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November 4, 2022

Ronald T. Gerwatowski, Chairperson  
Rhode Island Public Utilities Commission  
89 Jefferson Boulevard  
Warwick, RI 02888

***Re: Narragansett Bay Commission – General Request for Rate Relief***

Dear Chairperson Gerwatowski:

On behalf of the Narragansett Bay Commission (“NBC”), enclosed you will find a general rate filing that contains revised rate schedules, which the NBC proposes to place in effect in thirty (30) days. The enclosed filing includes testimony, supporting schedules and exhibits in support NBC’s requested rate relief. The NBC has also included a copy of the proposed notice to be published in the Providence Journal. We respectfully ask that your staff immediately review the proposed notice so that it can be published as prescribed by law.

Please note that the NBC has provided a copy of this filing to the Office of the Attorney General for the State of Rhode Island.

The following individuals should receive all correspondence in relation to this filing: Karen L. Giebink, Chief Financial Officer for the Narragansett Bay Commission, One Service Road, Providence, Rhode Island, 02905 and Joseph A. Keough, Jr., Esquire, Keough + Sweeney, Ltd., 41 Mendon Avenue, Pawtucket, Rhode Island 02861.

Thank you for your attention to these matters.

Sincerely,



Joseph A. Keough, Jr.



**NARRAGANSETT BAY COMMISSION**

One Service Road, Providence, Rhode Island 02905

401-461-8848 ~ Fax 401-461-6540

# **GENERAL RATE FILING**

**November 4, 2022**

Vincent J. Mesolella  
Chairman

Laurie Horridge  
Executive Director

**STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS  
PUBLIC UTILITIES COMMISSION**

**IN RE: NARRAGANSETT BAY COMMISSION APPLICATION TO CHANGE RATE SCHEDULES**

**DOCKET NO:**

**INDEX AND RESPONSES IN COMPLIANCE WITH THE  
RHODE ISLAND PUBLIC UTILITIES COMMISSION'S RULES OF  
PRACTICE AND PROCEDURE, PART 5 (810-RICR-00-00-5),  
SECTIONS 5.4 THROUGH 5.9**

**I. Index and Responses in Compliance with Part 5, Section 5.4**

**Item 5.4**                      **Notice of Filing (to be published in Providence Journal).**

Response:                      Please see Tab 1.

**Notice of Proposed General Rate Schedule to Customers.**

Response:                      Please see Tab 1.

**II. Index and responses in Compliance with Part 5, Section 5.5**

**Item 5.5.A.1**                      **Current and Proposed Tariffs, Rate Schedules, Terms and Conditions.**

Response:                      Please see Tab 2.

**Item 5.5.A.2**                      **Complete Direct Case.**

Response:                      Please see Tabs 6 through 9.

**Item 5.5.A.3.a**                      **Annual Report to the Commission for Last Two Years.**

Response:                      All required reports are on file with the Rhode Island Public Utilities Commission.

**Item 5.5.A.3.b**                      **Federal Energy Regulation Commission or Federal Communication Commission  
Annual Reports.**

Response:                      Not applicable.

**Item 5.5.A.3.c**                      **Federal Energy Regulatory/Communications Commission Audit Reports.**

Response:                      Not applicable.

**Item 5.5.A.3.d**                      **Security and Exchange Commission Report.**

Response:                      Not applicable.

**Item 5.5.A.3.e**                      **Prospectus for Last Two Years.**

Response:                      Not applicable.

**Item 5.5.A.3.f**                      **Annual Reports to Stockholders.**

Response:                      Not applicable.

**Item 5.5.A.3.g**            **Statements Reconciling Differences in Filing and Above Reports.**  
Response:                Not applicable.

**III. Index and responses in Compliance with Part 5, Section 5.6**

**Item 5.6.A**                **Test Year (July 1, 2021 to June 30, 2022 ).**  
Response:                Please see testimony of David M. Fox and supporting schedules - Tabs 5 and 6.

**Item 5.6.B**                **Rate Year (July 1, 2023 to June 30, 2024).**  
Response:                Please see testimony of David M. Fox and supporting schedules - Tabs 5 and 6.

**Item 5.6.C**                **Adjustments to the Test Year.**  
Response:                Please see testimony of David M. Fox and James McCaughey and supporting schedules - Tabs 5, 6 and 7.

**IV. Index and responses in Compliance with Part 5, Section 5.7**

**Item 5.7**                 **Attestation of Financial Data.**  
Response:                Please see Tab 4.

**V. Index and responses in Compliance with Part 5, Section 5.8**

**Items 5.8.A.1-23**            **Supporting Information and Work Papers to be Filed by Investor Owned Utilities.**  
Response:                Not applicable.

**VI. Index and responses in Compliance with Part 5, Section 5.9**

**Item 5.9.A.1**            **Cost of Service Schedules.**  
Response:                Please see testimony of David M. Fox and supporting schedules - Tabs 5 and 6.

**Item 5.9.A.2**            **Work Papers Supporting Claim for Working Capital.**  
Response:                Please see testimony of David M. Fox and supporting schedules - Tabs 5 and 6.

**Item 5.9.A.3**            **Work Papers Supporting Allocation of Cost of Service among Associated Entities.**  
Response:                Not applicable.

**Item 5.9.A.4**            **Work Papers Detailing Test Year and Rate Year Revenues, etc.**  
Response:                Please see testimony of David M. Fox and supporting schedules - Tabs 5 and 6.

**Item 5.9.A.5**            **Effect of Proposed Rate Changes.**  
Response:                Please see testimony of David M. Fox and supporting schedules – Tabs 5 and 6.  
For sample bill see Tab 10.

- Item 5.9.A.6**                    **Debt Service Schedules.**  
Response:                    Please see testimony of David M. Fox and supporting schedules – Tabs 5, 6 and Tab 10.
- Item 5.9.A.7**                    **Schedule of Lease Payments.**  
Response:                    Please see Tab 10.
- Item 5.9.A.8**                    **Analysis of Revenues and Associated Expenses for Test Year pertaining to adjustment clauses.**  
Response:                    Not applicable.
- Item 5.9.A.9**                    **Rate Year Municipal Tax Expense Calculation.**  
Response:                    Not applicable.
- Item 5.9.A.10**                  **Employee Information.**  
Response:                    Please see Tab 10.
- Item 5.9.A.11**                  **Summary of Affiliated Entities Transaction.**  
Response:                    Not applicable.
- Item 5.9.A.12**                  **Financial Data for Non-Coinciding Test Year.**  
Response:                    Not Applicable.
- Item 5.9.A.13**                  **Summary of Expenses Incurred and Projected Related to Instant Rate Case.**  
Response:                    The actual rate case expense approved in Docket 4890 was \$242,987 amortized over three years. The new rates were effective July, 1, 2019, therefore the costs have been fully recovered. Please see testimony of David M. Fox and supporting schedules – Tabs 5 and 6 for projected rate case expense related to this filing.
- Item 5.9.A.14.a**                **Unaccounted for Water.**  
Response:                    Not applicable.
- Item 5.9.A.14.b**                **Loss on Transmission of Electricity, or Gas.**  
Response:                    Not applicable.
- Item 5.9.A.14.c**                **Utilities Own Use of Water.**  
Response:                    Not applicable.
- Item 5.9.A.15**                  **Compliance with Prior Commission Orders**  
NBC is compliant with prior Commission Orders.

**PUC General Rate Filing Checklist**

LOCATION/TITLE

**Notice of Filing and Change In Rate Schedules Under Rule 5.4****TAB 1****Tariffs and Terms and Conditions Under Rule 5.5 Item 5.5.A.1****TAB 2**

Tariffs - Existing

Tariffs - Proposed

Terms and Conditions - Existing

Terms and Conditions - Proposed

**Certificate of Service****TAB 3****Attestation Under Rule 5.7****TAB 4****David M. Fox, Raftelis Financial Consultants Direct Testimony Under Rule 5.5****TAB 5****David M. Fox, Raftelis Financial Consultants Supporting Schedules Under Rule 5.5****TAB 6**

Schedule 1	Test Year and Rate Year
Schedule 2	Three Year History
Schedule 3	Test Year Revenue by Source
Schedule 4	Rate Year Billable Flat Units
Schedule 5	Development of Rate Year Billable Consumption
Schedule 6	Rate Year Revenue by Source
Schedule 7	Test Year Miscellaneous Revenue Adjustments
Schedule 8	GAAP to Rate Making Adjustments
Schedule 9	Test Year Adjustments - GAAP Retirement - 52800, 52920, 52940
Schedule 10	Test Year Adjustment - Biosolids Disposal 53480
Schedule 11	Test Year Adjustment - Net Metering Credits - 54091
Schedule 12	Test Year Adjustment - Renewal Energy Credits - WED Wind - 42605
Schedule 13	Rate Year Calculation of Stormwater Permit Application Fees and Revenue
Schedule 14	Rate Year Renewable Energy Credit Revenue - 42604, 42605, 42606
Schedule 15	Rate Year Interest Income - 45100, 45200
Schedule 16	Rate Year Personnel Adjustment
Schedule 17	Rate Year Health Insurance - 52950
Schedule 18	Rate Year Postage - 53210
Schedule 19	Rate Year Printing & Binding - 53310
Schedule 20	UV Disinfection - 54339
Schedule 21	Rate Year Trend Accounts
Schedule 22	Rate Year Average Accounts
Schedule 23	Rate Year Regulatory - 52600
Schedule 24	Rate Year Biosolids - 53480
Schedule 25	Rate Year Screening & Grit - 53490
Schedule 26	Rate Year Insurance - 53660
Schedule 27	Rate Year Workers' Compensation - 53680
Schedule 28	Rate Year Electricity - 54090
Schedule 29	Rate Year Net Metering Credits - 54091, 54096
Schedule 30	Rate Year Natural Gas - 54060
Schedule 31	Rate Year Chemicals - 54332-54338
Schedule 32	Rate Year Other Services - 52690
Schedule 33	Rate Year Debt
Schedule 34	Rate Year Operating Allowance
Schedule 35	Revenue Deficiency
Schedule 36	Rate Year Revenue Proof with Rate Increase
Schedule 37	Annual Bill Impacts
Schedule 38	Calculation of Step Adjustments
Schedule 39	Annual Bill Impacts with Step Increases

PUC General Rate Filing Checklist		LOCATION/TITLE
<b>James McCaughey, Direct Testimony Under Rule 5.5</b>		<b>TAB 7</b>
<b>Stephen Maceroni, Direct Testimony Under Rule 5.5</b>		<b>TAB 8</b>
<b>Richard Bernier, Direct Testimony Under Rule 5.5</b>		<b>TAB 9</b>
<b>Supporting Information Under Rule 5.9</b>		<b>TAB 10</b>
Item 5.9.A.5	Sample of Actual Customer Billing	Customer Bill
Item 5.9.A.6	A schedule presenting the principal and interest amounts paid on debt service (long-term and short-term debt) for the test year and the amounts projected for rate year	Principal and Interest Paid during the Test Year and Rate Year
Item 5.9.A.6	Debt Service Payment Schedule Open Market Debt Service Payment Schedule SRF Debt Service Payment Schedule WIFIA Debt Service Payment Schedule	Debt Service
Item 5.9.A.6	Description of issues to include: source of funding, amount of original issue, date, interest rate, repayment terms, security pledge one borrowing, and other pertinent information.	Long Term Debt
Item 5.9.A.7	Schedule of lease payments for all property and equipment for the test and rate years.	Lease Schedule
Item 5.9.A.10	Number of employees at beginning and end of test year and the dollar amount of overtime paid during the test year and the previous two years.	Personnel/Overtime Analysis
Item 5.9.A.12	Balance Sheet, Income Statement and Statement of Changes for the Test Year	Statement of Net Position Statement of Revenue Expense and Changes in Net

**STATE OF RHODE ISLAND  
PUBLIC UTILITIES COMMISSION**

**IN RE: NARRAGANSETT BAY COMMISSION  
APPLICATION TO CHANGE RATE SCHEDULES**

**DOCKET NO:**

**NOTICE OF PROPOSED CHANGES IN RATES**

In accordance with the Rules of Practice and Procedure for the Rhode Island Public Utilities Commission and RIGL § 39-3-11, the Narragansett Bay Commission (“NBC”) hereby gives notice of its proposed changes in rates. Said changes are contained in the written testimony and exhibits attached hereto and incorporated herein. In its filing, NBC seeks to implement a multi-year rate plan that would increase rates in five phases:

1. In the first phase of the increase, proposed to take effect on December 5, 2022, NBC’s proposed rates are designed to collect additional operating revenue in the amount of \$11,257,959 to support a total revenue requirement of \$115,574,327. The impact of the proposal will be an across-the-board increase of 11.1% on all residential and non-residential rates. For an average residential customer, using 150 gallons of water per day, the request will result in an increase of \$57.69 in their annual bill from \$519.17 to \$576.86. The impact of the rate increase on all other customers will vary depending upon the customer’s classification and consumption.
2. In the second phase of the increase, proposed to take effect on July 1 2024, NBC’s proposed rates are designed to collect additional operating revenue in the amount of \$8,735,691 to support a total revenue requirement of \$124,310,018. The impact of the proposal will be an across-the-board increase of 7.76% on all residential and non-residential rates. For an average residential customer, using 150 gallons of water per day, the request will result in an increase of \$44.77 in their annual bill from \$576.86 to \$621.63. The impact of the rate increase on all other customers will vary depending upon the customer’s classification and consumption.
3. In the third phase of the increase, proposed to take effect on July 1 2025, NBC’s proposed rates are designed to collect additional operating revenue in the amount of \$3,103,269 to support a total revenue requirement of \$127,413,287. The impact of the proposal will be an across-the-board increase of 2.56% on all residential and non-residential rates. For an average residential customer, using 150 gallons of water per day, the request will result in an increase of \$15.90 in their annual bill from \$621.63 to \$637.53. The impact of the



rate increase on all other customers will vary depending upon the customer's classification and consumption.

4. In the fourth phase of the increase, proposed to take effect on July 1 2026, NBC's proposed rates are designed to collect additional operating revenue in the amount of \$2,112,378 to support a total revenue requirement of \$129,525,665. The impact of the proposal will be an across-the-board increase of 1.70% on all residential and non-residential rates. For an average residential customer, using 150 gallons of water per day, the request will result in an increase of \$10.83 in their annual bill from \$637.53 to \$648.36. The impact of the rate increase on all other customers will vary depending upon the customer's classification and consumption.
5. In the fifth phase of the increase, proposed to take effect on July 1 2027, NBC's proposed rates are designed to collect additional operating revenue in the amount of \$5,776,999 to support a total revenue requirement of \$135,302,663. The impact of the proposal will be an across-the-board increase of 4.57% on all residential and non-residential rates. For an average residential customer, using 150 gallons of water per day, the request will result in an increase of \$29.60 in their annual bill from \$648.36 to \$677.96. The impact of the rate increase on all other customers will vary depending upon the customer's classification and consumption.

Additionally, NBC respectfully represents that:

- A. NBC has a business address of One Service Road, Providence, Rhode Island, 02905;
- B. Correspondence should be addressed to Karen L. Giebink, Chief Financial Officer for the Narragansett Bay Commission, One Service Road, Providence, Rhode Island, 02905 and Joseph A. Keough, Jr., Esquire, Keough + Sweeney, Ltd., 41 Mendon Avenue, Pawtucket, Rhode Island 02861;
- C. In accordance with the appropriate Rules and Regulations and pursuant to RIGL §39-3-11, the accompanying documents contain data, information and testimony in support of said request;
- D. Submitted herewith are documents and statements in conformance with RIGL §39-3-12.1; and,
- E. Attached hereto is information required by the Rules of Practice and Procedure for the Rhode Island Public Utilities Commission, Part 5 (810-RICR-00-00-5), Sections 5.4 through 5.9.

The Narragansett Bay Commission,  
By its attorney,



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Joseph A. Keough, Jr., Esquire  
KEOUGH & SWEENEY, Ltd.  
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Pawtucket, RI 02861  
(401) 724-3600 (p)  
(401) 724-9909 (f)  
[jkeoughjr@keoughsweeney.com](mailto:jkeoughjr@keoughsweeney.com)

**CERTIFICATION**

I, the undersigned, hereby certify that a true copy of the within was hand delivered to the Rhode Island Public Utilities Commission, 89 Jefferson Boulevard, RI 02888 and mailed via first class mail to the Department of Attorney General, 150 South Main Street, Providence, RI 02903 on the 4<sup>th</sup> day of November, 2022.



**STATE OF RHODE ISLAND PUBLIC UTILITIES COMMISSION**

**IN RE: NARRAGANSETT BAY COMMISSION  
APPLICATION TO CHANGE RATE SCHEDULES**

**DOCKET NO:**

**NOTICE OF FILING AND CHANGE IN RATE SCHEDULES**

On November 4, 2022, pursuant to Rhode Island General Laws § 39-3-11 and Part 5 of the Rhode Island Public Utilities Commission's Rules of Practice and Procedure, the Narragansett Bay Commission ("NBC") hereby gives notice that it has filed an application to increase its rates with the Rhode Island Public Utilities Commission ("Commission"). In its filing, NBC seeks to implement a multi-year rate plan that would increase rates in five phases.

In the first phase of the increase, proposed to take effect on December 5, 2022, NBC's proposed rates are designed to collect additional operating revenue in the amount of \$11,257,959 to support a total revenue requirement of \$115,574,327. The impact of the proposal will be an across-the-board increase of 11.1% on all residential and non-residential rates. For an average residential customer, using 150 gallons of water per day, the request will result in an increase of \$57.69 in their annual bill from \$519.17 to \$576.86. The impact of the rate increase on all other customers will vary depending upon the customer's classification and consumption.

In the second phase of the increase, proposed to take effect on July 1 2024, NBC's proposed rates are designed to collect additional operating revenue in the amount of \$8,735,691 to support a total revenue requirement of \$124,310,018. The impact of the proposal will be an across-the-board increase of 7.76% on all residential and non-residential rates. For an average residential customer, using 150 gallons of water per day, the request will result in an increase of \$44.77 in their annual bill from \$576.86 to \$621.63. The impact of the rate increase on all other customers will vary depending upon the customer's classification and consumption.

In the third phase of the increase, proposed to take effect on July 1 2025, NBC's proposed rates are designed to collect additional operating revenue in the amount of \$3,103,269 to support a total revenue requirement of \$127,413,287. The impact of the proposal will be an across-the-board increase of 2.56% on all residential and non-residential rates. For an average residential customer, using 150 gallons of water per day, the request will result in an increase of \$15.90 in their annual bill from \$621.63 to \$637.53. The impact of the rate increase on all other customers will vary depending upon the customer's classification and consumption.

In the fourth phase of the increase, proposed to take effect on July 1 2026, NBC's proposed rates are designed to collect additional operating revenue in the amount of \$2,112,378 to support a total revenue requirement of \$129,525,665. The impact of the proposal will be an across-the-board increase of 1.70% on all residential and non-residential rates. For an average residential customer, using 150 gallons of water per day, the request will result in an increase of \$10.83 in their annual bill from \$637.53 to \$648.36. The impact of the rate increase on all other customers will vary depending upon the customer's classification and consumption.

In the fifth phase of the increase, proposed to take effect on July 1 2027, NBC's proposed rates are designed to collect additional operating revenue in the amount of \$5,776,999 to support a total revenue requirement of \$135,302,663. The impact of the proposal will be an across-the-board increase of 4.57% on all residential and non-residential rates. For an average residential customer, using 150 gallons of water per day, the request will result in an increase of \$29.60 in their annual bill from \$648.36 to \$677.96. The impact of the rate increase on all other customers will vary depending upon the customer's classification and consumption.

Please note that while NBC is requesting this revenue increase, the Commission, after full investigation and hearings, may order a different revenue increase and rates.

While the new rates in the first phase of the increase are proposed to become effective December 5, 2022, the Commission can suspend the rates for up to eight months from the proposed effective date. No rate change will take effect until the Commission has conducted a full investigation and hearing on the proposal. The Commission will publish a notice of the hearing dates when they are scheduled. Ratepayers may comment on the proposed rate increases at that time.

A copy of the application is on file for examination at the NBC's office One Service Road, Providence, Rhode Island and at the offices of the Public Utilities Commission, 89 Jefferson Boulevard, Warwick, Rhode Island, and can be accessed at <https://ripuc.ri.gov>. A copy of the filing was also provided to the Rhode Island Attorney General's Department, Consumer Division.

Narragansett Bay Commission  
One Service Road  
Providence, Rhode Island 02905

TARIFFS OF THE NARRAGANSETT BAY COMMISSION

**SCHEDULE A**

EFFECTIVE: CUSTOMER CHARGE  
CONSUMPTION CHARGE

May 1, 2022  
May 1, 2022

Existing Tariff

**Applicability**

Applicable throughout the entire territory served by the Field's Point and Bucklin Point Wastewater Treatment Facilities and operated by the Narragansett Bay Commission.

**Sewer Use Fee Schedule**

**RESIDENTIAL**

All residential structures up to and including six (6) dwelling units. All residential condominiums will be billed under residential tariffs regardless of the number of dwelling units per structure/meter.

**NBC Service Area:**

CUSTOMER CHARGE: \$ 238.74 per dwelling unit per year

CONSUMPTION CHARGE: \$ 3.831 per hundred cubic feet of 100% of water used

RESIDENTIAL WELL CUSTOMERS: \$ 542.46 Based upon fixed fee and average annual usage of 79.61 HCF

**INDUSTRIAL**

All structures in which water is utilized for the production and/or manufacturing based operations including non-contact cooling water. As of May 1, 2010, this category includes industrial laundries as defined by the EPA and categorized by the North American Industry Classification System (NAICCS) Code 812332.

**NBC Service Area:**

CONSUMPTION CHARGE: \$ 3.770 per hundred cubic feet of 100% of water used.

**COMMERCIAL**

All other structures. This includes mixed use structures (i.e., combined residential/non-residential) and half-way houses and/or boarding type facilities where unrelated persons rent rooms.

**NBC Service Area:**

CONSUMPTION CHARGE: \$ 5.754 per hundred cubic feet of 100% of water used.

**INDUSTRIAL & COMMERCIAL CUSTOMER CHARGE:**

<u>METER SIZE:</u>	<u>FIXED FEE</u>
5/8"	\$ 566
3/4"	849
1"	1,415
1 1/2"	2,831
2"	4,529
3"	8,492
4"	14,154
6"	28,308
8"	45,292
10"	65,108

**BILLING**

**Residential** - Fixed fees shall be billed monthly and consumption shall be billed based upon the frequency of the meter readings provided by the water supplier or the frequency of NBC's actual meter readings.

**Condominiums (residential)** - Fixed fees shall be billed monthly and consumption shall be billed based upon the frequency of the meter readings provided by the water supplier or the frequency of NBC's actual meter readings and rendered to property owners and/or associations.

**Industrial** - Fixed fees shall be billed monthly and consumption shall be billed based upon the frequency of the meter readings provided by the water supplier or the frequency of NBC's actual meter readings.

**Commercial** - Fixed fees shall be billed monthly and consumption shall be billed based upon the frequency of the meter readings provided by the water supplier or the frequency of NBC's actual meter readings.

**Industrial Surcharge** - If any, to be billed with consumption.

**PAYMENT**

All bills are due and payable upon receipt. Interest will be charged 30 days after the billing date at the rate of 1% per month on any unpaid balance, including any outstanding interest charges.

TARIFFS OF THE NARRAGANSETT BAY COMMISSION

**SCHEDULE B**

**EFFECTIVE: CUSTOMER CHARGE  
CONSUMPTION CHA**

May 1, 2022  
May 1, 2022

**Existing Tariff**

**Miscellaneous Charges**

<b>Charge:</b>	<b>Effective:</b>	<b>Charge:</b>	<b>Effective:</b>
Pretreatment Permit Application Fee:	July 1, 2019	BOD/TSS Surcharge:	January 1, 2013
Sewer Connection Permit Application Fee:	July 1, 2019	Sewer Back-up Removal Fee:	March 24, 1995
Capacity Charge:	July 1, 2019	Abatement Application Fee:	June 1, 2018
Septic Tank Waste Discharge Fee:		Abatement Meter Reading Fee:	June 1, 2018
A. Septic Tank Waste Discharge Fee:	May 6, 2005	Real Estate Closing Request Fee:	June 1, 2018
B. Uniform Septage Disposal Fee:	April 1, 2008		

**Pretreatment Permit Application Fee:** Applicable to all users regulated under R.I.G.L. 46-25-25 and the NBC's Rules and Regulations.

Tier I - Significant Industrial Users	\$500
Tier II - Non-Significant Industrial Users	\$300
Tier III - Commercial Users	\$140

**Sewer Connection Permit Fee:** Application fee for all new direct and indirect connections to NBC facilities and payable at the time of application.

Direct Connection	\$300
Indirect Connection	\$130

**Capacity Charge:** Fee for all new direct and indirect connections to NBC facilities based upon input meter size and payable at the time of application.

<b><u>Meter Size</u></b>	<b><u>Fee</u></b>
5/8"	\$ 350
3/4"	525
1"	875
1 1/2"	1,750
2"	2,800
3"	5,250
4"	8,750
6"	17,500
8"	28,000
10"	40,250

**Septic Tank Waste Discharge Fee:** Applicable to all discharges of septic tank waste into the NBC system.

A. Discharge Fee:	\$42 per thousand gallons
B. Uniform Septage Disposal fee:	\$1.00 per hundred gallons

**BOD/TSS Surcharge:** (if applicable)

\$0.00 per 1,000 pounds of BOD with a concentration of >300 mg/l

\$0.00 per 1,000 pounds of TSS with a concentration of >300 mg/l

\* To be assessed as the result of compliance with an industrial permit of NBC requirement.

**Sewer Back-up Removal Fee:** Applicable to all visits by Commission personnel to clear a sewer blockage when such blockage is determined to be a private sewer and is cleared by Commission personnel.

\$75.00 per incident

**Abatement Application Fee:** Applicable to all applicants who request an abatement to sewer user fees charged. Payable at the time of application.

\$70.00

**Abatement Meter Reading Fee:** Applicable to current abatement customers that request a member of NBC's staff conduct a site visit to obtain meter readings.

\$35.00

**Real Estate Closing Fee:** Applicable to all parties that submit a real estate closing or refinance request.

\$30 per request

TARIFFS OF THE NARRAGANSETT BAY COMMISSION

**SCHEDULE A**

**EFFECTIVE: CUSTOMER CHARGE**  
**CONSUMPTION CHARGE**

December 5, 2022  
December 5, 2022

**Proposed Tariff**

**Applicability**

Applicable throughout the entire territory served by the Field's Point and Bucklin Point Wastewater Treatment Facilities and operated by the Narragansett Bay Commission.

**Sewer Use Fee Schedule**

**RESIDENTIAL**

All residential structures up to and including six (6) dwelling units. All residential condominiums will be billed under residential tariffs regardless of the number of dwelling units per structure/meter.

**NBC Service Area:**

**CUSTOMER CHARGE:** \$ 265.27 per dwelling unit per year

**CONSUMPTION CHARGE:** \$ 4.257 per hundred cubic feet of 100% of water used

**RESIDENTIAL WELL CUSTOMERS:** \$ 602.74 Based upon fixed fee and average annual usage of 79.61 HCF

**INDUSTRIAL**

All structures in which water is utilized for the production and/or manufacturing based operations including non-contact cooling water. As of May 1, 2010, this category includes industrial laundries as defined by the EPA and categorized by the North American Industry Classification System (NAICCS) Code 812332.

**NBC Service Area:**

**CONSUMPTION CHARGE:** \$ 4.189 per hundred cubic feet of 100% of water used.

**COMMERCIAL**

All other structures. This includes mixed use structures (i.e., combined residential/non-residential) and half-way houses and/or boarding type facilities where unrelated persons rent rooms.

**NBC Service Area:**

**CONSUMPTION CHARGE:** \$ 6.393 per hundred cubic feet of 100% of water used.

**INDUSTRIAL & COMMERCIAL CUSTOMER CHARGE:**

<u>METER SIZE:</u>	<u>FIXED FEE</u>
5/8"	\$ 629
3/4"	943
1"	1,572
1 1/2"	3,146
2"	5,032
3"	9,436
4"	15,727
6"	31,454
8"	50,325
10"	72,343

**BILLING**

**Residential** - Fixed fees shall be billed monthly and consumption shall be billed based upon the frequency of the meter readings provided by the water supplier or the frequency of NBC's actual meter readings.

**Condominiums (residential)** - Fixed fees shall be billed monthly and consumption shall be billed based upon the frequency of the meter readings provided by the water supplier or the frequency of NBC's actual meter readings and rendered to property owners and/or associations.

**Industrial** - Fixed fees shall be billed monthly and consumption shall be billed based upon the frequency of the meter readings provided by the water supplier or the frequency of NBC's actual meter readings.

**Commercial** - Fixed fees shall be billed monthly and consumption shall be billed based upon the frequency of the meter readings provided by the water supplier or the frequency of NBC's actual meter readings.

**Industrial Surcharge** - If any, to be billed with consumption.

**PAYMENT**

All bills are due and payable upon receipt. Interest will be charged 30 days after the billing date at the rate of 1% per month on any unpaid balance, including any outstanding interest charges.

TARIFFS OF THE NARRAGANSETT BAY COMMISSION

**SCHEDULE B**

EFFECTIVE: CUSTOMER CHARGE December 5, 2022  
 CONSUMPTION CHARGE December 5, 2022

Proposed Tariff

**Miscellaneous Charges**

Charge:	Effective:	Charge:	Effective:
Pretreatment Permit Application Fee:	July 1, 2019	BOD/TSS Surcharge:	January 1, 2013
Sewer Connection Permit Application Fee:	July 1, 2019	Sewer Back-up Removal Fee:	March 24, 1995
Capacity Charge:	July 1, 2019	Abatement Application Fee:	June 1, 2018
Septic Tank Waste Discharge Fee:		Abatement Meter Reading Fee:	June 1, 2018
A. Septic Tank Waste Discharge Fee:	May 6, 2005	Real Estate Closing Request Fee:	June 1, 2018
B. Uniform Septage Disposal Fee:	April 1, 2008	Stormwater Management Application Fee	December 5, 2022

**Pretreatment Permit Application Fee:** Applicable to all users regulated under R.I.G.L. 46-25-25 and the NBC's Rules and Regulations.

