$ -	\$ 25,623	\$ 11,377	\$ 37,000
50280	Regulatory Expense	\$ 906	\$ -	\$ 906	\$ 594	\$ 1,500
50281	Regulatory Assessment	\$ 170,726	\$ -	\$ 170,726	\$ 46,474	\$ 217,200
50296	Service Maintenance	\$ 27,194	\$ -	\$ 27,194	\$ 2,806	\$ 30,000
50299	Meter Maintenance	\$ 7,696	\$ -	\$ 7,696	\$ 2,304	\$ 10,000
50305	Water/Sewer Charge	\$ 538,636	\$ -	\$ 538,636	\$ 58,689	\$ 597,325
50306	Electricity	\$ 729,297	\$ -	\$ 729,297	\$ 25,572	\$ 754,869
50307	Natural Gas	\$ 63,856	\$ -	\$ 63,856	\$ (14,696)	\$ 49,160
50308	Property Taxes	\$ 535,316	\$ -	\$ 535,316	\$ 22,146	\$ 557,462
50311	Operating Supplies	\$ 30,233	\$ 23,753	\$ 53,986	\$ (5,486)	\$ 48,500
50320	Uniforms & protective Gear	\$ 3,081	\$ -	\$ 3,081	\$ 12,594	\$ 15,675
50335	Chemicals	\$ 636,075	\$ -	\$ 636,075	\$ 358,881	\$ 994,956
50339	Laboratory Supplies	\$ 21,104	\$ -	\$ 21,104	\$ 33,896	\$ 55,000
50361	Office Supplies	\$ 10,136	\$ 1,864	\$ 12,000	\$ (155)	\$ 11,845
50380	Customer Service Supplies	\$ 1,951	\$ -	\$ 1,951	\$ 1,049	\$ 3,000
50505	Self Insurance	\$ 2,584	\$ -	\$ 2,584	\$ 2,416	\$ 5,000
50515	Unemployment Claims	\$ -	\$ -	\$ -	\$ -	\$ -
50520	Accrued Benefits Buyout	\$ -	\$ -	\$ -	\$ -	\$ -
60001	Hydrant Maintenance	\$ -	\$ -	\$ -	\$ -	\$ -
		<b>8,958,909</b>	<b>56,163</b>	<b>9,015,072</b>	<b>1,381,702</b>	<b>10,396,774</b>

## Docket XXXX

Rhode Island Public Utilities Commission

Docket XXXX

FY 2020 Rate Filing

HJS Schedule A-2A

Cost of Service Rates and Charges

		<b>Docket 4595 Rates</b>	<b>Cost of Service</b>	<b>Proposed Rates</b>	<b>% Change</b>	<b>Projected Revenues</b>
<b>Base Charge (per bill)</b>						
Monthly						
5/8	\$	5.02	\$ 5.7536	\$ <b>5.76</b>	15%	\$741,036
3/4	\$	5.27	6.0237	<b>6.03</b>	14%	183,360
1	\$	7.03	7.9507	<b>7.96</b>	13%	54,542
1.5	\$	11.33	12.6274	<b>12.63</b>	11%	58,047
2	\$	15.86	17.5724	<b>17.58</b>	11%	53,795
3	\$	41.71	45.8282	<b>45.83</b>	10%	32,998
4	\$	49.12	53.9323	<b>53.94</b>	10%	9,709
5	\$	58.99	64.7379	<b>64.74</b>	10%	0
6	\$	66.40	72.8421	<b>72.85</b>	10%	29,723
8	\$	86.15	94.4532	<b>94.46</b>	10%	4,534
10	\$	121.95	133.6234	<b>133.63</b>	10%	3,207
Portsmouth Base Charge (4")	\$	1.36	1.7539	<b>1.76</b>	29%	21
						1,170,972
<b>Volume Charge (per 1,000 gallons)</b>						
Retail						
Residential	\$	10.02	\$ 11.2334	\$ <b>11.24</b>	12%	6,810,316
Non-Residential	\$	11.22	\$ 11.6842	\$ <b>11.69</b>	4%	5,165,811
						\$ 11,976,127
Wholesale						
Navy	\$	6.5190	\$ 8.1735	\$ <b>8.1736</b>	25%	1,540,724
Portsmouth Water & Fire District	\$	5.2920	\$ 7.0782	\$ <b>7.0782</b>	34%	2,547,444
						\$ 4,088,168
<b>Fire Protection</b>						
Public (per hydrant)	\$	944.22	\$ 1,213.24	\$ <b>1,213.24</b>	28%	\$ 1,264,196
Private (by Connection Size)						
Connection Size	Existing Charge					
<2		\$33.26	\$ 38.56	\$ <b>38.56</b>	16%	
2	6.19	\$139.26	\$ 161.44	\$ <b>161.44</b>	16%	-
4	38.32	\$468.22	\$ 569.42	\$ <b>569.43</b>	22%	44,985
6	111.31	\$1,055.81	\$ 1,322.52	\$ <b>1,322.52</b>	25%	313,437
8	237.21	\$2,069.28	\$ 2,621.45	\$ <b>2,621.46</b>	27%	141,559
10	426.58	\$3,593.75	\$ 4,575.32	\$ <b>4,575.32</b>	27%	22,877
12	689.04	\$5,706.61	\$ 7,283.30	\$ <b>7,283.31</b>	28%	-
						\$ 522,858
<b>Total Projected Rate Revenues</b>						<b>\$ 19,022,320</b>

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Multi-Year Rate Plan

Rates and Charges	Current Rates	Rate Year		Future Year	
		Proposed FY 2020	% Increase	Proposed FY 2022	% Increase
Billing Charge (per bill)					
5/8	\$ 5.02	\$ 5.76	15%	\$ 5.91	3%
3/4	\$ 5.27	\$ 6.03	14%	\$ 6.19	3%
1	\$ 7.03	\$ 7.96	13%	\$ 8.19	3%
1.5	\$ 11.33	\$ 12.63	11%	\$ 13.03	3%
2	\$ 15.86	\$ 17.58	11%	\$ 18.16	3%
3	\$ 41.71	\$ 45.83	10%	\$ 47.43	3%
4	\$ 49.12	\$ 53.94	10%	\$ 55.83	4%
5	\$ 58.99	\$ 64.74	10%	\$ 67.03	4%
6	\$ 66.40	\$ 72.85	10%	\$ 75.42	4%
8	\$ 86.15	\$ 94.46	10%	\$ 97.81	4%
10	\$ 121.95	\$ 133.63	10%	\$ 138.40	4%
Portsmouth Base Charge (4")	\$ 1.36	\$ 1.76	29%	\$ 1.77	1%
Commodity Charge (per 1,000 gallons)					
Retail					
Residential	\$ 10.02	\$ 11.24	12%	\$ 11.56	3%
Non-Residential	\$ 11.22	\$ 11.69	4%	\$ 12.03	3%
Wholesale					
Navy	\$ 6.5190	\$ 8.1736	25%	\$ 8.4035	3%
Portsmouth Water & Fire District	\$ 5.2920	\$ 7.0782	34%	\$ 7.2756	3%
Fire Protection					
Public (per hydrant)	\$ 944.22	\$ 1,213.24	28%	\$ 1,254.24	3%
Private (Connection Size)					
Less than 2"	\$33.26	\$ 38.56	16%	\$ 39.92	4%
2"	\$139.26	\$ 161.44	16%	\$ 167.11	4%
4"	\$468.22	\$ 569.43	22%	\$ 589.26	3%
6"	\$1,055.81	\$ 1,322.52	25%	\$ 1,368.22	3%
8"	\$2,069.28	\$ 2,621.46	27%	\$ 2,711.77	3%
10"	\$3,593.75	\$ 4,575.32	27%	\$ 4,732.74	3%
12"	\$5,706.61	\$ 7,283.31	28%	\$ 7,533.73	3%

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Customer Class	Proposed 5/8 Inch Meter					Proposed 3/4 Inch Meter				Proposed 1 Inch Meter				Proposed 1.5 Inch Meter				Proposed 2 Inch Meter				Proposed 3 Inch Meter			
	Consumption per Bill (gallons)	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed	Dollar Change	Percent Change
Residential (Monthly)	1,000	\$180.48	\$204.00	\$23.52	13.0%	\$183.48	\$207.24	\$23.76	13.2%	\$204.60	\$230.40	\$25.80	14.3%	\$256.20	\$286.44	\$30.24	16.8%	\$310.56	\$345.84	\$35.28	19.5%	\$620.76	\$684.84	\$64.08	35.5%
	2,000	\$300.72	\$338.88	\$38.16	12.7%	\$303.72	\$342.12	\$38.40	12.8%	\$324.84	\$365.28	\$40.44	13.4%	\$376.44	\$421.32	\$44.88	14.9%	\$430.80	\$480.72	\$49.92	16.6%	\$741.00	\$819.72	\$78.72	26.2%
	4,000	\$541.20	\$608.64	\$67.44	12.5%	\$544.20	\$611.88	\$67.68	12.5%	\$565.32	\$635.04	\$69.72	12.9%	\$616.92	\$691.08	\$74.16	13.7%	\$671.28	\$750.48	\$79.20	14.6%	\$981.48	\$1,089.48	\$108.00	20.0%
	5,000	\$661.44	\$743.52	\$82.08	12.4%	\$664.44	\$746.76	\$82.32	12.4%	\$685.56	\$769.92	\$84.36	12.8%	\$737.16	\$825.96	\$88.80	13.4%	\$791.52	\$885.36	\$93.84	14.2%	\$1,101.72	\$1,224.36	\$122.64	18.5%
	7,500	\$962.04	\$1,080.72	\$118.68	12.3%	\$965.04	\$1,083.96	\$118.92	12.4%	\$986.16	\$1,107.12	\$120.96	12.6%	\$1,037.76	\$1,163.16	\$125.40	13.0%	\$1,092.12	\$1,222.56	\$130.44	13.6%	\$1,402.32	\$1,561.56	\$159.24	16.6%
	10,000	\$1,262.64	\$1,417.92	\$155.28	12.3%	\$1,265.64	\$1,421.16	\$155.52	12.3%	\$1,286.76	\$1,444.32	\$157.56	12.5%	\$1,338.36	\$1,500.36	\$162.00	12.8%	\$1,392.72	\$1,559.76	\$167.04	13.2%	\$1,702.92	\$1,898.76	\$195.84	15.5%
	15,000	\$1,863.84	\$2,092.32	\$228.48	12.3%	\$1,866.84	\$2,095.56	\$228.72	12.3%	\$1,887.96	\$2,118.72	\$230.76	12.4%	\$1,939.56	\$2,174.76	\$235.20	12.6%	\$1,993.92	\$2,234.16	\$240.24	12.9%	\$2,304.12	\$2,573.16	\$269.04	14.4%
	20,000	\$2,465.04	\$2,766.72	\$301.68	12.2%	\$2,468.04	\$2,769.96	\$301.92	12.2%	\$2,489.16	\$2,793.12	\$303.96	12.3%	\$2,540.76	\$2,849.16	\$308.40	12.5%	\$2,595.12	\$2,908.56	\$313.44	12.7%	\$2,905.32	\$3,247.56	\$342.24	13.9%
	25,000	\$3,066.24	\$3,441.12	\$374.88	12.2%	\$3,069.24	\$3,444.36	\$375.12	12.2%	\$3,090.36	\$3,467.52	\$377.16	12.3%	\$3,141.96	\$3,523.56	\$381.60	12.4%	\$3,196.32	\$3,582.96	\$386.64	12.6%	\$3,506.52	\$3,921.96	\$415.44	13.5%
	30,000	\$3,667.44	\$4,115.52	\$448.08	12.2%	\$3,670.44	\$4,118.76	\$448.32	12.2%	\$3,691.56	\$4,141.92	\$450.36	12.3%	\$3,743.16	\$4,197.96	\$454.80	12.4%	\$3,797.52	\$4,257.36	\$459.84	12.5%	\$4,107.72	\$4,596.36	\$488.64	13.3%

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Customer Class		Proposed 5/8 Inch Meter				Proposed 3/4 Inch Meter				Proposed 1 Inch Meter				Proposed 1.5 Inch Meter				Proposed 2 Inch Meter				Proposed 3 Inch Meter				
	Monthly Consumption (gallons)	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	
Non-Residential (Monthly)	2,000	\$329.52	\$349.68	\$20.16	6.1%	\$332.52	\$352.92	\$20.40	6.2%	\$353.64	\$376.08	\$22.44	6.8%	\$405.24	\$432.12	\$26.88	8.2%	\$459.60	\$491.52	\$31.92	9.7%	\$741.00	\$819.72	\$78.72	23.9%	
	5,000	\$733.44	\$770.52	\$37.08	5.1%	\$736.44	\$773.76	\$37.32	5.1%	\$757.56	\$796.92	\$39.36	5.4%	\$809.16	\$852.96	\$43.80	6.0%	\$863.52	\$912.36	\$48.84	6.7%	\$1,101.72	\$1,224.36	\$122.64	16.7%	
	9,000	\$1,272.00	\$1,331.64	\$59.64	4.7%	\$1,275.00	\$1,334.88	\$59.88	4.7%	\$1,296.12	\$1,358.04	\$61.92	4.9%	\$1,347.72	\$1,414.08	\$66.36	5.2%	\$1,402.08	\$1,473.48	\$71.40	5.6%	\$1,582.68	\$1,763.88	\$181.20	14.2%	
	25,000	\$3,426.24	\$3,576.12	\$149.88	4.4%	\$3,429.24	\$3,579.36	\$150.12	4.4%	\$3,450.36	\$3,602.52	\$152.16	4.4%	\$3,501.96	\$3,658.56	\$156.60	4.6%	\$3,556.32	\$3,717.96	\$161.64	4.7%	\$3,506.52	\$3,921.96	\$415.44	12.1%	
	30,000	\$4,099.44	\$4,277.52	\$178.08	4.3%	\$4,102.44	\$4,280.76	\$178.32	4.3%	\$4,123.56	\$4,303.92	\$180.36	4.4%	\$4,175.16	\$4,359.96	\$184.80	4.5%	\$4,229.52	\$4,419.36	\$189.84	4.6%	\$4,107.72	\$4,596.36	\$488.64	11.9%	
	40,000	\$5,445.84	\$5,680.32	\$234.48	4.3%	\$5,448.84	\$5,683.56	\$234.72	4.3%	\$5,469.96	\$5,706.72	\$236.76	4.3%	\$5,521.56	\$5,762.76	\$241.20	4.4%	\$5,575.92	\$5,822.16	\$246.24	4.5%	\$5,310.12	\$5,945.16	\$635.04	11.7%	
	50,000	\$6,792.24	\$7,083.12	\$290.88	4.3%	\$6,795.24	\$7,086.36	\$291.12	4.3%	\$6,816.36	\$7,109.52	\$293.16	4.3%	\$6,867.96	\$7,165.56	\$297.60	4.4%	\$6,922.32	\$7,224.96	\$302.64	4.5%	\$6,512.52	\$7,293.96	\$781.44	11.5%	
	75,000	\$10,158.24	\$10,590.12	\$431.88	4.3%	\$10,161.24	\$10,593.36	\$432.12	4.3%	\$10,182.36	\$10,616.52	\$434.16	4.3%	\$10,233.96	\$10,672.56	\$438.60	4.3%	\$10,288.32	\$10,731.96	\$443.64	4.4%	\$9,518.52	\$10,665.96	\$1,147.44	11.3%	
	100,000	\$13,524.24	\$14,097.12	\$572.88	4.2%	\$13,527.24	\$14,100.36	\$573.12	4.2%	\$13,548.36	\$14,123.52	\$575.16	4.3%	\$13,599.96	\$14,179.56	\$579.60	4.3%	\$13,654.32	\$14,238.96	\$584.64	4.3%	\$12,524.52	\$14,037.96	\$1,513.44	11.2%	
Customer Class		Proposed 5/8 Inch Meter				Proposed 3/4 Inch Meter				Proposed 1 Inch Meter				Proposed 1.5 Inch Meter				Proposed 2 Inch Meter				Proposed 3 Inch Meter				
	Annual Consumption (gallons)	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	Annual Bill at Current Rates	Annual Bill at Proposed Rates	Dollar Change	Percent Change	
Customer Class Non-Residential with 6" Fire Connection(Monthly Account)	9,000	\$161.22	\$174.33	\$13.11	8.1%	\$168.45	\$177.57	\$9.12	5.7%	\$189.57	\$200.73	\$11.16	6.9%	\$241.17	\$256.77	\$15.60	9.7%	\$295.53	\$316.17	\$20.64	12.8%	\$605.73	\$655.17	\$49.44	30.7%	
		\$1,055.81	\$1,322.52	\$266.71	25.3%	\$1,055.81	\$1,322.52	\$266.71	25.3%	\$1,055.81	\$1,322.52	\$266.71	25.3%	\$1,055.81	\$1,322.52	\$266.71	25.3%	\$1,055.81	\$1,322.52	\$266.71	25.3%	\$1,055.81	\$1,322.52	\$266.71	25.3%	
Base Charge and Commodity Charges		\$1,217.03	\$1,496.85	\$279.82	23.0%	\$1,224.26	\$1,500.09	\$275.83	22.7%	\$1,245.38	\$1,523.25	\$277.87	22.8%	\$1,296.98	\$1,579.29	\$282.31	23.2%	\$1,351.34	\$1,638.69	\$287.35	23.6%	\$1,661.54	\$1,977.69	\$316.15	26.0%	
Fire Protection Charge																										
Total Annual Charges																										

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Bill Impacts - Cost of Service Rates  
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Customer Class	Monthly Consumption (gallons)	Monthly Bill at Current Rates	Proposed		
			Monthly Bill at Proposed	Dollar Change	Percent Change
Portsmouth	10,000,000	\$52,925	\$70,836	\$17,911	33.8%
	20,000,000	\$105,845	\$141,618	\$35,773	33.8%
	32,000,000	\$169,349	\$226,556	\$57,207	33.8%
	40,000,000	\$211,685	\$283,182	\$71,497	33.8%
	75,000,000	\$396,905	\$530,919	\$134,014	33.8%
Avg. Monthly Bill					
Navy 6"meter	5,000,000	\$32,681	\$40,868	\$8,187	25.1%
	10,000,000	\$65,312	\$81,736	\$16,424	25.1%
	38,000,000	\$247,722	\$310,597	\$62,875	25.4%
	50,000,000	\$325,961	\$408,680	\$82,719	25.4%

## Docket XXXX

Customer Class	Monthly Consumption (gallons)	Annual Bill at Current Rates	Proposed FY 2020			Proposed FY 2022		
			Annual Bill at Proposed Rates	\$ Increase from Current Rates	% Increase from Current Rates	Annual Bill at Proposed Rates	\$ Increase from FY 2020 Rates	% Increase from FY 2020 Rates
Residential 5/8" meter								
Avg. Monthly Use	1,000	\$ 180.48	\$ 204.00	\$ 23.52	13.0%	\$ 209.64	\$ 5.64	2.8%
	2,000	\$ 300.72	\$ 338.88	\$ 38.16	12.7%	\$ 348.36	\$ 9.48	2.8%
	4,000	\$ 541.20	\$ 608.64	\$ 67.44	12.5%	\$ 625.80	\$ 17.16	2.8%
	5,000	\$ 661.44	\$ 743.52	\$ 82.08	12.4%	\$ 764.52	\$ 21.00	2.8%
	7,500	\$ 962.04	\$ 1,080.72	\$ 118.68	12.3%	\$ 1,111.32	\$ 30.60	2.8%
	10,000	\$ 1,262.64	\$ 1,417.92	\$ 155.28	12.3%	\$ 1,458.12	\$ 40.20	2.8%
	15,000	\$ 1,863.84	\$ 2,092.32	\$ 228.48	12.3%	\$ 2,151.72	\$ 59.40	2.8%
	20,000	\$ 2,465.04	\$ 2,766.72	\$ 301.68	12.2%	\$ 2,845.32	\$ 78.60	2.8%
	25,000	\$ 3,066.24	\$ 3,441.12	\$ 374.88	12.2%	\$ 3,538.92	\$ 97.80	2.8%
	30,000	\$ 3,667.44	\$ 4,115.52	\$ 448.08	12.2%	\$ 4,232.52	\$ 117.00	2.8%