Tier I - Significant Industrial Users	\$500
Tier II - Non-Significant Industrial Users	\$300
Tier III - Commercial Users	\$140

**Sewer Connection Permit Fee:** Application fee for all new direct and indirect connections to NBC facilities and payable at the time of application.

Direct Connection	\$300
Indirect Connection	\$130

**Capacity Charge:** Fee for all new direct and indirect connections to NBC facilities based upon input meter size and payable at the time of application.

Meter Size	Fee
5/8"	\$ 350
3/4"	525
1"	875
1 1/2"	1,750
2"	2,800
3"	5,250
4"	8,750
6"	17,500
8"	28,000
10"	40,250

**Septic Tank Waste Discharge Fee:** Applicable to all discharges of septic tank waste into the NBC system.

A. Discharge Fee:	\$42 per thousand gallons
B. Uniform Septage Disposal fee:	\$1.00 per hundred gallons

**BOD/TSS Surcharge:** (if applicable)

\$0.00 per 1,000 pounds of BOD with a concentration of >300 mg/l
\$0.00 per 1,000 pounds of TSS with a concentration of >300 mg/l

\* To be assessed as the result of compliance with an industrial permit of NBC requirement.

**Sewer Back-up Removal Fee:** Applicable to all visits by Commission personnel to clear a sewer blockage when such blockage is determined to be a private sewer and is cleared by Commission personnel. \$75.00 per incident

**Abatement Application Fee:** Applicable to all applicants who request an abatement to sewer user fees charged. Payable at the time of application. \$70.00

**Abatement Meter Reading Fee:** Applicable to current abatement customers that request a member of NBC's staff conduct a site visit to obtain meter readings. \$35.00

**Real Estate Closing Fee:** Applicable to all parties that submit a real estate closing or refinance request. \$30 per request

**Stormwater Management Application Fee:** Applicable to all projects, undergoing new development or redevelopment that have applied for a new sewer connection, connecting directly or indirectly to NBC facilities. \$740 per application



**Narragansett Bay Commission**  
**Terms & Conditions**  
**Service Fee Schedule**  
(Effective June 25, 2020)

Existing Terms and Conditions

SERVICE	FEE
<b><u>Returned Check Fee</u></b>	\$20.00 per check
<b><u>Lien Sale Fees</u></b>	
Certified Mail	Billed at NBC contracted cost for Certified Mail Services
Title Fee	Billed at NBC contracted cost for Title Services
Newspaper Ad	Billed at advertising cost in relation to number of lien sales
Deed Fee	Billed at NBC contracted cost for Deed Services
Recording of Deed	\$83.00 each
Record of Redemption Certificate	\$83.00 each
Record of Duplicate Redemeption Certificate	\$83.00 each
Auctioneer Fee	Billed at Auctioneer cost in relation to number of lien sales
<b><u>Water Shut-off Fees</u></b>	
Water Shut-off Fee	Billed at rate charged by water utility performing the shut-off
Water Reconnect Fee	Billed at rate charged by water utility performing the shut-off
Special Request for services not listed above that do not benefit all customers	Billed at actual cost plus overhead rates in effect

**Narragansett Bay Commission**  
**Terms & Conditions**  
**Service Fee Schedule**  
(Effective June 25, 2020)

**Billing of Compound Meters**

Commercial or Industrial customer serviced by a compound (two-dial) meter with one meter used strictly as a fire supply shall be billed fixed fees based on the size of the domestic use dial. Consumption charges shall be based upon metered water usage of the domestic use dial.

**Billing of Output Meters**

Premises that have NBC approved discharge meters shall be billed consumption charges only. Billable consumption shall be determined as follows:

- 1) The flow measured by the discharge meter shall be divided by .85 to adjust for the 15% allowance for flow not returned to sewer built into sewer rates.
- 2) The consumption charges are calculated by multiplying the billable consumption determined in step one by the appropriate billing rate.

**Abatement Terms**

A property owner may apply for an adjustment to the water consumption used in the calculation of the consumption charge if they believe that more than fifteen percent (15%) of the source water does not discharge into the sewer system. Abatements are granted for only that percentage of water exceeding the 15% allowance and are effective from the approved date forward (not retroactive to cover previous usage).

**Abatement Methodology**

- 1) The amount of water used is determined based upon the input meter readings.
- 2) The amount of water not returned to sewer is determined based upon the abatement meter readings covering the same service period.
- 3) The amount of water returned to sewer is calculated by subtracting the abatement usage from the input usage.
- 4) The water returned to sewer is adjusted to reflect the 15% built into sewer rates by dividing the usage calculated in line 3 by 0.85.
- 5) The consumption bill is calculated by multiplying the consumption calculated in step 4 by the billing rate.
- 6) In all cases usage figures will be pro-rated to take into consideration different meter reading periods and rate changes.
- 7) In cases where the Narragansett Bay Commission, in its sole discretion, determines that the use of an abatement meter is not feasible, the Narragansett Bay Commission, in its sole discretion, may enter into a written agreement with customer that sets forth the appropriate abatement calculation.

**Narragansett Bay Commission**  
**Terms & Conditions**  
**Service Fee Schedule**  
(Effective June 25, 2020)

**Methodology Example:**

- 1) Determine total consumption based on meter readings (assume 200 HCF)
- 2) Determine abatement use per meter (assume 100 HCF)
- 3) Subtract line 2 from line 1 to determine water returned to sewer (100 HCF)
- 4) Divide line 3 by 0.85 to adjust for allowance built into rates and determine billable consumption (117.65 HCF)
- 5) Multiply line 4 by user rate to determine consumption charge (e.g. \$3.478/HCF x 117.65 HCF - \$409.19)

**Input Meter Reclassification Program**

In cases where the Narragansett Bay Commission, in its sole discretion, determines that it is not feasible for a commercial or industrial customer to downsize an input meter, the Narragansett Bay Commission, in its sole discretion, may enter into a written agreement with customer that sets forth the appropriate input meter size for customer charge billing purposes.

**Sewer Tie-in Expense Terms and Conditions**

Pursuant to 835-RICR-20-00-1.4.16, all costs and expenses attributable to the installation of a main sewer line as determined by the NBC using methods(s) reasonably related to the cost of construction may be borne by the property owner.

Property owners connecting to the NBC sewer system directly or indirectly through an NBC interceptor constructed as part of an NBC main sewer line Construction Extension Project (Project) shall be responsible for a Sewer Tie-in Expense associated with the Project.

The Sewer Tie-in Expense for owners who choose to connect to the NBC system will be based on the owner's parcel size. Specifically, NBC shall calculate a Per Acreage Amount by dividing the Project costs by the acreage of the total developable land of adjacent parcels as determined by NBC. The Sewer Tie-in Expense for a new connection shall be the product of the Per Acreage Amount times the developable acreage of the property owner's parcel.

As part of the sewer connection permit application, a property owner shall pay the Sewer Tie-in Expense along with the Sewer Connection Permit Application Fee and Capacity Charge, as applicable and set forth in NBC's Tariffs.

**Narragansett Bay Commission**  
**Terms & Conditions**  
**Service Fee Schedule**  
(Effective December 5, 2022)

**Proposed Terms and Conditions**

<b>SERVICE</b>	<b>FEE</b>
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Recording of Notice of Lien	Billed at actual cost
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Water Shut-off Fee	Billed at rate charged by water utility performing the shut-off
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As part of the sewer connection permit application, a property owner shall pay the Sewer Tie-in Expense along with the Sewer Connection Permit Application Fee and Capacity Charge, as applicable and set forth in NBC's Tariffs.

**CERTIFICATE OF SERVICE**

I hereby certify that on November 4, 2022, I sent a copy of the within to the Administrator of the Rhode Island Division of Public Utilities and Carriers and the Office of the Attorney General for the State of Rhode Island.

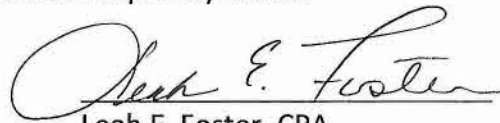
  
\_\_\_\_\_  
Gail Degan, Revenue Analyst

**IN RE:  
NARRAGANSETT BAY COMMISSION  
COMPLIANCE FILING OF**

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS  
PUBLIC UTILITIES COMMISSION

**ATTESTATION UNDER RULE 2.7**

I, Leah E. Foster, Accounting Manager of the Narragansett Bay Commission, in conformance with part 2.7, of the Rules of Practice and Procedure of the Public Utilities Commission, hereby attest that the financial data presented in the rate base, cost of service, revenue statements and supporting data submitted herein are an accurate reflection of the books of the Narragansett Bay Commission. Any differences between the books and the test year data, and any changes in the manner of recording an item on the company's books during the test year have been expressly noted.

  
Leah E. Foster, CPA

STATE OF RHODE ISLAND  
PROVIDENCE, SC.

Subscribed and sworn to before me on this 1<sup>st</sup> day of November 2022.

  
Notary Public

ID# 53982  
Exp. 10/4/2025



**DIRECT TESTIMONY OF**  
**Mr. David M. Fox, Senior Manager**  
**Raftelis Financial Consultants, Inc.**

**for**  
**THE NARRAGANSETT BAY COMMISSION**

**November 4, 2022**

1 **I. INTRODUCTION**

2 **Q. Would you please give your name and business address for the record?**

3 A. My name is David M. Fox, and my business address is 24 Superior Drive, Suite 107,  
4 Natick, Massachusetts 01760.

5

6 **Q. By whom are you employed and in what capacity?**

7 A. I am a Senior Manager of Raftelis Financial Consultants, Inc. (Raftelis), a consulting  
8 firm specializing in the areas of water and wastewater finance and pricing. Raftelis  
9 was established in 1993 in Charlotte, North Carolina, by George A. Raftelis to provide  
10 financial and management consulting services to public and private sector clients.  
11 Raftelis is a national leader in the development of water and wastewater rates.

12

13 **Q. Please describe your educational background and work experience.**

14 A. I have a bachelor's degree in Economics from Coastal Carolina University in Conway,  
15 SC and a master's degree in Economics from Clemson University in Clemson, SC. After  
16 graduating in 2009, I was employed by Raftelis. Over the course of my career, I have  
17 worked on over 100 water and wastewater rate and financial studies within the  
18 United States. I have also had the opportunity to work on numerous financial  
19 feasibility studies in support of debt issues, capital program financing support,  
20 customer rate affordability analyses, utility valuations studies, and rate benchmarking  
21 surveys. I currently lead Raftelis' New England efforts based out of our office in Natick,  
22 MA.

23

24 **Q. Have you previously testified before state regulatory commissions or courts on rate  
25 related matters?**

26 A. Yes. I have testified and submitted expert witness analyses in support of dockets at  
27 the Rhode Island, New Hampshire, Maine, and California Public Utilities Commissions,

1 Massachusetts Departments of Public Utilities, and New Jersey Board of Public  
2 Utilities.

3

4 **Q. Do you belong to any professional organizations or committees?**

5 A. Yes, I am a member of the American Water Works Association, the New England  
6 Water Works Association, Massachusetts Water Works Association, and the Rhode  
7 Island Water Works Association. I also sit on the Financial Management Committee  
8 of the New England Water Works Association. For the American Water Works  
9 Association, I also contributed to the most recent (7th edition) of the M1 Manual on  
10 rates – Principles of Water Rates, Fees, and Charges.

11

12 **Q. Please describe your role in this proceeding?**

13 A. I am testifying in support of the multi-year rate increase requested by the  
14 Narragansett Bay Commission (NBC).

15

16 **Q. Please describe the purpose of your testimony.**

17 A. Raftelis developed a normalized test year for the fiscal year ending June 30, 2022  
18 (FY22) and a rate year for the fiscal year ending June 30, 2024 (FY24) in support of  
19 NBC's proposed multi-year rate increase. I also calculated the step increases  
20 requested by NBC. My testimony provides an explanation for Raftelis' work in  
21 developing the test year, rate year, step increases, as well as the schedules attached  
22 to my testimony.

23

24 **II. OVERVIEW**

25 **Q. What are the major items driving this rate request?**

26 A. They are as follows:

27

1       **1. The need to update the base rates with respect to consumption:**

2           NBC continues to experience declining average consumption for each of its three  
3           customer classes. NBC proposes to develop rate year consumption billing units  
4           using historical trends, which result in rates that are necessary to generate the  
5           required revenue.

6

7       **2. The need to update the number of non-residential meters:**

8           We have developed rate year non-residential meters using historical trends which  
9           will result in rates that are necessary to generate the required revenue.

10

11       **3. The need to update the number of residential dwelling units:**

12           NBC has seen an increase in the number of residential dwelling units. NBC  
13           proposes to develop the number of billable dwelling units for the rate year based  
14           on recent historical trends.

15

16       **4. Updates to Miscellaneous Revenue:**

17           NBC is proposing a number of normalization adjustments from its test year  
18           miscellaneous revenue, as well an introduction of a new miscellaneous tariff for  
19           the rate year. These will be described in more detail further on in my testimony.

20

21       **5. Salaries and Related Fringe Benefits**

22           NBC requires an adjustment for increases to salaries and fringe benefits. The rate  
23           year cost of service reflects contracted union cost of living adjustments (COLAs)  
24           and step increases and projected merit increases for non-union employees. The  
25           rate year salary adjustments are based on FTE's reflected in the test year salaries.  
26           Fringe benefits are also adjusted for increases in health insurance premiums and

1 rate changes for the employer contribution to union retirement and retirement  
2 health.

3

4 **6. Impact of Renewable Energy Projects and Electricity Rate Increases:**

5 NBC's renewable energy projects impact revenue as well as revenue  
6 requirements. Rate year adjustments reflect an entire year of impact from the  
7 operation of three renewable sources including: three wind turbines owned by  
8 NBC and located on NBC's Field's Point property, three wind turbines owned by  
9 NBC that are off-site and net metered, and power purchase agreements that  
10 generate net metering credits. The renewable energy credits associated with  
11 these sources are also reflected in the rate year revenue. Electricity supply,  
12 delivery and capacity charges are also incorporated into the electricity expense  
13 line item.

14

15 **7. Biosolids:**

16 NBC made an adjustment to biosolids disposal expense to reflect contracted CPI  
17 cost per dry ton adjustments and other price increases related to its long-term  
18 contract for biosolids disposal.

19

20 **8. Debt Service:**

21 NBC requires additional revenue to meet its debt service and debt service  
22 coverage requirements associated with funding its Capital Improvement Program  
23 (CIP).

24

25

26

27

1       **9. Miscellaneous Adjustments:**

2           A number of adjustments were made to reflect increasing expense associated with  
3           postage, printing and binding, screening and grit, insurance, maintenance and  
4           service agreements, chemicals, regulatory expense and other accounts.

5

6       **Q. How much of a rate increase is NBC requesting in this docket?**

7       A. NBC is requesting a five-step increase in user charge revenue as follows:

8           Step 1 (FY24) – NBC requires additional user charge revenue in the amount of  
9           \$11,257,959 that will increase total rate year revenue to \$115,574,327. This  
10          represents an increase over adjusted test year user charge revenue of 11.11%.

11          Step 2 (FY25) – NBC requires additional user charge revenue in the amount of  
12          \$8,735,691 for debt service. This represents a 7.76% increase over the proposed Step  
13          1 revenue in FY24.

14          Step 3 (FY26) – NBC requires additional user charge revenue of \$3,103,269 for debt  
15          service. This represents a 2.56% increase over the proposed Step 2 revenue in FY25.

16          Step 4 (FY27) – NBC requires additional user charge revenue of \$2,112,378 for debt  
17          service. This represents a 1.70% increase over the proposed Step 3 revenue in FY26.

18          Step 5 (FY28) – NBC requires additional user charge revenue of \$5,776,999 for debt  
19          service. This represents a 4.57% increase over the proposed Step 4 revenue in FY27.

20

21       **Q. Will all rates increase by the percentages set forth above (11.11%, 7.76%, 2.56%,  
22       1.70%, and 4.57%)?**

23       A. Yes. Schedule DMF – 35 shows the calculation of the required user charge revenue  
24       increase in the rate year (Step 1), while Schedule DMF – 37 presents corresponding  
25       ratepayer impact for various customer types. Schedules DMF – 38 and DMF – 39 also  
26       present the revenue deficiency calculations and customer impacts, respectively, for  
27       Steps 2, 3, 4, and 5.

1 **Q. Does that conclude your overview?**

2 A. Yes.

3

4 **III. TEST YEAR and ADJUSTED TEST YEAR (FY22)**

5 **Q. Mr. Fox, does the test year reflect audited figures?**

6 A. Yes. An independent audit of NBC's 2022 fiscal year was completed by Bacon and  
7 Company LLC, a CPA firm and the audit results were used as the basis for the test year.

8

9 **Q. How was the test year normalized?**

10 A. Raftelis worked in conjunction with NBC staff to identify test year adjustments and  
11 develop a normalized test year. This also involved review of the audited financial  
12 statements and trial balance ("financials"), and some of the detailed posting to the  
13 general ledger accounts. This review provided an understanding of the detailed  
14 transactions included in the revenue and expense. This review along with discussions  
15 with management are the basis for the adjusted test year.

16

17 **Q. What is the basis for the adjusted test year figures?**

18 A. As mentioned earlier, the test year figures are based on the June 30, 2022, financials  
19 prepared using Generally Accepted Accounting Principles (GAAP).

20

21 First, a number of normalizing adjustments were made, and they are identified by  
22 number on Schedule DMF – 1:

23

- 24 • Adjustment (1) – This consists of an adjustment to revenue to reflect an  
25 annualization of test year revenue due to an increase in rates granted in Docket  
26 5224 for Electronic Payment Transaction Fees, which were implemented on  
27 6/1/22. As such, it was assumed 11 out of the 12 months of the test year were

1 billed at the old rate, while 1 of the 12 months was billed at the new rate. This was  
2 then annualized for an adjusted test year.

3

4 • Adjustment (2) – Removal of one-time sewer tie-in revenue (Account 42596) in  
5 the amount of \$2,384,273 for recovery of sewer interceptor extension expense is  
6 shown in Schedule DMF – 7. See James McCaughey’s pre-filed testimony for  
7 further information.

8

9 • Adjustment (3) – Environmental Enforcement Fund Interest Income (Account  
10 45101) in the amount of \$35 and Environmental Enforcement Fund expense  
11 (Account 53380) in the amount of \$14,595 were both eliminated from the test  
12 year as shown in Schedule DMF - 7. In accordance with RI statute, the revenue is  
13 not available for operations and the associated expense is not paid from general  
14 operating revenue.

15

16 • Adjustment (4) – Removal of investment income earned on all accounts except  
17 the Revenue Fund and Operations and Maintenance Fund (bond covenants) in the  
18 amount of \$131,640 as shown in Schedule DMF – 7.

19

20 • Adjustment (5) – Annualization of Late Charge Revenue (Account 45500) in the  
21 amount of \$501,781 which had been suspended by the PUC during COVID-19 as  
22 shown in Schedule DMF – 7.

23

24 • Adjustment (6) – Removal of a one-time credit (Account 49002) in the amount of  
25 \$223,910 from National Grid for a high-voltage overcharge as shown in Schedule  
26 DMF – 7. See James McCaughey’s pre-filed testimony for further information.

27



- 1       • Adjustment (7) – Removal of rental revenue (Account 49003) in the amount of  
2       \$42,500, to reflect the elimination of all leases other than the one remaining lease  
3       at \$1,000/month as shown in Schedule DMF – 7. These leases were either related  
4       to allowing easement seller to pay rent to stay on property for a few months, or  
5       the lease is on property that was or is being sold.

6

7       The following adjustments shown in Schedule DMF – 8 were made to convert from a  
8       GAAP basis to a rate-making basis including:

9

- 10      • Adjustment (8) – Reclassify bad debt expense (Account 53200) in the amount of  
11      \$70,917 from residential consumption fee revenue (Account 41100) for  
12      ratemaking purposes.

13

- 14      • Adjustment (9) – Remove non-cash items such as gain on sale of asset (Account  
15      49004), contributed capital (Account 49005), depreciation (Account 57500),  
16      amortization right to use leased land (Account 57015), and amortization of asset  
17      retirement obligation (Account 57016) from the cost of service. The total amount  
18      is \$23,233,733.

19

- 20      • Adjustment (10) – Remove bond and note fees (Account 57800) in the amount of  
21      \$588,835.

22

- 23      • Adjustment (11) – Add lease payments and debt principal. The total adjustment is  
24      \$28,275,554.

25

- 26      • Adjustment (12) – Reflect capital outlays such as automotive equipment  
27      replacement (Account 16515), building and plant equipment (Account 16520),  
28      building and plant equipment replacement (Account 16525), computer

1 equipment (Account 16550), computer equipment replacement (Account 16555),  
2 lab and sampling equipment (Account 16570), lab and sampling equipment  
3 replacement (Account 16575), office furniture equipment (Account 16586), and  
4 building & other structure replacement (Account 16615) as expense. The total  
5 amount is \$3,862,859.

6  
7 • Adjustment (13) – Adjust interest in the amount of \$1,507,590 to remove the  
8 amortization of gains and losses from refundings and to remove the amortization  
9 of the Rhode Island Infrastructure Bank (RIIB) refunding credit.

10  
11 • Adjustment (14) – Add the debt service coverage to 25% of principal and interest  
12 in the amount of \$10,276,336.

13

14 The following retirement adjustments were made on Schedule DMF-9:

15

16 • Adjustment (15) – Adjust union pension (Account 52800), non-union pension  
17 (Account 52920), and union retirement health (Account 52940) expenses from  
18 GAAP to cash basis as shown in Schedule DMF – 9. The total amount is \$1,959,090.

19

20 Biosolids Disposal adjustments are reflected in DMF-10:

21

22 • Adjustment (16) – Adjust biosolids disposal (Account 53480) in the amount of  
23 \$281,240 and electricity (Account 54090) in the amount of (\$116,447) to  
24 normalize the test year as shown in Schedule DMF – 10. Field’s Point was not  
25 operating normally in the fall of 2021, which increased the amount of biosolids  
26 held at the plant. Some of these solids were stored in the gravity thickener tanks  
27 and went septic which reduced the amount of biosolids that were disposed of by

1 NBC's vendor. There were also increased pumping and aeration related electricity  
2 expenses.

3

4 DMF -11 sets forth the Net Meter Credit Adjustment:

5

- 6 • Adjustment (17) – Adjust the Net Metering Credit (Account 54091) earned from  
7 NBC's turbines in Coventry in the amount of \$215,195 due to one turbine being  
8 down for four months in the test year as shown in Schedule DMF – 11.

9

10 Adjustments 18 and 19 are reflected on Schedule DMF-7:

11

- 12 • Adjustment (18) – Reclassify Avaya telephone expense from service agreements  
13 (Account 53640) in the amount of \$825 to telephone expense (Account 54000).  
14 NBC also added new telephone service through Cox in November 2021, eliminated  
15 T-Mobile and Eagle Wireless for GPS Tracking for a net increase in Telephone  
16 (Account 54000) of \$48,176 as shown in Schedule DMF – 7.

17

- 18 • Adjustment (19) – Adjust Ultraviolet Disinfection expense (Account 54339) by  
19 removing \$86,806 because the FY 2021 bulb delivery was delayed and paid in FY  
20 2022 as shown in Schedule DMF – 7.

21

22 Finally, adjustment 20 can be found on Schedule DMF-12:

23

- 24 • Adjustment (20) – Increase the Renewable Energy Credit (Account 42605 REC  
25 Income Coventry) revenue by \$30,300 from the Coventry turbines due to one  
26 turbine being down for four months in the test year as shown in Schedule DMF –  
27 12.

1

2 **Q. Mr. Fox did you complete a schedule that shows the test year revenue by source**  
3 **that ties into the audited financial statements for FY 2022?**

4 A. Yes, see Schedule DMF - 3.

5

6 **Q. Have you provided historic revenues and expenses for the last three years?**

7 A. Yes, please see Schedule DMF - 2.

8

9 **Q. Does your adjusted test year represent a level of activity for a normalized year of**  
10 **the NBC?**

11 A. Yes, it does.

12

13 **IV. RATE YEAR (FYE June 30, 2024)**

14 **Q. Mr. Fox, how would you like to begin your rate year testimony?**

15 A. In an attempt to reduce the number of issues in this docket, I have reviewed the test  
16 year revenue and expense accounts to determine the best approach to dealing with  
17 the more than 80 general ledger accounts. During this review, I have determined that  
18 most of these accounts can be subdivided into six separate groupings. The remaining  
19 individual accounts not included in one of the six groups were analyzed as individual  
20 items. The six groups are as follows:

- 21 • Revenue accounts (there are 22 accounts in the adjusted test year)
- 22 • Operations and Maintenance Expense
- 23 ○ Personnel Service accounts (there are 16 accounts in the adjusted test  
24 year, with 12 accounts being adjusted in the rate year). These accounts are  
25 all payroll and payroll related accounts.
- 26 ○ Operating Supplies/Expense accounts (there are 54 accounts in the  
27 adjusted test year, with 22 accounts being adjusted in the rate year).

- 1           ○ Professional Services accounts (there are 7 accounts in the adjusted test  
2           year, with 2 accounts being adjusted in the rate year.)
- 3           • Lease/Subscription accounts (there are 2 accounts in the adjusted test year, with  
4           no rate year adjustments because the lease payments will remain at the adjusted  
5           test year level).
- 6           • Capital Outlay accounts (excluding Depreciation and Amortization there are 9  
7           accounts in the adjusted test year. I made a rate year adjustment to remove these  
8           capital outlay accounts from the rate year since they are paid from restricted  
9           funds).
- 10          • Debt Service accounts (this includes principal, interest, and debt service coverage  
11          requirements).
- 12          • There are 12 revenue and 40 expense accounts that have expense amounts in the  
13          adjusted test year of less than \$200,000. As NBC has done in its previous filings,  
14          I have left the majority of these accounts at their test year levels (Please note that  
15          a \$200,000 expense in any one account represents less than ¼ of one percent of  
16          the rate year revenue requirement). The only accounts that fit this description not  
17          left alone for the rate year were revenue accounts 42604 (REC Income FP  
18          Turbines), 45100 (Interest Income Revenue) and 45200 (Interest Income O&M),  
19          as well as the new revenue from the proposed Stormwater Permit Application fee.  
20          Also, expense accounts 53310 (Printing and Binding) and 54339 (Ultraviolet (UV)  
21          Disinfection) fit this description but were changed and will be specifically  
22          discussed in my testimony. For the other accounts, I believe that if I took the time  
23          to project the individual rate year expense for all of these accounts the net change  
24          would be immaterial to the overall revenue requirement. Further, I believe that  
25          the overall adjustment would most likely be an increase to the revenue  
26          requirement because of inflationary trends.
- 27

1 **Q. How would you like to continue your rate year testimony?**

2 A. I would like to continue by reviewing the revenue accounts in the same order as they  
3 are listed in Schedule DMF – 1.

4

5 **Q. Would you please provide a brief background regarding the consumption  
6 projections used for ratemaking purposes in NBC's recent dockets?**

7 A. Like many utilities across the nation, NBC's service area has experienced a decline in  
8 water consumption and consequently consumption-based revenue. In Docket 4890,  
9 NBC provided evidence that supported using a downward trend in consumption for  
10 both the interim year and the rate year, which the Division and PUC agreed with. NBC  
11 is proposing to use the same trend analysis to develop the billable consumption for  
12 the rate year. The NBC is hopeful this will generate the PUC approved revenues. It  
13 should be noted that for purposes of analyzing historical trends, FY 2021 has been  
14 omitted from the analysis to reflect an anomalous consumption year due to COVID-  
15 19 impacts on consumer behavior. This was a very common occurrence across the  
16 industry for utilities.

17

18 **Q. Was the use of the test year consumption level as adopted in NBC's prior docket  
19 successful?**

20 A. Unfortunately, NBC has continued to see a decline in billable consumption. NBC's  
21 actual billable consumption for the rate year, as approved in Docket 4890, failed to  
22 reach the rate year level projected. Additionally, the adjusted test year billable  
23 consumption is still lower than the rate year in Docket 4890. This trend can be viewed  
24 in the table below.

Rhode Island Public Utilities Commission  
David M. Fox – Direct Testimony  
On Behalf of The Narragansett Bay Commission

Narragansett Bay Commission  
Development of Rate Year Billable Consumption  
Schedule 5

	FY 2018 Actual	FY 2019 Actual	FY 2020 Actual	FY 2021 Actual*	FY 2022 Actual	FY 2022 Adj. Test Year	FY 2023 Estimate	FY 2024 Rate Year	Docket 4890	Docket 4890 vs. Adj. Test Year
<b>Customer Usage (Hcf)</b>										
Residential	8,233,501	8,199,972	8,110,082	8,710,408	8,080,205	8,080,205	8,029,789	7,979,687	8,153,259	(73,054)
Change		-0.4%	-1.1%	7.4%	-0.4%	0.0%	-0.6%	-0.6%		-0.9%
Commercial	4,694,089	4,750,934	4,267,362	4,141,550	4,373,066	4,373,066	4,278,456	4,185,893	4,678,683	(305,617)
Change		1.2%	-10.2%	-2.9%	2.5%	0.0%	-2.2%	-2.2%		-6.5%
Industrial	655,659	662,824	540,383	524,473	568,219	568,219	545,057	522,839	673,807	(105,588)
Change		1.1%	-18.5%	-2.9%	5.2%	0.0%	-4.1%	-4.1%		-15.7%
<b>Total: Customer Usage (Hcf)</b>	<b>13,583,249</b>	<b>13,613,730</b>	<b>12,917,827</b>	<b>13,376,431</b>	<b>13,021,490</b>	<b>13,021,490</b>	<b>12,853,302</b>	<b>12,688,419</b>	<b>13,505,749</b>	<b>(484,259)</b>
Change		0.2%	-5.1%	3.6%	0.8%	0.0%	-1.3%	-1.3%		-3.6%
				COVID Impact						

1 \*Omitting change from FY 2020 to FY 2021 in rate year adjustments due to COVID impact

2

3 **Q. How did you develop the number of residential dwelling units and non-residential**  
4 **meters in the rate year?**

5 A. In order to determine the billable units for the rate year, I calculated a composite rate  
6 for the test year. I divided the test year revenue by the composite rate to arrive at  
7 the total billable units for the test year. I then took the annual percentage increase  
8 for FY 2020, 2021 and 2022 to arrive at the number of residential dwelling units for  
9 the interim year and rate year. For the non-residential meters, I took the annual  
10 percentage decrease for FY 2020, 2021 and 2022 to arrive at the number of residential  
11 meters for the interim year and the rate year. As recognized in Docket 4890,  
12 residential dwelling units continue to increase year over year.