Customer Class	Monthly Consumption (gallons)	Annual Bill at Current Rates	Proposed FY 2020			Proposed FY 2022		
			Annual Bill at Proposed Rates	\$ Increase from Current Rates	% Increase from Current Rates	Annual Bill at Proposed Rates	\$ Increase from FY 2020 Rates	% Increase from FY 2020 Rates
Non-Residential 5/8" meter								
Avg. Monthly Use	2,000	\$329.52	\$349.68	\$20.16	6.1%	\$359.64	\$9.96	2.8%
	5,000	\$733.44	\$770.52	\$37.08	5.1%	\$792.72	\$22.20	2.9%
	9,000	\$1,272.00	\$1,331.64	\$59.64	4.7%	\$1,370.16	\$38.52	2.9%
	25,000	\$3,426.24	\$3,576.12	\$149.88	4.4%	\$3,679.92	\$103.80	2.9%
	30,000	\$4,099.44	\$4,277.52	\$178.08	4.3%	\$4,401.72	\$124.20	2.9%
	40,000	\$5,445.84	\$5,680.32	\$234.48	4.3%	\$5,845.32	\$165.00	2.9%
	50,000	\$6,792.24	\$7,083.12	\$290.88	4.3%	\$7,288.92	\$205.80	2.9%
	75,000	\$10,158.24	\$10,590.12	\$431.88	4.3%	\$10,897.92	\$307.80	2.9%
	100,000	\$13,524.24	\$14,097.12	\$572.88	4.2%	\$14,506.92	\$409.80	2.9%

Customer Class	Monthly Consumption (gallons)	Monthly Bill at Current Rates	Proposed FY 2020			Proposed FY 2022		
			Monthly Bill at Proposed Rates	\$ Increase from Current Rates	% Increase from Current Rates	Monthly Bill at Proposed Rates	\$ Increase from FY 2012 Rates	% Increase from FY 2012 Rates
Portsmouth								
Avg. Monthly Bill	10,000,000	\$52,925.02	\$70,835.94	\$17,910.92	33.8%	\$72,757.77	\$1,921.83	2.7%
	20,000,000	\$105,845.02	\$141,617.94	\$35,772.92	33.8%	\$145,513.77	\$3,895.83	2.8%
	32,000,000	\$169,349.02	\$226,556.34	\$57,207.32	33.8%	\$232,820.97	\$6,264.63	2.8%
	40,000,000	\$211,685.02	\$283,181.94	\$71,496.92	33.8%	\$291,025.77	\$7,843.83	2.8%
	75,000,000	\$396,905.02	\$530,918.94	\$134,013.92	33.8%	\$545,671.77	\$14,752.83	2.8%
Navy								
Avg. Monthly Bill	5,000,000	\$32,681.15	\$40,868.00	\$8,186.85	25.1%	\$42,092.92	\$1,224.92	3.0%
	10,000,000	\$65,311.95	\$81,736.00	\$16,424.05	25.1%	\$84,110.42	\$2,374.42	2.9%
	38,000,000	\$247,722.00	\$310,596.80	\$62,874.80	25.4%	\$319,408.42	\$8,811.62	2.8%
	50,000,000	\$325,961.47	\$408,680.00	\$82,718.53	25.4%	\$420,250.42	\$11,570.42	2.8%

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FY 2020 Rate Filing  
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Revenue Proof

	Annual Revenue		
	Existing Rates	Proposed FY 2020 Rates	Proposed FY 2022 Rates
<b>REVENUES</b>			
<b>Water Rates</b>			
Base Charge (Billing Charge)	\$ 1,026,420	\$ 1,170,972	\$ 1,203,140
Volume Charge			
Residential	6,071,118	6,810,316	7,004,204
Non-Residential	4,958,118	5,165,811	5,316,057
Navy	1,228,832	1,540,724	1,584,060
Portsmouth Water & Fire District	1,904,591	2,547,444	2,618,488
Fire Protection			
Public	983,877	1,264,196	1,306,918
Private	416,926	522,858	540,919
<b>Total Rate Revenues</b>	<b>\$ 16,589,881</b>	<b>\$ 19,022,320</b>	<b>\$ 19,573,787</b>
<b>Other Operating Revenues</b>			
Sundry charges	\$ 133,000	133,000	133,000
WPC cost share on customer service	\$ 330,000	330,000	330,000
Middletown cost share on customer service	\$ 166,000	166,000	166,000
Rental of Property	\$ 90,000	90,000	90,000
<b>Total Other Operating Revenues</b>	<b>\$ 719,000</b>	<b>719,000</b>	<b>719,000</b>
<b>Total Operating Revenues</b>	<b>\$ 17,308,881</b>	<b>\$ 19,741,320</b>	<b>\$ 20,292,787</b>
<b>Add: Non-Operating Revenues</b>			
Water Penalty	50,000	50,000	50,000
Miscellaneous*	11,300	11,300	11,300
Investment Interest Income	20,000	20,000	20,000
Water Quality Protection Fees	21,000	21,000	21,000
<b>Total Non Operating Revenues</b>	<b>\$ 102,300</b>	<b>\$ 102,300</b>	<b>\$ 102,300</b>
<b>Total Revenues</b>	<b>\$ 17,411,181</b>	<b>\$ 19,843,620</b>	<b>\$ 20,395,087</b>
<b>COSTS</b>			
<b>Departmental O&amp;M</b>	<b>\$ (10,396,774)</b>	<b>(10,396,774)</b>	<b>(10,396,774)</b>
<b>Capital Costs</b>			
Contribution to Capital Spending Acct.	(2,500,000)	(2,500,000)	(2,500,000)
Contribution to Debt Service Acct.	(6,783,195)	(\$6,783,195)	\$ (7,337,411)
<b>Total Capital Costs</b>	<b>\$ (9,283,195)</b>	<b>(9,283,195)</b>	<b>(9,837,411)</b>
<b>Operating Revenue Allowance</b>	<b>(155,952)</b>	<b>(155,952)</b>	<b>(155,952)</b>
<b>Total Costs</b>	<b>\$ (19,835,921)</b>	<b>\$ (19,835,921)</b>	<b>\$ (20,390,136)</b>
<b>Revenue Surplus (Deficit)</b>	<b>\$ (2,424,740)</b>	<b>\$ 7,699</b>	<b>\$ 4,950</b>

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule B-1  
Base Extra Capacity Cost Allocations

## Docket XXXX

**Operation & Maintenance Costs**

## Administration

## Salaries, Wages, &amp; Benefits

Salaries &amp; Wages

AFSCME retro

NEA retro

AFSCME benefits on retro pay

NEA benefits on retro pay

Standby Salaries

Accrued Benefits Buyout

Employee Benefits

Retiree Insurance Coverage

Workers Compensation

Annual Leave Buyback

Subtotal

Rate Year	Allocation Notes	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total % Allocated
\$ 297,917	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
\$ -	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
\$ -	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
\$ -	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
\$ -	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
\$ 18,720	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
\$ -	Non-Administrative Wages & Salaries	59%	20%	8%	6%	5%	1%	0%	100%
\$ 137,644	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
\$ 386,784	Non-Administrative Wages & Salaries	59%	20%	8%	6%	5%	1%	0%	100%
\$ 57,385	Non-Administrative Wages & Salaries	59%	20%	8%	6%	5%	1%	0%	100%
\$ 2,500	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
900,950									

Rhode Island Public Utilities Commission  
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Rate Year		Allocation Notes	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total % Allocated
All Other Administrative Costs										
Advertisement	9,000	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Membership Dues & Subscriptio	5,055	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Conferences & Training	4,000	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Tuition Reimbursement	2,000	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Consultant Fees	251,625	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Postage	1,000	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Fire & Liability Insurance	36,500	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Telephone & Communication	10,600	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Water	1,800	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Electricity	6,950	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Natural Gas	5,125	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Property Taxes	557,462	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Legal & Administrative	-									
Audit Fees	4,944	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
OPEB Contribution	31,488	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
City Council	3,943	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
City Clerk	4,537	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
City Manager	76,621	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
Human Resources	6,193	Non-Administrative Wages & Salaries	59%	20%	8%	6%	5%	1%	0%	100%
City Solicitor	37,118	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
Finance Adimistrative 50%	26,212	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
Finance Adimistrative 5%	3,363	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
Finance Admin 10% Inv/Deb	11,809	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
Purchasing	22,404	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
Assessment	-	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
Collections	24,828	100% Billing	0%	0%	0%	0%	100%	0%	0%	100%
Accounting - Wires - 5%	9,149	Total Non-Admin Costs Before Offsets	65%	19%	7%	4%	2%	2%	0%	100%
Accounting	65,704	Non-Administrative Wages & Salaries	59%	20%	8%	6%	5%	1%	0%	100%
Facilities Maintenance	-	Non-Administrative Wages & Salaries	59%	20%	8%	6%	5%	1%	0%	100%
Data Processing	343,175	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Mileage Allowance	2,000	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Gasoline & Vehicle Allowance	6,410	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Repairs & Maintenance	1,000	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Regulatory Expense	1,500	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Regulatory Assessment	133,500	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Office Supplies	11,845	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Self Insurance	5,000	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Unemployment Claims	-	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Subtotal	1,723,859									

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule B-1  
Base Extra Capacity Cost Allocations

## Docket XXXX

Rate Year		Allocation Notes	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total % Allocated
<b>Customer Service</b>										
Salaries & Wages	340,264	Customer Service Salaries and Wages	0%	0%	0%	48%	40%	12%	0%	100%
Benefits	235,533	Customer Service Salaries and Wages	0%	0%	0%	48%	40%	12%	0%	100%
Copying & binding	600	100% billing (based on budget analysis)					100%			100%
Conferences & Training	3,000	100% billing (based on budget analysis)					100%			100%
Support Services	51,615	100% billing (software support & printing/mailing)					100%			100%
Postage	64,200	100% billing (based on budget analysis)					100%			100%
Bank Fees (lock box)	14,400	100% billing (based on budget analysis)					100%			100%
Gasoline & Vehicle Allowance	32,050	Customer Service Salaries and Wages	0%	0%	0%	48%	40%	12%	0%	100%
Repairs & Maintenance	35,000	100% metering (meter repairs)				100%				100%
Meter Maintenance	10,000	100% metering (based on budget analysis)				100%				100%
Operating Supplies	5,000	100% metering (based on budget analysis)				100%				100%
Uniforms & protective Gear	2,450	100% metering (based on budget analysis)				100%				100%
Customer Service Supplies	3,000	100% billing (based on budget analysis)					100%			100%
<b>Subtotal</b>	<b>797,112</b>									
<b>Source of Supply - Island</b>										
Salaries & Wages	\$ 312,654	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Overtime	\$ 25,000	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Temp Salaries	\$ 22,800	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Injury Pay	\$ -	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Employee Benefits	\$ 212,190	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Annual Leave Buyback	\$ 1,700	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Electricity	\$ 38,789	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Gas/Vehicle Maintenance	\$ 70,510	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Repairs & Maintenance	\$ 14,000	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Reservoir Maintenance	\$ 25,000	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Operating Supplies	\$ 6,700	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Uniforms & protective Gear	\$ 2,000	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Chemicals	\$ 94,800	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
<b>Subtotal</b>	<b>\$ 826,143</b>									
<b>Source of Supply - Mainland</b>										
Overtime	\$ 4,000	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Temp Salaries	\$ 27,000	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Permanent Part time	\$ 12,900	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Employee Benefits	\$ 3,358	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Electricity	\$ 160,790	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Repairs & Maintenance	\$ 17,000	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Reservoir Maintenance	\$ 12,000	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
Operating Supplies	\$ 500	Average Day Demand Patterns	100%	0%	0%	0%	0%	0%	0%	100%
<b>Subtotal</b>	<b>\$ 237,548</b>									

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule B-1  
Base Extra Capacity Cost Allocations

## Docket XXXX

Rate Year		Allocation Notes	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total % Allocated
Station One (Excludes chemicals)										
Salaries & Wages	\$ 513,045	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Overtime	\$ 88,500	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Holiday Pay	\$ 21,781	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Lead Plant Operator Stipend	\$ 12,480	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Employee Benefits	\$ 295,630	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Annual Leave Buyback	\$ 11,600	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Conferences & Training	\$ 4,500	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Fire & Liability Insurance	\$ 64,765	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Electricity	\$ 226,185	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Natural Gas	\$ 17,840	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Rental of Equipment	\$ 1,000	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Sewer Charge	\$ 118,900	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Gas/Vehicle Maintenance	\$ 6,410	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Repairs & Maintenance	\$ 55,000	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Operating Supplies	\$ 15,000	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Uniforms & protective Gear	\$ 3,625	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Station One Chemicals	\$ 431,220	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Subtotal	\$ 1,887,482									
Lawton Valley (Excludes chemicals)										
Salaries & Wages	\$531,042	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Overtime	\$110,750	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Holiday Pay	\$19,615	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Lead Plant Operator Stipend	\$12,480	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Employee Benefits	\$334,544	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Annual Leave Buyback	\$9,500	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Conferences & Training	\$4,120	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Fire & Liability Insurance	\$60,325	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Electricity	\$301,655	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Natural Gas	\$26,195	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Rental of Equipment	\$1,000	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Sewer Charge	\$476,625	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Gas/Vehicle Maintenance	\$6,410	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Repairs & Maintenance	\$65,000	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Operating Supplies	\$13,300	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Uniforms & protective Gear	\$3,600	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Lawton Valley Chemicals	\$468,936	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Subtotal	2,445,097									

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## Docket XXXX

	Rate Year	Allocation Notes	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total % Allocated
Laboratory										
Salaries & Wages	\$ 143,963	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Employee Benefits	\$ 86,774	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Annual Leave Buyback	\$ 4,250	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Repairs & Maintenance	\$ 6,200	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Regulatory Assessment	\$ 83,700	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Laboratory Supplies	\$ 55,000	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Subtotal	\$ 379,887									
Transmission and Distribution										
Salaries & Wages	\$ 521,449	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Overtime	\$ 46,500	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Temp Salaries	\$ 22,800	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Injury Pay	\$ -	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Employee Benefits	\$ 302,837	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Annual Leave Buyback	\$ 6,000	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Conferences & Training	\$ 4,000	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Contract Services	\$ 11,870	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Fire & Liability Insurance	\$ 10,910	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Electricity	\$ 20,500	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Heavy Equipment Rental	\$ 9,000	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Gas/Vehicle Maintenance	\$ 83,330	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Repairs & Maintenance	\$ 20,200	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Main Maintenance	\$ 66,000	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Hydrant Maintenance	\$ -	100% Fire	0%	0%	0%	0%	0%	0%	100%	100%
Service Maintenance	\$ 30,000	100% Services	0%	0%	0%	0%	0%	100%	0%	100%
Operating Supplies	\$ 8,000	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Uniforms & protective Gear	\$ 4,000	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Subtotal	\$ 1,167,396									
Fire Protection	31,300	100% Fire	0%	0%	0%	0%	0%	0%	100%	100%
<b>Total O&amp;M Costs</b>	<b>10,396,774</b>									

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Rate Year		Allocation Notes	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total % Allocated
<b>CAPITAL COSTS</b>										
Water Supply	1,390,098	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
Treatment Station 1	2,182,211	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Treatment Lawton Valley	2,533,800	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
Treatment Both Plants	733,383	Maximum Day Demand Patterns	65%	35%	0%	0%	0%	0%	0%	100%
T&D Pumping	59,546	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
T&D	1,772,079	Maximum Hour Demand Patterns	39%	21%	40%	0%	0%	0%	0%	100%
Fire	27,134	100% Fire	0%	0%	0%	0%	0%	0%	100%	100%
Meters	343,887	100% Meters	0%	0%	0%	100%	0%	0%	0%	100%
Services	217,735	100 % Services	0%	0%	0%	0%	0%	100%	0%	100%
Billing	23,322	100% Billing	0%	0%	0%	0%	100%	0%	0%	100%
<b>Total Capital Costs excluding Treatment</b>	<b>9,283,195</b>									
<b>Revenue Allowance</b>	155,952	100% base	100%							100%
<b>Total Costs before Offsets</b>	<b>19,835,921</b>									
<b>OFFSETS</b>										
<b>Nonrate Revenues</b>										
Sundry charges	133,000	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
WPC cost share on customer ser	330,000	50/50 Split between Metering and Billing	0%	0%	0%	50%	50%	0%	0%	100%
Middletown cost share on custo	166,000	50/50 Split between Metering and Billing	0%	0%	0%	50%	50%	0%	0%	100%
Rental of Property	90,000	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Water Penalty	50,000	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Miscellaneous*	11,300	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Investment Interest Income	20,000	Non Admin less electricity & chemicals	61%	17%	8%	6%	6%	2%	1%	100%
Water Quality Protection Fees	21,000	100% Base	100%	0%	0%	0%	0%	0%	0%	100%
<b>Total Nonrate Revenues</b>	<b>821,300</b>									
<b>Net Costs To Recover Through Rates</b>	<b>\$ 19,014,621</b>									
	\$ -									

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	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total \$ Allocated
Operation & Maintenance Costs								
Administration								
Salaries, Wages, & Benefits								
Salaries & Wages	181,827	51,281	22,536	16,972	18,671	5,089	1,541	297,917
AFSCME retro	-	-	-	-	-	-	-	-
NEA retro	-	-	-	-	-	-	-	-
AFSCME benefits on retro pay	-	-	-	-	-	-	-	-
NEA benefits on retro pay	-	-	-	-	-	-	-	-
Standby Salaries	11,425	3,222	1,416	1,066	1,173	320	97	18,720
Accrued Benefits Buyout	-	-	-	-	-	-	-	-
Employee Benefits	84,008	23,693	10,412	7,842	8,626	2,351	712	137,644
Retiree Insurance Coverage	227,336	78,753	32,815	22,571	19,329	5,775	205	386,784
Workers Compensation	33,729	11,684	4,869	3,349	2,868	857	30	57,385
Annual Leave Buyback	1,526	430	189	142	157	43	13	2,500
Subtotal	539,850	169,064	72,238	51,942	50,823	14,434	2,599	900,950

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	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total \$ Allocated
All Other Administrative Costs								
Advertisement	5,493	1,549	681	513	564	154	47	9,000
Membership Dues & Subscription	3,085	870	382	288	317	86	26	5,055
Conferences & Training	2,441	689	303	228	251	68	21	4,000
Tuition Reimbursement	1,221	344	151	114	125	34	10	2,000
Consultant Fees	153,573	43,313	19,035	14,335	15,769	4,298	1,302	251,625
Postage	610	172	76	57	63	17	5	1,000
Fire & Liability Insurance	22,277	6,283	2,761	2,079	2,287	623	189	36,500
Telephone & Communication	6,469	1,825	802	604	664	181	55	10,600
Water	1,099	310	136	103	113	31	9	1,800
Electricity	4,242	1,196	526	396	436	119	36	6,950
Natural Gas	3,128	882	388	292	321	88	27	5,125
Property Taxes	340,233	95,957	42,170	31,759	34,936	9,522	2,884	557,462
Legal & Administrative								
Audit Fees	3,224	954	343	198	116	92	17	4,944
OPEB Contribution	20,536	6,076	2,186	1,260	736	587	107	31,488
City Council	2,572	761	274	158	92	74	13	3,943
City Clerk	2,959	875	315	181	106	85	15	4,537
City Manager	49,970	14,786	5,318	3,065	1,792	1,429	260	76,621
Human Resources	3,640	1,261	525	361	309	92	3	6,193
City Solicitor	24,207	7,163	2,576	1,485	868	692	126	37,118
Finance Adimistrative 50%	17,095	5,058	1,819	1,049	613	489	89	26,212
Finance Adimistrative 5%	2,193	649	233	135	79	63	11	3,363
Finance Admin 10% Inv/Debt	7,702	2,279	820	472	276	220	40	11,809
Purchasing	14,612	4,324	1,555	896	524	418	76	22,404
Assessment	-	-	-	-	-	-	-	-
Collections	-	-	-	-	24,828	-	-	24,828
Accounting - Wires - 5%	5,967	1,766	635	366	214	171	31	9,149
Accounting	38,618	13,378	5,574	3,834	3,283	981	35	65,704
Facilities Maintenance	-	-	-	-	-	-	-	-
Data Processing	209,449	59,071	25,960	19,551	21,507	5,862	1,776	343,175
Mileage Allowance	1,221	344	151	114	125	34	10	2,000
Gasoline & Vehicle Allowance	3,912	1,103	485	365	402	109	33	6,410
Repairs & Maintenance	610	172	76	57	63	17	5	1,000
Regulatory Expense	915	258	113	85	94	26	8	1,500
Regulatory Assessment	81,479	22,980	10,099	7,606	8,367	2,280	691	133,500
Office Supplies	7,229	2,039	896	675	742	202	61	11,845
Self Insurance	3,052	861	378	285	313	85	26	5,000
Unemployment Claims	-	-	-	-	-	-	-	-
Subtotal	1,045,033	299,547	127,742	92,965	121,296	29,232	8,045	1,723,859

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	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total \$ Allocated
Customer Service								
Salaries & Wages	-	-	-	163,567	135,645	41,053	-	340,264
Benefits	-	-	-	113,222	93,894	28,417	-	235,533
Copying & binding	-	-	-	-	600	-	-	600
Conferences & Training	-	-	-	-	3,000	-	-	3,000
Support Services	-	-	-	-	51,615	-	-	51,615
Postage	-	-	-	-	64,200	-	-	64,200
Bank Fees (lock box)	-	-	-	-	14,400	-	-	14,400
Gasoline & Vehicle Allowance	-	-	-	15,407	12,777	3,867	-	32,050
Repairs & Maintenance	-	-	-	35,000	-	-	-	35,000
Meter Maintenance	-	-	-	10,000	-	-	-	10,000
Operating Supplies	-	-	-	5,000	-	-	-	5,000
Uniforms & protective Gear	-	-	-	2,450	-	-	-	2,450
Customer Service Supplies	-	-	-	-	3,000	-	-	3,000
Source of Supply - Island								
Salaries & Wages	312,654	-	-	-	-	-	-	312,654
Overtime	25,000	-	-	-	-	-	-	25,000
Temp Salaries	22,800	-	-	-	-	-	-	22,800
Injury Pay	-	-	-	-	-	-	-	-
Employee Benefits	212,190	-	-	-	-	-	-	212,190
Annual Leave Buyback	1,700	-	-	-	-	-	-	1,700
Electricity	38,789	-	-	-	-	-	-	38,789
Gas/Vehicle Maintenance	70,510	-	-	-	-	-	-	70,510
Repairs & Maintenance	14,000	-	-	-	-	-	-	14,000
Reservoir Maintenance	25,000	-	-	-	-	-	-	25,000
Operating Supplies	6,700	-	-	-	-	-	-	6,700
Uniforms & protective Gear	2,000	-	-	-	-	-	-	2,000
Chemicals	94,800	-	-	-	-	-	-	94,800
Source of Supply - Mainland								
Overtime	4,000	-	-	-	-	-	-	4,000
Temp Salaries	27,000	-	-	-	-	-	-	27,000
Permanent Part time	12,900	-	-	-	-	-	-	12,900
Employee Benefits	3,358	-	-	-	-	-	-	3,358
Electricity	160,790	-	-	-	-	-	-	160,790
Repairs & Maintenance	17,000	-	-	-	-	-	-	17,000
Reservoir Maintenance	12,000	-	-	-	-	-	-	12,000
Operating Supplies	500	-	-	-	-	-	-	500

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	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total \$ Allocated
Station One (Excludes chemicals)								
Salaries & Wages	334,297	178,748	-	-	-	-	-	513,045
Overtime	57,666	30,834	-	-	-	-	-	88,500
Holiday Pay	14,193	7,589	-	-	-	-	-	21,781
Lead Plant Operator Stipend	8,132	4,348	-	-	-	-	-	12,480
Employee Benefits	192,631	102,999	-	-	-	-	-	295,630
Annual Leave Buyback	7,558	4,042	-	-	-	-	-	11,600
Conferences & Training	2,932	1,568	-	-	-	-	-	4,500
Fire & Liability Insurance	42,200	22,565	-	-	-	-	-	64,765
Electricity	226,185	-	-	-	-	-	-	226,185
Natural Gas	11,624	6,216	-	-	-	-	-	17,840
Rental of Equipment	652	348	-	-	-	-	-	1,000
Sewer Charge	118,900	-	-	-	-	-	-	118,900
Gas/Vehicle Maintenance	4,177	2,233	-	-	-	-	-	6,410
Repairs & Maintenance	35,838	19,162	-	-	-	-	-	55,000
Operating Supplies	9,774	5,226	-	-	-	-	-	15,000
Uniforms & protective Gear	2,362	1,263	-	-	-	-	-	3,625
Station One Chemicals	431,220	-	-	-	-	-	-	431,220
Lawton Valley (Excludes chemicals)								
Salaries & Wages	346,023	185,018	-	-	-	-	-	531,042
Overtime	72,164	38,586	-	-	-	-	-	110,750
Holiday Pay	12,781	6,834	-	-	-	-	-	19,615
Lead Plant Operator Stipend	8,132	4,348	-	-	-	-	-	12,480
Employee Benefits	217,987	116,557	-	-	-	-	-	334,544
Annual Leave Buyback	6,190	3,310	-	-	-	-	-	9,500
Conferences & Training	2,685	1,435	-	-	-	-	-	4,120
Fire & Liability Insurance	39,307	21,018	-	-	-	-	-	60,325
Electricity	301,655	-	-	-	-	-	-	301,655
Natural Gas	17,068	9,127	-	-	-	-	-	26,195
Rental of Equipment	652	348	-	-	-	-	-	1,000
Sewer Charge	476,625	-	-	-	-	-	-	476,625
Gas/Vehicle Maintenance	4,177	2,233	-	-	-	-	-	6,410
Repairs & Maintenance	42,354	22,646	-	-	-	-	-	65,000
Operating Supplies	8,666	4,634	-	-	-	-	-	13,300
Uniforms & protective Gear	2,346	1,254	-	-	-	-	-	3,600
Lawton Valley Chemicals	468,936	-	-	-	-	-	-	468,936

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	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total \$ Allocated
<b>Laboratory</b>								
Salaries & Wages	143,963	-	-	-	-	-	-	143,963
Employee Benefits	86,774	-	-	-	-	-	-	86,774
Annual Leave Buyback	4,250	-	-	-	-	-	-	4,250
Repairs & Maintenance	6,200	-	-	-	-	-	-	6,200
Regulatory Assessment	83,700	-	-	-	-	-	-	83,700
Laboratory Supplies	55,000	-	-	-	-	-	-	55,000
<b>Transmission and Distribution</b>								
Salaries & Wages	203,066	108,579	209,804	-	-	-	-	521,449
Overtime	18,108	9,682	18,709	-	-	-	-	46,500
Temp Salaries	8,879	4,748	9,174	-	-	-	-	22,800
Injury Pay	-	-	-	-	-	-	-	-
Employee Benefits	117,933	63,058	121,846	-	-	-	-	302,837
Annual Leave Buyback	2,337	1,249	2,414	-	-	-	-	6,000
Conferences & Training	1,558	833	1,609	-	-	-	-	4,000
Contract Services	4,622	2,472	4,776	-	-	-	-	11,870
Fire & Liability Insurance	4,249	2,272	4,390	-	-	-	-	10,910
Electricity	7,983	4,269	8,248	-	-	-	-	20,500
Heavy Equipment Rental	3,505	1,874	3,621	-	-	-	-	9,000
Gas/Vehicle Maintenance	32,451	17,351	33,528	-	-	-	-	83,330
Repairs & Maintenance	7,866	4,206	8,127	-	-	-	-	20,200
Main Maintenance	25,702	13,743	26,555	-	-	-	-	66,000
Hydrant Maintenance	-	-	-	-	-	-	-	-
Service Maintenance	-	-	-	-	-	30,000	-	30,000
Operating Supplies	3,115	1,666	3,219	-	-	-	-	8,000
Uniforms & protective Gear	1,558	833	1,609	-	-	-	-	4,000
<b>Fire Protection</b>								
	-	-	-	-	-	-	31,300	31,300
<b>Non-Administrative O&amp;M</b>								
	<b>5,414,598</b>	<b>1,041,325</b>	<b>457,629</b>	<b>344,645</b>	<b>379,130</b>	<b>103,336</b>	<b>31,300</b>	<b>7,771,965</b>

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	Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total \$ Allocated
Water Supply	1,390,098	-	-	-	-	-	-	1,390,098
Treatment Station 1	1,421,915	760,296	-	-	-	-	-	2,182,211
Treatment Lawton Valley	1,651,008	882,792	-	-	-	-	-	2,533,800
Treatment Both Plants	477,868	255,515	-	-	-	-	-	733,383
T&D Pumping	23,189	12,399	23,958	-	-	-	-	59,546
T&D	690,094	368,992	712,993	-	-	-	-	1,772,079
Fire	-	-	-	-	-	-	27,134	27,134
Meters	-	-	-	343,887	-	-	-	343,887
Services	-	-	-	-	-	217,735	-	217,735
Billing	-	-	-	-	23,322	-	-	23,322
	<b>5,654,172</b>	<b>2,279,994</b>	<b>736,951</b>	<b>343,887</b>	<b>23,322</b>	<b>217,735</b>	<b>27,134</b>	<b>9,283,195</b>
	61%	25%	8%	4%	0%	2%	0%	100%
	155,952	-	-	-	-	-	-	155,952
Total Non-Admin Costs	<b>11,224,722</b>	<b>3,321,319</b>	<b>1,194,580</b>	<b>688,532</b>	<b>402,453</b>	<b>321,071</b>	<b>58,434</b>	<b>17,211,112</b>
	65%	19%	7%	4%	2%	2%	0%	100%
	81,173	22,893	10,061	7,577	8,335	2,272	688	133,000
	-	-	-	165,000	165,000	-	-	330,000
	-	-	-	83,000	83,000	-	-	166,000
	54,929	15,492	6,808	5,127	5,640	1,537	466	90,000
	30,516	8,607	3,782	2,849	3,134	854	259	50,000
	6,897	1,945	855	644	708	193	58	11,300
	12,207	3,443	1,513	1,139	1,253	342	103	20,000
	21,000	-	-	-	-	-	-	21,000
	<b>206,722</b>	<b>52,380</b>	<b>23,019</b>	<b>265,336</b>	<b>267,071</b>	<b>5,198</b>	<b>1,574</b>	<b>821,300</b>
	<b>\$ 11,018,000</b>	<b>\$ 3,268,940</b>	<b>\$ 1,171,561</b>	<b>\$ 423,196</b>	<b>\$ 135,382</b>	<b>\$ 315,873</b>	<b>\$ 56,860</b>	<b>\$ 16,389,812</b>

Rhode Island Public Utilities Commission  
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FY 2020 Rate Filing  
HJS Schedule B-1

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## Base Extra Capacity Cost Allocations

<b>Non-Admin O&amp;M Costs</b>	\$	5,414,598	\$	1,041,325	\$	457,629	\$	344,645	\$	379,130	\$	103,336	\$	31,300	\$	<b>7,771,965</b>
Less: Chemicals															\$	-
Station One	\$	(431,220)													\$	(431,220)
Lawton Valley	\$	(468,936)													\$	(468,936)
Source Supply	\$	(94,800)													\$	(94,800)
Electricity															\$	-
Source Supply	\$	(199,579)	\$	-											\$	(199,579)
Station One	\$	(226,185)	\$	-											\$	(226,185)
Lawton Valley	\$	(301,655)	\$	-											\$	(301,655)
Costs Adjusted	\$	3,692,224	\$	1,041,325	\$	457,629	\$	344,645	\$	379,130	\$	103,336	\$	31,300	\$	6,049,590
		<b>61%</b>		<b>17%</b>		<b>8%</b>		<b>6%</b>		<b>6%</b>		<b>2%</b>		<b>1%</b>		<b>100%</b>

Base	Max Day	Max Hour	Metering	Billing	Services	Fire	Total \$ Allocated
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**Non-Administrative Labor**

Administration	194,778	54,934	24,142	18,181	20,000	5,451	1,651	319,137
Customer Service	0	0	0	163,567	135,645	41,053	0	340,264
Source of Supply - Island	360,454	0	0	0	0	0	0	360,454
Source of Supply - Mainland	43,900	0	0	0	0	0	0	43,900
Station One	413,714	221,212	0	0	0	0	0	634,927
Lawton Valley	437,159	233,748	0	0	0	0	0	670,907
Laboratory	148,213	0	0	0	0	0	0	148,213
Transmission/Distribution	232,390	124,258	240,101	0	0	0	0	596,749
Total	1,830,608	634,153	264,242	181,748	155,645	46,504	1,651	3,114,551
Percent	59%	20%	8%	6%	5%	1%	0%	100%

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Rhode Island Public Utilities Commission

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FY 2020 Rate Filing

HJS Schedule B-2

Allocation of Costs to Water Rate Classes

ALLOCATION PERCENTAGES		Commodity Charges					
		Base Charge	Retail		Navy	Portsmouth	Fire
			Residential	Non-Residential			
Cost Category	Allocation Basis						Total % Allocated
Base	<i>Average annual demand</i>		41%	30%	11%	19%	0%
Base Excluding PWFD			50%	37%	13%	0%	0%
Base Excluding PWFD & 50% Navy			54%	39%	7%	0%	0%
Water Quality Protection Fees			58%	42%	0%	0%	0%
Total Base to Class			42%	31%	10%	17%	0%
Max Day	<i>Estimated customer peaking factors</i>		32%	26%	6%	14%	22%
Base Excluding PWFD			37%	30%	7%	0%	26%
Max Day Excluding PWFD & 50% Navy			38%	31%	4%	0%	27%
Total Max Day to Class			33%	26%	6%	11%	23%
Max Hour	<i>Estimated customer peaking factors</i>		17%	19%	5%	8%	52%
Base Excluding PWFD			18%	21%	5%	0%	56%
Max Hour Excluding PWFD & 50% Navy			19%	21%	3%	0%	57%
Total Max Hour to Class			19%	21%	3%	0%	57%
Metering	<i>Direct Assignment</i>	100%					
Billing	<i>Direct Assignment</i>	100%					
Services	<i>Direct Assignment</i>	100%					
Fire	<i>Direct Assignment</i>						100%
Treatment Plant Avg. Day	<i>Assured Capacity</i>		0%	0%	0%	0%	0%
Treatment Plant Max. Day	<i>Assured Capacity</i>		0%	0%	0%	0%	0%

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Rhode Island Public Utilities Commission  
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FY 2016 Rate Filing  
HJS Schedule B-2  
Allocation of Costs to Water Rate Classes

## ALLOCATION RESULTS

## Cost Category

Base								
Base excluding T&D&WQPF & Pumping	10,068,508		4,119,878	3,004,744	1,060,326	1,883,560		10,068,508
Transmission & Distribution	1,133,026		609,805	444,748	78,472	-		1,133,026
Pumping	23,189		11,672	8,513	3,004	-		23,189
Water Quality Protection Fees	(21,000)		(12,143)	(8,857)	-	-		(21,000)
Revenue Offsets	(185,722)		(78,450)	(57,216)	(18,892)	(31,165)	-	(185,722)
Administrative Charges	1,584,883		669,459	488,256	161,218	265,951	-	1,584,883
Max Day								
Max Day Except T&D & Pumping	2,703,093		857,291	689,550	170,692	381,306	604,254	2,703,093
Transmission & Distribution	605,827		232,231	186,792	23,119	-	163,686	605,827
Pumping	12,399		4,578	3,682	912	-	3,227	12,399
Revenue Offsets	(52,380)		(17,255)	(13,879)	(3,071)	(6,013)	(12,162)	(52,380)
Administrative Charges	468,611		154,368	124,164	27,474	53,799	108,805	468,611
Max Hour								
Max Hr. Except T&D & Pumping	-	-	-	-	-	-	-	-
Transmission & Distribution	1,170,622		217,636	250,005	31,375	-	671,606	1,170,622
Pumping	23,958	-	4,338	4,983	1,251	-	13,386	23,958
Revenue Offsets	(23,019)		(4,277)	(4,914)	(629)	-	(13,200)	(23,019)
Administrative Charges	199,979		37,160	42,686	5,462	-	114,672	199,979
Metering	688,532	688,532	-	-	-	-	-	688,532
Revenue Offsets	(265,336)	(265,336)						(265,336)
Administrative Charges	144,907	144,907						144,907
Services	321,071	321,071						321,071
Revenue Offsets	(5,198)	(5,198)						(5,198)
Administrative Charges	43,666	43,666						43,666
Billing	402,453	402,453	-	-	-	-	-	402,453
Revenue Offsets	(267,071)	(267,071)						(267,071)
Administrative Charges	172,119	172,119						172,119
Fire	58,434						58,434	58,434
Revenue Offsets	(1,574)						(1,574)	(1,574)
Administrative Charges	10,644						10,644	10,644
Treatment Plant Capital Costs			Treatment Capital Allocated Using B/EC (See Schedule HJS-5)					-
Treatment Plant Avg. Day	-	-	-	-	-	-	-	-
Treatment Plant Max. Day	-	-	-	-	-	-	-	-
Total To Recover through Rates	\$ 19,014,621	\$ 1,235,144	\$ 6,806,291	\$ 5,163,258	\$ 1,540,713	\$ 2,547,437	\$ 1,721,778	\$ 19,014,621

## COST OF SERVICE PER UNIT

Description of Billing Units  
Percentage of Dollars Allocated  
Allocated Cost  
Divided by: Number of Units  
**Unit Cost of Service**

Metering	(1)	(2)	(2)	(2)	(2)	(3)	
Equivalent meters x 12 months	1000's of gallons annually	1000's of gallons annually	1000's of gallons annually	1000's of gallons annually	1000's of gallons annually	Equivalent Connections	Total
3.0%	35.8%	27.2%	8.1%	13.4%	8.7%		100.0%
\$ 568,103	\$ 6,806,291	\$ 5,163,258	\$ 1,540,713	\$ 2,547,437	\$ 1,654,274		\$ 19,014,621
210,300	605,900	441,900	188,500	359,900	160,336		
<b>\$2.7014</b>	<b>\$11.23</b>	<b>\$11.68</b>	<b>\$8.17</b>	<b>\$7.08</b>	<b>\$10.32</b>		
per equiv per month	per 1000 gallons	per 1000 gallons	per 1000 gallons	per 1000 gallons	Equivalent connections		

Description of Billing Units  
Percentage of Dollars Allocated  
Allocated Cost  
Divided by: Number of Units  
**Unit Cost of Service**

Billing	Services	Hydrants
No. of bills per year	Equivalent Connections	No. of Hydrants
1.6%	1.9%	0.4%
\$ 307,502	\$ 359,539	\$ 67,503
175,323	276,936	1,042
<b>\$1.7539</b>	<b>\$1.2983</b>	<b>\$64.7826</b>
per bill	per equiv	per Hydrant

(1)

- (1) From HJS Schedule D-1, 'Water Accounts, by Size and Class'.  
(2) From HJS Schedule B-6, 'Water Demand History'.  
(3) From HJS Schedule D-2, 'Fire Protection Accounts'.