13

14 **Q. Please explain your rate year projections for residential well units and revenue.**

15 A. I increased the number of residential wells by the average percentage change for FY  
16 2020, 2021, and FY 2022, or three percent, for the interim and rate years. I then  
17 calculated the annualized test year rate times the number of residential wells for the  
18 rate year to arrive at the rate year residential well revenue. See schedules DMF-4 and  
19 DMF-6.

20

1 **Q. How has NBC managed to have a net income on a ratemaking basis despite these**  
2 **revenue shortfalls?**

3 A. Barring an extreme circumstance, the NBC should finish each year with a net income  
4 because its rates, as approved by the PUC, are designed to generate 125% of principal  
5 and interest so that NBC meets its debt coverage requirements. So far NBC has been  
6 able to meet its debt coverage requirements despite the consumption revenue  
7 shortfalls, but this is a concern given NBC's continuing need to access capital markets  
8 in order to finance its Capital Improvement Program (CIP).

9

10 **Q. What approach have you used to calculate the rate year consumption revenue in**  
11 **this docket?**

12 A. NBC continues to bill for usage below the PUC approved levels, and the usage decline  
13 does not appear to have abated. Therefore, an additional downward adjustment to  
14 total consumption from adjusted test year levels based on the downward trend was  
15 calculated. Consumption has been projected for each of the customer classes  
16 separately since they are billed at different rates. The methodology for residential  
17 and non-residential is the same. I multiplied the annualized test year rate by the rate  
18 year billable consumption to arrive at the rate year consumption revenue as  
19 presented in Schedule DMF-6.

20

21 **Q. Did you make any rate year adjustments to the revenue accounts?**

22 A. Yes. Adjustments were made to the Miscellaneous Revenue accounts to include  
23 expected additional revenue from capacity charge fees of \$48,344 and a slight  
24 reduction in revenue from septage income in the amount of \$16,521. These  
25 adjustments are based on a three-year average of FY 2020, 2021 and 2022 as  
26 presented in Scheduled DMF - 22.

27



1 **Q. Did you make a rate year revenue adjustment for the proposed new Stormwater**  
2 **Permit Application Fee?**

3 A. Yes. Additional revenue of \$29,353 was also assumed in the rate year from the  
4 proposed Stormwater Permit Application fees. In accordance with the RIPDES permits  
5 for Field's Point and Bucklin Point, NBC is required to expand its stormwater  
6 mitigation program to encourage the implementation of practices to reduce the  
7 volume of stormwater entering the combined system. To this end, NBC developed a  
8 comprehensive Stormwater Management Application, which applies to new sewer  
9 connection permits and commercial projects undergoing new development or  
10 redevelopment whether connecting directly or indirectly to NBC sanitary sewer lines.  
11 The Stormwater Management Application review requires the applicant to provide a  
12 Stormwater Management report that evaluates on-site stormwater management  
13 measures to eliminate stormwater flow to the NBC combined system, including  
14 engineering documentation of the methods and calculations used to estimate the  
15 stormwater flows pre-construction and post-construction and the identification of  
16 incorporated green infrastructure. A stormwater design plan that identifies  
17 stormwater drainage systems, alternative stormwater discharge options, and onsite  
18 systems to eliminate or reduce stormwater flow must also be included. NBC has seen  
19 an increased volume of these applications since the program was initiated in 2017.  
20 These applications also require extensive review and coordination with the  
21 developers. Therefore, NBC is requesting a Stormwater Permit Application fee to  
22 recover the review and processing costs. Please see my schedule DMF – 13 for  
23 additional information.

24  
25 **Q. Did you make any additional rate year adjustments to the revenue accounts?**

26 A. Yes. I made adjustments to revenue from the NBC's sale of Renewable Energy Credits  
27 (RECs). I calculated a 3-year average of the contracted rate per REC and multiplied it

1 by the rate year kWh produced to arrive at the rate year amount, which is reflected  
2 in Schedule DMF – 14.

3

4 Also, to reflect higher interest rates and investment earnings, I made adjustments to  
5 interest income for the rate year which are based on the interest in the interim year,  
6 shown in Schedule DMF – 15.

7

8 **Q. Does that complete your review of revenue for the rate year?**

9 A. Yes.

10

11 **Q. How would you like to continue you rate year testimony?**

12 A. I would like to continue by reviewing the expense accounts in the same general order  
13 as they are listed in Schedule DMF – 1.

14

15 **Q. Where would you like to begin?**

16 A. The first group of accounts I would like to discuss are Personnel expenses. I have  
17 prepared Schedule DMF - 16 to show my calculations for rate year salaries and other  
18 personnel related accounts. To arrive at the rate year salaries, I started my  
19 calculations using the adjusted test year salary expense for non-union and union  
20 employees. Next, I increased the adjusted test year salaries for union employees for  
21 contracted step increases and COLA effective on July 1, 2022, the interim year and  
22 July 1, 2023, the rate year. The average step increase is 2.35%, with 70% of union  
23 employees eligible (the other 30% are at the top step and therefore are not eligible  
24 for further step increases). Therefore, I assumed step increases of 1.645% (70% of  
25 2.35%) for both the interim and rate year. The contracted COLA is 2.5% for both the  
26 interim and rate year. The adjusted test year salaries for non-union employees were  
27 also increased to reflect merit increases of 2.5% effective on July 1, 2022, the interim

1 year and 5% COLA/Merit increase effective on July 1, 2023, the rate year. After arriving  
2 at the rate year salary and salary related cost calculations I made the appropriate  
3 adjustment to Schedule DMF - 1. Please see the pre-filed testimony of James  
4 McCaughey, NBC's Deputy Director for additional information regarding the non-  
5 union merit increases.

6

7 In order to calculate the rate year amount for the two reimbursement accounts and  
8 overtime expenses, I utilized the same methodology that I used to determine rate  
9 year salaries for non-union employees. I then calculated the union, non-union, and  
10 non-union limited overtime for the rate year in the same manner (see the calculation  
11 on Schedule DMF-16). The appropriate adjustments were then made to Schedule  
12 DMF-1.

13

14 **Q. Did you also increase FICA and Medicare expenses for the rate year?**

15 A. Yes, FICA and Medicare expenses are a function of payroll expenses. Please again refer  
16 to Schedule DMF – 16 for my calculation.

17

18 **Q. Did you also adjust the retirement accounts?**

19 A. Yes, I did. The union retirement account expense was calculated using 29.97% of  
20 union salaries in the rate year based on the planning values provided by the State of  
21 Rhode Island Budget Office. The non-union pension expense was calculated in the  
22 same manner as NBC's prior dockets at 10% of non-union and limited rate year  
23 salaries. See the calculation on Schedule DMF-16. The union retirement health  
24 account reflects the retiree health costs for NBC's union employees who participate  
25 in the Employees' Retirement System of Rhode Island and was calculated based upon  
26 the value from State of Rhode Island's Budget Office of 4.52%.

27

1 **Q. Have you made an allowance for employee turnover?**

2 A. No, because the test year payroll and payroll related expenses already reflect actual  
3 turnover.

4  
5 **Q. Have you prepared a schedule for health insurance?**

6 A. Yes. Schedule DMF – 17 shows the calculation of health insurance expense for the  
7 rate year. The rate year health insurance cost is calculated by multiplying the average  
8 annual percentage increase in health insurance for fiscal years 2020, 2021 and 2022  
9 and applying that to the FY 2023 renewal rate. The change from FY 2022 to FY 2023  
10 was not used in the calculation since it was a decrease, and not reflective of typical  
11 rate changes (most likely due to COVID-19 deferred usage and claims).

12

13 **Q. Do you have any other adjustments to Personnel expenses?**

14 A. No, I do not.

15

16 **Q. Are there other non-Personnel expenses that have been adjusted?**

17 A. Yes, I have reviewed a number of accounts individually and have made the following  
18 adjustments:

- 19 • Postage (account 53210) and Printing & Binding (account 53310) – The adjusted  
20 test year level of these expenses are \$402,181 and \$124,720, respectively. As  
21 shown on Schedule DMF - 18, postage expense was increased based on the  
22 average annual increase for the last three years. As shown on Schedule DMF – 19,  
23 printing and binding expense was increased for a near doubling of the expense for  
24 envelopes, due to inflation and supplier issues, resulting in a rate year adjustment  
25 of \$33,396.
- 26 • Building and Ground Maintenance (account 53470) - I have decreased the Building  
27 and Ground Maintenance expense based on the three-year average as shown on

1 Schedule DMF 22. This results in a decrease in Building and Ground Maintenance  
2 expense of \$12,958.

3 • Biosolids Disposal (account 53480) - The adjusted test year level of expense was  
4 \$5,221,325. As shown on Schedule DMF- 24, I calculated the rate year cost of  
5 Biosolids Disposal at \$6,243,887 resulting in a rate year adjustment of \$1,022,562.  
6 The rate year calculation consists of adjustments to both the contracted disposal  
7 rate per dry ton and the quantity of dry tons to arrive at the projected rate year  
8 expense. The rate year disposal rate per dry ton was calculated multiplying the  
9 projected increase in the CPI plus additional vendor adjustments of \$25/dry ton  
10 effective January 2023 and \$8/dry ton effective January 2024. Since the rate  
11 increases are effective mid-year, I developed a composite rate based upon the  
12 average dry ton production in the first six months vs. the second six months. This  
13 rate was applied to the projected dry tons for Field's Point and Bucklin Point to  
14 arrive at the rate year amount. The projected dry ton production is calculated as  
15 a three-year average (including the adjusted test year dry ton amount). See pre-  
16 filed testimony of James McCaughey for further information regarding the vendor  
17 contract.

18 • Screening & Grit Disposal (account 53490) - I have increased the Screening & Grit  
19 Disposal expense to reflect the average percentage rate change for the past three  
20 years, as well as the actual production of screening and grit. As shown on Schedule  
21 DMF - 25, the average annual rate increase of 4% was applied to the interim year  
22 (a known rate) to arrive at a rate year rate of \$161/dry ton. The average annual  
23 increase in tons over the past three years was applied to the adjusted test year  
24 and interim year to arrive at the rate year tons of 2,071. This results in an  
25 adjustment to increase Screening & Grit expense by \$85,743.

26 • Vehicle Fuel & Maintenance (account 53510) - I have increased the Vehicle Fuel &  
27 Maintenance expense to reflect the average annual percentage change for the

1 past three years. As shown on Schedule DMF - 21, I started with the adjusted test  
2 year and increased it by the average annual change for the interim year, and again  
3 to arrive at the rate year. This results in an adjustment to increase Vehicle Fuel &  
4 Maintenance expense by \$243,202.

5 • Repairs Building, Structure, and Equipment (account 53610) and Repairs Process  
6 Equipment (account 53615) – The expense in these two accounts were combined  
7 in FY 2020 and have been separated from FY 2021 forward for the purpose of a  
8 more efficient tracking of expense. As shown in schedule DMF-21, I have  
9 calculated the average annual increase in these accounts over the past three years  
10 based on their combined value. The average annual increase is 13.0% per year,  
11 which I applied to the adjusted test year and interim year. This calculation  
12 resulted in an increase in the Repairs Building, Structure, and Equipment expense  
13 of \$85,787 and Repairs-Process Equipment expense of \$179,393.

14 • Maintenance Contracts (account 53630) and Software Subscriptions (account  
15 53645) – The expense in these two accounts were combined in FY 2020 and FY  
16 2021 and have been separated for FY 2022 forward for the purpose of a more  
17 efficient tracking of expense. As shown in Schedule DMF – 21, I have calculated  
18 the average annual increase in these accounts over the past three years based on  
19 their combined value. The average annual increase is 10.0% per year, which I  
20 applied to the adjusted test year and interim year. This calculation resulted in an  
21 increase in the Maintenance/Service Agreements of \$137,583 and an increase in  
22 Software Subscriptions of \$186,831.

23 • Insurance and Worker’s Compensation Insurance (accounts 53660 and 53680) – I  
24 adjusted the Insurance Expense and the Worker Compensation Insurance based  
25 on the FY 2023 actual premiums and increased that amount by the three-year  
26 average annual percentage increase to arrive at the rate year amount. This results  
27 in an increase of \$167,071 for Insurance and a decrease of \$12,079 for Workers’

1 Compensation in the rate year. Please refer to Schedules DMF – 26 and DMF - 27  
2 for further documentation.

3 • Natural Gas (account 54060) - Schedule DMF - 30 shows the rate year calculation  
4 of the natural gas expense. I used the three-year average Therms for my  
5 calculations. I then multiplied the average Therms by facility by the composite  
6 rate, including the contracted supply rate, to project the rate year natural gas  
7 expense of \$409,137 and a (\$5,197) rate year adjustment.

8

9 • **Electricity and Electricity Related Accounts**

10 • Electricity (account 54090) - The rate year electricity expense is calculated by  
11 applying the projected supply, delivery and Rhode Island Gross Earnings Tax  
12 to the projected number of kWh to be purchased in the rate year, plus the  
13 fixed monthly customer charge. The number of kWh to be purchased in the  
14 rate year is based on total use less any behind the meter kWh production (See  
15 Schedule DMF – 28). I have used a three-year average to determine the rate  
16 year kWh purchases (including the adjusted test year usage at Field’s Point  
17 related to biosolids and the elimination of biogas production in the rate year  
18 at Bucklin Point).

19

20 The projected supply rate is \$0.16060/kWh, which is NBC’s contracted supply rate  
21 through November 30, 2023. The delivery rate is based on the FY 2022  
22 average.

23

24 • Net Metering Credits (account 54091) and Green PPA Net Metering Credits  
25 (account 54096) - The kWh’s generated from NBC’s Turbines in Coventry and  
26 the Green PPAs have been calculated based on the following:

- 1 • The adjusted test year production of kWh's for the Coventry Turbines. I  
2 normalized the test year because one turbine was down for 4 months in  
3 the test year.
- 4 • The Green PPA production in the rate year was increased by 2,000,000  
5 kWh to reflect an amendment to the contract.

6 The Net Metering Credit rate per kWh is based on the projected C-06 Standard  
7 Offer Service rate of \$.17558/kWh and an average delivery rate of  
8 \$.09650/kWh. This results in a rate year adjustment of (\$763,082) to Net  
9 Metering Credit account and a rate year adjustment of (\$1,761,762) to the  
10 Green PPA Net Metering Credits account (See Schedule DMF – 29).

- 11
- 12 • Green PPA (account 54095) – The Green PPA account expense is calculated  
13 as 75% of the rate year Green PPA Net Metering Credits or an increase in  
14 Green PPA expense in the rate year of \$1,321,322 (See Schedule DMF – 29).

- 15
- 16 • **Chemicals, Ultraviolet Disinfection, and Lab Supplies, Building and Maintenance**  
17 **Expense**

- 18 • Hypochlorite and Bisulfite (accounts 54332 and 54337) - I calculated the rate  
19 year cost for each chemical using a three-year average increase for the rate  
20 and usage. This resulted in a rate year cost for Hypochlorite that is \$59,351  
21 higher than the adjusted test year, and a rate year cost for Bisulfite that is  
22 \$16,640 higher than the adjusted test year (See Schedule DMF – 31).
- 23 • Ultraviolet (UV) Disinfection (account 54339) – I have increased the UV  
24 Disinfection expense by applying the average annual increase over the three  
25 years including the interim year, which primarily includes the price of bulbs  
26 and ballast costs. The resulted in an increase of \$40,652. (See Schedule DMF  
27 – 20.)



- 1           • Lab Supplies and Supplies, Building and Maintenance (accounts 54340 and  
2           54370) - The adjustments for these two accounts were derived by applying the  
3           average annual increase over the past three years to the adjusted test year  
4           and the interim year. This increase for lab supplies also included a 12%  
5           surcharge. This resulted in increases for Lab Supplies of \$292,398 and an  
6           increase in Supplies Building and Maintenance of \$211,462. (See Schedule  
7           DMF – 21.)  
8
- 9           • Regulatory Expense (account 52600) - Regulatory expense increased \$129,791  
10          over the adjusted test year and reflects a higher regulatory assessment for the  
11          PUC as well as the inclusion of normalized rate case expense for this filing. I have  
12          assumed \$150,000 in full rate case costs, normalized over a 3-year period, or an  
13          increase in revenue requirements of \$50,000 annually. The actual amount will be  
14          determined once the filing reaches its conclusion. The regulatory assessment  
15          increase reflects the average annual percentage change in the regulatory  
16          assessment from the RIPUC that was then applied to the adjusted test year to  
17          arrive at the interim year level. This same percentage was applied to the interim  
18          year to arrive at the rate year expense of \$677,742. (See Schedule DMF -23)  
19
- 20          • Other Services (account 52690) – I increased the Other Services account to adjust  
21          for two items. First, I made an adjustment to reflect the increasing trend in  
22          Electronic Payment Transaction Fees (EPTF). I calculated the month over month  
23          percentage increase in EPTF for each of the twelve months through August 2022.  
24          I then averaged these increases to arrive at an average annual increase of 26.2%.  
25          I applied this increase to the adjusted test year and interim year to arrive at a rate  
26          year amount of \$888,309 for EPTF (See Schedules DMF – 32). Also, see James  
27          McCaughey’s pre-filed testimony for further information.

1

- 2 • Debt Service – I have made a rate year adjustment associated with NBC’s existing  
3 debt service schedules and the RIIB FY 2023 debt issuance, resulting in additional  
4 rate year principal and interest payments of \$3,174,524 and \$3,190,271,  
5 respectively. I have made a rate year adjustment to reflect NBC’s debt service  
6 coverage requirement in the amount of \$1,591,199. In addition to the rate year  
7 adjustments, I have also included projected debt service for Steps 2, 3, 4, and 5,  
8 along with the corresponding coverage requirements in each year. Total debt  
9 service requirements are projected to increase by \$8,735,691 in Step 2,  
10 \$3,103,269 in Step 3, \$2,112,378 in Step 4, and \$5,776,999 in Step 5. Please see  
11 schedule DMF – 33 for a presentation of debt service requirements. Also, please  
12 refer to the pre-filed testimony of Steve Maceroni for more information with  
13 regard to NBC’s future debt service obligations.

14

15 **Q. Does that concluded your review of expense accounts?**

- 16 A. Yes, with one exception. The only other adjustment I have made was to recalculate  
17 NBC’s net operating reserve utilizing 1.5% of non-personnel operating expense, to be  
18 consistent with the Commission’s order from Docket 4890. Utilizing NBC’s non-  
19 personnel O&M expenses as included in this filing and Schedule DMF – 1, a reserve  
20 adjustment of \$70,513 would be required for the rate year, resulting in an annual net  
21 operating reserve revenue requirement of \$328,282. Please see schedule DMF – 34  
22 for a presentation of the reserve requirement calculation.

23

24 **Q. Do you have any other modifications?**

- 25 A. Yes. I have included a modification to NBC’s Terms and Conditions to include fees for  
26 the Notice of Lien and Release of Lien.

27

1 **Q. What is the purpose of these fees?**

2 A. NBC is requesting to add fees associated with recording a Notice of Lien and a Release  
3 of Lien to the Service Fee Schedule to allow NBC to recover actual costs incurred when  
4 recording those documents with a city or town registry of deeds. Recording a Notice  
5 of Lien is a collection tool NBC periodically utilizes when other more common tools do  
6 not result in successful collection of delinquent sewer use fees, charges and  
7 assessments. Once the sewer use fees, charges and assessments are ultimately  
8 collected, a Release of Lien must be recorded. Both recordings are subject to fees that  
9 are statutorily set pursuant to Rhode Island General Laws.

10

11 **Q. Have you included revenue in NBC's cost of service to reflect these fees?**

12 A. No. These fees are pass-throughs of the actual costs incurred.

13

14 **Q. Have you calculated new rates to achieve the rate year revenue requirements, as  
15 well as a revenue proof, and rate payer impact for this docket?**

16 A. Yes. I have calculated the across-the-board user charge increase required in order to  
17 sufficiently recover the rate year revenue requirements as filed. Please refer to  
18 Schedule DMF – 35 for this calculation. Subsequently, Schedule DMF – 36 shows the  
19 revenue proof calculation, and Schedule DMF – 37 presents the rate year rate payer  
20 impact for various customer types.

21

22 **Q. Mr. Fox, does that conclude your rate year analysis?**

23 A. Yes.

24

25 **V. RATE DESIGN**

26 **Q. Mr. Fox, are there any rate design issues proposed for this Docket?**

27 A. There are no rate design issues proposed for this Docket.

1 **VI. STEP INCREASES**

2 **Q. Mr. Fox, is NBC only filing for an increase for the rate year adjustments as described**  
3 **here in your testimony?**

4 A. No, as set forth previously in my testimony, NBC is requesting approval of step  
5 increases for the following four years after the rate year (FY25, FY26, FY27, and FY28)  
6 to adjust revenues to recover NBC's expected additional costs associated with  
7 changes in debt service. I have assumed all other components of the rate year  
8 revenues and revenue requirements will remain unchanged and have only increased  
9 the Step 2 through Step 5-year revenue requirements by the expected increase in  
10 debt service and associated coverage requirements. Please see Schedule DMF – 38  
11 for a presentation of the revenue deficiency and required user charge increase for  
12 Steps 2 through 5. Schedule DMF – 39 presents the expected customer impacts for  
13 various types of customers based on the proposed increases associated with each  
14 Step.

15

16 **VII. CONCLUSION**

17 **Q. Mr. Fox, does this conclude your testimony?**

18 A. Yes, it does.

**Narragansett Bay Commission**  
**Test Year and Rate Year**  
**Schedule 1**

Account Number	Account Description	Test Year 6/30/2022	Test Year Adjustments		Adjusted Test Year 6/30/22	Rate Year Adjustments	Rate Year (Step 1) 6/30/24
Revenue							
41000	Flat Fees Residential	\$ 28,924,095	\$ 148,566	(1)	\$ 29,072,661	\$ 230,936	\$ 29,303,597
41100	Consumption Fee - Residential	30,730,826	224,439	(1)(8)	30,955,265	(385,084)	30,570,181
41501 41502	Flat Fees Commercial/Industrial	15,310,123	78,555	(1)	15,388,678	(9,347)	15,379,331
41510	Consumption Fee - Commercial	25,035,800	126,822	(1)	25,162,622	(1,076,994)	24,085,628
41511	Consumption Fee - Industrial	2,131,389	10,797	(1)	2,142,186	(171,083)	1,971,103
42001	Pretreatment Application Fees	61,280	-		61,280	-	61,280
42500	Connection Permit Fees	43,850	-		43,850	-	43,850
42595	Capacity Charge Fees	225,810	-		225,810	48,334	274,144
42599	Real Estate Closing Fee	165,390	-		165,390	-	165,390
42600	Abatement Application Fee	3,710	-		3,710	-	3,710
42596	Sewer Tie-in Revenue	2,384,273	(2,384,273)	(2)	-	-	-
42602	Return Check Fee Revenue	21,685	-		21,685	-	21,685
TBD	Stormwater Permit Application Fee	-	-		-	29,353	29,353
42604	REC Income FP Turbines	177,744	-		177,744	(10,056)	167,688
42605	REC Income Coventry	208,296	30,300	(20)	238,596	(58,101)	180,495
42606	REC Income Green PPA	261,668	-		261,668	53,568	315,236
42607	REC Income Biogas Electric	440	-		440	-	440
43500	Septage Income	372,346	-		372,346	(16,521)	355,825
45100	Interest Income Revenue	643	-		643	195,557	196,200
45101	Interest Income EEF	35	(35)	(3)	-	-	-
45156	Interest Income Restricted	21,798	(21,798)	(4)	-	-	-
45200	Interest Income O & M	510	-		510	250,434	250,944
45302	Interest Income Operating Capital	2,539	(2,539)	(4)	-	-	-
45303	Interest Income Grant / Capital Reimb	15,705	(15,705)	(4)	-	-	-
45309	Interest Income Revbond Serices C	5,664	(5,664)	(4)	-	-	-
45412	Interest Income Debt Service Payment	39,827	(39,827)	(4)	-	-	-
45413	Interest Income Debt Service Redemption	2	(2)	(4)	-	-	-
45414	Interest Income Stabilization	35,499	(35,499)	(4)	-	-	-
45417	Interest Income 2008 Debt Service Payment	1,756	(1,756)	(4)	-	-	-
45419	Interest Income Operating Reserve for Revenue Stability	8,603	(8,603)	(4)	-	-	-
45423	Interest Income 2020 Series B	231	(231)	(4)	-	-	-
45424	Interest Income 2020 Series C	16	(16)	(4)	-	-	-
45500	Late Charge Revenue	358,415	501,781	(5)	860,196	-	860,196
49000	Discounts Earned	3,564	-		3,564	-	3,564
49002	Miscellaneous Income	288,437	(223,910)	(6)	64,527	-	64,527
49003	Rental Revenue	54,500	(42,500)	(7)	12,000	-	12,000
49004	Gain on Sale of Asset	10,241	(10,241)	(9)	-	-	-
49005	Contributed Capital	1,000,000	(1,000,000)	(9)	-	-	-
Total: Revenue		<u>107,906,710</u>	<u>(2,671,339)</u>		<u>105,235,371</u>	<u>(919,003)</u>	<u>104,316,368</u>
Revenue Requirements							
Operation & Maintenance Expenses							
Personnel							
52100	Union - Regular	6,356,106	-		6,356,106	543,288	6,899,394
52150	Union Overtime	674,868	-		674,868	57,684	732,552
52300	Non-Union Regular	11,711,353	-		11,711,353	892,991	12,604,344
52350	Non-Union Overtime	246,531	-		246,531	18,798	265,329
52400	Non-Union Limited	30,073	-		30,073	2,293	32,366
52800	Union Pension	886,877	906,175	(15)	1,793,052	486,561	2,279,613
52810	FICA/Medicare	1,376,801	-		1,376,801	182,310	1,559,111
52820	Unemployment	60,259	-		60,259	-	60,259
52920	Non Union Pension	630,661	676,727	(15)	1,307,388	(47,903)	1,259,485
52940	Union Retirement Health	(49,901)	376,188	(15)	326,287	17,518	343,805
52950	Health Insurance	4,307,986	-		4,307,986	36,719	4,344,705
52970	Dental Insurance	292,574	-		292,574	-	292,574
52980	Vision Insurance	47,928	-		47,928	-	47,928
52990	Disability Insurance	48,235	-		48,235	-	48,235
Total: Personnel		<u>26,620,351</u>	<u>1,959,090</u>		<u>28,579,441</u>	<u>2,190,259</u>	<u>30,769,700</u>
59000	Salary Reimbursement	(1,705,910)	-		(1,705,911)	(130,076)	(1,835,987)
59001	Fringe Reimbursement	(925,478)	-		(925,478)	(70,568)	(972,331)
Net: Personnel		<u>23,988,963</u>	<u>1,959,090</u>		<u>25,948,052</u>	<u>1,989,615</u>	<u>27,961,383</u>

**Narragansett Bay Commission**  
**Test Year and Rate Year**  
**Schedule 1**

Account Number	Account Description	Test Year 6/30/2022	Test Year Adjustments		Adjusted Test Year 6/30/22	Rate Year Adjustments	Rate Year (Step 1) 6/30/24
<b>Operating Supplies/Expense</b>							
52610	Medical Svcs.	10,318	-		10,318	-	10,318
53200	Bad Debt Expense	-	70,917	(8)	70,917	-	70,917
53210	Postage	402,181	-		402,181	50,563	452,744
53240	Dues & Subscriptions	73,243	-		73,243	-	73,243
53250	Freight	36,232	-		36,232	-	36,232
53310	Printing & Binding	124,720	-		124,720	33,396	158,116
53320	Advertising	3,020	-		3,020	-	3,020
53330	Rental- Equipment	34,323	-		34,323	-	34,323
53340	Rental- Clothing	36,123	-		36,123	-	36,123
53350	Rental-Outside Property	1,500	-		1,500	-	1,500
53360	Miscellaneous Expense	6,478	-		6,478	-	6,478
53370	Public Outreach Ed.	33,362	-		33,362	-	33,362
53380	EEF	14,595	(14,595)	(3)	-	-	-
53410	Local Travel	947	-		947	-	947
53420	Long Distance Travel	21,714	-		21,714	-	21,714
53470	Bldg. & Grnd. Maint.	244,840	-		244,840	(12,958)	231,882
53480	Biosolids Disposal	4,940,085	281,240	(16)	5,221,325	1,022,562	6,243,887
53490	Screening & Grit Disposal	247,688	-		247,688	85,743	333,431
53510	Vehicle Fuel & Maintenance	246,131	-		246,131	243,202	489,333
53610	Repairs Bldg, Struct, Equip.	309,812	-		309,812	85,787	395,599
53615	Repairs Process Equipment	647,865	-		647,865	179,393	827,258
53620	Repair-Highway & Walks	22,819	-		22,819	-	22,819
53630	Maintenance Contracts	655,157	-		655,157	137,583	792,740
53635	Maint. Contracts - Office Equip.	118,083	-		118,083	-	118,083
53640	Service Agreements	345,399	(825)	(18)	344,574	-	344,574
53645	Software Subscriptions	889,671	-		889,671	186,831	1,076,502
53650	Highway & Landscape	11,077	-		11,077	-	11,077
53660	Insurance	1,024,072	-		1,024,072	167,071	1,191,143
53680	Work. Comp. Insurance	443,397	-		443,397	(12,079)	431,318
53900	Central Phone Svcs.	616	-		616	-	616
54000	Telephone	277,960	48,176	(18)	326,136	-	326,136
54020	Fuel Oil #2 - Diesel	12,004	-		12,004	-	12,004
54060	Fuel-Gas	414,334	-		414,334	(5,197)	409,137
54090	Electricity	3,913,901	(116,447)	(16)	3,797,454	3,121,980	6,919,434
54091	Net Metering Credit	(1,189,892)	(215,195)	(17)	(1,405,087)	(763,082)	(2,168,169)
54092	Field's Point Turbines	268,490	-		268,490	-	268,490
54093	Coventry Wind	244,645	-		244,645	-	244,645
54095	Green PPA	1,518,723	-		1,518,723	1,321,322	2,840,045
54096	Green PPA Net Metering Credits	(2,024,964)	-		(2,024,964)	(1,761,762)	(3,786,726)
54097	Biogas	1,700	-		1,700	-	1,700
54110	Water	119,644	-		119,644	-	119,644
54200	Clothing	48,644	-		48,644	-	48,644
54332	Chlorine/Hypochlorite	516,561	-		516,561	59,351	575,912
54333	Carbon Feed	37,340	-		37,340	-	37,340
54335	Polymer	123,773	-		123,773	-	123,773
54336	Sodium Hydroxide	-	-		-	-	-
54337	Sodium Bisulfite	376,589	-		376,589	16,640	393,229
54338	Soda Ash	62,256	-		62,256	-	62,256
54339	UV Disinfection	219,317	(86,806)	(19)	132,511	40,652	173,163
54340	Lab Supplies	458,017	-		458,017	292,398	750,415
54345	Lab Chemicals & Gases	-	-		-	-	-
54370	Supplies Building & Maint.	538,894	-		538,894	211,462	750,356
54410	Educational Supp. & Exp.	30,110	-		30,110	-	30,110
54420	Computer Supplies	93,451	-		93,451	-	93,451
54430	Other Op. Supplies & Exp.	12,695	-		12,695	-	12,695
54440	Safety Equipment	82,005	-		82,005	-	82,005
54500	Office Expense	116,468	-		116,468	-	116,468
57800	Bond And Note Fees	588,835	(588,835)	(10)	-	-	-
<b>Total: Operating Supplies/Expense</b>		<b>17,806,968</b>	<b>(622,370)</b>		<b>17,184,598</b>	<b>4,700,858</b>	<b>21,885,456</b>
<b>Professional Services</b>							
52600	Regulatory Expense	547,951	-		547,951	129,791	677,742
52630	Educational Services	60,899	-		60,899	-	60,899
52650	Security Services	24,476	-		24,476	-	24,476
52660	Legal Services	192,561	-		192,561	-	192,561
52670	Mgmt/Audit Services	164,710	-		164,710	-	164,710
52680	Clerical Services	669	-		669	-	669
52690	Other Services	747,404	-		747,404	330,211	1,077,615
<b>Total: Professional Services</b>		<b>1,738,670</b>	<b>-</b>		<b>1,738,670</b>	<b>460,002</b>	<b>2,198,672</b>
<b>Total: Operations &amp; Maintenance Expenses</b>		<b>43,534,601</b>	<b>1,336,720</b>		<b>44,871,319</b>	<b>7,150,476</b>	<b>52,045,511</b>