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FY 2020 Rate Filing  
HJS Schedule B-3  
Cost Allocation Bases

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<b>Allocation Basis</b>	<b>Used to allocate the following cost categories</b>	<b>Source Schedule</b>	<b>Base</b>	<b>Max Day</b>	<b>Max Hour</b>	<b>Metering</b>	<b>Billing</b>	<b>Services</b>	<b>Direct Fire Protection</b>	<b>Total % Allocated</b>
Average Day Demand Patterns	<i>Supply, Laboratory</i>	N/A	100%							100%
Maximum Day Demand Patterns	<i>Treatment</i>	B-1	65%	35%	0%					100%
Maximum Hour Demand Patterns	<i>Pumping, Transmission/Distribution, Storage</i>	B-1	39%	21%	40%					100%
Fire Protection	<i>Public/Private Fire Protection Costs</i>	D-2							100%	100%
Non Admin less electricity & chemicals	<i>Administration Salaries, Wages, &amp; Benefits</i>	B-1	61%	17%	8%	6%	6%	2%	1%	100%
Customer Service Salaries and Wages	<i>Customer Service Salaries, Wages, &amp; Benefits</i>	B-4	0%	0%	0%	48%	40%	12%	0%	100%
Non-Administrative Wages & Salaries	<i>Administrative Labor Related</i>	B-1	59%	20%	8%	6%	5%	1%	0%	100%
Capital Costs	<i>Certain Legal and Administrative</i>	B-1	61%	25%	8%	4%	0%	2%	0%	0%
Total Non-Admin Costs before Offsets	<i>Certain Legal and Administrative</i>	B-1	65%	19%	7%	4%	2%	2%	0%	100%
Other Costs	<i>Administration Non-Salary Costs</i>	B-1	61%	17%	8%	6%	6%	2%	1%	100%
Treatment Plant Capital	<i>Treatment Capital Costs</i>	B-4	65%	35%	0%	0%	0%	0%	0%	

Rhode Island Public Utilities Commission  
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FY 2020 Rate Filing  
HJS Schedule B-4  
Allocation Analyses

**Administration 15-500-2200**

## Salaries by Staff Position

Director of Utilities	\$	87,347
Administrative Secretary	\$	34,986
Deputy Director - Finance	\$	66,733
Deputy Director - Engineering	\$	76,332
Financial Analyst	\$	32,520

<b>Salary \$ Allocation Results</b>	\$	297,917
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**Resulting % Allocation of Administration Salaries, Wages, & Benefits**

**Customer Service 15-500-2209**

## Salaries by Staff Position

Meter Repairman/Reader	\$	41,112
Meter Repairman/Reader	\$	50,878
Principal Account Clerk	\$	47,876
Meter Repairman/Reader	\$	51,298
Maintenance Mechanic	\$	53,755
Principal Account Clerk	\$	23,938
Water Meter Foreman	\$	64,557

<b>Salary \$ Allocation Results</b>	\$	333,414
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**Resulting % Allocation of Customer Service Salaries, Wages, & Benefits**

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Allocation of Salary Costs							Total Allocated
Base	Max Day	Max Hour	Metering	Billing	Services	Direct Fire Protection	
61%	17%	8%	6%	6%	2%	1%	100%
61%	17%	8%	6%	6%	2%	1%	100%
61%	17%	8%	6%	6%	2%	1%	100%
61%	17%	8%	6%	6%	2%	1%	100%
61%	17%	8%	6%	6%	2%	1%	100%
<b>\$ 181,827</b>	<b>\$ 51,281</b>	<b>\$ 22,536</b>	<b>\$ 16,972</b>	<b>\$ 18,671</b>	<b>\$ 5,089</b>	<b>\$ 1,541</b>	<b>\$ 297,917</b>
<b>61%</b>	<b>17%</b>	<b>8%</b>	<b>6%</b>	<b>6%</b>	<b>2%</b>	<b>1%</b>	<b>100%</b>

			50%	50%			100%
			50%	50%			100%
				100%			100%
			100%				100%
			33%	33%	34%		100%
			100%				100%
			33%	33%	34%		100%
			<b>\$ 160,274</b>	<b>\$ 132,914</b>	<b>\$ 40,226</b>		<b>\$ 333,414</b>
<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>48%</b>	<b>40%</b>	<b>12%</b>	<b>0%</b>	<b>100%</b>

Rhode Island Public Utilities Commission  
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FY 2020 Rate Filing  
HJS Schedule B-5  
Capital Functionalization

## Docket XXXX

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## Functional Break Down of Existing Fixed Assets

		Supply	Treatment Station 1	Treatment Lawton Valley	Treatment Both Plants	T&D	T&D Pump	Fire	Meters	Services	Billing	
TRANSMISSION/DISTRIBUTION	\$ 32,296,348					100%						100%
LAWTON VALLEY	\$ 50,565,297			100%								100%
STATION 1	\$ 43,548,893		100%									100%
TREATMENT BOTH	\$ 14,635,624				100%							100%
STORAGE	\$ 3,067,813					100%						100%
SOURCE OF SUPPLY	\$ 27,662,753	100%										100%
METERS	\$ 6,862,709								100%			100%
SERVICES	\$ 4,345,187									100%		100%
T&D PUMPING	\$ 1,188,312						100%					100%
BILLING	\$ 465,430										100%	100%
FIRE	\$ 541,499							100%				100%
Total	\$ 185,179,866											
LABORATORY	\$ 80,000	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
LAND AND ROW	\$ 3,594,491	15%	24%	27%	8%	19%	1%	0%	4%	2%	0%	100%
	\$ 3,674,491											

**Total Fixed Assets \$ 188,854,357**

		Supply	Treatment Station 1	Treatment Lawton Valley	Treatment Both Plants	T&D	T&D Pump	Fire	Meters	Services	Billing	Total
TRANSMISSION/DISTRIBUTION	\$ 32,296,348	\$ -	\$ -	\$ -	\$ -	\$ 32,296,348	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 32,296,348
LAWTON VALLEY	\$ 50,565,297	-	-	50,565,297	-	-	-	-	-	-	-	50,565,297
STATION 1	\$ 43,548,893	-	43,548,893	-	-	-	-	-	-	-	-	43,548,893
TREATMENT BOTH	\$ 14,635,624	-	-	-	14,635,624	-	-	-	-	-	-	14,635,624
STORAGE	\$ 3,067,813	-	-	-	-	3,067,813	-	-	-	-	-	3,067,813
SOURCE OF SUPPLY	\$ 27,662,753	27,662,753	-	-	-	-	-	-	-	-	-	27,662,753
METERS	\$ 6,862,709	-	-	-	-	-	-	-	6,862,709	-	-	6,862,709
SERVICES	\$ 4,345,187	-	-	-	-	-	-	-	-	4,345,187	-	4,345,187
T&D PUMPING	\$ 1,188,312	-	-	-	-	-	1,188,312	-	-	-	-	1,188,312
BILLING	\$ 465,430	-	-	-	-	-	-	-	-	-	465,430	465,430
FIRE	\$ 541,499	-	-	-	-	-	-	541,499	-	-	-	541,499
WORK IN PROGRESS	\$ -	-	-	-	-	-	-	-	-	-	-	-
Total	\$ 185,179,866	\$ 27,662,753	\$ 43,548,893	\$ 50,565,297	\$ 14,635,624	\$ 35,364,161	\$ 1,188,312	\$ 541,499	\$ 6,862,709	\$ 4,345,187	\$ 465,430	\$ 185,179,866
		15%	24%	27%	8%	19%	1%	0%	4%	2%	0%	
LABORATORY	\$ 80,000	80,000	-	-	-	-	-	-	-	-	-	80,000
LAND AND ROW	\$ 3,594,491	536,956	845,319	981,513	284,089	686,447	23,066	10,511	133,211	84,344	9,034	3,594,491
	\$ 3,674,491	616,956	845,319	981,513	284,089	686,447	23,066	10,511	133,211	84,344	9,034	3,674,491
		17%	23%	27%	8%	19%	1%	0%	4%	2%	0%	
Total Allocated	\$ 28,279,710	\$ 44,394,212	\$ 51,546,810	\$ 14,919,713	\$ 36,050,608	\$ 1,211,378	\$ 552,010	\$ 6,995,920	\$ 4,429,531	\$ 474,464	\$ 188,854,357	
% of Total Asset Value		15%	24%	27%	8%	19%	1%	0%	4%	2%	0%	

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule B-5  
Capital Functionalization

## Docket XXXX

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## Functionalization of Capital Costs

		Supply	Treatment Station 1	Treatment Lawton Valley	Treatment Both Plants	T&D	T&D Pump	Fire	Meters	Services	Billing	
Capital Spending Restricted Account	\$ 2,500,000	15%	24%	27%	8%	19%	1%	0%	4%	2%	0%	100%
Debt Service	\$ 6,783,195	15%	24%	27%	8%	19%	1%	0%	4%	2%	0%	100%
	\$ 9,283,195											

		Supply	Treatment Station 1	Treatment Lawton Valley	Treatment Both Plants	T&D	T&D Pump	Fire	Meters	Services	Billing	Total
Capital Spending Restricted Account	\$ 2,500,000	\$ 374,359	\$ 587,678	\$ 682,362	\$ 197,503	\$ 477,228	\$ 16,036	\$ 7,307	\$ 92,610	\$ 58,637	\$ 6,281	\$ 2,500,000
Debt Service	\$ 6,783,195	1,015,739	1,594,534	1,851,438	535,880	1,294,851	43,510	19,827	251,277	159,098	17,042	\$ 6,783,195
	\$ 9,283,195	\$ 1,390,098	\$ 2,182,211	\$ 2,533,800	\$ 733,383	\$ 1,772,079	\$ 59,546	\$ 27,134	\$ 343,887	\$ 217,735	\$ 23,322	\$ 9,283,195

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## Docket XXXX

Rhode Island Public Utilities Commission  
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FY 2020 Rate Filing  
HJS Schedule B-6  
Water Demand History

									Demand Projection Options			Rate Year Demand Projection	Demand Projection from 4595
	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	2-Year Avg	3-Year Avg	Trend		
<b>Annual Demand by Class</b>													
Residential	640,966	618,574	663,331	651,514	670,930	621,387	643,010	609,006	626,008	624,468	605,896	<b>605,900</b>	661,222
Non-Residential	502,475	472,437	485,331	446,842	467,568	440,354	457,187	438,155	447,671	445,232	441,934	<b>441,900</b>	457,205
Navy	137,731	222,858	250,769	276,891	217,265	193,192	180,514	192,925	186,720	188,877	188,477	<b>188,500</b>	247,078
Portsmouth	398,827	407,837	411,578	455,255	410,309	381,114	380,190	369,706	374,948	377,003	359,891	<b>359,900</b>	432,782
<b>Total (in 1000's Gallons)</b>	<b>1,679,999</b>	<b>1,721,706</b>	<b>1,811,009</b>	<b>1,830,502</b>	<b>1,766,072</b>	<b>1,636,047</b>	<b>1,660,901</b>	<b>1,609,792</b>	<b>1,635,347</b>	<b>1,635,580</b>	<b>1,596,198</b>	<b>1,596,200</b>	<b>1,798,287</b>

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule B-7  
Water Production Peaking Analysis

Docket XXXX

Peaking Comparison										
Combined Station #1 and LV WTP Production Volumes in 1,000 gals								Peaks	Estimated	Diversity
2011	2012	2013	2014	2015	2016	2017	2018			
Annual Production	2,304,024	2,059,646	2,071,219	2,115,343	2,027,100	1,983,261	1,960,371	1,981,660	<b>1,971,016</b>	
Average Day Production	6,312	5,643	5,675	5,795	5,554	5,434	5,371	5,429	<b>5,400.04</b>	
Maximum Month Production	268,468	244,463	236,739	227,653	219,066	206,310	229,041	211,420	<b>220,230</b>	
Maximum Day Production	10,163	10,606	9,721	9,462	8,690	7,878	8,660	7,915	<b>8,287</b>	
Max Day Date	7/23/2011	7/7/2012	7/7/2012	7/6/2013	7/25/2014	7/24/2015	7/22/2016	8/22/2017		<b>1.34</b>
Maximum Day Peaking Factor	1.61	1.88	1.71	1.63	1.56	1.45	1.61	1.46	<b>1.5</b>	
Max-Day to Avg. Day/Max-Month Ratio	1.17	1.34	1.27	1.29	1.23	1.18	1.17	1.16	<b>1.2</b>	
Maximum Hour	12,100	12,500	14,200	12,500	16,000	12,600	13,100	15,900	<b>13,867</b>	
Maximum Hour Peaking Factor	1.92	2.22	2.50	2.16	2.88	2.32	2.44	2.93	<b>2.9</b>	<b>0.93</b>

(1) Calculated according to AWWA M-1 Guidelines

Rhode Island Public Utilities Commission

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FY 2020 Rate Filing

HJS Schedule B-8

Billed Demand Peaking Analysis: Determination of Customer Class Peaking Factors

**Estimation of Each Customer Class' Peaking Factors**

		Max Day Demand Factor	Max Hour Demand Factor
<b>Customer Class</b>	Residential	1.95	2.60
	Non-Residential	2.04	3.07
	Navy	1.73	2.46
	Portsmouth	1.92	2.56
	Fire		
<b>Estimated Systemwide Peaks</b>		1.95	2.72

(5)

(5) Fire peaking behavior is estimated using a separate methodology demonstrated in HJS Schedule B-11, Fire Protection Demand Analysis'.

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FY 2020 Rate Filing

HJS Schedule B-9

System Demands Imposed by Each Customer Class' Peaking Behavior

Rate Year Demand (1,000 gallons)						
Annual Demand	Average Daily Demand	Lost Water Adjustment	Adjusted Average Daily Demand	% Average Demand by Class	% Average Demand Ex PWFD & 50% Navy	% Average Demand Ex PWFD
Residential	605,900	1,660	497	2,157	40.92%	54%
Non-Residential	441,900	1,211	362	1,573	29.84%	39%
Navy	188,500	516	39	555	10.53%	7%
Portsmouth	359,900	986	-	986	18.71%	0%
Fire				N/A	N/A	N/A
<b>Total, w Fire Prot.</b>	<b>1,596,200</b>	<b>4,373</b>	<b>13%</b>	<b>5,271</b>	<b>100%</b>	<b>100%</b>
(1)						
<i>Production</i>	1,923,834	5,271	17.03%			

Customer Class	Max Day Calculations				% of Daily Peaks			Max Hour Calculations			% of Hourly Peaks		
	Max Day Peaking Factor	Demand x Peaking Factor (3)	Incremental Peak Demand	% of Daily Peaks	With Full PWFD & Navy	Without PWFD & 50% Navy	Without PWFD	Max Hour Peaking Factor	Demand x Peaking Factor	Incremental Peak Demand	With Full PWFD & Navy	Without PWFD & 50% Navy	Without PWFD
Residential	1.95	4,200	2,043	31.7%	31.7%	38.3%	36.9%	2.60	5,600	1,400	16.7%	18.6%	18.1%
Non-Residential	2.04	3,216	1,643	25.5%	25.5%	30.8%	29.7%	3.07	4,824	1,608	19.2%	21.4%	20.8%
Navy	1.73	962	407	6.3%	6.3%	3.8%	7.4%	2.46	1,365	404	4.8%	2.7%	5.2%
Portsmouth	1.92	1,895	909	14.1%	14.1%	0.0%	0.0%	2.56	2,526	632	7.6%	0.0%	0.0%
Fire	(2)	1,440	1,440	22.4%	22.4%	27.0%	26.0%		5,760	4,320	51.7%	57.4%	55.9%
Total, w Fire Prot.		11,713	6,442	100.0%	100.0%	100.0%	100.0%		20,076	8,363	100.0%	100.0%	100.0%
Total, without Fire Protection		10,273	5,002					14,316	4,043				
(demand is in thousands of gallons)													

(1) From HJS Schedule D-4. The lost water adjustment is made to the peaking analysis so that Portsmouth will not share in that portion of certain operating costs. Navy allocation is reduced to 25%.

(2) From HJS Schedule B-11, Fire Protection Demand Analysis'.

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HJS Schedule B-10

Summary of Peak Load Distributions (by Rate Class and Base/Extra-Capacity Categories)

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**EACH RATE CLASS' SHARE OF SYSTEM PEAKS**

<b>Rate Class</b>	<b>Average Demand</b>	<b>Daily Peaks</b>	<b>Hourly Peaks</b>
<b>Retail</b>			
Residential	41%	32%	17%
Non-Residential	30%	26%	19%
<b>Navy</b>	11%	6%	5%
<b>Portsmouth</b>	19%	14%	8%
<b>Fire</b>	N/A	22%	52%
	<b>100%</b>	<b>100%</b>	<b>100%</b>

**BASE/EXTRA-CAPACITY DISTRIBUTION OF SYSTEM PEAKS**

	<b>Incremental Demand</b>	<b>% Distribution for Max Day</b>	<b>% Distribution for Max Hour</b>
Base	5,400	65.2%	38.9%
Extra Capacity			
Max Day	2,887	34.8%	20.8%
Max Hour	5,579		40.2%
Fire Protection			
Max Day	-	0.0%	0.0%
Max Hour	-		0.0%
<b>Total%</b>		<b>100.0%</b>	<b>100.0%</b>
<b>Total 1000's Gallons</b>		<b>8,287</b>	<b>13,867</b>

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HJS Schedule B-11  
Fire Protection Demand Analysis

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**FIRE PROTECTION ASSUMPTIONS**

Fire Protection Flow (gals per minute)	4,000
Hourly Fire Protection Flow (1000's of gallons)	240
Length of Fire Event (in hours)	6

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FY 2020 Rate Filing

HJS Schedule D-1

Water Accounts, by Size and Class

Connection Size	Meter Factors	NON-RESIDENTIAL		RESIDENTIAL		WHOLESALE (Monthly)			
		Meter Read Frequency	Equivalent Meters	Meter Read Frequency	Equivalent Meters	Navy		Portsmouth	
		Monthly	Monthly	Monthly	Monthly	Meters	Equivalents	Meters	Equivalents
5/8	1.0	877	877	9,839	9,839	5	5	0	0
3/4	1.1	304	334	2,229	2,452	1	1	0	0
1	1.4	213	298	357	500	1	1	0	0
1.5	1.8	202	364	180	324	1	2	0	0
2	2.9	162	470	92	267	1	3	0	0
3	11.0	42	462	18	198	0	0	0	0
4	14.0	13	182	2	28	0	0	0	0
5	18.0	-	-	-	-	0	0	0	0
6	21.0	16	336	10	210	8	168	0	0
8	29.0	3	87	1	29	0	0	0	0
10	43.5	-	-	-	-	1	44	1	44
Total	<b>14,579</b>	1,832	3,410	12,728	13,847	18	224	1	44

Billed Monthly

Billed Quarterly

Billed Annually

Equivalent Billing Units	
<b>14,579</b>	<b>174,948</b>
-	-
<b>375</b>	<b>375</b>
<b>Total</b>	<b>175,323</b>

Equivalent Meter Units	
<b>17,525</b>	<b>210,300</b>
-	-
<b>N/A</b>	<b>N/A</b>
<b>Total</b>	<b>210,300</b>

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FY 2020 Rate Filing

HJS Schedule D-2

Fire Protection Accounts

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**Public Hydrants**

	Connection Size	Existing Differential	Number of Connections	Equivalent Connections (2)	
Newport	6	111.31	624	69,458	
Middletown	6	111.31	409	45,526	
Portsmouth	6	111.31	9	1,002	% of Equiv Connections
<b>Subtotal: Public Hydrants</b>			<b>1042</b>	<b>115,986</b>	<b>72%</b>

**Private Fire Connections**

	Connection Size	Existing Differential	Number of Connections	Equivalent Connections (2)	
	2	6.19	0	-	
	4	38.32	79	3,027	
	6	111.31	237	26,381	
	8	237.21	54	12,809	
	10	426.58	5	2,133	% of Equiv Connections
	12	689.04	0	-	
<b>Subtotal: Private Fire Connections</b>			<b>375</b>	<b>44,350</b>	<b>28%</b>
<b>Total Fire Connections</b>			<b>1,417</b>	<b>160,336</b>	<b>100%</b>

(1) Demand factors are based on the principles of the Hazen-Williams equation for flow through pressure conduits. For more information, see the AWWA M1 rate manual chapter on fire protection charges.

(2) Equivalent connections are arrived at by multiplying the number of connections by the demand factor.