**Narragansett Bay Commission**  
**Test Year and Rate Year**

**Schedule 1**

Account Number	Account Description	Test Year 6/30/2022	Test Year Adjustments		Adjusted Test Year 6/30/22	Rate Year Adjustments	Rate Year (Step 1) 6/30/24
<b>Lease/Subscriptions</b>							
Lease	Lease Payments	-	105,283	(11)	105,283	-	105,283
57950	Lease Interest Expense	8,117	-		8,117	-	8,117
<b>Total: Leases</b>		<b>8,117</b>	<b>105,283</b>		<b>113,400</b>	<b>-</b>	<b>113,400</b>
<b>Depreciation</b>							
57500	Depreciation	22,083,785	(22,083,785)	(9)	-	-	-
57015	Amortization Right to Use Leased Land	117,207	(117,207)	(9)	-	-	-
57016	Amortization of Asset Retirement Obligation	22,500	(22,500)	(9)	-	-	-
<b>Total: Depreciation</b>		<b>22,223,492</b>	<b>(22,223,492)</b>		<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Operating Capital</b>							
16515	Automotive Equipment Replacement	-	421,902	(12)	421,902	-	421,902
16520	Building and Plant Equipment	-	143,000	(12)	143,000	-	143,000
16525	Building and Plant Equipment Replacement	-	1,395,951	(12)	1,395,951	-	1,395,951
16550	Computer Equipment	-	353,368	(12)	353,368	-	353,368
16555	Computer Equipment Replacement	-	514,593	(12)	514,593	-	514,593
16570	Lab Equipment	-	554,761	(12)	554,761	-	554,761
16575	Lab and Sampling Equipment Replacement	-	322,206	(12)	322,206	-	322,206
16586	Office Furniture Equipment	-	57,893	(12)	57,893	-	57,893
16615	Building & Other Structure Replacement	-	99,185	(12)	99,185	-	99,185
<b>Total: Operating Capital</b>		<b>-</b>	<b>3,862,859</b>		<b>\$ 3,862,859</b>	<b>\$ -</b>	<b>\$ 3,862,859</b>
<b>Debt Service</b>							
PRIN	Principal	-	28,170,271	(11)	28,170,271	3,174,524	31,344,795
INT	Interest	14,442,664	(1,507,590)	(13)	12,935,074	3,190,271	16,125,345
Coverage	Debt Service Coverage	-	10,276,336	(14)	10,276,336	1,591,199	11,867,535
<b>Total: Debt Service</b>		<b>14,442,664</b>	<b>36,939,017</b>		<b>51,381,681</b>	<b>7,955,994</b>	<b>59,337,675</b>
Op Reserve	Operating Reserve	-	257,769		257,769	70,513	328,282
<b>Total: Revenue Requirements</b>		<b>80,208,874</b>	<b>20,172,873</b>		<b>100,373,628</b>	<b>15,176,983</b>	<b>115,574,327</b>
<b>NET INCOME</b>		<b>27,697,836</b>			<b>\$ 4,861,743</b>		<b>\$ (11,257,959)</b>

**Narragansett Bay Commission**  
**Three Year History**  
**Schedule 2**

<b>Account</b>	<b>Description</b>	<b>Audited FY20</b>	<b>Audited FY21</b>	<b>Audited FY22</b>
41000	RESIDENTIAL-FLAT FEE	\$ 28,510,382	\$ 28,755,097	\$ 28,924,095
41100	RESIDENTIAL-CONSUMPTION	31,135,174	33,186,656	30,730,826
41501	COMMERCIAL-FLAT FEE	14,568,820	14,656,348	14,589,390
41502	INDUSTRIAL-FLAT FEE	723,804	721,955	720,733
41510	COMMERCIAL-CONSUMPTION	24,499,355	23,697,952	25,035,800
41511	INDUSTRIAL-CONSUMPTION	1,997,235	1,966,249	2,131,389
42000	PRETREATMENT FEES	(326)	-	-
42001	PRETREATMENT APPLICATION FEES	61,680	71,700	61,280
42500	SEWER CONNECTION PERMIT FEES	50,135	45,745	43,850
42595	CAPACITY CHARGE FEES	285,296	311,325	225,810
42599	REAL ESTATE CLOSING	152,133	169,860	165,390
42600	ABATEMENT APPLICATION FEE	3,430	6,545	3,710
42596	SEWER TIE-IN REVENUE	-	-	2,384,273
42603	RETURNED CHECK FEE REVENUE	26,910	18,080	21,685
42604	REC INCOME - FP TURBINES	176,425	185,778	177,744
42605	REC INCOME - WED WIND (COV)	249,992	207,968	208,296
42606	REC INCOME - WED SOLAR/WIND	153,262	210,287	261,668
42607	REC INCOME - BIOGAS ELECTRIC	-	-	440
43500	SEPTAGE INCOME	342,994	352,135	372,346
45100	INTEREST INCOME REVENUE	119,236	1,395	643
45101	INTEREST INCOME EEF	133	37	35
45156	INTEREST INCOME RESTRICTED ACCOUNT	182,932	2,567	21,798
45200	INTEREST INCOME O & M	86,097	1,583	510
45302	INTEREST INCOME OPERATING CAPITAL	31,813	793	2,539
45303	INTEREST INCOME GRANT/CAPITAL REIMB	120,436	2,700	15,705
45309	INTEREST INCOME REVBOND SERIES C DEBT SERVICE RESERVE	45,944	1,249	5,664
45412	INTEREST INCOME DEBT SERVICE PAYMENT	226,219	9,119	39,827
45413	INTEREST INCOME DEBT REDEMPTION 2004	14	1	2
45414	INTEREST INCOME STABILIZATION	68,376	4,344	35,499
45417	INTEREST INCOME 2008 DEBT SERVICE PAYMENT ACCT	6,619	169	1,756
45419	INTEREST INCOME OPER RESERVE FOR REV	59,597	1,889	8,603
45423	INTEREST INCOME 2020 SERIES B	-	32	231
45424	INTEREST INCOME 2020 SERIES C	-	1	16
45500	LATE CHARGE PENALTY	837,184	(1,446)	358,415
46500	ENVIRONMENTAL ENFORCEMENT REVENUE	8,997	20,053	-
47504	GRANT REVENUE	-	27,415	-
47505	COVID-19 FEMA REVENUE	65,614	-	-
49000	DISCOUNTS EARNED	3,489	2,853	3,564
49002	MISCELLANEOUS INCOME	51,882	113,128	288,437
49003	RENTAL REVENUE	81,600	164,925	54,500
49004	GAIN ON DISPOSAL OF ASSETS	-	-	10,241
49005	CAPITAL CONTRIBUTIONS	1,998,022	-	1,000,000
		106,930,905	104,916,487	107,906,710



**Narragansett Bay Commission**  
**Three Year History**  
**Schedule 2**

<b>Account</b>	<b>Description</b>	<b>Audited FY20</b>	<b>Audited FY21</b>	<b>Audited FY22</b>
52100	UNION REGULAR	6,142,094	6,171,274	6,356,106
52150	UNION OT	529,793	541,584	674,868
52300	NON-UNION REGULAR	10,938,982	11,404,620	11,711,353
52350	NON-UNION OT	193,061	195,982	246,531
52400	NON-UNION LIMITED	23,942	24,102	30,073
52600	REGULATORY EXPENSES	505,790	498,496	547,951
52610	MEDICAL SERVICES	6,549	8,131	10,318
52630	EDUCATIONAL SERVICES	37,808	43,599	60,899
52650	SECURITY SERVICES	12,804	18,502	24,476
52660	LEGAL SERVICES	140,158	135,195	192,561
52670	MGMT AND AUDIT SERVICES	209,803	186,880	164,710
52680	TEMPORARY/CLERICAL SERVICES	31,929	34,584	669
52690	OTHER SERVICES	275,576	675,241	747,404
52800	UNION PENSION	1,951,850	1,636,498	886,877
52810	FICA	1,294,302	1,325,748	1,376,801
52820	UNEMPLOYMENT INSURANCE	41,417	15,968	60,259
52920	NON UNION PENSION	510,806	(501,704)	630,661
52940	UNION RETIREMENT HEALTH	117,883	108,840	(49,901)
52950	HEALTH INSURANCE	3,931,997	4,167,792	4,307,986
52970	DENTAL INSURANCE	297,912	307,359	292,574
52980	VISION INSURANCE	47,050	48,368	47,928
52990	LTD INSURANCE	43,694	46,903	48,235
53210	POSTAGE	363,079	356,744	402,181
53240	DUES AND SUBSCRIPTIONS	68,355	85,962	73,243
53250	FREIGHT	28,445	30,645	36,232
53310	PRINTING AND BINDING	130,546	125,066	124,720
53320	ADVERTISING	5,858	1,677	3,020
53330	RENTALS EQUIPMENT	18,759	9,233	34,323
53340	RENTALS CLOTHING	22,583	25,176	36,123
53350	RENTAL OUTSIDE PROPERTY	3,052	2,475	1,500
53360	MISCELLANEOUS EXPENSE	5,384	6,363	6,478
53370	PUBLIC OUTREACH EDUCATION	24,416	8,386	33,362
53380	ENVIRONMENTAL ENFORCEMENT FUND EXPENSES	5,100	20,000	14,595
53410	LOCAL TRAVEL	1,076	77	947
53420	LONG DISTANCE TRAVEL	47,265	1,247	21,714
53470	BLDG AND GROUND MAINT	191,618	259,188	244,840
53480	BIOSOLID DISPOSAL	4,926,729	4,857,583	4,940,085
53490	SCREENING AND GRIT DISPOSAL	207,447	205,820	247,688
53510	VEHICLE FUEL AND MAINTENANCE	135,767	206,009	246,131
53610	REPAIRS-BUILDING AND STRUCTURES	760,300	450,143	309,812
53615	REPAIRS-PROCESS EQUIPMENT	-	517,626	647,865
53620	REPAIRS-HIGHWAYS AND WALKS	55,747	26,585	22,819
53630	MAINTENANCE CONTRACTS	1,290,609	1,433,464	655,157
53635	OFFICE EQUIPMENT CONTRACTS	135,987	167,308	118,083
53640	SERVICE AGREEMENTS	239,455	184,018	345,399
53645	SOFTWARE SUBSCRIPTION	-	-	889,671
53650	HIGHWAY AND LANDSCAPE	7,437	14,667	11,077
53660	INSURANCE	750,118	830,525	1,024,072
53680	WORKERS' COMP INSURANCE	460,968	449,084	443,397
53900	CENTRAL TELEPHONE	2,667	1,904	616
54000	TELEPHONE	197,526	193,874	277,960
54020	DIESEL FOR EQUIP	17,301	21,903	12,004
54060	FUEL-GAS	349,161	434,780	414,334
54090	ELECTRICITY	3,720,048	3,739,292	3,913,901
54091	NBC NET METERING CREDITS	(1,503,299)	(1,395,648)	(1,189,892)

**Narragansett Bay Commission**  
**Three Year History**  
**Schedule 2**

<b>Account</b>	<b>Description</b>	<b>Audited FY20</b>	<b>Audited FY21</b>	<b>Audited FY22</b>
54092	FIELD'S POINT TURBINES	192,906	160,417	268,490
54093	COVENTRY TURBINES	311,308	286,904	244,645
54095	GREEN PPA	1,457,894	1,419,674	1,518,723
54096	GREEN PPA NET METERING CREDITS	(1,943,859)	(1,892,899)	(2,024,964)
54097	BIOGAS	-	77,013	1,700
54110	WATER	95,929	116,810	119,644
54200	CLOTHING	33,361	40,968	48,644
54332	CHEMICALS, CHLORINE/HYPOCHLORITE	418,224	427,328	516,561
54333	CHEMICALS, CARBON FEED	-	-	37,340
54335	CHEMICALS, POLYMER	117,939	90,390	123,773
54337	CHEMICALS, SODIUM BISULFITE	349,736	318,658	376,589
54338	CHEMICALS, SODA ASH	44,535	55,365	62,256
54339	UV DISINFECTION	168,605	27,734	219,317
54340	LAB, MEDICAL SUPPLIES	347,808	398,564	458,017
54370	SUPPLIES BLDG & MAINT	393,769	454,136	538,894
54410	EDUCATION SUPPLIES & EXPENSE	39,610	43,431	30,110
54420	COMPUTER SUPPLIES & EXPENSE	62,550	74,124	93,451
54430	OTHER OPERATING SUPPLIES & EXPENSE	8,459	12,061	12,695
54440	SAFETY EQUIPMENT	67,454	72,165	82,005
54441	COVID-19 EXPENSE	100,886	-	-
54444	GRANT EXPENSE	-	93,029	-
54500	OFFICE EXPENSE	102,732	123,635	116,468
57015	AMORTIZATION EXPENSE RIGHT TO USE WIND TURBINES	-	-	117,207
57016	AMORTIZATION EXPENSE ASSET RETIREMENT OBLIGATION	-	-	22,500
57500	DEPRECIATION	16,612,202	17,093,870	22,083,785
57800	BOND AND NOTE FEES	1,852,370	661,536	588,835
57801	LOSS ON DEFEASANCE	191,657	111,138	-
57903	INTEREST EXPENSE-2015 SERIES A	1,190,291	95,850	95,758
57904	INTEREST EXPENSE-2014 SERIES B	1,296,267	-	-
57905	INTEREST EXPENSE-2013 SERIES C	1,221,871	351,928	268,887
57906	INTEREST EXPENSE-2013 SERIES A	2,091,100	-	-
57907	INTEREST EXPENSE-2008 SERIES A	1,126,558	1,321,096	1,318,699
57912	INTEREST EXPENSE SRF	7,506,485	7,189,398	6,504,193
57917	INTEREST EXPENSE-2020 SERIES A	1,585,959	4,645,916	4,688,548
57921	INTEREST EXPENSE WIFIA 1	-	353,550	1,441,802
57922	INTEREST EXPENSE WIFIA 2	-	6,624	124,777
57950	INTEREST EXPENSE ON LEASES	-	-	8,117
59000	SALARY REIMBURSEMENT	(1,453,494)	(1,523,097)	(1,705,910)
59001	FRINGE REIMBURSEMENT	(771,505)	(819,980)	(925,478)
		<u>74,774,311</u>	<u>72,252,474</u>	<u>80,208,874</u>
	Change in Net Position	<u>\$ 32,156,594</u>	<u>\$ 32,664,013</u>	<u>\$ 27,697,836</u>

Agrees to Audited Financial Statements

**Narragansett Bay Commission**  
**Test Year Revenue by Source**  
**Schedule 3**

Revenue Item Description	Test Year Rates (Eff. 7/1/19)	Test Year Rates (Eff. 5/1/22)	Test Year Composite Rate	Billable Test Year Units	Test Year Revenues <sup>(1)</sup>	Annualized Test Year Rate	Adjusted Test Year Revenues	Test Year Adjustment	Adj. #
<b>User Fee Revenues</b>									
<u>Residential</u>									
Customer Charges	\$ 237.41	\$ 238.74	\$ 237.52	121,030	\$ 28,747,077	\$ 238.74	\$ 28,894,734	\$ 147,657	(1)
Residential Wells	539	542	540	328	177,018	542	177,927	909	(1)
Residential Flats					28,924,095		29,072,661	148,566	(1)
Consumption Charges	4	4	4	8,080,205	30,801,743	4	30,955,265	153,522	(1)
<b>Total Residential</b>					<b>59,725,838</b>		<b>60,027,926</b>	<b>302,088</b>	
<u>Non-Residential</u>									
Commercial and Industrial Customer Charges									
5/8"	563	566	563	3,500	1,970,781	566	1,981,282	10,501	
3/4"	845	849	845	1,019	860,733	849	864,807	4,074	
1"	1,408	1,415	1,409	1,283	1,808,409	1,415	1,816,110	7,701	
1 1/2"	2,815	2,831	2,816	839	2,362,624	2,831	2,375,209	12,585	
2"	4,504	4,529	4,506	1,224	5,513,156	4,529	5,541,297	28,141	
3"	8,445	8,492	8,449	87	736,522	8,492	740,270	3,748	
4"	14,075	14,154	14,082	35	491,462	14,154	493,975	2,513	
6"	28,150	28,308	28,163	34	963,733	28,308	968,695	4,962	
8"	45,040	45,292	45,061	12	539,380	45,292	542,145	2,765	
10"	64,745	65,108	64,775	1	64,556	65,108	64,888	332	
<b>Subtotal Customer Charges</b>					<b>15,311,355</b>		<b>15,388,678</b>	<b>77,323</b>	(1)
Commercial Consumption Charges	\$ 5.722	\$ 5.754	\$ 5.725	4,373,066	25,035,800	6	25,162,622	126,822	(1)
Industrial Consumption Charges	\$ 3.749	\$ 3.770	\$ 3.751	568,219	2,131,389	4	2,142,186	10,797	(1)
<b>Total Non-Residential</b>					<b>42,478,544</b>		<b>42,693,486</b>	<b>214,942</b>	
<b>Total User Fee Revenues</b>					<b>102,204,382</b>		<b>102,721,412</b>	<b>517,030</b>	

<sup>(1)</sup> Test Year Residential Consumption Revenue increased for Bad Debt Allowance

<b>Non-User Fee Revenues</b>		
Pretreatment Application Fees	61,280	61,280
Connection Permit Fees	43,850	43,850
Capacity Charge Fees	225,810	225,810
Real Estate Closing Fee	165,390	165,390
Abatement Application Fee	3,710	3,710
Sewer Tie-in Revenue	2,384,273	-
Return Check Fee Revenue	21,685	21,685
Stormwater Permit Application Fee	-	-
REC Income FP Turbines	177,744	177,744
REC Income WED Wind	208,296	238,596
REC Income WED Solar	261,668	261,668
REC Income Biogas Electric	440	440
Septage Income	372,346	372,346
Interest Income Revenue	643	643
Interest Income EEF	35	-
Interest Income Restricted	21,798	-
Interest Income O & M	510	510
Interest Income Operating Capital	2,539	-
Interest Income Grant / Capital Reimb	15,705	-
Interest Income Revbond Serices C	5,664	-
Interest Income Debt Service Payment	39,827	-
Interest Income Debt Service Redemption	2	-
Interest Income Stabilization	35,499	-
Interest Income 2008 Debt Service Payment	1,756	-
Interest Income Operating Reserve for Revenue Stability	8,603	-
Interest Income 2020 Series B	231	-
Interest Income 2020 Series C	16	-
Late Charge Revenue	358,415	860,196
Discounts Earned	3,564	3,564
Miscellaneous Income	288,437	64,527
Rental Revenue	54,500	12,000
Gain on Sale of Asset	10,241	-
Contributed Capital	1,000,000	-
Other Revenue	5,774,477	2,513,959
<b>Total Revenues</b>	<b>107,978,859</b>	

**Narragansett Bay Commission**  
**Development of Rate Year Billable Flat Units**  
**Schedule 4**

	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2022 Adj.</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>Equivalent</b>	<b>Equivalent</b>
	<b>Actual</b>	<b>Actual</b>	<b>Test Year</b>	<b>Test Year</b>	<b>Interim Year</b>	<b>Rate Year</b>	<b>Ratio</b>	<b>Accounts</b>
<b>Billable Customers</b>								
<u>Residential Dwelling Units</u>	119,666	120,426	121,030	121,030	121,490	121,952		
<i>Subtotal: Residential Dwelling Units</i>	<b>119,666</b>	<b>120,426</b>	<b>121,030</b>	<b>121,030</b>	<b>121,490</b>	<b>121,952</b>		
<i>Change</i>		0.6%	0.5%	0.0%	0.4%	0.4%		
<u>Residential Well Customers</u>	301	325	328	328	338	348		
<i>Subtotal: Residential Well Customers</i>	<b>301</b>	<b>325</b>	<b>328</b>	<b>328</b>	<b>338</b>	<b>348</b>		
<i>Change</i>		8.0%	0.9%	0.0%	3.0%	3.0%		
<u>Commercial/Industrial Meters</u>								
5/8"	3,539	3,536	3,500	3,500	3,499	3,498	1.00	3,498
3/4"	1,028	1,029	1,019	1,019	1,018	1,018	1.50	1,522
1"	1,248	1,257	1,283	1,283	1,283	1,283	2.49	3,189
1 1/2"	844	845	839	839	839	839	4.98	4,182
2"	1,220	1,233	1,224	1,224	1,223	1,223	7.96	9,737
3"	84	87	87	87	87	87	14.92	1,298
4"	34	35	35	35	35	35	24.86	870
6"	36	35	34	34	34	34	49.73	1,691
8"	12	12	12	12	12	12	79.57	955
10"	1	1	1	1	1	1	114.39	114
<i>Total - Commercial/Industrial Meters</i>	<b>8,046</b>	<b>8,070</b>	<b>8,034</b>	<b>8,034</b>	<b>8,031</b>	<b>8,030</b>		<b>27,056</b>
<i>Change</i>		0.3%	-0.4%	0.0%	0.0%	0.0%		
<u>Commercial Meters</u>								
5/8"	3,480	3,479	3,444	3,444	3,443	3,442	1.00	3,442
3/4"	1,001	1,003	993	993	992	992	1.50	1,483
1"	1,205	1,213	1,236	1,236	1,236	1,236	2.49	3,072
1 1/2"	817	818	814	814	814	814	4.98	4,058
2"	1,143	1,156	1,147	1,147	1,146	1,146	7.96	9,124
3"	83	86	86	86	86	86	14.92	1,283
4"	32	33	33	33	33	33	24.86	820
6"	34	33	32	32	32	32	49.73	1,591
8"	10	10	10	10	10	10	79.57	796
10"	1	1	1	1	1	1	114.39	114
<i>Subtotal: Commercial Meters</i>	<b>7,806</b>	<b>7,832</b>	<b>7,796</b>	<b>7,796</b>	<b>7,793</b>	<b>7,792</b>		<b>25,783</b>
<i>Change</i>		0.3%	-0.5%	0.0%	-0.04%	-0.01%		
<u>Industrial Meters</u>								
5/8"	59	57	56	56	56	56	1.00	56
3/4"	27	26	26	26	26	26	1.50	39
1"	43	44	47	47	47	47	2.49	117
1 1/2"	27	27	25	25	25	25	4.98	125
2"	77	77	77	77	77	77	7.96	613
3"	1	1	1	1	1	1	14.92	15
4"	2	2	2	2	2	2	24.86	50
6"	2	2	2	2	2	2	49.73	99
8"	2	2	2	2	2	2	79.57	159
10"	-	-	-	-	-	-	114.39	-
<i>Subtotal: Industrial Meters</i>	<b>240</b>	<b>238</b>	<b>238</b>	<b>238</b>	<b>238</b>	<b>238</b>		<b>1,273</b>
<i>Change</i>		-0.8%	0.2%	0.0%	0.0%	0.0%		
<b>Total: Billable Customers</b>	<b>128,013</b>	<b>128,821</b>	<b>129,392</b>	<b>129,392</b>	<b>129,859</b>	<b>130,330</b>		<b>81,168</b>
<i>Change</i>		0.6%	0.4%	0.0%	0.4%	0.4%		

**Narragansett Bay Commission**  
**Development of Rate Year Billable Consumption**  
**Schedule 5**

	FY 2018 Actual	FY 2019 Actual	FY 2020 Actual	FY 2021 Actual*	FY 2022 Actual	FY 2022 Adj. Test Year	FY 2023 Estimate	FY 2024 Rate Year	Docket 4890	Docket 4890 vs. Adj. Test Year
<b>Customer Usage (Hcf)</b>										
Residential	8,233,501	8,199,972	8,110,082	8,710,408	8,080,205	8,080,205	8,029,789	7,979,687	8,153,259	(73,054)
Change		-0.4%	-1.1%	7.4%	-0.4%	0.0%	-0.6%	-0.6%		-0.9%
Commercial	4,694,089	4,750,934	4,267,362	4,141,550	4,373,066	4,373,066	4,278,456	4,185,893	4,678,683	(305,617)
Change		1.2%	-10.2%	-2.9%	2.5%	0.0%	-2.2%	-2.2%		-6.5%
Industrial	655,659	662,824	540,383	524,473	568,219	568,219	545,057	522,839	673,807	(105,588)
Change		1.1%	-18.5%	-2.9%	5.2%	0.0%	-4.1%	-4.1%		-15.7%
<b>Total: Customer Usage (Hcf)</b>	<b><u>13,583,249</u></b>	<b><u>13,613,730</u></b>	<b><u>12,917,827</u></b>	<b><u>13,376,431</u></b>	<b><u>13,021,490</u></b>	<b><u>13,021,490</u></b>	<b><u>12,853,302</u></b>	<b><u>12,688,419</u></b>	<b><u>13,505,749</u></b>	<b><u>(484,259)</u></b>
Change		0.2%	-5.1%	3.6%	0.8%	0.0%	-1.3%	-1.3%		-3.6%
				COVID Impact						

\*Omitting change from FY 2020 to FY 2021 in rate year adjustments due to COVID impact

**Narragansett Bay Commission**  
**Rate Year Revenue by Source**  
**Schedule 6**

Revenue Item Description	Test Year Rates (Eff. 7/1/19)	Test Year Rates (Eff. 05/01/22)	Test Year Composite Rate	Test Year Units	Test Year Revenues <sup>(1)</sup>	Annualized Test Year Rate	Adjusted Test Year Revenues	Rate Year Units	Rate Year Revenue at Adjusted TY Rates	Rate Year Adjustment
<b>User Fee Revenues</b>										
<u>Residential</u>										
Customer Charges	\$ 237.41	\$ 238.74	\$ 237.52	121,030	\$ 28,747,077	\$ 238.74	\$ 28,894,734	121,952	\$ 29,114,820	\$ 230,936
Residential Wells	539	542	540	328	177,018	542	177,927	348	188,776	
Consumption Charges	4	4	4	8,080,205	30,801,743	4	30,955,265	7,979,687	30,570,181	(385,084)
<b>Total Residential</b>					<u>59,725,838</u>		<u>60,027,926</u>		<u>59,873,777</u>	
<sup>(1)</sup> Test Year Residential Consumption Revenue increased for Bad Debt Allowance										
<u>Non-Residential</u>										
Commercial and Industrial Customer Charges										
5/8"	563	566	563	3,500	1,970,781	566	1,981,282	3,498	1,980,150	(1,132)
3/4"	845	849	845	1,019	860,733	849	864,807	1,018	864,282	(525)
1"	1,408	1,415	1,409	1,283	1,808,409	1,415	1,816,110	1,283	1,815,445	(665)
1 1/2"	2,815	2,831	2,816	839	2,362,624	2,831	2,375,209	839	2,375,209	-
2"	4,504	4,529	4,506	1,224	5,513,156	4,529	5,541,297	1,223	5,538,967	(2,330)
3"	8,445	8,492	8,449	87	736,522	8,492	740,270	87	738,804	(1,466)
4"	14,075	14,154	14,082	35	491,462	14,154	493,975	35	495,390	1,415
6"	28,150	28,308	28,163	34	963,733	28,308	968,695	34	962,472	(6,223)
8"	45,040	45,292	45,061	12	539,380	45,292	542,145	12	543,504	1,359
10"	64,745	65,108	64,775	1	64,556	65,108	64,888	1	65,108	220
<b>Subtotal Customer Charges</b>					<u>15,311,355</u>		<u>15,388,678</u>		<u>15,379,331</u>	<u>(9,347)</u>
Commercial Consumption Charges	6	6	6	4,373,066	25,035,800	6	25,162,622	4,185,893	24,085,628	(1,076,994)
Industrial Consumption Charges	4	4	4	568,219	2,131,389	4	2,142,186	522,839	1,971,103	(171,083)
<b>Total Non-Residential</b>					<u>42,478,544</u>		<u>42,693,486</u>		<u>41,436,063</u>	
<b>Total User Fee Revenues</b>					<u>\$ 102,204,382</u>		<u>\$ 102,721,412</u>		<u>\$ 101,309,840</u>	