**General Water Service**
**Subtotal General Service**  
**Private Fire Connections**

Connection Size	Service Cost	No. of Services	Equivalent Connections	
5/8	1.000	10,721	10,721	
3/4	1.000	2,534	2,534	
1	1.860	571	1,062	
1.5	4.630	383	1,773	
2	6.150	255	1,568	
3	11.060	60	664	
4	11.060	15	166	
5	11.060	0	0	
6	11.060	34	376	
8	11.060	4	44	% of Equiv Connections
10	11.060	2	22	
		<b>14,579</b>	<b>18,931</b>	<b>82%</b>

Connection Size	Service Cost	No. of Services	Equivalent Connections	
2	6.150	0	-	
4	11.060	79	874	
6	11.060	237	2,621	
8	11.060	54	597	
10	11.060	5	55	% of Equiv Connections
12	11.060	0	-	
<b>Subtotal: Private Fire Connections</b>		<b>375</b>	<b>4,148</b>	<b>18%</b>

**Annualized****Total Retail & Private Fire Connections**

	<b>12</b>	
<b>14,954</b>	<b>276,936</b>	<b>100%</b>

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Production Summary

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	Max. Month:	Station #1		Max. Month:	Lawton Valley		Max. Month:	Combined	
		In Gallons	in 1000's		In Gallons	in 1000's		In Gallons	in 1000's
<b><u>FY 12 JULY 2011 - JUNE 2012</u></b>									
		1,183,810,000	<b>1,183,810</b>		875,836,000	<b>875,836</b>		2,059,646,000	<b>2,059,646</b>
	July	145,762,000	<b>145,762</b>	July	98,700	<b>99</b>	July	244,462,700	<b>244,463</b>
<b><u>FY 13 JULY 2012 - JUNE 2013</u></b>									
		1,076,157,000	<b>1,076,157</b>		995,062,000	<b>995,062</b>		2,071,219,000	<b>2,071,219</b>
	July	116,038,000	<b>116,038</b>	July	120,700,600	<b>120,701</b>	July	236,738,600	<b>236,739</b>
<b><u>FY14 JULY 2013 - JUNE 2014</u></b>									
		1,151,855,000	<b>1,151,855</b>		963,487,700	<b>963,488</b>		2,115,342,700	<b>2,115,343</b>
	September	123,318,000	<b>123,318</b>	July	113,098,100	<b>113,098</b>	July	227,653,100	<b>227,653</b>
<b><u>FY 15 JULY 2014 - JUNE 2015</u></b>									
		874,221,000	<b>874,221</b>		1,152,879,049	<b>1,152,879</b>		2,027,100,049	<b>2,027,100</b>
	July	103,314,000	<b>103,314</b>	August	117,426,100	<b>117,426</b>	August	219,066,100	<b>219,066</b>
<b><u>FY 16 JULY 2015 - JUNE 2016</u></b>									
		831,234,272	<b>831,234</b>		1,152,026,776	<b>1,152,027</b>		1,983,261,048	<b>1,983,261</b>
	August	94,908,000	<b>94,908</b>	June	111,453,000	<b>111,453</b>	August	206,310,000	<b>206,310</b>
<b><u>FY 17 JULY 2016 - JUNE 2017</u></b>									
		830,036,752	<b>830,037</b>		1,130,333,841	<b>1,130,334</b>		1,960,370,593	<b>1,960,371</b>
	August	101,145,000	<b>101,145</b>	July	128,709,000	<b>128,709</b>	July	229,041,000	<b>229,041</b>
<b><u>FY 18 JULY 2017 - JUNE 2018</u></b>									
		831,195,415	<b>831,195</b>		1,150,465,037	<b>1,150,465</b>		1,981,660,452	<b>1,981,660</b>
	August	91,844,880	<b>91,845</b>	August	119,574,667	<b>119,575</b>	August	211,419,547	<b>211,420</b>

## MAX DAY PRODUCTION AVAILABLE FOR SALE

## Docket XXXX

	Station #1			Lawton Valley			Combined		
	Max Day Production			Max Day Production			Max Day Production		
	Max Day	In Gallons	in 1000's	Max Day	In Gallons	in 1000's	Max Day	In Gallons	in 1000's
<u>FY 12 JULY 2011 - JUNE 2012</u>	7/4/2011	5,703,000	5,703	8/3/2011	5,981,000	5,981	7/23/2011	10,606,000	10,606
<u>FY 13 JULY 2012 - JUNE 2013</u>	7/6/2012	4,697,000	4,697	9/25/2012	5,400,000	5,400	7/7/2012	9,721,000	9,721
<u>FY14 JULY 2013 - JUNE 2014</u>	9/30/2013	4,749,000	4,749	7/6/2013	5,025,000	5,025	7/6/2013	9,462,000	9,462
<u>FY 15 JULY 2014 - JUNE 2015</u>	9/16/2014	4,096,000	4,096	7/25/2014	5,100,000	5,100	7/25/2014	8,690,000	8,690
<u>FY 16 JULY 2015 - JUNE 2016</u>	7/24/2015	3,484,000	3,484	6/26/2016	4,594,000	4,594	7/24/2015	7,878,000	7,878
<u>FY 17 JULY 2016 - JUNE 2017</u>	7/22/2016	3,715,000	3,715	7/22/2016	4,945,000	4,945	7/22/2016	8,660,000	8,660
<u>FY 18 JULY 2017 - JUNE 2018</u>	7/20/2017	3,903,708	3,904	8/22/2017	5,212,210	5,212	8/22/2017	7,914,875	7,915

## PEAK HOURLY FLOW

	Date	Station #1		Date	Lawton Valley	
<u>FY 12 JULY 2011 - JUNE 2012</u>	7/5/2011	6.50	MGD	7/7/2011	6.0	MGD
<u>FY 13 JULY 2012 - JUNE 2013</u>	6/11/2013	8.20	MGD	7/17/2012	6.0	MGD
<u>FY14 JULY 2013 - JUNE 2014</u>	10/16/2013	6.50	MGD	7/7/2013	6.0	MGD
<u>FY 15 JULY 2014 - JUNE 2015</u>	8/29/2014	9.00	MGD	11/12/2014	7.0	MGD
<u>FY 16 JULY 2015 - JUNE 2016</u>	6/20/2016	5.60	MGD	5/26/2018	7.0	MGD
<u>FY 17 JULY 2016 - JUNE 2017</u>	8/7/2016	6.30	MGD	11/12/2016	6.8	MGD
<u>FY 18 JULY 2017 - JUNE 2018</u>	8/21/2017	8.50	MGD	8/21/2018	7.4	MGD

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FY 2020 Rate Filing

HJS Schedule D-4

Demand Summary

	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
<b>Fiscal Year Annual Demand</b>								
Residential	640,966	618,574	663,331	651,514	670,930	621,387	643,010	609,006
Non-Residential	502,475	472,437	485,331	446,842	467,568	440,354	457,187	438,155
Navy	137,731	222,858	250,769	276,891	217,265	193,192	180,514	192,925
Portsmouth	398,827	407,837	411,578	455,255	410,309	381,114	380,190	369,706
Total 1000's Gallons	<b>1,679,999</b>	<b>1,721,706</b>	<b>1,811,009</b>	<b>1,830,502</b>	<b>1,766,072</b>	<b>1,636,047</b>	<b>1,660,901</b>	<b>1,609,792</b>

<b>Max Month Demand</b>	<i>(1000's of gallons)</i>							
	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Residential	83,630		196,307	185,908	76,838	69,250	83,397	69,990
Commercial	61,978		67,646	78,970	58,767	52,691	60,766	54,230
Navy	24,640		25,677	33,876	30,167	24,095	18,507	18,345
Portsmouth	46,840		51,672	50,961	45,224	43,180	51,240	42,860
<b>NonCoincident Max Month</b>	<b>217,088</b>	<b>-</b>	<b>341,302</b>	<b>349,715</b>	<b>210,996</b>	<b>189,216</b>	<b>213,910</b>	<b>185,425</b>

**Unbilled for Water Analysis**

	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	3 Year Average	2 Year Average
Billed Consumption (1,000 gals.)	1,679,999	1,721,706	1,811,009	1,830,502	1,766,072	1,636,047	1,660,901	1,609,792	1,635,580	1,635,347
Total Water Produced (1,000 gals.)	2,304,024	2,059,646	2,071,219	2,115,343	2,027,100	1,983,261	1,960,371	1,981,660	1,975,097	1,971,016
Unaccounted for Water (1,000 gals.)	624,026	337,940	260,210	284,841	261,028	347,214	299,470	371,868	339,517	335,669
Percent Unaccounted for Water	27.08%	16.41%	12.56%	13.47%	12.88%	17.51%	15.28%	18.77%	17.1830%	17.03%

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HJS Schedule D-6  
Demand Factor Calculations

Docket XXXX

FY 2018 Retail Billed Consumption (kgal). Data from Demand Detail tab.

	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>Total</u>	<u>Avg Day</u>	<u>Max Mon</u>	<u>Avg Day</u> <u>Max Mo</u>
Residential	52,362	64,716	69,990	62,297	48,926	48,061	44,626	48,685	39,432	42,966	38,874	48,071	609,006	1,669	69,990	2,333
Non Residential	36,858	46,992	54,230	50,289	41,153	35,023	29,626	25,695	24,909	29,654	27,064	36,662	438,155	1,200	54,230	1,808
Navy	13,621	12,855	17,843	14,959	15,133	16,550	18,345	16,569	16,252	17,537	15,038	18,223	192,925	529	18,345	612
Portsmouth	31,510	42,590	42,860	36,810	34,810	25,806	25,230	29,340	24,290	21,540	27,590	27,330	369,706	1,013	42,860	1,429

	<u>Based on Monthly Billing Data</u>	
	<u>Residential</u>	<u>Non Residential</u>
FY 2018 Average Day (MGD)	1.67	1.20
Avg. Day of Max Month (MGD)	2.33	1.81
MM/AD Factor	1.40	1.51
System MD/MM Ratio	1.16	1.16
Weekly Usage Adjustment	1.20	1.17
<b>Max Day Capacity Factor</b>	<b>1.95</b>	<b>2.04</b>

	<u>Based on Daily Meter Data<sup>2</sup></u>	
	<u>Navy</u>	<u>PWFD</u>
FY 2018 Average Day	0.54	1.02
FY 18 Maximum Day	0.93	1.96
Max Day/Avg Day	1.73	1.92
	<b>1.73</b>	<b>1.92</b>

2 - Max Day Demand Factors for PWFD and the Navy are based on daily meter read data. PWFD data provided by W. McGlinn. Navy data gathered using data profilers installed on Navy meters.

## FY 18 System Demand Data

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System Avg. Day	5.43
System Max Day	7.91
Avg. Day of System Max. Month	6.82
System MD/MM Ratio	1.16

Max Day Diversity Factor Calculation	<u>Residential</u>	<u>Non-Residential</u>	<u>Navy</u>	<u>PWFD</u>	
Class Average Day (mgd)	1.67	1.20	0.53	1.02	
Class MD Demand Factor	1.95	2.04	1.73	1.92	<b>Total MD Demand</b>
Max Day Demand (Avg. Day X MD Demand Factor)	3.25	2.45	0.92	1.96	<b>8.6</b>
System Average Day (mgd)	5.43		Year	2018	
System Maximum Day (mgd)	7.91				
System Maximum Hour (mgd)	15.90				
	MD Demand		AD Demand		
Noncoincident MD Capacity Factor	8.58	/	5.43	=	1.58
Coincident MD Capacity Factor	7.91	/	5.43	=	1.46
			<b>Max Day Diversity Factor</b>		<b>1.08</b>

Maximum Hour Demand Factor Calculation	<u>Residential</u>	<u>Non-Residential</u>	<u>Navy*</u>	<u>PWFD</u>	
MD Capacity Factor	1.95	2.04	1.73	1.92	
Estimated Maximum-Hour (MH)/MD Ratio <sup>3</sup>	1.33	1.50		1.33	
Calculated MH Capacity Factor	2.60	3.07	2.46	2.56	

Max Hour Diversity Factor Calculation	<u>Residential</u>	<u>Non-Residential</u>	<u>Navy</u>	<u>PWFD</u>	
Class Average Day (mgd)	1.67	1.20	0.53	1.02	
Class MH Demand Factor	2.60	3.07	2.46	2.56	<b>Total MH Demand</b>
Max Hour Demand (Avg. Day X MH Demand Factor)	4.33	3.68	1.30	2.61	<b>11.93</b>
System Average Day (mgd)	5.43				
System Maximum Day (mgd)	7.91				
System Maximum Hour (mgd)	15.90				
	MH Demand		AD Demand		
Noncoincident MH Capacity Factor	11.93	/	5.43	=	2.20
Coincident MH Capacity Factor	15.90	/	5.43	=	2.93
			<b>Max Hour Diversity Factor</b>		<b>0.75</b>

## 3- MH/MD Ratio Assumptions:

Residential =24 hr. / 18 hr.

Commercial =24 hr. / 16 hr.

Navy =24 hr. / 18 hr.

PWFD =24 hr. / 18 hr.

\* Navy Max Hour developed using hourly meter data.

## Docket XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-5  
Debt Service Restricted Account Cashflow

FY 2018 ACTUAL												
	July	August	September	October	November	December	January	February	March	April	May	June
<b>Debt Service Account</b>												
<b>Beginning Cash Balance</b>	\$ 4,326,992	\$ 4,895,623	\$ 5,464,815	\$ 589,892	\$ 1,157,484	\$ 1,725,297	\$ 2,293,377	\$ 2,985,126	\$ 3,554,201	\$ 2,813,509	\$ 3,382,835	\$ 3,952,995
<b>Additions</b>												
From Rates	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583
From Capital Restricted Acct.	-	-	-	-	-	-	123,192	-	-	-	-	-
Interest Income	1,048	1,608	1,922	8	230	496	974	1,492	1,766	1,743	2,577	3,383
<b>Total Additions</b>	\$ 568,632	\$ 569,192	\$ 569,505	\$ 567,592	\$ 567,813	\$ 568,079	\$ 691,749	\$ 569,076	\$ 569,349	\$ 569,326	\$ 570,160	\$ 570,966
<b>Deductions</b>												
To Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Existing Debt Service	-	-	5,444,428	-	-	-	-	-	1,310,042	-	-	-
<b>Total Deductions</b>	\$ -	\$ -	\$ 5,444,428	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,310,042	\$ -	\$ -	\$ -
<b>Ending Cash Balance</b>	\$ 4,895,623	\$ 5,464,815	\$ 589,892	\$ 1,157,484	\$ 1,725,297	\$ 2,293,377	\$ 2,985,126	\$ 3,554,201	\$ 2,813,509	\$ 3,382,835	\$ 3,952,995	\$ 4,523,961

FY 2019 ACTUAL						FY 2019 PROJECTED						
	July	August	September	October	November	December	January	February	March	April	May	June
<b>Debt Service Account</b>												
<b>Beginning Cash Balance</b>	\$ 4,523,961	\$ 5,095,698	\$ 142,721	\$ 716,147	\$ 1,284,000	\$ 1,852,589	\$ 2,421,672	\$ 2,989,255	\$ 3,556,839	\$ 3,169,569	\$ 3,737,152	\$ 4,304,736
<b>Additions</b>												
From Rates	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583	\$567,583
From Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Interest Income	4,153	5,328	5,842	270	1,005	1,500	-	-	-	-	-	-
<b>Total Additions</b>	\$ 571,736	\$ 572,912	\$ 573,426	\$ 567,854	\$ 568,589	\$ 569,083	\$ 567,583	\$ 567,583	\$ 567,583	\$ 567,583	\$ 567,583	\$ 567,583
<b>Deductions</b>												
To Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Use of Bond Proceeds	-	-	-	-	-	-	-	-	(304,528)	-	-	-
Existing Debt Service	-	5,525,888	-	-	-	-	-	-	1,259,382	-	-	-
<b>Total Deductions</b>	\$ -	\$ 5,525,888	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 954,853	\$ -	\$ -	\$ -
<b>Ending Cash Balance</b>	\$ 5,095,698	\$ 142,721	\$ 716,147	\$ 1,284,000	\$ 1,852,589	\$ 2,421,672	\$ 2,989,255	\$ 3,556,839	\$ 3,169,569	\$ 3,737,152	\$ 4,304,736	\$ 4,872,319

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	FY 2020 PROJECTED											
	July	August	September	October	November	December	January	February	March	April	May	June
<b><u>Debt Service Account</u></b>												
<b>Beginning Cash Balance</b>	<b>\$ 4,872,319</b>	<b>\$ 5,439,902</b>	<b>\$ 428,445</b>	<b>\$ 1,298,240</b>	<b>\$ 1,863,506</b>	<b>\$ 2,428,773</b>	<b>\$ 2,994,039</b>	<b>\$ 3,559,305</b>	<b>\$ 4,124,571</b>	<b>\$ 3,553,032</b>	<b>\$ 4,118,298</b>	<b>\$ 4,683,564</b>
<b><u>Additions</u></b>												
From Rates	\$567,583	\$567,583	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266
From Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Interest Income	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Additions</b>	<b>\$ 567,583</b>	<b>\$ 567,583</b>	<b>\$ 565,266</b>	<b>\$ 565,266</b>	<b>\$ 565,266</b>	<b>\$ 565,266</b>	<b>\$ 565,266</b>	<b>\$ 565,266</b>	<b>\$ 565,266</b>	<b>\$ 565,266</b>	<b>\$ 565,266</b>	<b>\$ 565,266</b>
<b><u>Deductions</u></b>												
To Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Use of Bond Proceeds			(304,528)						(67,349)			
Existing Debt Service		5,579,040							1,204,155			
<b>Total Deductions</b>	<b>\$ -</b>	<b>\$ 5,579,040</b>	<b>\$ (304,528)</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,136,806</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Ending Cash Balance</b>	<b>\$ 5,439,902</b>	<b>\$ 428,445</b>	<b>\$ 1,298,240</b>	<b>\$ 1,863,506</b>	<b>\$ 2,428,773</b>	<b>\$ 2,994,039</b>	<b>\$ 3,559,305</b>	<b>\$ 4,124,571</b>	<b>\$ 3,553,032</b>	<b>\$ 4,118,298</b>	<b>\$ 4,683,564</b>	<b>\$ 5,248,831</b>

	FY 2021 PROJECTED											
	July	August	September	October	November	December	January	February	March	April	May	June
<b>Debt Service Account</b>												
<b>Beginning Cash Balance</b>	<b>\$ 5,248,831</b>	<b>\$ 5,814,097</b>	<b>\$ 603,848</b>	<b>\$ 1,169,114</b>	<b>\$ 1,734,381</b>	<b>\$ 2,299,647</b>	<b>\$ 2,864,913</b>	<b>\$ 3,430,179</b>	<b>\$ 3,995,446</b>	<b>\$ 3,333,777</b>	<b>\$ 3,899,043</b>	<b>\$ 4,464,309</b>
<u>Additions</u>												
From Rates	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266	\$565,266
From Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Interest Income	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Additions</b>	<b>\$ 565,266</b>	<b>\$ 565,266</b>	<b>\$ 565,266</b>	<b>\$ 565,266</b>	<b>\$ 565,266</b>	<b>\$ 565,266</b>	<b>\$ 565,266</b>	<b>\$ 565,266</b>	<b>\$ 565,266</b>	<b>\$ 565,266</b>	<b>\$ 565,266</b>	<b>\$ 565,266</b>
<u>Deductions</u>												
To Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Existing Debt Service		5,775,515	-						1,226,935			
<b>Total Deductions</b>	<b>\$ -</b>	<b>\$ 5,775,515</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,226,935</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Ending Cash Balance</b>	<b>\$ 5,814,097</b>	<b>\$ 603,848</b>	<b>\$ 1,169,114</b>	<b>\$ 1,734,381</b>	<b>\$ 2,299,647</b>	<b>\$ 2,864,913</b>	<b>\$ 3,430,179</b>	<b>\$ 3,995,446</b>	<b>\$ 3,333,777</b>	<b>\$ 3,899,043</b>	<b>\$ 4,464,309</b>	<b>\$ 5,029,575</b>

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	FY 2022 PROJECTED											
	July	August	September	October	November	December	January	February	March	April	May	June
<b><u>Debt Service Account</u></b>												
<b>Beginning Cash Balance</b>	<b>\$ 5,029,575</b>	<b>\$ 5,641,026</b>	<b>\$ 306,330</b>	<b>\$ 917,781</b>	<b>\$ 1,529,232</b>	<b>\$ 2,140,683</b>	<b>\$ 2,752,134</b>	<b>\$ 3,363,585</b>	<b>\$ 3,975,036</b>	<b>\$ 3,424,843</b>	<b>\$ 4,036,294</b>	<b>\$ 4,647,745</b>
<b><u>Additions</u></b>												
From Rates	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451
From Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Interest Income	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Additions</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>
<b><u>Deductions</u></b>												
To Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Existing Debt Service		5,946,147							1,161,643			
<b>Total Deductions</b>	<b>\$ -</b>	<b>\$ 5,946,147</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,161,643</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Ending Cash Balance</b>	<b>\$ 5,641,026</b>	<b>\$ 306,330</b>	<b>\$ 917,781</b>	<b>\$ 1,529,232</b>	<b>\$ 2,140,683</b>	<b>\$ 2,752,134</b>	<b>\$ 3,363,585</b>	<b>\$ 3,975,036</b>	<b>\$ 3,424,843</b>	<b>\$ 4,036,294</b>	<b>\$ 4,647,745</b>	<b>\$ 5,259,196</b>

	FY 2023 PROJECTED											
	July	August	September	October	November	December	January	February	March	April	May	June
<b>Debt Service Account</b>												
<b>Beginning Cash Balance</b>	<b>\$ 5,259,196</b>	<b>\$ 5,870,647</b>	<b>\$ 299,961</b>	<b>\$ 911,412</b>	<b>\$ 1,522,862</b>	<b>\$ 2,134,313</b>	<b>\$ 2,745,764</b>	<b>\$ 3,357,215</b>	<b>\$ 3,968,666</b>	<b>\$ 3,427,757</b>	<b>\$ 4,039,208</b>	<b>\$ 4,650,659</b>
<b>Additions</b>												
From Rates	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451
From Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Interest Income	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Additions</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>
<b>Deductions</b>												
To Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Existing Debt Service		6,182,137							1,152,360			
<b>Total Deductions</b>	<b>\$ -</b>	<b>\$ 6,182,137</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,152,360</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Ending Cash Balance</b>	<b>\$ 5,870,647</b>	<b>\$ 299,961</b>	<b>\$ 911,412</b>	<b>\$ 1,522,862</b>	<b>\$ 2,134,313</b>	<b>\$ 2,745,764</b>	<b>\$ 3,357,215</b>	<b>\$ 3,968,666</b>	<b>\$ 3,427,757</b>	<b>\$ 4,039,208</b>	<b>\$ 4,650,659</b>	<b>\$ 5,262,109</b>

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FY 2024 PROJECTED												
July	August	September	October	November	December	January	February	March	April	May	June	
<b>Debt Service Account</b>												
Beginning Cash Balance	\$ 5,262,109	\$ 5,873,560	\$ 222,565	\$ 834,016	\$ 1,445,466	\$ 2,056,917	\$ 2,668,368	\$ 3,279,819	\$ 3,891,270	\$ 3,430,737	\$ 4,042,188	\$ 4,653,639
Additions												
From Rates	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451
From Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Interest Income	-	-	-	-	-	-	-	-	-	-	-	-
Total Additions	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451
Deductions												
To Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Existing Debt Service		6,262,447						1,071,984				
Total Deductions	\$ -	\$ 6,262,447	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,071,984	\$ -	\$ -	\$ -
Ending Cash Balance	\$ 5,873,560	\$ 222,565	\$ 834,016	\$ 1,445,466	\$ 2,056,917	\$ 2,668,368	\$ 3,279,819	\$ 3,891,270	\$ 3,430,737	\$ 4,042,188	\$ 4,653,639	\$ 5,265,090

FY 2025 PROJECTED												
July	August	September	October	November	December	January	February	March	April	May	June	
<b>Debt Service Account</b>												
Beginning Cash Balance	\$ 5,265,090	\$ 5,876,541	\$ 148,074	\$ 759,525	\$ 1,370,975	\$ 1,982,426	\$ 2,593,877	\$ 3,205,328	\$ 3,816,779	\$ 3,442,624	\$ 4,054,074	\$ 4,665,525
Additions												
From Rates	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451
From Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Interest Income	-	-	-	-	-	-	-	-	-	-	-	-
Total Additions	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451	\$ 611,451
Deductions												
To Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Existing Debt Service		6,339,918						985,606				
Total Deductions	\$ -	\$ 6,339,918	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 985,606	\$ -	\$ -	\$ -
Ending Cash Balance	\$ 5,876,541	\$ 148,074	\$ 759,525	\$ 1,370,975	\$ 1,982,426	\$ 2,593,877	\$ 3,205,328	\$ 3,816,779	\$ 3,442,624	\$ 4,054,074	\$ 4,665,525	\$ 5,276,976

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	FY 2026 PROJECTED											
	July	August	September	October	November	December	January	February	March	April	May	June
<b><u>Debt Service Account</u></b>												
<b>Beginning Cash Balance</b>	<b>\$ 5,276,976</b>	<b>\$ 5,888,427</b>	<b>\$ 78,346</b>	<b>\$ 689,797</b>	<b>\$ 1,301,248</b>	<b>\$ 1,912,699</b>	<b>\$ 2,524,150</b>	<b>\$ 3,135,601</b>	<b>\$ 3,747,052</b>	<b>\$ 3,465,154</b>	<b>\$ 4,076,605</b>	<b>\$ 4,688,056</b>
<b><u>Additions</u></b>												
From Rates	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451	\$611,451
From Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Interest Income	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Additions</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>	<b>\$ 611,451</b>
<b><u>Deductions</u></b>												
To Capital Restricted Acct.	-	-	-	-	-	-	-	-	-	-	-	-
Existing Debt Service	-	6,421,532	-	-	-	-	-	-	893,349	-	-	-
<b>Total Deductions</b>	<b>\$ -</b>	<b>\$ 6,421,532</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 893,349</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Ending Cash Balance</b>	<b>\$ 5,888,427</b>	<b>\$ 78,346</b>	<b>\$ 689,797</b>	<b>\$ 1,301,248</b>	<b>\$ 1,912,699</b>	<b>\$ 2,524,150</b>	<b>\$ 3,135,601</b>	<b>\$ 3,747,052</b>	<b>\$ 3,465,154</b>	<b>\$ 4,076,605</b>	<b>\$ 4,688,056</b>	<b>\$ 5,299,507</b>

## Docket No. XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-7  
Expense Detail - Administration

DOCKET XXXX

Account	Description	comments	Calculation FY 2020	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50001	Salaries & Wages							
	Director of Utilities - 60%	S-13	\$ 87,347					
	Administrative Secretary - 60%	S-04	\$ 34,986					
	Deputy Director - Finance - 60%	S-11	\$ 66,733					
	Deputy Director - Engineering - 60%	S-11	\$ 76,332					
	Financial Analyst 50%	N03-5	\$ 32,520					
	Total		\$ 297,917	\$281,582	\$286,219	\$ 286,942	\$10,975	\$ 297,917
50044	Standby Salaries							
	3 employees per week at \$120 per week	3 employees \$120 per week 52 wks.	\$ 18,720	\$18,720	\$18,720	\$ 18,857 error - reclass \$5,760	-\$137	\$ 18,720
50520	Severance Benefits							
	vacation payout & sick time payout paid from restricted bank account	fy 2018 4 employees \$91,327					\$0	\$ -
50100	Employee Benefits							
	Director of Utilities - 60%	S-13	\$ 37,338					
	Administrative Secretary - 60%	S-04	\$ 22,638					
	Deputy Director - Finance - 60%	S-11	\$ 32,008					
	Deputy Director - Engineering - 60%	S-11	\$ 23,737					
	Financial Analyst 50%	N03-5	\$ 20,300					
	FICA on standby salaries, leave buyback, severance	\$ 1,623						
	Total	\$ 137,644	\$ 137,644	\$115,683	\$140,125	\$ 139,015	-\$1,371	\$ 137,644
50103	Retiree Insurance Coverage	Fy 2019 rates monthly	\$28,441 \$3,791 \$32,232					
			\$ 386,784	\$265,000	\$265,000	\$ 372,907	\$13,877	\$ 386,784
50105	Workers Compensation							
	Premium fy 2018-2019	\$55,985						
	Quarterly direct charges	\$1,400						
	fy 2018 included audit adj of \$15.5k for 2016-7	\$57,385	\$57,385	\$64,000	\$64,000	\$ 78,304	-\$20,919	\$ 57,385

## Docket No. XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-7  
Expense Detail - Administration

DOCKET XXXX

Account	Description	comments	Calculation FY 2020	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50175	Annual Leave Buyback	3 year average	\$ 2,500	\$3,300	\$3,300	\$ 3,750	-\$1,250	\$ 2,500
50207	Advertisement	use existing budget	\$ 9,000	\$9,000	\$9,000	\$ 2,481	\$6,519	\$ 9,000
50210	Membership Dues & Subscriptions							
		2018	2020					
	RIWWA (7)	\$350	\$350					
	RI Secretary of State Notary Public	\$160	\$80					
	RI PE License (2)		\$600					
	AWWA dues	<u>\$4,022</u>	<u>\$4,025</u>					
	Total	\$4,532	\$5,055	\$5,055	\$2,500	\$2,500	\$ 4,532	\$ 5,055
50212	Conferences & Training	use existing budget	\$ 4,000	\$4,000	\$4,000	\$ 410	\$3,590	\$ 4,000
50214	Tuition Reimbursement	use existing budget	\$2,000	\$ 2,000	\$2,000	\$ -	\$2,000	\$ 2,000
50220	Consultant Fees	2018	2020					
	Legal Fees Includes Rate Case	\$8,400	\$110,000					
	Financial Consultant Rate case		\$67,000					
	PUC Rate Case Fees		\$60,350					
	Legal fees (non rate case)		\$8,400					
	Bank Trustee Fees	\$5,100	\$5,100					
	Wimborne property tax advisor	<u>\$775</u>	<u>\$775</u>					
	Total	\$14,275	\$251,625	\$251,625	\$136,878	\$136,878	\$ 14,275	\$237,350
50238	Postage	USPS & Fedx	\$1,000	\$ 1,000	\$1,000	\$ 941	\$59	\$ 1,000
50239	Fire & Liability Insurance	premium for fy2018-2019	\$36,500	\$36,500	\$67,000	\$ 78,689	-\$42,189	\$ 36,500

## Docket No. XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-7  
Expense Detail - Administration

DOCKET XXXX

Account	Description	comments	Calculation FY 2020	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50251	Telephone & Communication							
		monthly @ \$543	\$6,520					
		iPads 6 @ \$40	\$2,880					
		device replacement	<u>\$1,200</u>					
			\$10,600	\$10,600	\$5,600	\$5,600	\$ 10,808	-\$208
								\$ 10,600
50261	Property Taxes							
		2019 with 2%						
	Portsmouth	\$440,210	\$449,014					
	Tiverton	\$36,565	\$37,296					
	Little Compton	\$11,756	\$11,991					
	Middletown	<u>\$58,000</u>	<u>\$59,160</u>					
	Total	\$548,550	\$557,462	\$557,462	\$567,770	\$567,770	\$ 535,316	\$22,146
								\$ 557,462
50266	Legal & Administrative	updated to FY 2019 Budget	\$ 328,312	\$333,848	\$333,848	\$ 333,848	-\$5,536	\$ 328,312
50267	Data Processing (MIS)	updated to FY 2019 Budget	\$ 343,175	\$231,161	\$231,161	\$ 231,161	\$112,014	\$ 343,175
50268	Mileage Allowance		\$ 2,000	\$2,000	\$2,000	\$ 392	\$1,608	\$ 2,000
50271	Gasoline & Vehicle Allowance							
		cost per vehicle	\$6,410					
		# of vehicles	<u>1.00</u>					
	Total	\$ 6,410	\$ 6,410	\$5,389	\$5,389	\$ 10,723	-\$4,313	\$ 6,410
50275	Repairs & Maintenance							
		misc exp \$ 1,000	\$ 1,000	\$1,200	\$1,200		\$1,000	\$ 1,000
50280	Regulatory Expense							
		misc exp \$ 1,500	\$ 1,500	\$5,000	\$5,000	\$ 906	\$594	\$ 1,500

## Docket No. XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-7  
Expense Detail - Administration

DOCKET XXXX

Account	Description	comments	Calculation FY 2020	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50281	Regulatory Assessment							
		FY 2018	FY 2020					
		RI Div. of PUC - Assessment	\$89,946					
		RI Dept. of Health - License	\$21,810					
		RIWWA Assessment	<u>\$700</u>					
		Total	\$112,456	\$133,333	\$	133,500	\$80,000	\$80,000
							\$	112,456
							\$21,044	\$ 133,500
50305	Water							
		total	\$150 avg per mo	\$1,800	\$2,015	\$2,015	\$	1,725
							\$75	\$1,800
50306	Electricity 70 Halsey St.							
		2 yr. avg kwh usage	37,332					
		total cost	\$6,950	\$6,950	\$7,956	\$7,956	\$	7,293
							-\$343	\$ 6,950
50307	Natural Gas							
		2 yr. avg therms	4533					
		cost \$	5,125	\$	5,125	\$5,226	\$	5,504
							-\$379	\$ 5,125
50361	Office Supplies							
		3 year avg						
		2016	\$12,137					
		2017	\$13,258	\$12,000	\$	11,845	\$15,000	\$15,572
		2018	\$10,136				\$	10,136
							\$1,709	\$ 11,845
50464	Water Revenue reserve							
		"not included in budget"	\$	254,733			\$0	
50505	Self Insurance							
			\$	5,000	\$5,000	\$5,000	\$	2,584
							\$2,416	\$ 5,000
Total				\$2,624,809	\$2,237,828	\$2,267,479	\$	2,263,955
							\$360,854	\$ 2,624,809
		check	\$	2,624,809	\$2,237,828		\$	2,414,709

## Docket No. XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-8  
Expense Detail - Customer Service  
15-500-2209

Account	Description	Comments detail for 2020	Calculation FY 2020	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year	
50001	Salaries & Wages								
		Meter Repairman/Reader	U2-1						
		Prin. Account Clerk	U2-1						
		Meter Repairman/Reader	U2-7						
		Maintenance Mechanic	U2-8						
		Billing Clerk 50% allocation	U4-1						
		Meter Repairman/Reader	U3-5						
		Water Meter Foreman	U6-5						
		Total		\$297,917	\$316,581	\$291,674	\$41,740	\$333,414	
50002	Overtime								
		seasonal shutoff notices	2 yr avg	\$2,700	\$5,409	\$5,409	\$2,611	\$89	\$2,700
50004	Temp Salaries			\$14,976	\$14,976	\$0	\$0	\$0	
50100	Employee Benefits								
		Meter Repairman/Reader	U2-1						
		Prin. Account Clerk	U4-1						
		Meter Repairman/Reader	U2-7						
		Maintenance Mechanic	U2-8						
		Billing Clerk 50% allocation	U4-1						
		Meter Repairman/Reader	U3-5						
		Water Meter Foreman	U6-5						
		FICA on OT, Temp salaries & Leave Buyback		\$524					
		Total		\$235,533	\$235,010	\$174,457	\$173,340	\$62,193	\$235,533
50120	Bank Fees (lock box)	\$1,200 per month	\$	14,400	\$16,800	\$16,800	\$13,298	\$1,102	\$14,400
50175	Annual Leave Buyback	3 year average		\$4,150	\$4,150	\$4,500	\$2,526	\$1,624	\$4,150
50205	Copying & binding			600	\$500	\$500	\$532	\$68	\$600

## Docket No. XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-8  
Expense Detail - Customer Service  
15-500-2209

Account	Description	Comments detail for 2020	Calculation FY 2020	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50212	Conferences & Training							
	Backflow Prevention Device Inspectors / Tester							
	Recertification Training		\$700					
	Cross Connection Control Surveyor							
	Trainign & Certification		\$1,150					
	Fundamentals of Cross Conection Control		\$850					
	American Backflow Prevention Association		\$300					
	Total		\$3,000	\$5,000	\$5,000	\$840	\$2,160	\$3,000
50225	Support Services							
	Printing & mailing (TouchPoint Communications)		\$16,275					
	Opal Maintenance Contract		\$5,700					
	Beacon Mobile License		\$4,900					
	Beacon Mobile Hosting		\$21,240					
	Badger/orion service contract		\$3,500					
	total		\$51,615	\$26,175	\$26,175	\$19,252	\$32,363	\$51,615
50238	Postage							
	Postage paid thru printer	\$5,300 mo.	\$63,600					
	USPS direct paid	\$50 per mo.	\$600					
	total		\$64,200	\$74,680	\$74,680	\$62,307	\$1,893	\$64,200
50271	Gasoline & Vehicle Allowance							
	cost per vehicle		\$6,410					
	# vehicles	5						
			\$32,050	\$26,945	\$26,945	\$30,831	\$1,219	\$32,050
50275	Repairs & Maintenance							
	Small Meters		\$10,000					
	Large Meters		\$10,000					
	Meter Pits		\$3,500					
	Strainers		\$2,000					
	Misc Parts and/or repair		\$2,700					
	meter gun repair							
	Trimble Handheld Repair and / or Replacement		\$3,850					
	CE /ME Receiver Reapair and / or Replacement		\$2,950					
	Total		\$35,000	\$35,000	\$39,880	\$22,708	\$12,292	\$35,000

## Docket No. XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-8  
Expense Detail - Customer Service  
15-500-2209

Account	Description	Comments detail for 2020	Calculation FY 2020	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50299	Meter Maintenance							
		Appurtenant piping, tail pieces, ss fasteners	\$3,500					
		Annual Calibration of Navy meters	\$2,500					
		reducing flanges						
		Annual Calibration of Portable Meter Tester	\$750					
		Certification of Backflow Testing Equipment	\$250					
		Reducing Flanges	\$2,000					
		Misc. Apts	\$1,000					
		Total	\$10,000	\$10,000	\$10,000	\$7,696	\$2,304	\$10,000
50311	Operating Supplies							
		Repair External meter devices	\$2,500					
		new tool & misc costs	\$2,500					
		gas detectors						
		confined space entry equipment						
		Machine & Tool Lubricant, Replace Blades,						
		Drill Bits, etc						
		Tools (crimping, cutting, drilling, etc.)						
		Service and Pit Keys						
		Total	\$5,000	\$5,000	\$5,000	\$7,924	(\$2,924)	\$5,000
50320	Uniforms & protective Gear							
		Unifirst uniforms	\$1,450					
		Safety Vests	\$150					
		Hi Viz Jackets	\$300					
		Gloves, Safety Glasses, Respirator, etc.	\$550					
			\$2,450	\$1,000	\$1,000	\$0	\$2,450	\$2,450
50380	Customer Service Supplies							
		Conservation material	\$ 3,000	\$5,000	\$5,000	\$1,951	\$1,049	\$3,000
		Total	\$ 797,112	\$763,562	\$726,903	\$637,490	\$159,622	\$797,112

## Docket XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-9  
Expense Detail - Source of Supply - Island  
15-500-2212

Account	Description	Comments	Calc	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50001	Salaries & Wages							
		Dist/Collect Operator	U3-7	\$56,404				
		Dist/Collection Foreman	U5-7	\$64,233				
		Dist/Collect Mechanic	U4-5	\$53,391				
		Laborer	U2-7	\$41,112				
		Dist/Collect Operator	U3-5	\$51,888				
		Super., Water Dist/Collect	N5-10	\$91,252				
		Allocate 50% (Distribution)		-\$45,626				
		Total		\$312,654	\$ 309,950	\$ 316,074	\$ 297,103	\$ 15,551 <span>\$312,654</span>
50002	Overtime							
		2 year average with union increase of 2% per year	\$	25,000	\$ 33,000	\$ 33,000	\$ 27,936	\$ (2,936) <span>\$ 25,000</span>
50004	Temp Salaries							
		2 people 19 weeks @\$15/hour	\$	22,800	\$ 26,180	\$ 26,180	\$ 20,270	\$ 2,530 <span>\$ 22,800</span>
50100	Employee Benefits							
		Dist/Collect Operator	U3-7	\$37,956				
		Dist/Collection Foreman	U5-7	\$39,710				
		Dist/Collect Mechanic	U4-5	\$37,034				
		Laborer	U2-7	\$33,275				
		Dist/Collect Operator	U3-5	\$36,574				
		Super., Water Dist/Collect	N5-10	\$47,710				
		Allocate 50% (Distribution)		-\$23,855				
		FICA on OT Temp & Leave buyback		<u>\$3,787</u>				
		Total		\$212,190	\$ 174,277	\$ 181,688	\$ 175,319	\$ 36,871 <span>\$ 212,190</span>

## Docket XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-9  
Expense Detail - Source of Supply - Island  
15-500-2212

Account	Description	Comments	Calc		Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50175	Annual Leave Buyback		3 yr avg	\$1,700	\$ 3,800	\$ 3,800	\$ -	\$ 1,700	\$1,700
50306	Contribution to Electricity Restricted Account St Mary's & Paradise Pumping Stations		2yr avg	203,960					
	kwh Usage								
	total cost			\$38,789	\$38,789	\$ 49,880	\$ 42,593	\$ (3,804)	\$ 38,789
50271	Gas/Vehicle Maintenance								
	cost per vehicle		\$	6,410					
	vehicles			11					
	total		\$	70,510	\$ 59,279	\$ 59,279	\$ 57,957	\$ 12,553	\$ 70,510
50275	Repairs & Maintenance								
(Industrial & Stonkus)	Annual Maintenance of pumps		\$	1,500					
	Misc Pump & minor repairs		\$	8,500					
	Aluminum boat & boat engine supplies		\$	1,500					
	Trimmers, blowers, chain saw, supplies, repairs & replace		\$	2,000					
	Misc.		\$	500					
	total		\$	14,000	\$ 10,000	\$ 10,115	\$ 11,086	\$ 2,914	\$ 14,000
50277	Reservoir Maintenance								
	Tree Removal			\$2,500					
	Dam repairs (gravel, riprap, gabions, etc.)			\$11,000					
	sign installation & Maintenance			\$2,000					
	aquatic herbicide & supplies			\$2,500					
	brush cutter/mower			\$5,000					
	dam inspections			\$2,000					
	total			\$25,000	\$ 16,000	\$ 16,000	\$ 21,424	\$ 3,576	\$25,000

## Docket XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-9  
Expense Detail - Source of Supply - Island  
15-500-2212