**Narragansett Bay Commission**  
**Test Year Miscellaneous Revenue Adjustments**  
**Schedule 7**

Adjustment #		Test Year 6/30/2022	Test Year Adjustments	Adjusted TY FY 2022									
(2)	42596 Sewer Tie-in Revenue	\$ 2,384,273	\$ (2,384,273)	\$ -									
(3)	45101 Interest Income EEF	35	(35)	-									
(3)	53380 EEF	14,595	(14,595)	-									
(4)	45156 Interest Income Restricted	21,798	(21,798)	-									
(4)	45302 Interest Income Operating Capital	2,539	(2,539)	-									
(4)	45303 Interest Income Grant / Capital Reimb	15,705	(15,705)	-									
(4)	45309 Interest Income Revbond Series C	5,664	(5,664)	-									
(4)	45412 Interest Income Debt Service Payment	39,827	(39,827)	-									
(4)	45413 Interest Income Debt Service Redemption	2	(2)	-									
(4)	45414 Interest Income Stabilization	35,499	(35,499)	-									
(4)	45417 Interest Income 2008 Debt Service Payment	1,756	(1,756)	-									
(4)	45419 Interest Income Operating Reserve for Revenue Stability	8,603	(8,603)	-									
(4)	45423 Interest Income 2020 Series B	231	(231)	-									
(4)	45424 Interest Income 2020 Series C	16	(16)	-									
(5)	45500 Late Charge Revenue	358,415	501,781	860,196									
<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 50%;"></td> <td style="text-align: right;">February - June (5 months)</td> <td style="text-align: right;">\$ 358,415</td> </tr> <tr> <td></td> <td style="text-align: right;">Monthly Average</td> <td style="text-align: right;">71,683</td> </tr> <tr> <td></td> <td style="text-align: right;">Annualized</td> <td style="text-align: right;">\$ 860,196</td> </tr> </table>						February - June (5 months)	\$ 358,415		Monthly Average	71,683		Annualized	\$ 860,196
	February - June (5 months)	\$ 358,415											
	Monthly Average	71,683											
	Annualized	\$ 860,196											
(6)	49002 Miscellaneous Income Removal of National Grid High Voltage one-time Credit	288,437  (223,910)	(223,910)	64,527									
(7)	49003 Rental Revenue Only one lease remains at \$1,000/month	54,500	(42,500)	12,000									
(18)	54000 Telephone NBC added new service through Cox in Nov 2021. Also, NBC eliminated Tmobile and Eagle Wireless for GPS tracking. The Maintenance on the phone was paid in FY 2021 in the amount of \$49,947.80	277,960	48,176	326,136									
(18)	53640 Service Agreements No longer have Integration Partners (Avaya system) for telephone. All telephone is charged to 54000	345,399	(825)	344,574									
(19)	54339 UV Disinfection FY 2021 UV bulb delivery was delayed and paid in FY 2022	219,317	(86,806)	132,511									

**Narragansett Bay Commission**  
**GAAP to Rate Making Adjustments**  
**Schedule 8**

Adj. #	Account Number	Account Description	Test Year	Test Year Adjustment	Adjusted Test Year	Rate Year Adjustment	Rate Year
(8)	41100	Consumption Fee - Residential	\$ 30,730,826	\$ 70,917	\$ 30,801,743	\$ -	\$ 30,801,743
(8)	53200	Bad Debt Expense	-	70,917	70,917	-	70,917
(9)	49004	Gain on Sale of Asset	10,241	(10,241)	-	-	-
(9)	49005	Contributed Capital	1,000,000	(1,000,000)	-	-	-
(9)	57500	Depreciation	22,083,785	(22,083,785)	-	-	-
(9)	57015	Amortization Right to Use Leased Land	117,207	(117,207)	-	-	-
(9)	57016	Amortization of Asset Retirement Obligation	22,500	(22,500)	-	-	-
(10)	57800	Bond And Note Fees	588,835	(588,835)	-	-	-
(11)	Lease	Lease Payments	-	105,283	105,283	-	105,283
(12)	16515	Automotive Equipment Replacement	-	421,902.0	421,902.0	(421,902.0)	-
(12)	16520	Building and Plant Equipment	-	143,000	143,000	(143,000)	-
(12)	16525	Building and Plant Equipment Replacement	-	1,395,951	1,395,951	(1,395,951)	-
(12)	16550	Computer Equipment	-	353,368	353,368	(353,368)	-
(12)	16555	Computer Equipment Replacement	-	514,593	514,593	(514,593)	-
(12)	16570	Lab Equipment	-	554,761	554,761	(554,761)	-
(12)	16575	Lab and Sampling Equipment Replacement	-	322,206	322,206	(322,206)	-
(12)	16586	Office Furniture Equipment	-	57,893	57,893	(57,893)	-
(12)	16615	Building & Other Structure Replacement	-	99,185	99,185	(99,185)	-
		Total Operating Capital	-	3,862,859	3,862,859	(3,862,859)	-
(11)	PRIN	Principal	-	28,170,271	28,170,271	-	28,170,271
(13)	INT	Interest	14,442,664	(1,507,590)	12,935,074	-	12,935,074
(14)	Coverage	Debt Service Coverage	-	10,276,336	10,276,336	-	10,276,336



**Narragansett Bay Commission**  
**Test Year GAAP Retirement Adjustments**  
**Schedule 9**

<b>Adjustment #</b>	<b>Account #</b>	<b>Account Description</b>	<b>Test Year 6/30/2022</b>	<b>Test Year Adjustments</b>	<b>Adjusted TY FY 2022</b>
(15)	52800	Union Pension	\$ 886,877	\$ 906,175	\$ 1,793,052
(15)	52920	Non Union Pension	630,661	676,727	1,307,388
(15)	52940	Union Retirement Health	(49,901)	376,188	326,287

		<b>Salaries subject to Rate <sup>(1)</sup></b>	<b>Rate</b>	<b>Adjusted TY Pension Expense</b>
52100	Union - Regular	\$ 6,401,471	28.01%	\$ 1,793,052
52300, 52350	Non-Union Regular and OT	13,073,880	10.00%	1,307,388
52940	Union Retirement Health	6,179,675	5.28%	326,287

<sup>(1)</sup> Adjusted to include accrued

**Biosolids Disposal Test Year Adjustment  
Schedule 10**

<b>Adjustment #</b>	<b>Account</b>	<b>Description</b>	<b>Test Year 6/30/2022</b>	<b>Test Year Adjustments</b>	<b>Adjusted TY FY 2022</b>
(16)	53480	Biosolids Disposal	\$ 4,940,085	\$ 281,240	\$ 5,221,325
(16)	54090	Electricity	3,913,901	(116,447)	3,797,454

Additional Field's  
Point Dry Tons 557

Rate per Dry Ton 505  
281,240

Field's Point kWh	Additional kWh	\$/kWh	Additional Electricity Expense
July	80,439	0.1382	\$ 11,117
August	215,547	0.1382	29,789
Sept	176,466	0.1382	24,388
October	370,141	0.1382	51,153
	<u>842,593</u>		<u>\$ 116,447</u>

**Narragansett Bay Commission  
Net Metering Credit (54091)  
Schedule 11**

Adjustment #	Test Year	Test Year Adjustment	Adjusted Test Year
(17)	\$ (1,189,892)	\$ (215,195)	\$ (1,405,087)

NMC Rate **\$ 0.174**

	kWh				Adjusted TY kWh	Adjusted TY NMC \$
	FY 2020	FY 2021	FY 2022	Adjustment		
Green - Coventry						
July	463,940	383,884	470,352		470,352	
August	407,112	364,080	321,936		321,936	
September	476,376	457,296	506,312		506,312	
October	795,168	743,352	444,720		444,720	
November	702,408	672,668	591,864		591,864	
December	1,119,940	978,448	937,808		937,808	
January	782,048	818,980	722,376		722,376	
February	609,976	943,704	428,600	278,054	706,654	48,381
March	930,400	1,069,812	645,620	418,846	1,064,466	72,879
April	1,075,164	732,956	538,696	349,479	888,175	60,809
May	1,009,560	831,368	625,640	190,373	816,013	33,125
June	571,808	661,820	498,188		498,188	-
	<u>8,943,900</u>	<u>8,658,368</u>	<u>6,732,112</u>	<u>1,236,753</u>	<u>7,968,865</u>	<u>\$ 215,195</u>

**Narragansett Bay Commission  
Renewable Energy Credit (WED Wind 42605)  
Schedule 12**

Adjustment #	Test Year	Test Year Adjustment	Adjusted Test Year
(20)	\$ 208,296	\$ 30,300	\$ 238,596

Test Year Price Per REC                      \$      24.50

	kWh				Adjusted TY	Adjusted
	FY 2020	FY 2021	FY 2022	Adjustment	kWh	REC \$
Green - Coventry						
July	463,940	383,884	470,352		470,352	
August	407,112	364,080	321,936		321,936	
September	476,376	457,296	506,312		506,312	
October	795,168	743,352	444,720		444,720	
November	702,408	672,668	591,864		591,864	
December	1,119,940	978,448	937,808		937,808	
January	782,048	818,980	722,376		722,376	
February	609,976	943,704	428,600	278,054	706,654	6,812
March	930,400	1,069,812	645,620	418,846	1,064,466	10,262
April	1,075,164	732,956	538,696	349,479	888,175	8,562
May	1,009,560	831,368	625,640	190,373	816,013	4,664
June	571,808	661,820	498,188		498,188	
	<u>8,943,900</u>	<u>8,658,368</u>	<u>6,732,112</u>	<u>1,236,753</u>	<u>7,968,865</u>	<u>\$ 30,300</u>

**Narragansett Bay Commission**  
**Calculation of Stormwater Permit Application Fees & Revenue**  
**Schedule 13**

<b>Title Abbreviation</b>	<b>Title</b>	<b>Average Hourly Rate</b>
APC	Assistant Permits Coordinator	\$ 25.00
SPC	Sr. Permits Coordinator	36.00
PM	Planning Manager	40.00
AA	Accounting Assistant	33.00
DOM	Director of Operations & Maintenance	84.00
	Overhead Rate	55%

**Calculation of Stormwater Permit Application Fees & Revenue**

<b>Task Description</b>	<b>Minutes</b>	<b>Staff</b>	<b>Rate</b>	<b>Cost</b>
Review permit	120	SPC	\$ 36.00	\$ 72.00
In person review (in addition to #1)	60	SPC	36.00	36.00
Scan plans and prepare GIS, google maps	60	SPC	36.00	36.00
Complete permit input in permit program	60	SPC	36.00	36.00
Initial review by Engineer	135	PM	40.00	90.00
Prepare permit	90	SPC	36.00	54.00
Enter invoice/check into Oracle	15	AA	33.00	8.25
Accounting processes check	20	AA	33.00	10.73
Review by Planning Manager	60	PM	40.00	40.00
Prepare label, scan file info, mail/email applicant	60	APC	25.00	24.95
Follow up with applicant's engineer re: certificate/letter	30	SPC	36.00	18.00
Prepare response letter	30	SPC	36.00	18.00
Review and signature of Director	15	DOM	84.00	21.00
Scan file info, mail/email applicant, other admin tasks	30	APC	25.00	12.50
				477.42
			NBC Overhead (\$32 x 55% overhead rate)	262.58
				<b>\$ 740.00</b>

<b>Annual Permits Processed</b>	
FY 2020	43
FY 2021	39
FY 2022	37
Last three year average	<b>40</b>

Projected Rate Year Revenue	\$ 29,353
Adjusted Test Year Revenue	-
<b>Rate Year Adjustment</b>	<b>\$ 29,353</b>

**Narragansett Bay Commission**  
**Renewable Energy Credit Revenue (42604, 42605, 42606)**  
**Schedule 14**

**REC Income FP Turbines (42604)**

<b>FY 2024</b>	
<b>Rate Year</b>	
kWh Produced	<u>7,403,433</u>
REC Rate/kWh	<u>\$ 22.65</u>
	<u>167,688</u>
Rate Year	167,688
Adjusted Test Year	<u>177,744</u>
Rate Year Adjustment	<u>\$ (10,056)</u>

**REC Income Coventry (42605)**

<b>FY 2024</b>	
<b>Rate Year</b>	
kWh Produced	<u>7,968,865</u>
REC Rate/kWh	<u>\$ 22.65</u>
	<u>180,495</u>
Rate Year	180,495
Adjusted Test Year	<u>238,596</u>
Rate Year Adjustment	<u>\$ (58,101)</u>

**REC Income PPA (42606)**

<b>FY 2024</b>	
<b>Rate Year</b>	
kWh Produced	<u>13,917,693</u>
REC Rate/kWh	<u>\$ 22.65</u>
	<u>315,236</u>
Rate Year	315,236
Adjusted Test Year	<u>261,668</u>
Rate Year Adjustment	<u>\$ 53,568</u>

**Interest Income (45100, 45200)**

**Schedule 15**

<b>Account #</b>	<b>Account Description</b>	<b>Adjusted Test Year</b>	<b>Rate Year</b>	<b>Rate Year Adjustment</b>
45100	Interest Income Revenue	\$ 643	\$ 196,200	\$ 195,557
45200	Interest Income O & M	510	250,944	250,434

FY 2023 Average Monthly Investment Earnings

	YTD:	12 months
Revenue	\$ 16,350	\$ 196,200.0
O&M	20,912	250,944

**Narragansett Bay Commission  
Rate Year Personnel Adjustment  
Schedule 16**

**ASSUMPTIONS**

Union Steps 7/1/22	1.645% (Average 2.35% with 70% Eligible)
Union Steps 7/1/23	1.645% (Average 2.35% with 70% Eligible)
Union COLA 7/1/22	2.50%
Union COLA 7/1/23	2.50%
Non-Union Merits 7/1/22	2.50%
Non-Union Merits 7/1/23	5.00%

	Union Salary Account 52100	Non-Union Regular Account 52300	Union Overtime Account 52150	Non-Union Overtime Account 52350	Non-Union Limited Account 52400	Total	Salary Reimbursement Account 59000	Fringe Reimbursement Account 59001
Adjusted Test Year FY 2022	\$ 6,356,106	\$ 11,711,353	\$ 674,868	\$ 246,531	\$ 30,073	\$ 19,018,931	\$ (1,705,911)	\$ (925,478)
7/1/22 Contracted Steps	1.645%	0.0%	1.645%	0.0%	0.0%		0.0%	0.0%
	104,558	-	11,102	-	-	115,660	-	-
Base Salary	6,460,664	11,711,353	685,970	246,531	30,073	19,134,591	(1,705,911)	(925,478)
7/1/22 COLA/Merit Percent	2.5%	2.5%	2.5%	2.5%	2.5%		2.5%	2.5%
7/1/22 COLA/Merit \$	161,517	292,784	17,149	6,163	752	478,365	(42,648)	(23,137)
7/1/22 Total Salaries	6,622,181	12,004,137	703,119	252,694	30,825	19,612,956	(1,748,559)	(948,615)
7/1/23 Contracted Steps	1.645%	0.0%	1.645%	0.0%	0.0%		0.0%	0.0%
	108,935	-	11,566	-	-	120,501	-	-
Base Salary	6,731,116	12,004,137	714,685	252,694	30,825	19,733,457	(1,748,559)	(948,615)
7/1/23 COLA/Merit Percent	2.5%	5.0%	2.5%	5.0%	5.0%		5.0%	5.0%
7/1/23 COLA/Merit \$	168,278	600,207	17,867	12,635	1,541	800,528	(87,428)	(47,431)
7/1/23 Total Salaries	6,899,394	12,604,344	732,552	265,329	32,366	20,533,985	(1,835,987)	(996,046)
<b>Rate Year</b>	<b>6,899,394</b>	<b>12,604,344</b>	<b>732,552</b>	<b>265,329</b>	<b>32,366</b>	<b>20,533,985</b>	<b>(1,835,987)</b>	<b>(996,046)</b>
<b>Rate Year Adjustment</b>	<b>\$ 543,288</b>	<b>\$ 892,991</b>	<b>\$ 57,684</b>	<b>\$ 18,798</b>	<b>\$ 2,293</b>		<b>\$ (130,076)</b>	<b>\$ (70,568)</b>

	FICA		
	Social Security	Medicare	Total
Rate Year Salaries	\$ 20,533,985	\$ 20,533,985	
Wages Over FICA Limit	(189,338)	-	
Wages Subject to FICA	20,344,647	20,533,985	
Percent	6.20%	1.45%	
Rate Year	\$ 1,261,368	\$ 297,743	1,559,111
Adjusted Test Year			1,376,801
<b>Rate Year Adjustment</b>			<b>\$ 182,310</b>

\$ 175,924 FY 2022 Over FICA  
 \$ 180,322 7/1/22 Merit Adjustment  
 \$ 189,338 7/1/23 Merit Adjustment

	Union Retirement Account 52800	Union Retiree Health Account 52940	Non-Union Retirement Account 52920
Salaries	\$ 6,899,394	\$ 6,899,394	\$ 12,604,344
Overtime	732,552	732,552	265,329
	7,606,315	7,606,315	12,594,848
Employer Contribution Rate	29.97%	4.52%	10%
Rate Year	2,279,613	343,805	1,259,485
Adjusted Test Year	1,793,052	326,287	1,307,388
<b>Rate Year Adjustment</b>	<b>\$ 486,561</b>	<b>\$ 17,518</b>	<b>\$ (47,903)</b>



**Narragansett Bay Commission  
Health Insurance - 52950**

**Schedule 17**

	<b>Health Insurance Account 52950</b>	<b>Annual Health Premium</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>Increase (decrease)</b>
Adjusted Test Year FY 2022	\$ 3,934,797	Family	\$ 21,796	\$ 23,851	\$ 24,857	\$ 23,494	
7/1/22 decrease	(4.60%)	Less: copay	(4,359)	(4,770)	(4,971)	(4,699)	
7/1/22 Health Premium Decrease	(181,001)	Plus: HSA	3,600.0	3,600.0	3,600.0	3,600.0	
7/1/22 Total Health Premium	3,753,796		<u>21,037.2</u>	<u>22,680.7</u>	<u>23,486.2</u>	<u>22,395.3</u>	-4.60%
7/1/23 Increase	5.80%	Single	8,220	8,972	9,340	8,598	
7/1/22 Health Premium Increase	217,720	Less: copay	(1,644)	(1,794)	(1,868)	(1,720)	
7/1/22 Total Health Premium	<u>3,971,516</u>	Plus: HSA	1,800	1,800	1,800	1,800	
			<u>\$ 8,376</u>	<u>\$ 8,978</u>	<u>\$ 9,272</u>	<u>\$ 8,678</u>	-2%
<b>Rate Year Adjustment</b>	<b>\$ 36,719</b>						
							Average Annual Increase FY 2020 to FY 2022 5.80%
							Average Annual Increase FY 2020 to FY 2023 3.20%

**PAYROLL BENEFIT RATES SCHEDULE**

	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	
<b>ANNUAL</b>					
DENTAL (single)	\$ 520.20	\$ 520.20	\$ 504.60	\$ 504.60	
DENTAL (family)	1,509.24	1,509.24	1,464.00	1,464.00	
HEALTH (single)	8,219.76	8,971.56	9,339.84	8,597.64	
HEALTH (family)	21,796.20	23,850.72	24,857.16	23,494.32	
VISION (single)	100.92	100.92	100.92	100.92	
VISION (family)	216.96	216.96	216.96	216.96	
<b>EMPLOYER</b>					<b>State of RI - Planning Values</b>
RETIREMENT HEALTH	6.65%	5.55%	5.28%	4.48%	4.52%
TOTAL UNION RETIREMENT	27.39%	28.54%	29.01%	29.01%	29.97%
UNION DB	26.39%	27.54%	28.01%	28.01%	28.97%
UNION DC (less than 10 years)	1.00%	1.00%	1.00%	1.00%	1.00%
UNION DC (10-15 years)	1.25%	1.25%	1.25%	1.25%	
UNION DC (15-20 years)	1.50%	1.50%	1.50%	1.50%	
<b>EMPLOYER</b>					
NON-UNION RETIREMENT	10.00%	10.00%	10.00%	10.00%	10.00%

**Narragansett Bay Commission**  
**Postage - 53210**  
**Schedule 18**

Fiscal Year	Actual	Rate Year
FY 2020	\$ 363,079	
FY 2021	356,744	
FY 2022	402,181	
Average Annual Postage Increase	6.1%	
Interim Year	426,714	
Projected Rate Year	\$ 452,744	
Adjusted Test Year	<u>402,181</u>	
<b>Rate Year Adjustment</b>	<b>\$ <u>50,563</u></b>	

**Narragansett Bay Commission  
 Printing and Binding - 53310  
 Schedule 19**

Fiscal Year	Actual	Rate Year
FY 2020	\$ 130,546	
FY 2021	125,066	
FY 2022	124,720	
Current Pricing for Monthly Customer Envelopes	38,083	
Projected Rate Year Pricing for Customer Envelopes	71,479	
		\$ 158,116
		124,720
		<u>33,396</u>
		<u><u>\$ 33,396</u></u>

**Narragansett Bay Commission**  
**UV Disinfection - 54339**  
**Schedule 20**

Fiscal Year	Actual	Rate Year
FY 2021 Adjusted	\$ 114,540	
FY 2022 Adjusted	132,511	
FY 2023 Actual Interim Year	150,874	
Average Annual Increase	14.8%	
Projected Rate Year	\$ 173,163	
Adjusted Test Year	<u>132,511</u>	
<b>Rate Year Adjustment</b>	<b>\$ <u><u>40,652</u></u></b>	

**Narragansett Bay Commission  
Trend Accounts  
Schedule 21**

Account Number	Account Description	FY 2020	FY 2021	Adjusted Test Year FY 2022	Average Annual Increase	Projected FY 2023	Rate Year FY 2024	Rate Year Adjustment
53510	VEHICLE FUEL AND MAINTENANCE	\$ 135,767	\$ 206,009	\$ 246,131	41.0%	\$ 347,045	\$ 489,333	\$ 243,202
53610	REPAIRS-BUILDING AND STRUCTURES	760,300	450,143	309,812		350,088	395,599	85,787
53615	REPAIRS-PROCESS EQUIPMENT	-	517,626	647,865		732,087	827,258	179,393
	Total Repairs	760,300	967,769	957,677	13.0%	1,082,175	1,222,857	265,180
53640	SERVICE AGREEMENTS	239,455	184,018	345,399	22.0%	421,387	514,092	168,693
53630	MAINTENANCE CONTRACTS	1,290,609	1,433,464	655,157		720,673	792,740	137,583
53645	SOFTWARE SUBSCRIPTION	-	-	889,671		978,638	1,076,502	186,831
	Total Maintenance Con. & Software Sub.	1,290,609	1,433,464	1,544,828	10.0%	1,699,311	1,869,242	324,414
54340	LAB, MEDICAL SUPPLIES	347,808	398,564	458,017	28%	586,262	750,415	292,398
54370	SUPPLIES BLDG & MAINT	393,769	454,136	538,894	18%	635,895	750,356	211,462

**Narragansett Bay Commission**  
**Average Accounts**  
**Schedule 22**

<b>Account Number</b>	<b>Account Description</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>Adjusted Test Year FY 2022</b>	<b>3 Year Average</b>	<b>Rate Year Adjustments</b>	<b>Rate Year FY 2024</b>
42595	CAPACITY CHARGE FEES	\$ 285,296	\$ 311,325	\$ 225,810	\$ 274,144	\$ 48,334	\$ 274,144
43500	SEPTAGE INCOME	342,994	352,135	372,346	355,825	(16,521)	355,825
53470	BLDG AND GROUND MAINT	191,618	259,188	244,840	231,882	(12,958)	231,882

**Narragansett Bay Commission  
Regulatory Expense (52600)  
Schedule 23**

	Actual	Rate Year	Assessment					
			Year	Preliminary	General	Total	% Change	
Adjusted Test Year	\$ 547,951							
Less: Amount for PUC Annual Assessment	<u>(529,067)</u>							
Net Regulatory Rate Year		18,884	FY 2019	\$ 100,000	\$ 386,201	\$ 486,201		
			FY 2020	100,000	361,639	461,639		-5.1%
			FY 2021	100,000	363,406	463,406		0.4%
PUC Annual Assessment	529,067		FY 2022	125,000	404,067	529,067		14.2%
Interim Year Adjustment	38,495		FY 2023	100,000		100,000		
Rate Year Adjustment	41,296					Average Increase		7.3%
Rate Case Expense	50,000							
Projected Rate Year		677,742	<b>52600 Regulatory</b>					
			FY 2020	\$ 499,790				
Adjusted Test Year	<u>547,951</u>		FY 2021	498,496	-0.26%			
			FY 2022	547,951	9.92%			
Rate Year Adjustment	<u>\$ 129,791</u>			Average Increase	4.83%			

**Narragansett Bay Commission  
Biosolids Disposal - 53480  
Schedule 24**

CPI Projection				
November	CPI	Increase	Percent Change	
2019	282.162			
2020	283.092	0.93	0.33%	
2021	300.030	16.94	5.98%	319.032
2022	322.832	22.80	7.60%	19.002    22.8024
2023			7.00%	<u>322.832</u>

Projected Disposal Rate				
Contract Period	Base Rate	CPI Adjustment	Change of Law	Total Rate/Dry Ton
Jan 2022 - Dec 2022	\$ 508.79		\$ 24.86	\$ 533.65
Jan 2023 - Dec 2023	574.36	7.6%	24.86	599.22
Jan 2024 - Dec 2024	623.12	7.0%	24.86	647.98

Biosolids Dry Tons Production				
	FY 2020	FY 2021	FY 2022 <sup>(1)</sup>	Rate Year
Bucklin Point	2,241	2,048	2,072	2,120
Field's Point	7,985	7,638	8,007	7,877
<b>Total</b>	<u>10,226</u>	<u>9,686</u>	<u>10,079</u>	<u>9,997</u>

Rate Year Biosolids Expense Account 53480			
	Dry Tons	Rate	Total Rate Year
Composite Rate	9,997	\$ 624.58	6,243,887
Adjusted Test Year			<u>5,221,325</u>
<b>Rate Year Adjustment</b>			<u>\$ 1,022,562</u>

	Base	COL	Total
CY 2019	\$ 470.44	\$ 24.86	\$ 495.30
CY 2020	478.50	24.86	503.36
CY 2021	480.06	24.86	504.92
CY 2022	508.79	24.86	533.65

(1) Adjusted for Synagro



**Narragansett Bay Commission  
Screening and Grit - 53490  
Schedule 25**

Account Number	Account Description	FY 2020	FY 2021	Adjusted Test Year FY 2022	Average Annual Increase	Actual/Projected FY 2023	Rate Year FY 2024	Rate Year Adjustment
53490	Screening & Grit Disposal	<u>\$ 207,447</u>	<u>\$ 205,820</u>	<u>\$ 247,688</u>	<u>10%</u>	<u>\$ 277,350</u>	<u>\$ 333,431</u>	<u>\$ 85,743</u>
	Rate per Ton	140	140	150	0	150	161	
	Tons	1,482	1,470	1,651	12%	1,849	2,071	

**Narragansett Bay Commission  
Insurance - 53660  
Schedule 26**

Fiscal Year	Actual	Rate Year
FY 2020	\$ 750,118	
FY 2021	830,525	
FY 2022	1,024,072	
Average Annual Increase	18.0%	
FY 2023 Projected	1,009,443.0	
Projected Rate Year		\$ 1,191,143
Adjusted Test Year		<u>1,024,072</u>
<b>Rate Year Adjustment</b>		<b><u><u>\$ 167,071</u></u></b>

**Narragansett Bay Commission  
Workers Compensation Insurance - 53680**

**Schedule 27**

Fiscal Year	Actual	Rate Year
FY 2021	449,084	
FY 2022	443,397	
FY 2023 Interim Year	422,405	
Average Annual Increase	(2.9%)	
Projected Rate Year		\$ 431,318
Adjusted Test Year		<u>443,397</u>
<b>Rate Year Adjustment</b>		<b><u><u>\$ (12,079)</u></u></b>

**Narragansett Bay Commission  
Electricity - 54090  
Schedule 28**

Computation of Rate Year Electricity Rate				
Rate Assumptions	Field's Point	Bucklin Point	IM	COB /WQSB
Monthly Customer Charge	\$ 1,368	\$ 1,368	\$ 1,659	\$ 1,368
Projected Supply (7/1/23-6/30/2024)	0.16060	0.16060	0.16060	0.16060
Prior Fiscal Year Average Delivery per kwh	0.08695	0.07742	0.12876	0.07742
Rhode Island Gross Earnings Tax (RIGET)	0.04167	0.04167	0.04167	0.04167

Computation of Rate Year Electricity Purchases - kWh					
FY 2024 Rate Year KWh Purchases	Field's Point	Bucklin Point	IM	COB /WQSB	Total Purchased
Three-Year Average kWh	<b>11,756,306</b>	<b>12,067,995</b>	<b>1,163,755</b>	<b>1,907,583</b>	<b>26,895,639</b>

Computation of Rate Year Electricity Expense					
FY 2024 Rate Year Expense	Field's Point	Bucklin Point	IM	COB /WQSB	Total
<b>Customer Charge</b>	\$ 16,415	\$ 16,415	\$ 19,905	\$ 16,415	\$ 69,150
<b>Supply</b>	1,888,063	1,938,120	186,899	306,358	4,319,440
<b>Delivery</b>	1,022,185	934,349	149,846	147,692	2,254,072
<i>Subtotal</i>	<u>2,926,663</u>	<u>2,888,884</u>	<u>356,650</u>	<u>470,465</u>	<u>6,642,662</u>
Rhode Island Gross Earnings Tax	121,942	120,368	14,860	19,602	276,773
<b>with RIGET</b>	<u><b>\$ 3,048,605</b></u>	<u><b>\$ 3,009,252</b></u>	<u><b>\$ 371,510</b></u>	<u><b>\$ 490,067</b></u>	<u><b>\$ 6,919,434</b></u>

Projected Rate Year 6,919,434

Adjusted Test Year 3,797,454

**Rate Year Adjustment** \$ 3,121,980

**Narragansett Bay Commission**  
**Net Metering Credits - 54091 and 54096 WED PPA - 54095**  
**Schedule 29**

<b>NBC Owned Net Metering Facilities 54091</b>	
<b>Remote Net Metering Facilities</b>	
	FY 2024 Rate Year
kWh Produced	7,968,865
NMC Rate	\$ 0.27208
NMC Earned	\$ 2,168,169
Rate Year	(2,168,169)
Adjusted Test Year	(1,405,087)
<b>Rate Year Adjustment</b>	<b>(763,082)</b>