Account	Description	Comments	Calc	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50311	Operating Supplies							
		machine & tool lubricant	\$600					
		parts for trackless	\$700					
		Brush cutter/mower	\$400					
		small mower replacement	\$200					
		coppering bags	\$600					
		replacement blades/brush cutting	\$1,200					
		pest control	\$200					
		weed control (herbicides)	\$2,000					
		cement, grass seed, etc.	\$800					
		other						
		Total	\$6,700	\$ 7,500	\$ 7,500	\$ 9,251	\$ (2,551)	\$ 6,700
50320	Uniforms & protective Gear							
		UniFirst uniforms	\$1,450					
		Eye,ear & hand protection	\$150					
		Tyvek protective suits & shirts / vests	\$100					
		N95 respirator (dust masks)	\$200					
		insect repellent, poison ivy soap	\$100					
			\$2,000	\$ 1,510	\$ 1,510	\$ 238	\$ 1,762	\$ 2,000
50335	Chemicals							
		Copper Sulfate						
		usage in lbs	40,000					
		cost per lb	\$ 1.6200					
			\$ 64,800					
		Green Clean Pro						
		quantity	30,000					
		cost per lb	\$ 1.0000					
			\$ 30,000					
		total cost	\$ 94,800	\$ 66,800	\$ 66,800	\$ 61,200	\$ 33,600	\$ 94,800
total			\$ 826,143	\$ 747,085	\$ 771,826	\$ 724,377	\$ 101,766	\$ 826,143

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-10  
Expense Detail - Source of Supply - Mainland  
15-500-2213

## Docket XXXX

Account	Description	Comments			Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50002	Overtime	3 months (4.3 weeks) one day per week 24 hour day manage Sakonnet in addition to temp 2 year average							
		total	\$	4,000	\$	11,610	\$	5,023	\$ 4,000
50004	Temp Salaries								
	Sakonnet for 3 months 3 people at 40 hours per week at \$15 per hour	hours rate total		1,800 \$ 15 \$ 27,000	\$	29,996	\$	21,106	\$ 27,000
50005	Permanent Part time	12 months @ \$1,075 Caretaker Sakonnet Pump Station	\$	12,900	\$	12,900	\$	6,040	\$ 12,900
	Employee Benefits		\$	43,900					
50100	FICA 7.65% on OT, Temporary, Perm Part time Fringe on Part Time, Temp & OT		\$	7.65% \$3,358	\$	2,525	\$	2,555	\$ 2,461
50306	Contribution to Electricity Restricted Account Sakonnet pumping Station								
		kwh usage total cost		2 yr avg 823,788 \$160,790	\$	154,424	\$	154,424	\$ 149,593
50275	Repairs & Maintenance								
	(Industrial & Stonkus)	Annual Maintenance of pumps	\$	1,500					
		Pump, valve, electrical AC motors(VFD) repairs	\$	9,000					
		Emergency Repair - pumps / electrical	\$	2,000					
		Excavator & heavy Equip Rental	\$	4,000					
		Misc.	\$	500					
		total	\$	17,000	\$	7,000	\$	18,462	\$ 17,000

Account	Description
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## Comments

Docket 4595

Budget 2018

Actual FY 2018  
Test Year

Change from Test  
year to ProposedProposed FY  
2020 Rate Year

50277 Reservoir Maintenance

Tree Removal \$ 500

aquatic herbicide & supplies	\$	2,500
------------------------------	----	-------

brush cutter/mower	\$	5,000
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Dam improvement repairs (gravel, riprap, gabions, etc.)	\$	2,000
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dam inspections	\$	2,000
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total	\$	<u>12,000</u>
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\$4,500

\$4,500

\$ 4,199

\$7,801

\$	12,000
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50311 Operating Supplies

machine & tool lubricant, grease guns, etc	\$	200
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pest control	\$	200
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misc Supplies (papergoods, cleaners, etc.)	\$	100
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\$ 500

\$1,000

\$1,000

178

\$322

\$	500
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**total**

**\$ 237,548**

**\$ 223,955 \$**

**\$ 223,985**

**\$ 207,062**

**\$30,486**

**\$ 237,548**

## Docket XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-11  
Expense Detail - Station One  
15-500-2222

Account	Description	Comments	Detail	Calculation	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Budget 2015	Budget FY 2019	Proposed FY 2020 Rate Year
50001	Salaries & Wages										
		Water Plant Op - Grade3	U4-7	\$60,254							
		Water Plant Op - PC#3	U2-1	Vacant Position #1							
		Water Plant Op - Grade3	U4-7	\$60,217							
		Water Plant Op - Grade 3	U2-2	\$43,591							
		Water Plant Op - PC#3	U4-7	\$58,308							
		Water Qual/Prod Sup.	S08	\$85,729							
		Allocate 50% (Lawton Valley)		-\$42,864							
		Assist Water Treat Super	S07	\$76,851							
		Allocate 50% (Lawton Valley)		-\$38,426							
		Water Plant Op - PC#3	U4-6	\$56,611							
		Water Plant Op - Grade1	U2-7	\$47,659							
		Water Plant Op - Grade1	U2-3	\$44,898							
		Water Plant Op - Grade3	U4-7	\$60,217							
		Total		\$513,045	\$ 511,075	\$ 558,686	\$ 561,329	\$ (48,284)	\$ 519,056	\$547,256	\$ 513,045
50002	Overtime										
	2017 - \$78k	avg plus 2 % in both 2019 & 2020									
	2018 - \$92k										
		total		\$ 88,500	\$ 102,940	\$ 102,940	\$ 91,625	\$ (3,125)	\$ 60,021	\$102,940	\$ 88,500
50003	Holiday Pay										
		Operators		9.0							
		Holidays		12							
		Hours/Holiday		8							
		Average Pay Rate		\$ 25.21							
		Total		\$ 21,781	\$ 22,032	\$ 22,032	\$ 20,686	\$ 1,095	\$ 18,935	\$22,032	\$ 21,781
50045	Lead Plant Operator Stipend										
		3 staff \$80 per week 52 weeks		\$ 12,480	\$ 12,480	\$ 12,480	\$ 11,240	\$ 1,240	\$ 36,492	\$12,480	\$ 12,480

## Docket XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-11  
Expense Detail - Station One  
15-500-2222

Account	Description	Comments	Detail	Calculation				Change from				Proposed FY 2020						
					Docket 4595	Budget 2018	Actual FY 2018	Test year to		Budget FY 2019	Rate Year							
							Test Year	Proposed										
50100	Employee Benefits																	
		Water Plant Op - Grade3	U4-7	\$19,726														
		Water Plant Op - PC#3	U2-1	\$0														
		Water Plant Op - Grade3	U4-7	\$38,521														
		Water Plant Op - Grade 3	U2-2	\$34,034														
		Water Plant Op - PC#3	U4-7	\$38,539														
		Water Qual/Prod Sup.	S08	\$45,265														
		Allocate 50% (Lawton Valley)		-\$22,633														
		Assist Water Treat Super	S07	\$43,405														
		Allocate 50% (Lawton Valley)		-\$21,702														
		Water Plant Op - PC#3	U4-6	\$26,001														
		Water Plant Op - Grade1	U2-7	\$23,261														
		Water Plant Op - Grade1	U2-3	\$22,415														
		Water Plant Op - Grade3	U4-7	\$38,521														
		FICA on OT, Stipend, holiday, Leave Buyback		<u>\$10,279</u>														
		Total		295,630	\$	263,937	\$	287,885	\$	280,974	\$	14,656	\$	283,712	\$306,323	\$	295,630	
50175	Annual Leave Buyback		3 year averag	\$11,600	\$	12,000	\$	12,000	\$	9,645	\$	1,955	\$	5,000	\$12,000	\$	\$11,600	
50212	Conferences & Training																	
		RIDOH Required Certifications for 10 employees		\$	1,980													
		Supv/Plant Prod - RIWWA		\$	150													
		Supv/Plant Prod - NEWWA		\$	550													
		Conferences & Training		\$	540													
		Training, travel		<u>\$</u>	<u>1,000</u>													
		total		\$	4,500	\$	4,500	\$	4,500	\$	2,190	\$	2,310	\$	4,500	\$4,500	\$	4,500
50239	Fire & Liability Insurance																	
	RI Interlocal	Premium for fy 2018-2019		\$	64,765	\$	35,000	\$	35,000	\$	28,331	\$	36,434	\$	12,687	\$35,000	\$	64,765
50306	Contribution to Electricity Restricted Account																	
	100 Bliss Mine Rd		2 yr avg															
			kwh usage	1,438,960														
			cost	\$	226,185	\$	212,484	\$	212,484	\$	223,249	\$	2,936	\$	252,674	\$212,484	\$	226,185

## Docket XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-11  
Expense Detail - Station One  
15-500-2222

Account	Description	Comments	Detail	Calculation	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Budget 2015	Budget FY 2019	Proposed FY 2020 Rate Year
50307	Natural Gas		2 yr avg therms	22,194							
			cost	\$ 17,840	\$43,410	\$43,410	\$ 32,402	\$ (14,562)	\$ 24,250	\$43,410	\$ 17,840
50260	Rental of Equipment										
		Dumpster Rentals		\$ 850							
		chemical cylinders		\$ 150							
		total		\$ 1,000	\$1,000	\$1,000	\$ 1,854	\$ (854)	\$ 600	\$1,000	\$ 1,000
50305	Sewer Charge		2 yr average gallons	5,800,000							
			\$/Gal	\$ 20.50							
			Cost	\$ 118,900	\$ 204,000	\$ 204,000	\$ 99,180	\$ 19,720	\$ 293,020	\$204,000	\$ 118,900
50271	Gas/Vehicle Maintenance		cost per vehic vehicles	\$ 6,410 1	\$ 5,389	\$ 5,389	\$ 7,050	\$ (640)	\$ 8,360	\$5,389	\$ 6,410
50275	Repairs & Maintenance										
		Variable frequency Drives		\$ 3,000							
		Gas Boilers & Hot water Heater		\$ 5,000							
		Backup Gnerators-annual service		\$ 1,500							
		transfer switches		\$ 600							
		SCADA Maintenance & repair		\$ 14,000							
		Analyzer service		\$ 8,350							
		Building Systems & AC service contact		\$ 10,000							
		DAF Compressors		\$ 5,000							
		Fire Panel Maintenance		\$ 500							
		Reservoir Rd Storage Inspection		\$ 2,000							
		MCC Breaker Panel Inspection		\$ 2,000							
		Rebuild/Repack Raw water Pumps 1 & 2		\$ 2,300							
		DAF Pump Repair		\$ 570							
		Fire Extinguisher Service		\$ 180							
	total			\$ 55,000	\$ 66,992	\$ 72,469	\$ 33,512	\$ 21,488	\$ 15,000	\$66,992	\$ 55,000

## Docket XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-11  
Expense Detail - Station One  
15-500-2222

Account	Description	Comments	Detail	Calculation	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Budget 2015	Budget FY 2019	Proposed FY 2020 Rate Year									
50311	Operating Supplies																			
	Valves		\$	4,350	\$	4,350														
	Piping		\$	500	\$	500														
	Tools		\$	500	\$	500														
	Mechanical Seals & Packing		\$	500	\$	500														
	Analytical Analyzer Reagents		\$	3,830	\$	3,110														
	Analyzer probe Salt bridges, Cell Solution, Grit Filters		\$	669	\$	670														
	Fluoride Feeder Filter Pack		\$	364	\$	365														
	Roll towels, bathroom tissue		\$	250	\$	100														
	Cleaning supplies		\$	475	\$	200														
	Chemical Transfer Pumps		\$	2,050	\$	2,050														
	GLO2 Generator Maintenance Kit & Filters		\$	924	\$	925														
	Generator Fuel		\$	2,814	\$	850														
	Misc.		\$	880	\$	880														
	Total		\$	18,106	\$	15,000	\$	17,161	\$	16,426	\$	119	\$	14,881	\$	25,210	\$	17,161	\$	15,000
50320	Uniforms & Protective Gear																			
	Unifirst uniforms			\$2,575																
	Overboots			\$150																
	Rain Gear			\$300																
	Misc. gloves, eye protection			\$200																
	Coveralls			\$250																
	Respirator Work Lights			\$90																
	Work Lights			\$60																
				\$3,625	\$	1,426	\$	1,426	\$	835	\$	2,790	\$	1,062	\$	1,426	\$	3,625		

## Docket XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-11  
Expense Detail - Station One  
15-500-2222

Account	Description	Comments	Detail	Calculation	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Budget 2015	Budget FY 2019	Proposed FY 2020 Rate Year
50335	Chemicals										
		PACI Quantity		60,435							
		Unit Cost Per Gal		\$ 1.5900							
		PACI Total Cost		\$ 96,092							
		Hypochlorite Quantity		24,199							
		Unit Cost		\$ 0.9780							
		Chlorine Total Cost		\$ 23,667							
		Flouride quantity		6,000							
		Unit cost		\$ 0.5871							
		Flouride Total Cost		\$ 3,523							
		Sodium chlorite quantity		66,526							
		Unit Cost		\$ 0.5880							
		Sodium chlorite total Cost		\$ 39,117							
		32% HCl Quantity		4,625							
		Unit Cost Per Gal		\$ 1.3620							
		Sodium chlorite total Cost		\$ 6,299							
		Polymer Quantity		970							
		Unit Cost		\$ 8.6400							
		Polymer Total Cost		\$ 8,381							
		Sodium Hydroxide quantity		29,741							
		Unit Cost		\$ 1.0560							
		Sodium Hydroxide total cost		\$ 31,406							
		GAC Filters (816) Quantity		1,640							
		Unit Cost Per CF		\$ 30.78							
		GAC Total Cost		\$ 50,479							
		GAC AWT (400) Quantity		4							
		Unit Cost Per Vessel		\$ 41,814							
		GAC Total Cost		\$ 167,256							
		HCl Scrubber Media (Chlorosorb)									
		HCl Scrubber Media Total Cost		\$ 5,000							
		total		\$ 431,220	\$ 366,315	\$ 366,315	\$ 242,583	\$ 188,637	\$ 447,189	\$366,315	\$ 431,220
		total	\$	1,887,482	\$ 1,882,141	\$ 1,958,442	\$ 1,646,804	\$ 240,678	\$ 2,007,768	\$1,960,708	\$ 1,887,482

## Docket XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-12  
Expense Detail - Lawton Valley  
15-500-2223

Account	Description	Comments	Calc	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year						
50001	Salaries & Wages													
		Water Plant Op - PC#3	U4-4	53,363										
		Water Plant Op - PC#3	U4-7	59,254										
		Water Plant Op - Grade2	U4-7	57,130										
		Water Plant Op - PC#3	U4-7	59,117										
		Water Plant Op	U4-2	50,297										
		Allocated 50%	S08	42,864										
		Allocate 50% (Lawton Valley)	S07	38,426										
		Water Plant Op 1	U4-3	51,806										
		Water Plant Op - PC#3	U4-7	60,217										
		Water Plant Op - Grade3	U4-7	58,567										
		Total		531,042	\$	531,042	\$	506,954	\$	528,608	\$	2,434	\$	531,042
50002	Overtime													
	2017-\$110,513													
	2018 - \$102,478	2 yr avg plus union 2% inc for 2019 & 20		\$110,750	\$	98,903	\$	98,903	\$	102,478	\$	8,272	\$	110,750
50003	Holiday Pay													
	Operators			9										
	Holidays			12										
	Hours/Holiday			8										
	Average Pay Rat	\$50,000 per year	\$	24.04									\$	-
	Total		\$	19,615	\$	19,992	\$	19,992	\$	19,772	\$	(157)	\$	19,615
50045	Lead Plant Operator Stipend													
	3 staff \$80 per week 52 weeks		\$	12,480	\$	12,480	\$	12,480	\$	4,176	\$	8,304	\$	12,480

## Docket XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-12  
Expense Detail - Lawton Valley  
15-500-2223

Account	Description	Comments	Calc	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50100	Employee Benefits							
	Water Plant Op - PC#3	U4-4	\$37,025					
	Water Plant Op - PC#3	U4-7	\$38,828					
	Water Plant Op - Grade2	U4-7	\$38,178					
	Water Plant Op - PC#3	U4-7	\$38,786					
	Water Plant Op	U4-2	\$24,068					
	Allocated 50%	S08	\$22,633					
	Allocate 50% (Lawton Valley)	S07	\$21,702					
	Water Plant Op 1	U4-3	\$36,548					
	Water Plant Op - PC#3	U4-7	\$26,502					
	Water Plant Op - Grade3	U4-7	\$38,618					
	FICA on OT, holiday, Stipend, Leave buyback		\$11,654					
	Total		\$334,544	\$ 322,889	\$ 280,565	\$ 309,454	\$ 25,090	\$ 334,544
50175	Annual Leave Buyback	3 yr avg	\$ 9,500	\$ 7,400	\$ 7,400	\$ 9,724	\$ (224)	\$ 9,500
50212	Conferences & Training							
	RIDOH Required Certifications for 9 employees		\$ 1,980					
	Supv/Plant Prod - RIWWA		\$ 150					
	Supv/Plant Prod - NEWWA		\$ 550					
	Conferences & Training		\$ 540					
	Training, travel		\$ 900					
	total		\$ 4,120	\$4,120	\$4,120	\$ 2,495	\$ 1,625	\$ 4,120
50239	Fire & Liability Insurance							
	RI Interlocal	premium fy 2018-2019	\$ 60,325	\$ 54,000	\$ 54,000	\$ 61,505	\$ (1,180)	\$ 60,325
50306	Contribution to Electricity Restricted Account							
	Lawton Valley Treatment plant & pumping station	2 yr avg						
	kwh usage	1,898,977						
	cost		\$ 301,655	\$ 375,091	\$ 375,092	\$ 289,647	\$ 12,008	\$ 301,655

## Docket XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-12  
Expense Detail - Lawton Valley  
15-500-2223

Account	Description	Comments	Calc		Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50307	Natural Gas		2 yr average						
		Total Cost	cost	\$ 25,374 26,195	\$ 34,663	\$ 34,663	\$ 25,950	\$ 245	\$ 26,195
50260	Rental of Equipment								
		Dumpster Rentals	\$	850					
		chemical cylinders	\$	150					
		total	\$	1,000	\$ 1,000	\$ 1,000	\$ 322	\$ 678	\$ 1,000
50305	Sewer Charge								
	Gallons	2 yr average	\$	23,250,000					
	\$/Gal	per 1,000 rate	\$	20.50					
	Cost		\$	476,625	\$ 510,000	\$ 510,000	\$ 437,731	\$ 38,894	\$ 476,625
50271	Gas/Vehicle Maintenance								
		cost per vehicle	\$	6,410					
		3 of vehicles		1					
		total	\$	6,410	\$ 5,389	\$ 5,389	\$ 5,678	\$ 732	\$ 6,410
50275	Repairs & Maintenance								
		Variable frequency Drives	\$	3,000					
		Gas Boilers & Hot water Heater	\$	5,600					
		Backup Gnerators-annual service	\$	1,500					
		transfer switches	\$	600					
		SCADA Maintenance & repair	\$	14,000					
		Building Systems & A/C service contract	\$	18,000					
		Analyzeer service	\$	9,625					
		DAF Compressors	\$	4,000					
		Fire Panel Maintenance	\$	400					
		Tank Inspection	\$	4,275					
		Rebuild/Repack Raw water Pumppps 1 & 2	\$	3,000					
		Misc.	\$	1,000					
		total	\$	65,000	\$ 61,556	\$ 68,013	\$ 55,359	\$ 9,641	\$ 65,000

## Docket XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-12  
Expense Detail - Lawton Valley  
15-500-2223

Account	Description	Comments	Calc	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50311	Operating Supplies							
	Valves		\$ 500					
	Piping		\$ 500					
	Tools		\$ 500					
	Mechanical Seals & Packing		\$ 500					
	Analytical Analyzer Reagents		\$ 2,728					
	Analyzer probe Salt bridges, Cell Solution, Grit Filters		\$ 669					
	Fluoride Feeder Filter Pack		\$ 364					
	Roll towels, bathroom tissue		\$ 200					
	Cleaning Supplies		\$ 475					
	Chemical Transfer Pumps		\$ 2,050					
	GLO2 Generator Maintenance Kit & Filters		\$ 924					
	HVAC Filters		\$ 196					
	Generator Fuel		\$ 2,814					
	Misc.		\$ 880					
	Total		\$ 13,300	\$ 13,311	\$ 13,311	\$ 2,747	\$ 10,553	\$ 13,300
50320	Uniforms & protective Gear							
	Unifirst uniforms		\$2,290					
	Overboots		\$ 300					
	Rain Gear		\$ 200					
	Misc. Gloves, Eye pprotection		\$ 340					
	Coveralls		\$ 275					
	Respirator Work Lights		\$ 95					
	Work Lights		\$ 100					
			\$ 3,600	\$ 1,303	\$ 1,303	\$ 835	\$ 2,765	\$ 3,600

## Docket XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-12  
Expense Detail - Lawton Valley  
15-500-2223

Account	Description	Comments	Calc	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50335	Chemicals							
		PACI Quantity	86,535					
		Unit Cost Per Gal	\$ 1.5900					
		PACI Total Cost	\$ 137,591					
		Hypochlorite Quantity	32,982					
		Unit Cost	\$ 0.9780					
		Chlorine Total Cost	\$ 32,256					
		Flouride quantity	4,656					
		Unit cost	\$ 0.5871					
		Flouride Total Cost	\$ 2,734					
		Sodium chlorite quantity	39,000					
		Unit Cost	\$ 0.5880					
		Sodium chlorite total Cost	\$ 22,932					
		32% HCl Quantity	4,402					
		Unit Cost Per Gal	\$ 1.3620					
		Sodium chlorite total Cost	\$ 5,996					
		Polymer Quantity	805					
		Unit Cost	\$ 8.6400					
		Polymer Total Cost	\$ 6,955					
		Sodium Hydroxide quantity	33,955					
		Unit Cost	\$ 1.0560					
		Sodium Hydroxide total cost	\$ 35,856					
		GAC Filters (816) Quantity	1,760					
		Unit Cost Per CF	\$ 29.75					
		GAC Total Cost	\$ 52,360					
		GAC AWT (400) Quantity	4					
		Unit Cost Per Vessel	\$ 41,814					
		GAC Total Cost	\$ 167,256					
		HCl Scrubber Media (Chlorosorb)						
		HCl Scrubber Media Total Cost	\$ 5,000					
		total	\$ 468,936	\$ 328,667	\$ 328,667	\$ 332,292	\$ 136,644	\$ 468,936
total			\$ 2,445,097	\$ 2,381,806	\$ 2,321,852	\$ 2,188,773	\$ 256,324	\$ 2,445,097

## Docket XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-13  
Expense Detail - Laboratory  
15-500-2235

Account	Description	Comments	Detail	Calculation Amount	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50001	Salaries & Wages	Laboratory Supervisor	N03-6	\$78,895					
		Microbiologist	N04-8	\$65,068					
			Total	\$143,963	\$ 121,179	\$123,419	\$ 105,565	\$ 38,398	\$143,963
50100	Employee Benefits	Laboratory Supervisor	U3-1	\$44,841					
		Microbiologist	U4-2	\$41,608					
		Benefits on Annual leave buyback		\$325					
			Total	\$86,774	\$ 55,194	\$59,707	\$ 56,521	\$ 30,253	\$86,774
50175	Annual Leave Buyback	3 yr avg	Total	\$4,250	\$ 1,500	\$1,500	\$ 4,210	\$ 40	\$4,250
50275	Repairs & Maintenance	HACH QbD TOC analyzer		\$3,375					
		Calibration Bal & thermometers		\$550					
		Calibration lab weights		\$275					
		HACH calibrate TL 2300 (2)		\$1,000					
		HACH calibrate DR 3900 (2)		\$1,000					
			Total	\$6,200	\$ 1,700	\$1,700	\$ 995	\$ 5,205	\$6,200
50281	Regulatory Assessment	IDEXX/BACTERIA		\$7,100					
		UCMR 4 (begins Feb 2020)		\$16,920					
		TTHM / HASS		\$7,850					
		TOC		\$3,360					
		LEAD		\$650					
		COPPER		\$510					
		BROMIDE		\$790					
		SODIUM		\$1,250					
		ERA QC PT		\$1,850					
		LAB LICENSE		\$440					
		RIDOH		\$26,400					
		CHLORITES		\$1,800					
		CHLORATES		\$5,550					
		LT2 Cryptosporidium		\$2,400					
		ALGAE TOXIN		\$4,000					
		Algae Test Strips		\$2,830					
			Total	\$83,700	\$ 47,024	\$68,223	\$ 58,270	\$ 25,430	\$ 83,700

## Docket XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-13  
Expense Detail - Laboratory  
15-500-2235

Account	Description	Comments	Detail	Calculation Amount	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50339	Laboratory Supplies								
	Millipore Mills Q Interfural with UV		capital ?	\$0					
	Buffer, reagents, standards, electrodes, meters			\$14,640					
	Kimwipes, Gloves, Pipets, Glassware, Thermometers			\$3,450					
	Hach Turbidimeters			\$4,175					
	Hach Reagents and DR 3900			\$19,100					
	UV 254 Meter, vials, lamp assembly			\$4,700					
	Beau Hopkins Capital Controls Titrator and Pt/Pt probes			\$6,950					
	Swift Microscope, Counting Chamber and slides			\$1,985					
	total			\$55,000	\$ 35,627	\$21,128	\$ 21,104	\$ 33,896	\$ 55,000
	<b>Total</b>			<b>\$379,887</b>	<b>\$ 262,224</b>	<b>\$275,677</b>	<b>\$ 246,665</b>	<b>\$ 133,222</b>	<b>\$ 379,887</b>

## Docket XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-14  
Expense Detail - Distribution  
15-500-2241

Account	Description	Comments	Detail	calc	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50001	Salaries & Wages								
		HE Operator	U4-7	59,117					
		Dist/Collect Mechanic	U4-2	50,297					
		Dist/Collect Operator	U3-7	56,202					
		Dist/Collect Mechanic	U4-2	48,860					
		Dist/Collect Operator	U3-1	REMOVED to ALLOW FOR TWO OPEN POSITIONS					
		Dist/Collect Operator	U3-5	51,298					
		Dist/Collect Foreman	U5-7	64,913					
		Engineering Technician	U5-8	66,157					
		Engineering Technician	U5-3	55,259					
		Parts/Invent Control Tech	U4-1	47,438					
		50% to WPC		(23,719)					
		supervisor Dist / Collection 50%	N05-10	45,626					
				521,449	\$	515,219	\$	563,655	\$
				-				463,664	\$
								57,785	\$
									521,449
50002	Overtime								
		2017		\$46,156					
		2018		\$43,341					
		2 yr avg plus 2% increase per union contract for 2019 & 2020		\$46,500	\$	52,364	\$	52,364	\$
								43,341	\$
								3,159	\$
									46,500
50004	Temp Salaries	2 staff 19 weeks \$15/hr 40 hrs wk		\$	22,800	\$	26,180	\$	26,180
								22,256	\$
								544	\$
									22,800
50100	Employee Benefits								
		HE Operator	U4-7	\$38,786					
		Dist/Collect Mechanic	U4-2	\$24,068					
		Dist/Collect Operator	U3-7	\$25,314					
		Dist/Collect Mechanic	U4-2	\$36,647					
		Dist/Collect Operator	U3-1	Vacant Position #2					
		Dist/Collect Operator	U3-5	\$24,374					
		Dist/Collect Foreman	U5-7	\$40,561					
		Engineering Technician	U5-8	\$40,280					
		Engineering Technician	U5-3	\$25,587					
		Parts/Invent Control Tech	U4-1	\$35,211					
		50% to WPC		-\$17,606					
		Supervisor Dist / Collection 50%	N05-10	\$23,855					
		FICA on OT, Temp, Leave Buyback		\$5,760					
		Total		\$302,837	\$	312,306	\$	294,666	\$
								231,379	\$
								71,458	\$
									302,837

## Docket XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-14  
Expense Detail - Distribution  
15-500-2241

Account	Description	Comments	Detail	calc		Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50175	Annual Leave Buyback		3 yr avg		\$6,000	\$ 7,500	\$ 7,500	\$ 2,722	\$ 3,278	\$6,000
50212	Conferences & Training									
		Continuing Education Units		\$	3,000					
		Taining videos, books, online cvourses		\$	1,000					
		Total		\$	4,000	\$ 4,000	\$ 4,000	\$ 1,200	\$ 2,800	\$ 4,000
50225	Contract Services									
		Welding Services (Swabbing) as required		\$	1,000					
		Weather Data Network		\$	120					
		Infowater		\$	3,750					
		Dig safe Contract (609.15*12)		\$	7,000					
		total		\$	11,870	\$ 21,525	\$ 21,525	\$ 10,316	\$ 1,554	\$ 11,870
50239	Fire & Liability Insurance									
	RI Interlocal	Premium fy 2018-2019		\$	10,910	\$ 12,000	\$ 12,000	\$ 9,664	\$ 1,246	\$ 10,910
50306	Electricity Restricted Account									
	Forest Ave, Goulart Lane, Reservoir Rd									
		kwh usage			2 yr avg					
		cost		\$	105,200					
				\$	20,500	\$ 20,607	\$ 20,607	\$ 16,922	\$ 3,578	\$ 20,500
50260	Heavy Equipment Rental									
		Excavator, 10 wheel Dump Truck,		\$	8,000					
		asphalt roller & other equipment		\$	1,000					
		Total		\$	9,000	\$ 8,260	\$ 8,260	\$ 246	\$ 8,754	\$ 9,000
50271	Gas/Vehicle Maintenance									
		cost per vehicle		\$	6,410					
		# of vehicles			13					
		total		\$	83,330	\$ 70,057	\$ 70,057	\$ 93,121	\$ (9,791)	\$ 83,330
50275	Repairs & Maintenance									
		Overhead Door Repair & Maintenance		\$	5,000					
		Fire Alarm Panel, Fire Extinguisher Serv & Repair		\$	1,200					
		Misc. snow removal equipment & supplies		\$	3,000					
		Travel Vacuum repairs and/or replacement		\$	5,000					
		pump, generatro, jackhammer, repair & mmaintenance		\$	6,000					
		total		\$	20,200	\$ 26,000	\$ 26,110	\$ 18,687	\$ 1,513	\$ 20,200

## Docket XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-14  
Expense Detail - Distribution  
15-500-2241

Account	Description	Comments	Detail	calc	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50276	Main Maintenance								
		Valves, pipe, couplings, clamps, risers, covers, etc.		\$ 26,000					
		Swabbing Program - supplies		\$ 2,000					
		Gravel, stone, cold patch, hot mix, etc.		\$ 15,000					
		Leak Detection Services		\$ 12,000					
		Permits & Police details		\$ 5,000					
		demolition Saw, blades, etc.		\$ 3,000					
		Misc.		\$ 3,000					
		Total		\$ 66,000	\$ 91,200	\$ 94,370	\$ 84,145	(18,145)	\$ 66,000
50296	Service Maintenance								
		Tapping machine repair and/or eplace, misc. parts & misc. parts		\$ 3,000					
		service boxes, risers, keys		\$ 4,000					
		Corporation & curb stops, saddles, unions, etc.		\$ 4,000					
		Type K copper		\$ 5,000					
		Fittings		\$ 6,000					
		Gravel, stone, cold patch, hot mix, etc.		\$ 4,000					
		Permits & Police Details		\$ 3,000					
		Misc.		\$ 1,000					
		Total		\$ 30,000	\$ 30,000	\$ 32,629	\$ 27,194	2,806	\$ 30,000
50311	Operating Supplies								
		machine & tool lubricant, greese guns		\$ 1,800					
		Marking paint, flags, etc.		\$ 3,000					
		Replacement blades/cutting wheels, chains, bars		\$ 1,600					
		Metal detectors		\$ 1,600					
		Total		\$ 8,000	\$ 8,000	\$ 8,000	\$ 10,014	(2,014)	\$ 8,000
50320	Uniforms & protective Gear								
		UniFirst uniforms		\$2,200					
		Tyvek protective Suits		\$700					
		N 95 respirator		\$500					
		Safety Vests		\$200					
		Hi Viz Jackets		\$200					
		Gloves, safety glasses, respirator, etc.		\$200					
		Total		\$4,000	\$4,000	\$ 4,000	\$ 1,173	2,827	\$ 4,000
	<b>total</b>			<b>\$1,167,396</b>	<b>\$ 1,209,218</b>	<b>\$ 1,245,923</b>	<b>\$ 1,036,044</b>	<b>131,352</b>	<b>\$ 1,167,396</b>

Docket XXXX

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-15  
Expense Detail - Fire Protection  
15-500-2245

Account	Description	Calc	Docket 4595	Budget 2018	Actual FY 2018 Test Year	Change from Test year to Proposed	Proposed FY 2020 Rate Year
50275	Repair & Maintenance - Equipment						
	Permits	\$ 500					
	Hydrant parts	\$ 5,000					
	Hydrant Paint	\$ 1,800					
	Misc.	\$ 600					
	Quick Valve - Supplies	\$ 7,500					
	Police Details	\$ 1,760					
	Hydrant and/or Hydrant inserts	\$ 14,140	\$ 23,800	\$ 23,800	\$ 7,739		
<b>total</b>		<b>\$ 31,300</b>	<b>\$ 23,800</b>	<b>\$ 23,800</b>	<b>\$ 7,739</b>	<b>\$ 23,561</b>	<b>\$ 31,300</b>

#### Div. 1-1 Supplemental

### Existing Debt Service

**Total: Existing Debt Service**

SRF Loans\*

*Subtotal: SRF Loans\**

Total: Existing Debt  
Total: Future Debt

\* - Estimated debt service for FY 2020 and FY2022 SRF Loans provided by Hilltop Securities

[illegible]

Rhode Island Public Utilities Commission  
Docket XXXX  
FY 2020 Rate Filing  
HJS Schedule D-17  
City Services Calculation

<i>FY2019 Adopted Budget</i>	<i>Less School</i>	Less Civic Support	Less Debt Service	Less Capital	Total to be Allocated	Percentage
General Fund	\$97,003,290	\$20,775,023	\$2,014,487	\$5,452,352	\$3,212,552	\$65,548,876 69.15%
Water Fund Total Operating Expenses	\$23,100,625	\$-	\$-	\$6,796,599	\$3,360,400	\$12,943,626 13.66%
WPC Fund	\$24,262,052			\$6,303,683	\$4,205,000	\$13,753,369 14.51%
Maritime Fund	\$1,236,587				\$295,000	\$941,587 0.99%
Parking Fund	\$2,061,699				\$460,000	\$1,601,699 1.69%
Total	\$147,664,253				\$94,789,157	

School Appropriation: \$25,968,779  
20% appropriation left in general fund \$5,193,756  
\$20,775,023

Allocated Item	Cost To Be Allocated	Water %	Water Fund
Audit Fees	\$ 80,000	6.18%	4,944
OPEB Contribution (1)	\$ 820,000	3.84%	31,488
City Council	\$ 115,297	3.42%	3,943
City Clerk	\$ 453,679	1.00%	4,537
City Manager	\$ 560,914	13.66%	76,621
Human Resources	\$ 355,898	1.74%	6,193
City Solicitor	\$ 271,725	13.66%	37,118
Finance Admin 50%	\$ 191,888	13.66%	26,212
Finance - 5% RICWFA	\$ 6,726	50.00%	3,363
Finance Admin 10% Inv/Debt	\$ 38,378	30.77%	11,809
Purchasing	\$ 121,302	18.47%	22,404
Collections	\$ 428,073	5.80%	24,828
Accounting - Wires - 5%	\$ 13,070	70.00%	9,149
Accounting	\$ 598,939	10.97%	65,704
Total Allocation			328,312
Legal & Administrative			328,312
rounded			\$ 328,312

#### Allocation of Data Processing Costs to Enterprise Funds

Allocated Item	Cost To Be Allocated	Water %	Water Fund
MIS	\$ 2,512,260	13.66%	343,175
Total Allocation			343,175
Data Processing (1)			343,175
rounded			\$ 343,175

STATE OF RHODE ISLAND  
PUBLIC UTILITIES COMMISSION  
DOCKET NO. 4933  
Supplemental Response Of The City Of Newport,  
Utilities Division, Water Department  
To The State of Rhode Island  
Division Of Public Utilities And Carriers'  
Data Requests  
Set 1

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**CERTIFICATION**

I hereby certify that on April 10, 2019, I sent a copy of the within to all parties set forth on the attached Service List by electronic mail and copies to Luly Massaro, Commission Clerk, by electronic mail and regular mail.

<b>Parties/Address</b>	<b>E-mail Distribution</b>	<b>Phone</b>
Julia Forgue, Director of Public Works Newport Water Department 70 Halsey St. Newport, RI 02840	<a href="mailto:jforgue@cityofnewport.com">jforgue@cityofnewport.com</a> ;	401-845-5601
	<a href="mailto:lsitrin@CityofNewport.com">lsitrin@CityofNewport.com</a> ;	
	<a href="mailto:rschultz@CityofNewport.com">rschultz@CityofNewport.com</a> ;	
	<a href="mailto:wyost@CityofNewport.com">wyost@CityofNewport.com</a> ;	
Harold Smith Raftelis Financial Consulting, PA 511 East Blvd. Charlotte, NC 28203	<a href="mailto:Hsmith@raftelis.com">Hsmith@raftelis.com</a> ;	704-373-1199
Tiffany Parenteau, Esq. Christy Hetherington, Esq. Dept. of Attorney General 150 South Main St. Providence, RI 02903	<a href="mailto:Chetherington@riag.ri.gov">Chetherington@riag.ri.gov</a> ;	401-222-2424
	<a href="mailto:TParenteau@riag.ri.gov">TParenteau@riag.ri.gov</a> ;	
	<a href="mailto:pat.smith@dpuc.ri.gov">pat.smith@dpuc.ri.gov</a> ;	
	<a href="mailto:John.bell@dpuc.ri.gov">John.bell@dpuc.ri.gov</a> ;	
	<a href="mailto:al.mancini@dpuc.ri.gov">al.mancini@dpuc.ri.gov</a> ;	
	<a href="mailto:Mfolcarelli@riag.ri.gov">Mfolcarelli@riag.ri.gov</a> ;	
	<a href="mailto:dmacrae@riag.ri.gov">dmacrae@riag.ri.gov</a> ;	
Jerome Mierzwa Lafayette Morgan Exeter Associates, Inc. 10480 Little Patuxent Parkway, Suite 300 Columbia, MD 21044	<a href="mailto:jmierzwa@exeterassociates.com">jmierzwa@exeterassociates.com</a> ;	410-992-7500
	<a href="mailto:lmorgan@exeterassociates.com">lmorgan@exeterassociates.com</a> ;	

STATE OF RHODE ISLAND  
PUBLIC UTILITIES COMMISSION  
DOCKET NO. 4933

Supplemental Response Of The City Of Newport,  
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<b>File an original and nine (9) copies w/:</b> Luly E. Massaro, Commission Clerk John Harrington, Commission Counsel Public Utilities Commission 89 Jefferson Blvd. Warwick, RI 02888	<a href="mailto:Luly.massaro@puc.ri.gov">Luly.massaro@puc.ri.gov</a> ;	401-780-2107
	<a href="mailto:John.harrington@puc.ri.gov">John.harrington@puc.ri.gov</a> ;	
	<a href="mailto:Margaret.hogan@puc.ri.gov">Margaret.hogan@puc.ri.gov</a> ;	
	<a href="mailto:Cynthia.WilsonFrias@puc.ri.gov">Cynthia.WilsonFrias@puc.ri.gov</a> ;	
	<a href="mailto:Alan.nault@puc.ri.gov">Alan.nault@puc.ri.gov</a> ;	
	<a href="mailto:Sharon.ColbyCamara@puc.ri.gov">Sharon.ColbyCamara@puc.ri.gov</a> ;	
Peter Regan, Esq.	<a href="mailto:Pregan@SRT-law.com">Pregan@SRT-law.com</a> ;	401-849-3040
Adam Ramos, Esq.	<a href="mailto:aramos@hinckleyallen.com">aramos@hinckleyallen.com</a> ;	
Jessica C. Lynch, PWFD	<a href="mailto:jlynch@portsmouthwater.org">jlynch@portsmouthwater.org</a> ;	
Kelsey A. Harrer, Dept. of Navy	<a href="mailto:kelsey.a.harrer@navy.mil">kelsey.a.harrer@navy.mil</a> ;	
Dr. Kay Davoodi, Dept. of Navy	<a href="mailto:Khojasteh.davoodi@navy.mil">Khojasteh.davoodi@navy.mil</a> ;	
Larry Allen	<a href="mailto:Larry.r.allen@navy.mil">Larry.r.allen@navy.mil</a> ;	



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Joseph A. Keough, Jr., Esquire # 4925  
KEOUGH & SWEENEY, LTD.  
41 Mendon Avenue  
Pawtucket, RI 02861  
(401) 724-3600 (phone)  
(401) 724-9909 (fax)  
[jkeoughjr@keoughsweeney.com](mailto:jkeoughjr@keoughsweeney.com)