<b>Green PPA Net Metering Facilities 54096</b>	
<b>Remote Net Metering Facilities</b>	
	FY 2024 Rate Year
kWh Produced	13,917,693
NMC Rate	\$ 0.27208
NMC Earned	\$ 3,786,726
Rate Year	(3,786,726)
Adjusted Test Year	(2,024,964)
<b>Rate Year Adjustment</b>	<b>(1,761,762)</b>

<b>Green PPA 54095</b>	
<b>Remote Net Metering Facilities</b>	
	FY 2024 Rate Year
75% of Green PPA Net Metering Credits	\$ 2,840,045
Rate Year	2,840,045
Adjusted Test Year	1,518,723
<b>Rate Year Adjustment</b>	<b>1,321,322</b>

**Narragansett Bay Commission**  
**Natural Gas - 54060**  
**Schedule 30**

Facility	Average				Gross Earnings			Total Rate Year
	Therms	Delivery/therm	Delivery	Supply/Therm <sup>(1)</sup>	Supply	Subtotal	Tax	
Biogas Facility	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bucklin Point	122,708	0.5659	69,440	1	68,434	137,874	4,264	142,138
COB/WQSB /LAB	68,632	0.5104	35,030	1	39,477	74,507	2,304	76,811
Field's Point	150,574	0.5576	83,960	1	82,289	166,249	5,142	171,391
IM	<u>12,232</u>	0.9161	<u>11,206</u>	1	<u>7,027</u>	<u>18,233</u>	<u>564</u>	<u>18,797</u>
	354,146		199,636		197,227	396,863	12,274	409,137
							Adjusted Test Year	414,334
							Rate Year Adjustment	<u>(5,197)</u>
							<b>Rate Year</b>	<b><u>\$ 409,137</u></b>

**Narragansett Bay Commission  
Chemicals Accounts-Expense  
Schedule 31**

Account Number	Chemical	Adjusted Test Year	Rate Year	Rate Year Adjustment
54332	Chemicals, Chlorine/Hypochlorite	\$ 516,561	\$ 575,912	59,351
54337	Chemicals, Bisulfite	376,589	393,229	16,640
		<u>\$ 893,150</u>	<u>\$ 969,141</u>	<u>\$ 75,991</u>

**Chemical Accounts-Usage**

Account Number	Chemical	Adjusted Test Year	Rate Year	Rate Year Adjustment
54332	Chemicals, Chlorine/Hypochlorite (Gallons)	620,214	700,704	32,893
54337	Chemicals, Bisulfite (Gallons)	284,338	301,090	6,880

Account Number	Chemical	FY 2020	FY 2021	FY 2022	Average Rate Increase	Rate per Gallon	Rate Year Usage	Rate Year Expense
54332	Chemicals, Chlorine/Hypochlorite	\$ 418,224	\$ 427,327	\$ 516,561	32,893	\$ 0.8219	700,704	\$ 575,912
	Gallons	607,002	620,214	667,811				
	<i>Annual Increase/Decrease</i>		2%	8%	4.9%			
	Rate	0.6890	0.6890	0.7741	0.0478			
	<i>Annual Increase/Decrease</i>		0%	12%	6.2%			
54337	Chemicals, Bisulfite	\$ 349,735	\$ 318,658	\$ 376,589	6,880	\$ 1.3060	301,090	\$ 393,229
	Gallons	284,338	259,073	294,210				
	<i>Annual Increase/Decrease</i>		-9%	14%	2.3%			
	Rate	1.2300	1.2300	1.2800	0.0260			
	<i>Annual Increase/Decrease</i>		0%	4%	2.0%			

**Narragansett Bay Commission**  
**Other Services - 52690**  
**Schedule 32**

	Actual	Rate Year
Adjusted Test Year	\$ 747,404	
Less: Amount for Electronic Payment Transaction Fees	(558,098)	
Net Other Services Rate Year		\$ 189,306
Electronic Payment Transaction Fees	558,098	
Interim Year Adjustment	146,007	
Rate Year Adjustment	184,204	
Electronic Payment Transaction Fees Rate Year		888,309
Total Other Services Rate Year		1,077,615
Adjusted Test Year		(747,404)
<b>Rate Year Adjustment</b>		<b>\$ 330,211</b>



**Narragansett Bay Commission**  
**Debt Service and Debt Service Coverage**  
**Schedule 33**

	Test Year	Test Year Adjustments	Adjusted Test Year	Rate Year Adjustment	Rate Year (Step 1) 6/30/24	Step 2 6/30/25	Step 3 6/30/26	Step 4 6/30/27	Step 5 6/30/28
Test Year (interest only)	\$ 14,442,664	(1,507,590)	\$ 12,935,074						
GAAP Adjustment Principal		28,170,271	28,170,271						
Total Debt	14,442,664	26,662,681	41,105,345	6,364,795	47,470,140	54,458,693	56,941,308	58,631,210	63,252,810
Debt Service Coverage	-	10,276,336	10,276,336	1,591,199	11,867,535	13,614,673	14,235,327	14,657,803	15,813,202
	14,442,664	36,939,017	51,381,681	7,955,994	59,337,675	68,073,366	71,176,635	73,289,013	79,066,012

Fiscal Year	Available for Debt Service	Current Debt Service	Debt Service Coverage	Planned RIIB Loan FY 23 - FY 25	Total Debt Service	Debt Service Coverage	Debt Service	
							Principal	Interest
2024	62,642,390	43,554,340	1.44	3,915,800	47,470,140	1.32	31,344,795	16,125,345
2025	62,642,390	42,942,893	1.46	11,515,800	54,458,693	1.15	31,190,162	23,268,531
2026	62,642,390	43,025,508	1.46	13,915,800	56,941,308	1.10	31,994,786	24,946,522
2027	62,642,390	42,436,910	1.48	16,194,300	58,631,210	1.07	34,423,178	24,208,032
2028	62,642,390	42,212,310	1.48	21,040,500	63,252,810	0.99	39,943,611	23,309,198
2029	62,642,390	42,110,283	1.49	22,191,400	64,301,683	0.97	42,218,378	22,083,305
2030	62,642,390	45,098,242	1.39	19,681,800	64,780,042	0.97	41,801,326	22,978,716
2031	62,642,390	45,096,196	1.39	18,735,100	63,831,296	0.98	41,912,943	21,918,353
2032	62,642,390	49,401,584	1.27	17,022,400	66,423,984	0.94	37,689,092	28,734,892
2033	62,642,390	47,192,364	1.33	18,241,300	65,433,664	0.96	37,663,979	27,769,684
2034	62,642,390	45,075,989	1.39	23,029,200	68,105,189	0.92	41,438,904	26,666,286
2035	62,642,390	46,828,180	1.34	20,247,400	67,075,580	0.93	41,579,538	25,496,043
2036	62,642,390	35,404,758	1.77	34,422,100	69,826,858	0.90	45,644,455	24,182,403
2037	62,642,390	35,408,033	1.77	33,343,400	68,751,433	0.91	46,074,734	22,676,698
2038	62,642,390	35,200,437	1.78	35,896,500	71,096,937	0.88	50,007,718	21,089,218
2039	62,642,390	34,736,574	1.80	35,734,900	70,471,474	0.89	51,064,540	19,406,934
2040	62,642,390	59,116,727	1.06	14,270,100	73,386,827	0.85	55,414,265	17,972,563
2041	62,642,390	57,851,922	1.08	14,368,000	72,219,922	0.87	55,390,410	16,829,512
2042	62,642,390	60,557,827	1.03	14,666,100	75,223,927	0.83	59,580,883	15,643,044
2043	62,642,390	59,395,990	1.05	14,616,600	74,012,590	0.85	59,605,801	14,406,790
2044	62,642,390	61,750,046	1.01	13,473,200	75,223,246	0.83	62,068,440	13,154,806
2045	62,642,390	60,726,996	1.03	14,494,500	75,221,496	0.83	63,293,152	11,928,344
2046	62,642,390	63,717,172	0.98	11,507,700	75,224,872	0.83	64,439,561	10,785,311
2047	62,642,390	13,668,653	4.58	35,897,000	49,565,653	1.26	40,047,675	9,517,978
2048	62,642,390	7,194,253	8.71	35,903,000	43,097,253	1.45	34,980,630	8,116,623
2049	62,642,390	7,181,065	8.72	35,897,000	43,078,065	1.45	36,366,172	6,711,893
2050	62,642,390	10,986,078	5.70	35,975,400	46,961,478	1.33	41,742,768	5,218,710
2051	62,642,390	26,316,933	2.38	-	26,316,933	2.38	22,072,333	4,244,601
2052	62,642,390	27,768,800	2.26	-	27,768,800	2.26	23,933,591	3,835,209
2053	62,642,390	27,666,085	2.26	-	27,666,085	2.26	24,258,756	3,407,329
2054	62,642,390	27,535,709	2.27	-	27,535,709	2.27	24,562,285	2,973,424
		\$ 1,247,158,857		\$ 586,196,300	\$ 1,833,355,157		\$ 1,313,748,861	\$ 519,606,297

**Narragansett Bay Commission  
Operating Allowance  
Schedule 34**

Description	Projected Rate Year
Net Personnel	\$ 27,961,383
Operating Supplies/Expense	21,885,456
Professional Services	<u>2,198,672</u>
Total Operations & Maintenance	52,045,511
<b>Annual Operating Allowance</b>	<u><u>\$ 328,282</u></u>

**Narragansett Bay Commission  
Presentation of Revenue Deficiency  
Schedule 35**

Description	Projected Rate Year
Projected Rate Year Revenue Requirement	\$ 115,574,327
Less: Projected Rate Year Miscellaneous Revenues	<u>(3,006,527)</u>
Net Revenue Requirement to be Recovered through User Charges	112,567,800
Rate Year User Charge Revenue without Increase	<u>101,309,840</u>
Revenue Increase	<u><u>\$ 11,257,959</u></u>
Calculation of Across the Board Increase Percentage	11.11%

**Narragansett Bay Commission**  
**Rate Year Revenue Proof with Rate Increase**  
**Schedule 36**

Revenue Item Description	Current Rate	Increase	Rate Year Rates	Rate Year Units	Rate Year Revenues
<b><u>User Fee Revenues</u></b>					
<b>Residential</b>					
Customer Charges (per dwelling unit)	\$ 238.74	11.11%	\$ 265.27	121,952	\$ 32,350,177
Residential Wells	542.46	11.11%	\$ 602.74	348	209,754
Consumption Charges (per HCF)	3.831	11.11%	\$ 4.257	7,979,687	<u>33,967,263</u>
<b>Total Residential</b>					<b>66,527,194</b>
<b>Non-Residential</b>					
<b>Customer Charges (per Meter Size)</b>					
5/8"	566	11.11%	\$ 629	3,498	2,200,193
3/4"	849	11.11%	\$ 943	1,018	960,325
1"	1,415	11.11%	\$ 1,572	1,283	2,017,185
1 1/2"	2,831	11.11%	\$ 3,146	839	2,639,152
2"	4,529	11.11%	\$ 5,032	1,223	6,154,479
3"	8,492	11.11%	\$ 9,436	87	820,903
4"	14,154	11.11%	\$ 15,727	35	550,440
6"	28,308	11.11%	\$ 31,454	34	1,069,426
8"	45,292	11.11%	\$ 50,325	12	603,900
10"	65,108	11.11%	\$ 72,343	1	<u>72,343</u>
<b>Subtotal Customer Charges</b>					<b>17,088,345</b>
Commercial Consumption Charges (per HCF)	5.754	11.11%	\$ 6.393	4,185,893	26,762,121
Industrial Consumption Charges (per HCF)	3.770	11.11%	\$ 4.189	522,839	<u>2,190,140</u>
<b>Total Non-Residential</b>					<b>46,040,606</b>
<b>Total User Fee Revenues</b>					<b>112,567,800</b>
<b>Non-User Charge Revenue</b>					
Connection Permit Fees					43,850
Capacity Charge Fees					274,144
Real Estate Closing Fee					165,390
Abatement Application Fee					3,710
Return Check Fee Revenue					21,685
Stormwater Permit Application Fee					29,353
REC Income FP Turbines					167,688
REC Income WED Wind					180,495
REC Income WED Solar					315,236
REC Income Biogas Electric					440
Septage Income					355,825
Interest Income Revenue					196,200
Interest Income O & M					250,944
Late Charge Revenue					860,196
Discounts Earned					3,564
Miscellaneous Income					64,527
Rental Revenue					<u>12,000</u>
<b>Total Non-User Fee Revenues</b>					<b>\$ 3,006,527</b>
					<b>Total Revenues \$ 115,574,327</b>
					<b>Total Revenue Requirement \$ 115,574,327</b>

**Narragansett Bay Commission  
Annual Bill Impacts  
Schedule 37**

	<b>Adjusted Test Year</b>	<b>Proposed Rate Year</b>	<b>Dollar Increase</b>	<b>Percent Increase</b>
<u>Residential - 73.2 Hcf</u>				
Customer Charge	\$ 238.74	\$ 265.27	\$ 26.53	11.11%
Consumption	280.43	311.59	31.16	11.11%
<i>Total: Residential - 73.2 Hcf</i>	519.17	576.86	57.69	11.11%
<u>Commercial - 244 Hcf, 5/8"</u>				
Customer Charge	566.00	628.90	62.90	11.11%
Consumption	1,403.98	1,559.99	156.02	11.11%
<i>Total: Commercial - 244 Hcf, 5/8"</i>	1,969.98	2,188.89	218.91	11.11%
<u>Commercial - 2,440 Hcf, 2"</u>				
Customer Charge	4,529.00	5,032.28	503.28	11.11%
Consumption	14,039.76	15,599.91	1,560.15	11.11%
<i>Total: Commercial - 2,440 Hcf, 2"</i>	18,568.76	20,632.20	2,063.44	11.11%
<u>Industrial - 244 Hcf, 5/8"</u>				
Customer Charge	566.00	628.90	62.90	11.11%
Consumption	919.88	1,022.10	102.22	11.11%
<i>Total: Industrial - 244 Hcf, 5/8"</i>	1,485.88	1,651.00	165.12	11.11%
<u>Industrial - 2,440 Hcf, 2"</u>				
Customer Charge	4,529.00	5,032.28	503.28	11.11%
Consumption	9,198.80	10,221.01	1,022.21	11.11%
<i>Total: Industrial - 2,440 Hcf, 2"</i>	13,727.80	15,253.29	1,525.49	11.11%

**Narragansett Bay Commission**  
**Calculation of Step Adjustments**  
**Schedule 38**

Description	Step 2 - FY 2025	Step 3 - FY 2026	Step 4 - FY 2027	Step 5 - FY 2028
Projected Rate Year Revenue Requirement	\$ 124,310,018	\$ 127,413,287	\$ 129,525,665	\$ 135,302,663
Less: Projected Rate Year Miscellaneous Revenues	<u>(3,006,527)</u>	<u>(3,006,527)</u>	<u>(3,006,527)</u>	<u>(3,006,527)</u>
Net Revenue Requirement to be Recovered through User Charges	121,303,490	124,406,759	126,519,137	132,296,136
Rate Year User Charge Revenue with Proposed Rate Increase	<u>112,567,800</u>	<u>121,303,490</u>	<u>124,406,759</u>	<u>126,519,137</u>
Revenue Increase	<u>\$ 8,735,691</u>	<u>\$ 3,103,269</u>	<u>\$ 2,112,378</u>	<u>\$ 5,776,999</u>
Calculation of Across the Board Increase Percentage	7.76%	2.56%	1.70%	4.57%

**Narragansett Bay Commission  
Step Increase Bill Impacts  
Schedule 39**

	Proposed Rate Year	Proposed Step 2	Dollar Increase	Percent Increase
<u>Residential - 73.2 Hcf</u>				
Customer Charge	\$ 265.27	\$ 285.86	\$ 20.59	7.76%
Consumption	311.59	335.77	24.18	7.76%
<i>Total: Residential - 73.2 Hcf</i>	576.86	621.63	44.77	7.76%
<u>Commercial - 244 Hcf, 5/8"</u>				
Customer Charge	628.90	677.70	48.80	7.76%
Consumption	1,559.99	1,681.05	121.06	7.76%
<i>Total: Commercial - 244 Hcf, 5/8"</i>	2,188.89	2,358.75	169.87	7.76%
<u>Commercial - 2,440 Hcf, 2"</u>				
Customer Charge	5,032.28	5,422.80	390.52	7.76%
Consumption	15,599.91	16,810.53	1,210.61	7.76%
<i>Total: Commercial - 2,440 Hcf, 2"</i>	20,632.20	22,233.33	1,601.14	7.76%
<u>Industrial - 244 Hcf, 5/8"</u>				
Customer Charge	628.90	677.70	48.80	7.76%
Consumption	1,022.10	1,101.42	79.32	7.76%
<i>Total: Industrial - 244 Hcf, 5/8"</i>	1,651.00	1,779.12	128.12	7.76%
<u>Industrial - 2,440 Hcf, 2"</u>				
Customer Charge	5,032.28	5,422.80	390.52	7.76%
Consumption	10,221.01	11,014.20	793.19	7.76%
<i>Total: Industrial - 2,440 Hcf, 2"</i>	15,253.29	16,437.00	1,183.71	7.76%

	<b>Proposed Step 2</b>	<b>Proposed Step 3</b>	<b>Dollar Increase</b>	<b>Percent Increase</b>
<u>Residential - 73.2 Hcf</u>				
Customer Charge	\$ 285.86	\$ 293.17	\$ 7.31	2.56%
Consumption	335.77	344.36	8.59	2.56%
<i>Total: Residential - 73.2 Hcf</i>	621.63	637.53	15.90	2.56%
<u>Commercial - 244 Hcf, 5/8"</u>				
Customer Charge	677.70	695.04	17.34	2.56%
Consumption	1,681.05	1,724.06	43.01	2.56%
<i>Total: Commercial - 244 Hcf, 5/8"</i>	2,358.75	2,419.10	60.34	2.56%
<u>Commercial - 2,440 Hcf, 2"</u>				
Customer Charge	5,422.80	5,561.53	138.73	2.56%
Consumption	16,810.53	17,240.59	430.06	2.56%
<i>Total: Commercial - 2,440 Hcf, 2"</i>	22,233.33	22,802.12	568.79	2.56%
<u>Industrial - 244 Hcf, 5/8"</u>				
Customer Charge	677.70	695.04	17.34	2.56%
Consumption	1,101.42	1,129.60	28.18	2.56%
<i>Total: Industrial - 244 Hcf, 5/8"</i>	1,779.12	1,824.64	45.51	2.56%
<u>Industrial - 2,440 Hcf, 2"</u>				
Customer Charge	5,422.80	5,561.53	138.73	2.56%
Consumption	11,014.20	11,295.97	281.77	2.56%
<i>Total: Industrial - 2,440 Hcf, 2"</i>	16,437.00	16,857.50	420.50	2.56%



	<b>Proposed Step 3</b>	<b>Proposed Step 4</b>	<b>Dollar Increase</b>	<b>Percent Increase</b>
<u>Residential - 73.2 Hcf</u>				
Customer Charge	\$ 293.17	\$ 298.15	\$ 4.98	1.70%
Consumption	344.36	350.21	5.85	1.70%
<i>Total: Residential - 73.2 Hcf</i>	637.53	648.36	10.83	1.70%
<u>Commercial - 244 Hcf, 5/8"</u>				
Customer Charge	695.04	706.84	11.80	1.70%
Consumption	1,724.06	1,753.33	29.27	1.70%
<i>Total: Commercial - 244 Hcf, 5/8"</i>	2,419.10	2,460.17	41.08	1.70%
<u>Commercial - 2,440 Hcf, 2"</u>				
Customer Charge	5,561.53	5,655.97	94.43	1.70%
Consumption	17,240.59	17,533.32	292.74	1.70%
<i>Total: Commercial - 2,440 Hcf, 2"</i>	22,802.12	23,189.29	387.17	1.70%
<u>Industrial - 244 Hcf, 5/8"</u>				
Customer Charge	695.04	706.84	11.80	1.70%
Consumption	1,129.60	1,148.78	19.18	1.70%
<i>Total: Industrial - 244 Hcf, 5/8"</i>	1,824.64	1,855.62	30.98	1.70%
<u>Industrial - 2,440 Hcf, 2"</u>				
Customer Charge	5,561.53	5,655.97	94.43	1.70%
Consumption	11,295.97	11,487.77	191.80	1.70%
<i>Total: Industrial - 2,440 Hcf, 2"</i>	16,857.50	17,143.74	286.23	1.70%

	<b>Proposed Step 4</b>	<b>Proposed Step 5</b>	<b>Dollar Increase</b>	<b>Percent Increase</b>
<u>Residential - 73.2 Hcf</u>				
Customer Charge	\$ 298.15	\$ 311.76	\$ 13.61	4.57%
Consumption	350.21	366.20	15.99	4.57%
<i>Total: Residential - 73.2 Hcf</i>	648.36	677.96	29.60	4.57%
<u>Commercial - 244 Hcf, 5/8"</u>				
Customer Charge	706.84	739.11	32.28	4.57%
Consumption	1,753.33	1,833.39	80.06	4.57%
<i>Total: Commercial - 244 Hcf, 5/8"</i>	2,460.17	2,572.51	112.33	4.57%
<u>Commercial - 2,440 Hcf, 2"</u>				
Customer Charge	5,655.97	5,914.23	258.26	4.57%
Consumption	17,533.32	18,333.91	800.59	4.57%
<i>Total: Commercial - 2,440 Hcf, 2"</i>	23,189.29	24,248.14	1,058.85	4.57%
<u>Industrial - 244 Hcf, 5/8"</u>				
Customer Charge	706.84	739.11	32.28	4.57%
Consumption	1,148.78	1,201.23	52.45	4.57%
<i>Total: Industrial - 244 Hcf, 5/8"</i>	1,855.62	1,940.35	84.73	4.57%
<u>Industrial - 2,440 Hcf, 2"</u>				
Customer Charge	5,655.97	5,914.23	258.26	4.57%
Consumption	11,487.77	12,012.31	524.54	4.57%
<i>Total: Industrial - 2,440 Hcf, 2"</i>	17,143.74	17,926.54	782.80	4.57%

1 **NARRAGANSETT BAY COMMISSION**  
2 **PRE-FILED DIRECT TESTIMONY**  
3 **OF JAMES MCCAUGHEY, PE, BCEE**  
4

5 **I. Introduction**

6 **Q. Please state your name and address.**

7 A. James McCaughey. My business address is the Narragansett Bay Commission, One  
8 Service Road, Providence, RI 02905.  
9

10 **Q. For whom are you employed and what is your position?**

11 A. I am employed by the Narragansett Bay Commission (NBC) as its Deputy Director.  
12

13 **Q. For how long have you been so employed?**

14 A. I have been employed at the NBC since November 1992. I began my employment  
15 as NBC's Pollution Prevention Manager, was promoted to Director of  
16 Administration in January 2019, and then promoted to my current position of  
17 Deputy Director in July 2022. Prior to my employment with the NBC, I worked for  
18 the Rhode Island Department of Environmental Management from July 1986  
19 through November 1992.  
20

21 **Q. What are your responsibilities as the Deputy Director?**

22 A. In my position I oversee NBC's Human Resources, Information Technology, Legal  
23 and Administration sections. I am also involved in special projects such as NBC's  
24 renewable energy program and long-term biosolids disposal. I provide support to  
25 the Executive Director and perform her duties in her absence.  
26

27 **Q. What is your educational background?**

28 A. I have a Bachelor of Science in Chemical Engineering from the University of Rhode  
29 Island (URI), a Master of Science in Chemical Engineering from URI, and a Master

1 of Arts in Mathematics from Providence College. I am also a registered  
2 Professional Engineer in the State of Rhode Island as well as a Board-Certified  
3 Environmental Engineer.

4

5 **Q. Do you have any professional affiliations?**

6 A. Yes, I am a member of the National Association of Clean Water Agencies, the New  
7 England Water Environment Association, the Rhode Island Clean Water  
8 Association, and the American Academy of Environmental Engineers.

9

10 **Q. What is the purpose of your testimony?**

11 A. To support NBC'S request for a multi-year rate increase. My testimony also serves  
12 to provide the Rhode Island Public Utilities Commission (PUC or Commission) with  
13 additional information regarding NBC's Regional Biosolids Management Facility  
14 Study, NBC's current biosolids disposal contract, NBC's non-union salary  
15 adjustments, the status of NBC's investigation of a program to address  
16 affordability for low-income residents, NBC's contract for electronic payments,  
17 the one-time credit from National Grid, the non-recurring Sewer Tie-in revenue,  
18 NBC's request to extend the debt service compliance filing mechanism previously  
19 approved by the Commission, and NBC's request to eliminate a reporting  
20 requirement.

21

22 **II. Biosolids Disposal Contract**

23 **Q. Would you please provide background regarding biosolids disposal?**

24 A. Yes. NBC produces approximately 10,000 dry tons (dts) annually of biosolids from  
25 its two wastewater treatment facilities. NBC's wastewater treatment biosolids  
26 consist of primary sludge and scum (oil and grease) removed from raw influent  
27 wastewater and activated sludge, a biological by-product of the wastewater  
28 treatment process. Currently these biosolids are dewatered on-site and trucked  
29 off-site for incineration through a 20-year third party contract with a biosolids

1 management firm. NBC's contract expires in May 2026. Excluding personnel costs  
2 biosolids management and disposal is one of the highest operating costs  
3 associated with the wastewater treatment process.

4

5 **Q. Does NBC's application for rate relief include additional costs for the biosolids**  
6 **disposal contract?**

7 A. Yes. NBC's biosolids disposal expense is based on a rate per dry ton. In accordance  
8 with the contract, the rate is adjusted annually based on the U.S. Department of  
9 Labor in the Bureau of Labor Statistics' Consumer Price Index (CPI). Based on the  
10 most recent CPI adjustment, effective January 2022, the current contractual price  
11 is \$533.65 per dry ton. NBC's vendor recently informed NBC that the CPI method  
12 for adjusting annual cost increases has not kept up with actual costs and that the  
13 current contractual pricing structure may be unsustainable. The vendor has  
14 proposed extending the current contract for an additional four years through 2030  
15 with the following price increases:

16

- 17 • \$25/dry ton, effective upon agreement to a modified contract - this increase  
18 addresses CPI shortfalls and current changes in law.
- 19 • \$8/dry ton, in the subsequent contract year - attributable to CPI and market  
20 shortfalls.
- 21 • \$6/dry ton in the subsequent two annual contract years - attributable to CPI  
22 and market shortfalls.

23

24 In addition, the vendor is requiring a modification to the CPI calculation that is  
25 based on a blend of the CPI/PPI to more closely track industrial cost changes.

26

27

28

1 **Q. Why is it in NBC’s best interest to negotiate with the biosolids disposal vendor**  
2 **for an additional four years?**

3 A. NBC is investigating future biosolids management opportunities that include a  
4 potential regional partnership with the Upper Blackstone Clean Water (UBCW),  
5 and the Springfield Water and Sewer Commission (SWSC) as explained in more  
6 detail below, as well as other options that may include continued third-party  
7 management. The additional time afforded through a four-year extension to the  
8 existing biosolids disposal contract will help NBC to properly address changing  
9 regulatory concerns regarding biosolids and assure the NBC makes a well-  
10 informed decision regarding future biosolids management.

11  
12 NBC is currently reviewing documentation supplied by the vendor in support of  
13 their request.

14

15 **III. Biosolids Management Facility Study**

16 **Q. Would you please provide an overview of NBC’s Regional Biosolids Management**  
17 **Facility Study?**

18 A. Yes. The management, treatment and ultimate utilization or disposal of  
19 wastewater treatment biosolids is becoming increasingly expensive and  
20 problematic for wastewater treatment facilities throughout the United States. In  
21 New England, where the vast majority of biosolids are incinerated and the  
22 resulting ash is landfilled, biosolids management is especially problematic. Aging  
23 incinerator equipment and incinerator facilities, and increasingly stricter emission  
24 standards, have resulted in limited incinerator capacity throughout the region.  
25 This is of particular concern to wastewater treatment facilities in Rhode Island and  
26 border portions of Massachusetts where other biosolid management options,  
27 such as landfilling and land application opportunities, are limited or non-existent.

28

1 Recognizing the impact of current and future limitations on biosolids management  
2 and utilization and/or disposal options the NBC, UBCW, and SWSC signed a  
3 Memorandum of Understanding in March 2022, to study the potential for a  
4 Regional Biosolids Management Facility which would address future biosolids  
5 handling needs of all three organizations. UBCW and SWSC operate wastewater  
6 treatment facilities similar in size to NBC Field's Point wastewater treatment  
7 facility. Together, the three Project Partners serve a population of about 860,000  
8 including numerous commercial and industrial customers. The total annual solids  
9 production for the four wastewater treatment facilities, two which are owned and  
10 operated by NBC, is nearly 40,000 dry tons annually.

11  
12 In June 2022, the three Project Partners executed a contract with Stantec of  
13 Boston to conduct the study. The Stantec team includes CDM Smith, Kleinfelder,  
14 and several private consultants. The Project Partners are sharing the costs.

15  
16 The project consists of two phases. The first phase will focus on determining the  
17 feasibility and value proposition of developing a regional biosolids facility. Tasks  
18 include establishing a base of current biosolids management activities at each  
19 facility, identifying any legal, regulatory, or other roadblocks, and identifying  
20 viable technologies and locations for a potential future regional biosolids  
21 management facility. In addition to looking at project technical and financial  
22 feasibility, the team is also tasked with looking at environment and social  
23 considerations such as climate change and the impact on the community where  
24 such a facility might be located. The study has been designed to look at least two  
25 technologies for processing wastewater solids.

26  
27 If the study concludes there is value in moving ahead, the second phase of the  
28 project will focus on developing refined cost estimates for a regional facility.

29

1 **IV. Non-Union Merit Increases**

2 **Q. Would you please address NBC’s request for 5% merit increases for non-union**  
3 **employees in the rate year?**

4 A. NBC’s workforce is composed of both union and non-union employees. Union  
5 employees, which comprise approximately 42% of the workforce, are covered by  
6 Collective Bargaining Agreements that include negotiated annual cost of living  
7 (COLA) increases and step increases for employees not at the top step. Current  
8 contracts, with terms running from July 2022 through June 2025, contain salary  
9 schedules with twelve steps. Union employees receive both an annual COLA and  
10 a step increase each year for their first 12 years of employment. The average step  
11 increase is 2.35%, so union employee salaries are adjusted based on the COLA plus  
12 step increase of approximately 4.85% annually (assuming a 2.5% COLA).

13  
14 Non-union employees, however, are not guaranteed annual pay increases but are  
15 awarded increases based on a merit performance system (the non-union merit  
16 performance system was replaced with an across-the-board salary increase during  
17 the COVID-19 crisis based on the same percentage as the union COLAs, but will be  
18 put back in place for FY 2024. On average, non-union employees receive pay  
19 increases approximate to the contracted COLA for union employees for that year  
20 (typically 2.5 – 3.0%).

21  
22 This union/non-union difference with respect to annual pay adjustments has  
23 caused problems with pay equity. For example, this can result in non-union  
24 supervisors making less than the union employees they supervise. Even when NBC  
25 has increased the salary parameters of the non-union employees, the additional  
26 step increases for the union employees year over year can result in the union  
27 employees making more than their non-union counterparts. This situation is not  
28 only unfair to the non-union supervisors, but it is also disincentivizing experienced  
29 union employees from taking promotions into non-union supervisory positions



1 where their experience and skills are of greater benefit to NBC operations.  
2 Additionally, to attract and maintain quality professionals, NBC needs to be  
3 market competitive with respect to non-union employee salaries. Historically, NBC  
4 has conducted non-union market-based salary assessments on an approximate 5-  
5 year cycle resulting in salary disparity with respect to market salary values for  
6 similar professional positions. To consistently remain competitive NBC needs to  
7 adjust non-union salaries on a more frequent basis.

8

9 To help resolve these problems NBC is proposing a two-tiered non-union annual  
10 salary adjustment process where all non-union employees will receive an annual  
11 COLA, equal to that of the union employees, along with a merit-based salary  
12 increase. The value of the merit-based portion of the salary increase will be based  
13 on a performance evaluation where higher performers receive a greater merit-  
14 based increase and lower performers receive less or no merit-based increase as  
15 appropriate. Annual non-unions COLAs will help NBC to keep pace with market-  
16 based salaries and the merit portion will assure non-union parity with annual  
17 union salary increases.

18

19 The new proposed two-tiered non-union annual salary adjustment process is  
20 designed such that the average annual pay increase, COLA plus merit, for all non-  
21 union employees will approximate average union pay increases. NBC is proposing  
22 to implement this salary increase structure for its non-union employees in the rate  
23 year.

24

25 **V. Affordability**

26 **Q. Would you please explain the status of NBC's investigation of a program to**  
27 **address affordability for low-income residents?**

28 A. Yes. NBC, the Treasurer's Office, and the Wiley Center held a number of working  
29 sessions beginning in the fall of 2019 to develop an affordability program. Some

1 of the considerations included the fact that NBC bills property owners not tenants,  
2 NBC does not have the infrastructure for determining eligibility, ratepayer equity,  
3 and funding of the program. To address program eligibility and create the ability  
4 to provide relief to tenants, the parties initiated discussions with National Grid.  
5 National Grid's service area overlaps with that of NBC and they currently  
6 administer the LIHEAP program. Some preliminary work was completed to  
7 identify matching accounts; however, NBC was informed that additional computer  
8 programming would be required for National Grid to implement the program. In  
9 the spring of 2020, COVID-19 arrived, ending work on the program as NBC's top  
10 priority was ensuring continuous operation in light of the pandemic. NBC is not  
11 opposed to continuing to pursue the program; however, equity and funding  
12 remain significant obstacles.

13

#### 14 **VI. Electronic Payment Fees**

15 **Q. Can you address NBC's fees for electronic payment transactions?**

16 A. Yes. NBC implemented a new software solution for customer service in 2019. This  
17 has enhanced customer service billing, research, and collections as well as the  
18 customer experience through the establishment of on-line capabilities for  
19 customers. As part of this implementation, NBC contracted with an integrated e-  
20 bill and payment solution vendor, Invoice Cloud. The contract is through  
21 December 2023 at which point, NBC will explore any and all other viable payment  
22 options.

23

#### 24 **VII. National Grid Credit**

25 **Q. Would you please explain why NBC received a one-time credit from National**  
26 **Grid?**

27 A. Yes. NBC determined that the Bucklin Point electricity account should be eligible  
28 for a high voltage discount subsequent to the installation of new transformers in  
29 2006. NBC had been working with National Grid to apply the discount, but

1 National Grid did not implement the billing change until March, 2022. National  
2 Grid processed a payment to NBC for the \$234,992.08 credit for the months  
3 between Bucklin Point’s eligibility and when National Grid applied the discount.  
4 NBC applied the fiscal year 2022 credit to electricity expense and booked the  
5 remaining credit balance as miscellaneous revenue.

6

7 **VIII. Sewer Tie-In Revenue**

8 **Q. Can you explain the source of the sewer tie-in revenue and why this is non-**  
9 **recurring?**

10 A. Yes. As part of PUC Docket 4890, NBC was ordered to develop Sewer Tie-in  
11 Expense Terms and Conditions for the recovery of costs and expense attributable  
12 to the installation of a main sewer line. In FY 2022, two property owners  
13 connected to an NBC interceptor extension completed by NBC in Johnston and  
14 paid a Sewer Tie-in Expense of \$2,384,273. There are a limited number of adjacent  
15 parcels and NBC is not aware of any additional requests to connect to the new  
16 sewer. Since this revenue is to reimburse NBC for construction costs, NBC first  
17 deposited the funds in the revenue fund and then transferred the amount to the  
18 project fund to fund capital projects.

19

20 **IX. NBC’s Debt Service Compliance Filing Mechanism**

21 **Q. Can you please provide background on NBC’s Debt Service Compliance Filing**  
22 **Mechanism.**

23 A. Yes. In 2003, the Commission established a debt service compliance filling  
24 mechanism that allowed NBC to make abbreviated filings for debt service and debt  
25 service coverage related to capital projects in its TECP/VRDO program. (See Docket  
26 3483, Order No. 17558). This mechanism allowed NBC to take advantage of low  
27 interest rates through a variable rate debt issuance by enabling rate increases in  
28 a shorter amount of time than a full rate filing. The mechanism also allowed NBC  
29 to avoid the cost of a full rate filing, thus achieving savings for its ratepayers.

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The Commission’s Order in Docket 3483 allowed the NBC to use this mechanism from 2004 to 2008. The Commission then extended NBC’s use of the debt service filing mechanism in Dockets 3905 (2008) and 4364 (2013). In 2018, the Commission extended the debt service filing mechanism until 2022 in Docket 4364 (Order No. 23267).

**Q. Why is NBC requesting that the Commission extend this Debt Service Compliance Filing Mechanism?**

A. NBC requests that the Commission extend the debt filing mechanism until 2027 as it has benefitted, and will continue to benefit, NBC and its ratepayers. The mechanism has allowed NBC to issue variable rate debt, which NBC estimates has resulted in interest savings of more than twenty-two million dollars. Furthermore, the mechanism allows NBC to avoid the cost of a full rate filing, which benefits its ratepayers. Finally, the mechanism is viewed favorably by credit rating agencies since the ability of a utility to raise its rates to meet debt service commitments is critical.

**X. Reporting Requirement**

**Q. Which reporting requirement does NBC request to eliminate, and why?**

NBC would like to eliminate the Annual Pension Report (NBC’s Defined Benefit Plan) as required by Docket 3651 in 2007. NBC’s Annual Comprehensive Financial Report, which is provided to the Commission each year, includes retirement and post-retirement benefit information for NBC’s union and non-union employees. However, if the Commission still finds additional information regarding the non-union retirement plans useful, NBC seeks to streamline the reporting by submitting copies of the annual actuarial report (December 31<sup>st</sup> plan year end date) and Non-Union Defined Benefit Financial Report (June 30<sup>th</sup> fiscal year end date).

1 **XI. Conclusion**

2 **Q. Does this conclude your direct testimony?**

3 **A. Yes.**

4

1 **NARRAGANSETT BAY COMMISSION**

2 **PRE-FILED DIRECT TESTIMONY**

3 **OF STEPHEN MACERONI**

4  
5 **Q. Please state your name and title.**

6 A. My name is Stephen Maceroni, Director with PFM Financial Advisors LLC (PFM).

7  
8 **Q. Could you please describe your educational and employment background?**

9 A. I hold a Master of Business Administration degree from the University of Rhode Island  
10 and a Bachelor of Science in Management degree from Rhode Island College. With over  
11 25 years of public finance experience, I have served as financial advisor to governmental  
12 issuers in Rhode Island and throughout New England. Issuers that I have served during  
13 my career as a financial advisor include over 22 cities, towns, and school districts in Rhode  
14 Island as well the Rhode Island Commerce Corporation, Rhode Island Airport Corporation,  
15 and the Rhode Island Convention Center Authority. In addition, I have extensive  
16 experience assisting borrowers through the Rhode Island Infrastructure Bank (RIIB) State  
17 Revolving Fund Loan Program.

18  
19 **Q. Can you describe the organization of PFM Financial Advisors LLC (PFM) and the types of  
20 services that it provides?**

21 A. Over the past 47 years, PFM has provided independent financial advisory services to  
22 public entities. PFM has grown into a national firm with over 330 employees in 31 offices  
23 across the United States. For the 24<sup>th</sup> consecutive year, PFM has maintained its position  
24 as the number one financial advisor in the industry, providing financial advisory services  
25 on more than 935 transactions for a total par amount in excess of \$69.7 billion in 2021.  
26 In terms of wastewater issuers, PFM has been the top ranked financial advisor in this  
27 sector for several years as well representing other large wastewater operators including  
28 the Massachusetts Water Resources Authority and the DC Water and Sewer District. In  
29 2021, PFM maintained its position as the number one financial advisor for wastewater

1 transactions, providing financial advisory services on 85 transactions for a total par  
2 amount in excess of \$6.9 billion.

3  
4 **Q. What is your relationship with the Narragansett Bay Commission (NBC)?**

5 A. PFM was appointed in 2012 to serve as Financial Advisor to the NBC by its Board of  
6 Commissioners. I have experience working with the NBC and am familiar with NBC's  
7 borrowing history and capital needs. I worked closely with NBC on their three loans  
8 through the Water Infrastructure Finance and Innovation Act (WIFIA) program  
9 administered by the United States Environmental Protection Agency (USEPA). Most  
10 recently I worked with NBC on its WIFIA III loan in an original principal amount of \$55.5  
11 million, the 2022 Series A bonds.

12  
13 **Q. Have you testified previously before the Rhode Island Public Utilities and Carriers?**

14 A. No, but I have testified before the Rhode Island Division of Public Utilities and Carriers in  
15 support of NBC's application for approval to issue long-term debt in connection with the  
16 NBC's WIFIA I and WIFIA II Loans, 2021 Series A RIIB Loan and WIFIA III Loan (Dockets D-  
17 19-33, D-20-06, D-21-13 and D-22-09).

18  
19 **Q. What is the purpose of your supplemental testimony?**

20 A. To provide testimony in support of the NBC's request for increased rates to provide  
21 funding for debt service and debt service coverage needed to finance its Capital  
22 Improvement Program (CIP). NBC seeks to increase rates over five fiscal years – FY24,  
23 FY25, FY 26, FY 27 and FY28 – to meet its debt service needs.

24  
25 **Q. Can you please provide an overview of NBC's debt service funding needs that are  
26 addressed in this Docket?**

27 A. Yes. NBC needs to borrow approximately \$350 million from the Rhode Island  
28 Infrastructure Bank over the next three fiscal years to finance certain projects in its CIP.

1 Please see the pre-filed testimony of Richard Bernier for a list of projects included in the  
2 CIP.

3  
4 **Q. Would you please discuss how PFM modeled the proposed funding of NBC's CIP?**

5 A. To determine the new funding strategy, PFM used the long-term financing model  
6 developed to support NBC's WIFIA loans. This model incorporates NBC's projected cash  
7 flows for the CIP and available funding from pay-go capital. Other modeling  
8 considerations include limiting the funding of WIFIA projects to 49% of the project cost,  
9 as this is the maximum amount of project funding under the WIFIA guidelines. The debt  
10 optimization model incorporates the "What'sBest!" linear optimization tool to structure  
11 the capital financing plan. With What'sBest!, the user places constraints on the model  
12 (i.e., coverage cannot go below 1.25x in any year, RIIB State Revolving Fund loans have  
13 certain structuring limitations, etc.) that cannot be violated when What'sBest! is  
14 determining the solution. Outside of these constraints that are placed on the model,  
15 What'sBest! is given the ability to modify the funding source mix between WIFIA, Rhode  
16 Island Infrastructure Bank State Revolving Fund loans, and NBC open market revenue  
17 bonds. While the model also solves for the ideal amortization length for each funding  
18 source to determine the least expensive path of financing, I modified the amortization  
19 schedules slightly since there are projected rate increases every year.

20  
21 **Q. What are the results of the model?**

22 A. Based on the model and in the current interest rate environment, the recommended  
23 strategy is funding the balance of the CIP that is not funded by WIFIA or pay-go capital  
24 through loans from RIIB as opposed to NBC's open market revenue bond issuance.

25  
26 **Q. What makes the RIIB loans the preferred funding source for NBC's CIP?**

27 A. The WIFIA program limits WIFIA funding to 49% of the eligible project cost and not all of  
28 NBC's projects are funded through WIFIA. Currently, funding through RIIB is the next least  
29 expensive option. RIIB offers low-interest loans at a rate that is typically 1/3 less than the



1 rate that NBC would be able to obtain on its own. As interest rates have risen over the  
2 past few months, the value of this interest subsidy has increased. RIIB loans also have  
3 principal forgiveness components related to “green projects” and affordability, further  
4 reducing debt service. RIIB also reduced its service fees from 50 basis points to 30 basis  
5 points and is agreeable to flexible loan amortizations which allow the “wrapping” of new  
6 debt service around existing debt. In addition, RIIB is willing to increasing loan  
7 amortization from 20 up to 30 years. All of these factors contribute to RIIB being the  
8 preferred funding option.

9  
10 **Q. What is the projected debt service associated with the RIIB loans?**

11 A. The model determined that NBC’s borrowing needs of approximately \$350 million from  
12 the RIIB over the next three fiscal years to finance the unfunded balance of the CIP. PFM  
13 has prepared preliminary debt service schedules related to the issuance of \$100 million  
14 in Fiscal Year (FY) 2023, \$190 million in FY 2024 and \$60 million in FY 2025. The projected  
15 increase in annual debt service and debt service coverage associated with the issuance of  
16 this debt is illustrated in the attached Exhibit SM-1.

17  
18 **Q. How does the interest rate of a RIIB loan compare to open market interest rates?**

19 A. For the purposes of projections, a 30-year RIIB loan, based on current market rates, I  
20 assumed a subsidized interest rate of approximately 4.00% which includes RIIB’s service  
21 fee of 30 basis points and 1.0% origination fee, which on a loan this size would be  
22 \$1,000,000. For a comparable open market bond, based on current market rates, the  
23 estimated rate would be approximately 5.00%.

24  
25 **Q. Does this conclude your pre-filed testimony?**

26 A. Yes.

Fiscal Year June 30,	Fiscal Year 2023				Fiscal Year 2024		Fiscal Year 2025		Total Existing and Proposed
	Existing	Proposed \$100 Million <sup>(1)</sup>		Proposed \$190 Million <sup>(1)</sup>		Proposed \$60 Million <sup>(1)</sup>			
	Debt Service	Principal <sup>(2)</sup>	Interest	Principal	Interest	Principal	Interest		
2023	\$ 40,966,265	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,966,265	
2024	43,554,340	-	3,915,800	-	-	-	-	47,470,140	
2025	42,942,893	-	3,915,800	-	7,600,000	-	-	54,458,693	
2026	43,025,508	-	3,915,800	-	7,600,000	-	2,400,000	56,941,308	
2027	42,436,910	-	3,915,800	600,000	7,588,000	-	2,400,000	56,940,710	
2028	42,212,310	-	3,915,800	800,000	7,560,000	-	2,400,000	56,888,110	
2029	42,110,283	2,000,000	3,875,800	-	7,544,000	-	2,400,000	57,930,083	
2030	45,098,242	-	3,835,800	-	7,544,000	-	2,400,000	58,878,042	
2031	45,096,196	-	3,835,800	-	7,544,000	-	2,400,000	58,875,996	
2032	49,401,585	-	3,835,800	-	7,544,000	-	2,400,000	63,181,385	
2033	47,192,363	2,000,000	3,795,800	-	7,544,000	-	2,400,000	62,932,163	
2034	45,075,989	4,200,000	3,671,800	2,000,000	7,504,000	-	2,400,000	64,851,789	
2035	46,828,180	3,000,000	3,527,800	2,000,000	7,424,000	-	2,400,000	65,179,980	
2036	35,404,758	5,745,000	3,352,900	11,045,000	7,163,100	-	2,400,000	65,110,758	
2037	35,408,033	5,975,000	3,118,500	11,495,000	6,712,300	-	2,400,000	65,108,833	
2038	35,200,436	6,220,000	2,874,600	11,965,000	6,243,100	-	2,400,000	64,903,136	
2039	34,736,574	6,475,000	2,620,700	12,455,000	5,754,700	-	2,400,000	64,441,974	
2040	59,116,727	-	2,491,200	-	5,505,600	-	2,400,000	69,513,527	
2041	57,851,922	-	2,491,200	-	5,505,600	2,000,000	2,360,000	70,208,722	
2042	60,557,827	-	2,491,200	-	5,505,600	-	2,320,000	70,874,627	
2043	59,395,990	-	2,491,200	-	5,505,600	1,000,000	2,300,000	70,692,790	
2044	61,750,046	-	2,491,200	-	5,505,600	-	2,280,000	72,026,846	
2045	60,726,996	-	2,491,200	-	5,505,600	1,000,000	2,260,000	71,983,796	
2046	63,717,172	-	2,491,200	-	5,505,600	-	2,240,000	73,953,972	
2047	13,668,653	6,740,000	2,356,400	12,965,000	5,246,300	4,645,000	2,147,100	47,768,453	
2048	7,194,253	7,015,000	2,081,300	13,490,000	4,717,200	4,835,000	1,957,500	41,290,253	
2049	7,181,065	7,300,000	1,795,000	14,045,000	4,166,500	5,035,000	1,760,100	41,282,665	
2050	10,986,078	7,600,000	1,497,000	14,615,000	3,593,300	5,240,000	1,554,600	45,085,978	
2051	26,316,933	7,910,000	1,186,800	15,210,000	2,996,800	5,455,000	1,340,700	60,416,233	
2052	27,768,800	8,230,000	864,000	15,835,000	2,375,900	5,675,000	1,118,100	61,866,800	
2053	27,666,085	8,570,000	528,000	16,480,000	1,729,600	5,905,000	886,500	61,765,185	
2054	27,535,709	8,915,000	178,300	17,150,000	1,057,000	6,150,000	645,400	61,631,409	
2055	27,442,404	-	-	17,850,000	357,000	6,400,000	394,400	52,443,804	
2056	27,321,092	-	-	-	-	6,660,000	133,200	34,114,292	
2057	27,193,582	-	-	-	-	-	-	27,193,582	
2058	27,081,334	-	-	-	-	-	-	27,081,334	
2059	26,962,676	-	-	-	-	-	-	26,962,676	
2060	13,379,629	-	-	-	-	-	-	13,379,629	
2061	3,569,780	-	-	-	-	-	-	3,569,780	
2062	3,527,964	-	-	-	-	-	-	3,527,964	
<b>Totals</b>	<b>\$ 1,444,603,583</b>	<b>\$ 97,895,000</b>	<b>\$ 85,849,500</b>	<b>\$ 190,000,000</b>	<b>\$ 173,648,000</b>	<b>\$ 60,000,000</b>	<b>\$ 61,697,600</b>	<b>\$ 2,113,693,683</b>	

(1) RIIB SRF Loan - Estimated All-in Rate of 4.00%.

(2) Includes expected principal forgiveness.

1 **NARRAGANSETT BAY COMMISSION**

2  
3 **PRE-FILED DIRECT TESTIMONY**

4 **OF RICHARD BERNIER**

5  
6 **I. Introduction**

7 **Q. Please state your name and address.**

8 A. Richard Bernier. My business address is the Narragansett Bay Commission, One  
9 Service Road, Providence, Rhode Island 02905.

10  
11 **Q. For whom are you employed and what is your position?**

12 A. I am employed by the Narragansett Bay Commission (NBC) as its Director of  
13 Construction and Engineering.

14  
15 **Q. For how long have you been so employed?**

16 A. I joined the Commission in November 1986 as a Principal Sanitary Engineer. I was  
17 promoted to Chief of Construction and Grants in December 1988 and Director of  
18 Construction Services in October 2007. In 2017, my title was changed to Director of  
19 Construction and Engineering to reflect a reorganization.

20  
21 **Q. What are your responsibilities as the Director of Construction and Engineering?**

22 A. In my position I am responsible for overseeing the planning, design, and construction  
23 of capital improvements. I also oversee facilities maintenance.

24  
25 **Q. What is your educational background?**

26 A. In 1977 I received a Bachelor of Science in Civil and Environmental Engineering from  
27 the University of Rhode Island.

1 **Q. Do you have any professional affiliations?**

2 A. Yes, I am a Registered Professional Engineer in Rhode Island.

3

4 **Q. Have you previously testified before the Rhode Island Public Utilities Commission?**

5 A. No.

6

7 **Q. What is the purpose of your testimony?**

8 A. To provide the Rhode Island Public Utilities Commission (PUC) with an update on  
9 NBC's capital projects.

10

11 **II. NBC Capital Budget**

12 **Q. What is NBC's FY 2023 – 2028 Capital Budget?**

13 A. NBC's Capital Budget has programmed Capital Improvement Program (CIP)  
14 expenditures of \$716.2 million on three large projects, Combined Sewer Overflow  
15 (CSO) Phase III A Facilities, Bucklin Point Resiliency Improvements, and Field's  
16 Point Resiliency Improvements as well as \$65.7 million for other CIP projects. The  
17 Capital Budget also includes \$28.8 million for Operating Capital purchases  
18 identified through NBC's Asset Management Program, and \$1.4 million for cost of  
19 issuance (COI). See Stephen Maceroni pre-filed testimony for further discussion  
20 regarding COI. NBC's Capital Budget in the following chart and table shows  
21 programmed expense of more than \$223 million in each of the next three years  
22 as follows:

23

24

25

26

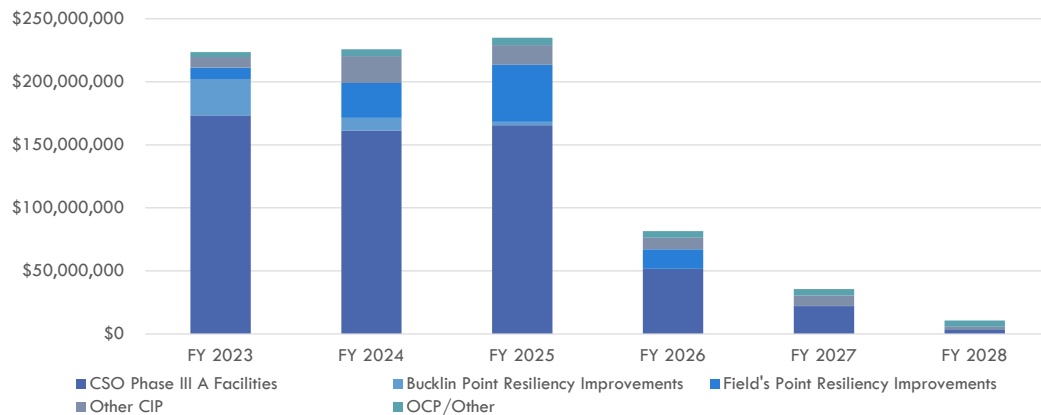
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1

### NBC's FY 2023 – 2028 Capital Budget



2

3

Uses of Funds (Millions)	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 2023-2028
CSO Phase III A Facilities	\$ 173.3	\$ 161.4	\$ 165.7	\$ 51.7	\$ 22.0	\$ 3.1	\$ 577.2
Bucklin Point Resiliency Improvements	28.9	10.0	2.7	-	-	-	41.6
Field's Point Resiliency Improvements	9.0	27.7	45.2	15.5	0.1	-	97.4
Other CIP	8.5	21.4	15.7	9.2	8.3	2.5	65.7
OCP	3.8	5.0	5.0	5.0	5.0	5.0	28.8
Cost of Issuance	-	0.4	0.8	0.2	0.1	-	1.4
	<b>\$ 223.6</b>	<b>\$ 225.9</b>	<b>\$ 235.0</b>	<b>\$ 81.6</b>	<b>\$ 35.5</b>	<b>\$ 10.6</b>	<b>\$ 812.2</b>

4

5 **III. CSO Phase III**

6 **Q. Would you please provide an overall description of the CSO Phase III Facilities?**

7 A. Yes. The CSO Phase III facilities represent the third and final phase of the federally  
 8 mandated CSO abatement program and includes four phases, A, B, C, and D, to be  
 9 completed by 2041. Each of the four phases also include expenditures of \$10 million  
 10 for the construction of Green Stormwater Infrastructure (GSI) to reduce stormwater  
 11 inflow to the existing CSO system. The current estimate for all four phases of the CSO  
 12 Phase III is \$1.1 billion. This estimate includes actual costs of planning, design, and  
 13 construction for Phase III A projects, actual cost of design for Phase III B projects,  
 14 current estimates for Phase III A projects that have not been bid yet, and estimates in  
 15 2018 dollars for Phases III B construction, III C design and construction, and III D design  
 16 and construction.

17

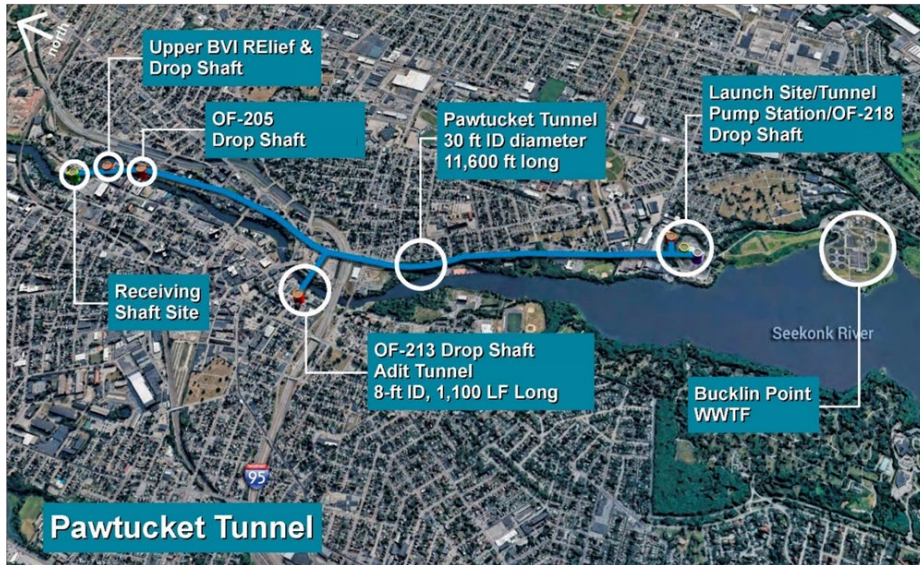
1 **IV. CSO Phase III A**

2 **Q. Can you provide an overview of the CSO Phase III A Facilities?**

3 A. Yes, The CIP includes costs for the CSO Phase III A Facilities which address CSO's in the  
4 greater Pawtucket metropolitan area as shown in the following map:

5  
6

**Phase III A Pawtucket Tunnel and Near Surface Sites**



7  
8

9 The CSO Phase III A Facilities originally consisted of thirteen separate construction  
10 projects; however, two projects were rolled into other projects reducing the number  
11 to eleven and three projects have been completed. CSO Phase III A also includes the  
12 Design and Construction Program Management Project (30800). The primary  
13 components of the CSO Phase III A Facilities consists of a 30' Internal diameter deep  
14 rock tunnel approximately 11,200' long in Pawtucket located along the Seekonk and  
15 Blackstone Rivers.

- 16
- Tunnel Pump Station to convey flow to the Bucklin Point WWTF in East Providence, drop shafts, regulator modifications and consolidation conduits
  - Green Stormwater Infrastructure (Phase A).
- 17  
18

- Design of the Upper BVI relief, CSO 105 relief sewer, CSO 206 sewer separation, Phase III B Regulator Modifications, and Green Stormwater Infrastructure (Phase B).

4

5 **Q. Would you please provide a status update for the CSO Phase III A Facilities?**

6 A. Yes. Highlights of the status as of September 30, 2022, are as follows:

- Tunnel boring machine (shown in the photo to the right) has been assembled at the launch site. Commissioning of the TBM to begin soon.



*NBC's Tunnel Boring Machine*

- Secant piles have been installed at drop shaft 205, drop shaft 213, drop shaft 218, Upper BVI - launch shaft, pump station shaft, and receiving shaft.
- The launch shaft and pump station shaft have been excavated.
- Drop Shaft 218 has been excavated. Hobas Pipe for the drop and vent shafts are currently being installed.
- Drop Shaft 213 is being excavated and is about 51 feet down.
- Drop Shaft 205 is being excavated. Hobas Pipe for the drop and vent shafts have been delivered to the site.
- The Upper BVI drop shaft is being excavated and is about 35 feet down.
- Receiving Shaft (where the TBM will be removed upon completion) is currently being excavated and is about 64 feet down.

23

24 The following table provides a status overview of the individual construction projects,  
25 estimated cost, construction start dates, construction end dates and percent  
26 complete which reflect May 2022 cost updates.

**CSO PHASE IIIA**

Project Number	Project Name	Under Contract	Estimated Cost <sup>(1)</sup>	Construction Start Date	Construction End Date	% Complete
30800	CSO Phase III A Facilities - Design & Construction Program Management	Yes	\$ 130.2			
30801	CSO Phase III A Facilities - Pawtucket Tunnel & Pump Station	Yes	486.8	Dec-20	May-25	42%
30802	CSO Phase III A Facilities - Tunnel Pump Station Fit-out	No	110.2	Jan-24	Feb-27	0%
30803	CSO Phase III A Facilities - OF 205	No	6.6	Jan-24	Dec-25	0%
30804	CSO Phase III A Facilities - OF 210,213,214	No	28.2	Nov-23	Oct-25	0%
30805	CSO Phase III A Facilities - OF 217	Yes	16.3	Dec-21	Jul-23	31%
30806	Incorporated into 30802	N/A	-	-	-	-
30807	CSO Phase III A Facilities - Regulator Modifications	Yes	7.5	Dec-21	Mar-23	18%
30808	CSO Phase III A Facilities - GSI Demonstration	Yes	1.8	Sep-19	Feb-21	100%
30809	CSO Phase III A Facilities - GSI Projects	Yes	11.1	Nov-19	Jun-24	57%
30810	CSO Phase III A Facilities - BPWWTF Clarifiers & Flow Splitters	No	47.0	Jan-23	May-25	0%
30811	CSO Phase III A Facilities - High Street Demo	Yes	0.2	Nov-18	Dec-19	100%
30812	Incorporated into 30809	N/A	-	-	-	-
30813	CSO Phase III A Facilities - Site Demolition	Yes	1.1	May-20	Nov-20	100%
<b>Total</b>			<b>\$ 847.0</b>			

**V. Bucklin Point Resiliency Improvements**

**Q. Would you please provide an update regarding the Bucklin Point Resiliency Improvements?**

**A.** Yes. The Bucklin Point Resiliency Improvements were identified as part of NBC's resiliency planning process and consists of three separate projects with a total estimated project cost of \$71.6 million as follows:

1. Construction of a new Ultraviolet (UV) disinfection building and energy efficient equipment
2. Installation of redundant power and other improvements to the treatment facilities
3. Construction of both a new Operations Building and a new Maintenance Building.

The following table provides a status overview of the individual construction projects, estimated cost, construction start dates, construction end dates and percent complete. The table reflects costs updated as of May 2022.

**BUCKLIN POINT RESILIENCY IMPROVEMENTS**

Project Number	Project Name	Under Contract	Estimated Cost	Construction Start Date	Construction End Date	% Complete
81000	BPWWTF UV Disinfection Improvements	No	\$ 21.5	Mar-22	Jan-25	10%
81600	BPWWTF Improvements	Yes	10.5	Oct-19	Jun-25	49%
81700	BPWWTF Operations & Maintenance Buildings	Yes	39.5	Nov-20	Jul-24	45%
<b>Total</b>			<b>\$ 71.6</b>			<b>35%</b>



1 **VI. Field’s Point Resiliency Improvements**

2 **Q. Would you please provide an update for the Field’s Point Resiliency Improvements.**

3 A. Yes. The Field’s Point Resiliency Improvements were identified as part of NBC’s  
 4 resiliency planning process and consists of seven separate projects with a total  
 5 estimated project cost of \$103.9 million as follows:

- 6 1. Miscellaneous Improvements to the Field’s Point Wastewater Treatment Facilities
- 7 2. Improvements to the Ernest Street Pumping Station (pumps all flow to Field’s  
 8 Point) including replacement of pumps and drive motors, and other  
 9 improvements
- 10 3. Construction of both a new Interceptor Maintenance Storage Building and a new  
 11 Maintenance Building
- 12 4. New Solar Carport
- 13 5. Cybersecurity improvements
- 14 6. Field’s Point Electrical Improvements
- 15 7. Replacement of the Lincoln Septage Receiving Station

16 The following table provides a status overview of the individual construction projects,  
 17 estimated cost, construction start dates, construction end dates and percent  
 18 complete. The table reflects costs updated as of May 2022.

FIELD'S POINT RESILIENCY IMPROVEMENTS							
Project Number	Project Name	Under Contract	Estimated Cost	Construction Start Date	Construction End Date	% Complete	
20300	FPWWTF Improvements	Yes	\$ 21.27	Oct-21	Mar-25	3%	
20400	FPWWTF Ernest Street Pump Station Improvements	No	37.2	Aug-22	Dec-25	1%	
20500	FPWWTF Maintenance & Storage Buildings	No	26.4	Jul-22	Jun-25	0%	
20600	NBC Solar Carport	No	1.1	Jan-22	Nov-23	0%	
20800	Cybersecurity Improvements	N/A	1.2	Aug-20	Jul-24	55%	
40101	FPWWTF Electrical Improvements	No	10.3	Jan-23	Dec-24	0%	
71000	Lincoln Septage Receiving Station Replacement	No	6.5	May-24	Sep-26	0%	
<b>Total</b>			<b>\$ 103.9</b>			<b>2%</b>	

19  
 20  
 21  
 22  
 23

1 **VII. Other CIP Projects**

2 **Q. Please provide a description of the other CIP projects included in NBC's Capital**  
3 **Budget.**

4 A. The CIP includes a total of 45 projects attached to my testimony as Exhibit RB-1.  
5 Please note that the estimated project costs and schedules presented in the list were  
6 prepared prior to the figures reflected in my testimony for CSO Phase III A, Bucklin  
7 Point Resiliency Improvements, and Field's Point Resiliency Improvements which  
8 were updated in May 2022.

9

10 In addition to those three projects, the CIP includes several projects related to  
11 Wastewater Treatment Facility (WWTF) Improvements, Infrastructure Management,  
12 Sewer System Improvements and Interceptor Restoration and Construction at an  
13 estimated cost of \$75.7 million. The largest projects within these functional areas are  
14 as follows:

- 15 1. The Long Range Biosolids Disposal (20700) at an estimated cost of \$10.5 million  
16 involves the evaluation, planning and development of reliable long-term sludge  
17 management strategy for sludge generate at NBC's WWTFs.
- 18 2. The Interceptor Maintenance Building (12400) involves the design and  
19 construction of a new building that would be needed if NBC is required by  
20 legislation to assume ownership of lateral sewers currently owned by local  
21 communities within its district at an estimated cost of \$10 million.
- 22 3. Omega Pump Station Improvements (70900) – This project involves the  
23 evaluation, design and replacement of pumps, piping, and valves at the Omega  
24 Pump Station, which were originally built in the 1950's and are nearing the end of  
25 their useful life. This project has an estimate cost of \$7.4 million.

26

27 **VIII. Conclusion**

28 **Q. Does this conclude your direct testimony?**

29 A. Yes.

## Capital Project Summary by Fiscal Year

(In Thousands)

Project Number	Project Name	Project Priority	Pre-Fiscal Year 2023	Fiscal Year 2023	Fiscal Years 2024-2028	Post-Fiscal Year 2028	Total Estimated Project Cost
<b>Wastewater Treatment Facility Improvements</b>							
20000	WWTF Improvements	B	\$ -	\$ -	\$ 1,000	\$ 500	\$ 1,500
20200	2019 WWTF Improvements	A	4,794	98	-	-	4,892
20700	Long-Range Biosolids Disposal	A	255	223	10,004	-	10,482
24000	NBC Facility Electrical Improvements	B	24	448	3	-	475
81800	BPWWTF Sludge Digestion Facility Improvements	A	86	992	5,127	-	6,205
	<i>Subtotal</i>		5,159	1,761	16,134	500	23,554
<b>Bucklin Point Resiliency Improvements</b>							
81000	BPWWTF UV Disinfection Improvements	A	7,050	9,687	3,458	-	20,195
81600	BPWWTF Improvements	A	6,550	393	3,600	-	10,543
81700	BPWWTF Operations & Maintenance Buildings	A	15,033	18,830	5,649	-	39,512
	<i>Subtotal</i>		28,633	28,910	12,707	-	70,250
<b>Field's Point Resiliency Improvements</b>							
20300	FPWWTF Improvements	A	2,402	2,563	16,306	-	21,271
20400	FPWWTF Ernest Street Pump Station Improvements	A	1,698	2,758	32,764	-	37,220
20500	FPWWTF Maintenance & Storage Buildings	A	396	2,590	23,422	-	26,408
20600	NBC Solar Carport	A	1,051	8	-	-	1,059
20800	Cybersecurity Improvements	A	992	197	22	-	1,211
40101	FPWWTF Electrical Improvements	A	19	758	9,509	-	10,286
71000	Lincoln Septage Receiving Station Replacement	A	-	108	6,382	-	6,490
	<i>Subtotal</i>		6,558	8,982	88,405	-	97,455
<b>Infrastructure Management</b>							
1140600	RIPDES Compliance Improvements	C	633	303	235	-	1,171
1140800	Pilot Restoration Initiative	C	27	101	66	-	194
1140900	Water Quality Model Validation and Enhancement	C	-	60	103	-	163
30700	NBC System-wide Facilities Planning	D	-	28	726	-	754
40200	NBC System-wide Inflow Reduction	D	118	127	978	-	1,223
40300	Municipal Lateral Sewer Acquisition Impact	D	-	-	481	-	481
40400	FPWWTF Plan Update	A	221	115	67	-	403
40550	RIPDES Flow Monitoring System Implementation	A	-	1,252	397	-	1,649
	<i>Subtotal</i>		999	1,986	3,053	-	6,038
<b>CSO Phase III Facilities</b>							
30800	CSO Phase III A Facilities - Design & Construction Program Management	A	68,753	18,892	42,059	-	129,704
30801	CSO Phase III A Facilities - Pawtucket Tunnel & Pump Station	A	184,002	133,667	170,931	-	488,600
30802	CSO Phase III A Facilities - Tunnel Pump Station Fit-out	A	-	27	104,994	-	105,021
30803	CSO Phase III A Facilities - OF 205	A	-	-	6,270	-	6,270
30804	CSO Phase III A Facilities - OF 210, 213, 214	A	-	1	28,225	-	28,226
30805	CSO Phase III A Facilities - OF 217	A	3,121	11,657	4,073	-	18,851
30807	CSO Phase III A Facilities - Regulator Modifications	A	1,508	6,107	25	-	7,640
30809	CSO Phase III A - GSI Projects	A	5,892	1,600	1,672	-	9,164
30810	CSO Phase III A Facilities - BPWWTF Clarifiers & Flow Splitters	A	2	1,385	45,639	-	47,026
	<i>CSO Phase III A Facilities Subtotal</i>		263,278	173,336	403,888	-	840,502
30830	CSO Phase III B Facilities	A	-	-	-	28,484	28,484
30850	CSO Phase III C Facilities	A	-	-	-	164,660	164,660
30870	CSO Phase III D Facilities	A	-	-	-	83,500	83,500
	<i>CSO Phase III B, C &amp; D Facilities Subtotal</i>		-	-	-	276,644	276,644
	<i>Subtotal</i>		263,278	173,336	403,888	276,644	1,117,146
<b>Sewer System Improvements</b>							
12400	Interceptor Maintenance Building	C	-	3	9,984	-	9,987
30500	NBC Interceptor Easements Restoration, Various Locations	B	170	254	1,005	-	1,429
30610	NBC System-wide Regulator Modifications	A	119	533	3,077	-	3,729
70900	Omega Pump Station Improvements	B	20	631	6,744	-	7,395
	<i>Subtotal</i>		309	1,421	20,810	-	22,540
<b>Interceptor Cleaning &amp; Restoration</b>							
30400M	Interceptor Inspection and Cleaning	B	602	-	2,500	500	3,602
30480M	Completion of Baseline Siphon Inspections and Cleanings	A	254	508	-	-	762
	<i>Subtotal</i>		856	508	2,500	500	4,364
<b>Interceptor Restoration &amp; Construction</b>							
30400C	Interceptor Restoration and Construction	B	-	-	4,920	1,500	6,420
30315	Woonasquatucket CSO OF 046 Improvements	B	144	280	3,314	-	3,738
30421	Louisquisset Pike Interceptor Improvements	D	2	43	6,418	-	6,463
30468	Improvements to Interceptors FY 2022	B	52	2,550	-	-	2,602
	<i>Subtotal</i>		198	2,873	14,652	1,500	19,223
	<b>Total</b>		\$ 305,990	\$ 219,777	\$ 562,149	\$ 279,144	\$ 1,360,570



Narragansett Bay Commission  
 One Service Rd. Providence, RI 02905  
 (401) 461-8828  
 www.narrabay.com

Customer-Account Number:	
Bill Date	10/05/2022
Due Date	11/4/2022

**TOTAL AMOUNT DUE: \$142.46**

Late charges will be assessed on unpaid account balances over 30 days from bill date.

Name:

Service Address:

Account Type: Residential

Meter #	Meter Size	Meter Type	Usage Period	Read Type	Begin Read	End Read	Days Billed	Usage (HCF)	Conversion to HCF
	5/8"	Input	08/01/2022 - 09/01/2022	Actual	516	537	31	21	21.00

**Activity Since Last Bill**

Previous Bill	\$192.11
Payment- 09/15/2022	\$-150.00
Balance Forward - Due Immediately:	\$42.11

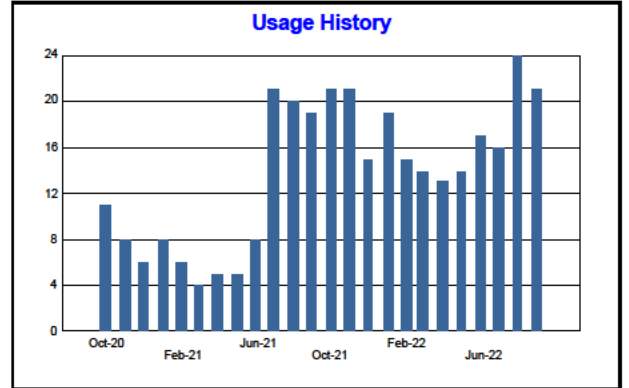
**Current Charges**

Usage 21.00 @ 3.831/HCF	\$80.45
Customer Charge (1 DU)	\$19.90

**Total Sewer Charges \$100.35**

**Total Current Charges: \$100.35**

**Total Amount Due: \$142.46**



Simple, Safe And FREE! Pay Your Bill By Phone, Text Or On-line. Call 401-461-8828 And Select Option 1 To Pay By Phone Or Visit Wwww.narrabay.com To Pay By Text Or On-line.

Simple, Seguro Y GRATIS! Pague Su Factura Por Teléfono, Mensaje De Texto O On-line. Llame Al 401-461-8828 Y Seleccione La Opción 1 Para Pagar Por Teléfono O Visite Wwww.narrabay.com Y Tambien Puede Pagar Por Mensaje De Texto O On-line.

Customer Charge Is For The Service Period Of October 1 To October 31

Please detach this portion and return with payment. Please make checks payable to Narragansett Bay Commission.



Narragansett Bay Commission  
 One Service Rd. Providence, RI 02905  
 (401) 461-8828  
 www.narrabay.com

Customer - Account	Due Date	Total Amount Due
	11/04/2022	\$142.46

**Amount Enclosed:**  
 \$

Pay online at [www.narrabay.com](http://www.narrabay.com). See reverse for additional payment options.

**Principal and Interest Paid during Fiscal Year 2022**

<i>BOND/SRF DESCRIPTION</i>	<i>Due Dates</i>	<i>FY 2022</i>	
		<i>PRINCIPAL</i>	<i>INTEREST</i>
SRF Series 2003	1-Sep	\$ 2,247,000.00	\$ 100,154.00
\$40M	1-Mar		76,111.10
SRF 2004 Series B	1-Sep	3,553,000.00	94,475.65
\$40M	1-Mar		59,389.78
SRF 2005 Series B	1-Sep	1,653,000.00	69,041.92
\$30M	1-Mar		52,167.06
SRF 2006 Series A	1-Sep	1,613,000.00	75,956.00
\$30M	1-Mar		61,435.09
SRF 2007 Series B	1-Sep	1,411,000.00	81,479.60
\$25M	1-Mar		67,193.23
SRF 2009 Series A	1-Sep	2,739,043.32	423,505.16
\$55M (8.3 M Forgiveness)	1-Mar		386,525.69
SRF 2010 Series A	1-Sep	85,754.30	11,479.90
\$2M (\$301,895 M Forgiveness)	1-Mar		10,342.57
SRF 2010 Series B	1-Sep	979,000.00	174,698.97
\$20M	1-Mar		159,965.02
SRF 2011 Series A	1-Sep	1,329,838.20	289,481.51
\$30M (1,845,345.21 forgive)	1-Mar		268,736.03
SRF 2012 Series A	1-Sep	1,187,934.14	237,179.16
\$25,750,000 (354,202 forgive)	1-Mar		223,517.91
SRF - 2013 Series B	1-Sep	1,145,257.58	235,971.03
\$25,000,000 (80,965.77 forgive)	1-Mar		225,033.81
SRF - 2014 Series A	1-Sep	1,998,000.00	506,892.20
\$45M	1-Mar		485,813.30
SRF - 2015 Series B	1-Sep	1,092,843.50	567,363.02
\$41,753,500 (\$512,070 forgiveness)	1-Mar		557,090.30
SRF - 2016 Series A	1-Sep	1,001,000.00	234,461.25
\$23M	1-Mar		227,454.25
SRF - 2019 Series A	1-Sep	1,441,600.00	361,640.68
\$35M (\$1,000,000.00 forgiveness)	1-Mar		350,828.68
SRF 2021 Series A	1-Sep		
\$45M (\$1,000,000 forgiveness)	1-Mar		3,198.00
SRF - 2019 Series B	1-Sep	438,000.00	85,176.75
\$10M	1-Mar		82,439.25
2008 Series A Refunding (\$66M)	1-Sep		646,524.25
	1-Mar		646,524.25
\$34.970M 2013 Series C	1-Sep	1,875,000.00	218,500.00
	1-Mar		171,625.00
\$40.085M 2015 Series A	1-Aug		64,300.00
	1-Feb		64,300.00
\$196.36M 2020 Series A	1-Sep	2,380,000.00	2,248,395.75
	1-Mar		2,231,759.55
<b>Total</b>		<b>\$ 28,170,271.04</b>	<b>\$ 13,138,126.67</b>

**Principal and Interest Paid during Fiscal Year 2024**

<i>BOND/SRF DESCRIPTION</i>	<i>Due Dates</i>	<i>FY 2024</i>	
		<i>PRINCIPAL</i>	<i>INTEREST</i>
SRF Series 2003 \$40M	1-Sep 1-Mar	\$ 2,344,000.00	\$ 51,439.85 26,007.45
SRF 2004 Series B \$40M	1-Sep 1-Mar	2,342,000.00	36,477.20 12,881.55
SRF 2005 Series B \$30M	1-Sep 1-Mar	1,720,000.00	35,522.72 13,849.99
SRF 2006 Series A \$30M	1-Sep 1-Mar	1,672,000.00	47,785.71 32,951.85
SRF 2007 Series B \$25M	1-Sep 1-Mar	1,469,000.00	52,469.23 37,301.80
SRF 2009 Series A \$55M (8.3 M Forgiveness)	1-Sep 1-Mar	2,893,570.85	346,803.31 305,175.76
SRF 2010 Series A \$2M (\$301,895 M Forgiveness)	1-Sep 1-Mar	91,697.67	9,123.71 7,829.53
SRF 2010 Series B \$20M	1-Sep 1-Mar	1,041,000.00	144,174.16 127,362.01
SRF 2011 Series A \$30M (1,845,345.21 forgive)	1-Sep 1-Mar	1,417,117.62	246,165.47 221,932.77
SRF 2012 Series A \$25,750,000 (354,202 forgive)	1-Sep 1-Mar	1,244,101.66	208,992.48 192,756.96
SRF - 2013 Series B \$25,000,000 (80,965.77 forgive)	1-Sep 1-Mar	1,191,113.64	213,197.03 199,380.11
SRF - 2014 Series A \$45M	1-Sep 1-Mar	2,088,000.00	462,035.65 435,935.65
SRF - 2015 Series B \$41,753,500 (\$512,070 forgiveness)	1-Sep 1-Mar	1,135,907.92	545,465.43 532,913.65
SRF - 2016 Series A \$23M	1-Sep 1-Mar	1,030,000.00	219,834.25 211,594.25
SRF - 2019 Series A \$35M (\$1,000,000.00 forgiveness)	1-Sep 1-Mar	1,486,285.71	339,629.51 327,962.17
SRF - 2019 Series B \$10M	1-Sep 1-Mar	449,000.00	79,626.20 76,707.70
SRF - 2021 \$45M (\$1,000,000.00 forgiveness)	1-Sep 1-Mar		65,387.06 383,856.25
2008 Series A Refunding (\$66M)	1-Sep 1-Mar	2,500,000.00	635,074.25 606,449.25
\$34.970M 2013 Series C	1-Sep 1-Mar	2,785,000.00	123,750.00 54,125.00
\$40.085M 2015 Series A	1-Aug 1-Feb		64,300.00 64,300.00
\$196.36M 2020 Series A	1-Sep 1-Mar	2,445,000.00	2,214,311.15 2,196,707.15
<b>Total</b>		<b>\$ 31,344,795.07</b>	<b>\$ 12,209,545.22</b>

Narragansett Bay Commission  
 SRF Debt Service Payment Schedule

	SRF Series 2003 PL7 - \$40M		SRF 2004 Series B PL 8 - \$40M		SRF 2005 Series B PL 9 - \$30M	
	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST
FY 2023	\$ 2,295,000.00	\$ 127,550.95	\$ 2,297,000.00	\$ 95,866.98	\$ 1,686,000.00	\$ 87,689.79
FY 2024	2,344,000.00	77,447.30	2,342,000.00	49,358.75	1,720,000.00	49,372.71
FY 2025	2,397,000.00	26,007.45	1,266,000.00	12,881.55	1,755,000.00	18,332.50
FY 2026					1,793,000.00	4,482.50
FY 2027						
FY 2028						
FY 2029						
FY 2030						
FY 2031						
FY 2032						
FY 2033						
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FY 2046						
<b>TOTAL</b>	<b>\$ 7,036,000.00</b>	<b>\$ 231,005.70</b>	<b>\$ 5,905,000.00</b>	<b>\$ 158,107.28</b>	<b>\$ 6,954,000.00</b>	<b>\$ 159,877.50</b>
	<b>\$7,267,005.70</b>		<b>\$6,063,107.28</b>		<b>\$7,113,877.50</b>	

Narragansett Bay Commission  
 SRF Debt Service Payment Schedule

	SRF 2006 Series A PL 10 - \$30M		SRF 2007 Series B PL 11 - \$25M		SRF 2009 Series A PL 12 - \$55M(\$8. M Forgiveness)	
	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST
FY 2023	\$ 1,642,000.00	\$ 109,220.80	\$ 1,440,000.00	\$ 119,662.46	\$ 2,814,608.97	\$ 733,329.23
FY 2024	1,672,000.00	80,737.56	1,469,000.00	89,771.03	2,893,570.85	651,979.07
FY 2025	1,703,000.00	47,749.48	1,500,000.00	58,966.10	2,978,476.11	566,054.78
FY 2026	1,734,000.00	19,222.64	1,531,000.00	33,634.30	3,065,928.51	475,287.16
FY 2027	1,770,000.00	4,425.00	1,563,000.00	20,032.50	3,157,626.18	381,028.48
FY 2028			1,596,000.00	12,135.00	3,252,720.06	283,426.29
FY 2029			1,629,000.00	4,072.50	3,354,606.35	162,289.30
FY 2030					3,459,039.80	54,506.63
FY 2031		-		-	3,609,322.07	9,023.30
FY 2032						
FY 2033						
FY 2034						
FY 2035						
FY 2036						
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FY 2044						
FY 2045						
FY 2046						
<b>TOTAL</b>	<b>\$ 8,521,000.00</b>	<b>\$ 261,355.48</b>	<b>\$ 10,728,000.00</b>	<b>\$ 338,273.89</b>	<b>\$ 28,585,898.90</b>	<b>\$ 3,316,924.24</b>
	<b>\$8,782,355.48</b>		<b>\$11,066,273.89</b>		<b>\$31,902,823.14</b>	



Narragansett Bay Commission  
 SRF Debt Service Payment Schedule

	SRF 2010 Series A PL 12 - \$2M (\$301,895 Forgiveness)		SRF 2010 Series B PL 13 - \$20M		SRF 2011 Series A POOL LOAN 14 - \$30M(\$1,845,345.21 Forgive)	
	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST
	FY 2023	\$ 89,150.51	\$ 19,466.28	\$ 1,009,000.00	\$ 304,139.18	\$ 1,372,070.18
FY 2024	91,697.67	16,953.24	1,041,000.00	271,536.17	1,417,117.62	468,098.24
FY 2025	95,093.88	14,286.81	1,074,000.00	237,003.02	1,464,980.54	417,862.13
FY 2026	97,641.04	11,451.42	1,110,000.00	200,578.51	1,517,535.90	364,239.56
FY 2027	101,037.25	8,473.92	1,147,000.00	162,261.32	1,571,968.23	307,303.18
FY 2028	104,433.46	5,238.74	1,187,000.00	122,053.17	1,632,031.49	247,222.18
FY 2029	108,678.72	2,041.27	1,228,000.00	79,907.32	1,692,094.75	184,224.01
FY 2030	112,923.96	282.31	1,272,000.00	36,032.32	1,756,850.46	118,258.09
FY 2031			1,315,000.00	6,854.36	1,824,421.63	49,132.78
FY 2032					1,893,869.77	6,869.50
FY 2033						
FY 2034						
FY 2035						
FY 2036						
FY 2037						
FY 2038						
FY 2039						
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FY 2042						
FY 2043						
FY 2044						
FY 2045						
FY 2046						
<b>TOTAL</b>	<b>\$ 800,656.49</b>	<b>\$ 78,193.99</b>	<b>\$ 10,383,000.00</b>	<b>\$ 1,420,365.37</b>	<b>\$ 16,142,940.57</b>	<b>\$ 2,678,111.17</b>
	<b>\$878,850.48</b>		<b>\$11,803,365.37</b>		<b>\$18,821,051.74</b>	

Narragansett Bay Commission  
SRF Debt Service Payment Schedule

	SRF 2012 Series A		SRF 2013 Series B		SRF 2014 Series A	
	PL 15 - \$25,750,000 (\$354,202 Forgive)		PL16 - \$25M (80,965 Forgiveness)		PL 17 - \$45,000,000	
	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST
FY 2023	\$ 1,215,517.90	\$ 432,510.39	\$ 1,166,185.61	\$ 438,230.84	\$ 2,041,000.00	\$ 947,848.95
FY 2024	1,244,101.66	401,749.44	1,191,113.64	412,577.14	2,088,000.00	897,971.30
FY 2025	1,276,685.41	367,959.49	1,218,041.67	383,534.70	2,140,000.00	843,088.30
FY 2026	1,312,165.11	331,641.10	1,247,969.70	351,648.79	2,198,000.00	783,643.20
FY 2027	1,348,644.81	293,389.22	1,280,825.76	316,992.79	2,259,000.00	719,322.00
FY 2028	1,389,124.51	254,314.65	1,316,753.80	279,904.25	2,327,000.00	649,710.75
FY 2029	1,428,500.15	214,300.45	1,355,609.86	240,680.51	2,398,000.00	575,630.40
FY 2030	1,469,875.79	170,722.36	1,396,465.92	200,161.30	2,475,000.00	497,159.70
FY 2031	1,514,251.43	125,388.04	1,436,321.98	158,587.15	2,555,000.00	414,276.45
FY 2032	1,559,627.07	77,860.32	1,480,178.04	115,346.75	2,640,000.00	327,119.70
FY 2033	1,610,931.94	26,258.19	1,523,034.10	70,370.43	2,730,000.00	235,820.70
FY 2034			1,565,965.02	23,724.38	2,823,000.00	142,699.35
FY 2035					2,917,000.00	48,130.50
FY 2036						
FY 2037						
FY 2038						
FY 2039						
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FY 2042						
FY 2043						
FY 2044						
FY 2045						
FY 2046						
<b>TOTAL</b>	<b>\$ 15,369,425.78</b>	<b>\$ 2,696,093.65</b>	<b>\$ 16,178,465.10</b>	<b>\$ 2,991,759.03</b>	<b>\$ 31,591,000.00</b>	<b>\$ 7,082,421.30</b>
	<b>\$18,065,519.43</b>		<b>\$19,170,224.13</b>		<b>\$38,673,421.30</b>	

Narragansett Bay Commission  
SRF Debt Service Payment Schedule

	SRF 2015 Series B		SRF 2016 Series A		SRF 2019 Series A	
	PL18 - \$41,753,500 (\$512,070 Forgive)		PL 19 \$23M		PL 20 \$35M	
	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST
FY 2023	\$ 1,112,427.69	\$ 1,102,555.73	\$ 1,016,000.00	\$ 447,288.50	\$ 1,463,942.86	\$ 690,458.19
FY 2024	1,135,907.92	1,078,379.08	1,030,000.00	431,428.50	1,486,285.71	667,591.68
FY 2025	1,161,284.21	1,052,472.53	1,047,000.00	414,289.00	1,509,600.00	643,772.06
FY 2026	1,187,660.49	1,023,975.08	1,065,000.00	395,857.75	1,533,885.71	618,811.83
FY 2027	1,218,932.83	992,193.97	1,084,000.00	374,998.20	1,559,142.86	592,517.30
FY 2028	1,251,205.16	957,663.31	1,107,000.00	351,105.96	1,586,342.86	564,753.63
FY 2029	1,287,373.54	920,717.96	1,132,000.00	324,957.50	1,614,514.29	535,461.55
FY 2030	1,325,541.92	881,450.32	1,159,000.00	296,943.95	1,644,628.57	504,493.66
FY 2031	1,365,606.35	840,000.63	1,188,000.00	267,367.40	1,676,685.71	470,684.06
FY 2032	1,408,566.82	796,439.67	1,218,000.00	236,325.50	1,712,628.57	433,217.76
FY 2033	1,453,527.30	750,784.77	1,250,000.00	203,868.10	1,751,485.71	392,415.18
FY 2034	1,499,487.77	704,138.62	1,283,000.00	170,049.25	1,794,228.57	348,704.63
FY 2035	1,546,448.22	656,619.67	1,317,000.00	134,815.85	1,838,914.29	302,373.13
FY 2036	1,631,000.00	606,729.51	1,353,000.00	98,099.75	1,886,514.29	253,374.23
FY 2037	1,683,000.00	552,598.56	1,390,000.00	59,900.70	1,937,028.57	201,748.82
FY 2038	1,739,000.00	494,853.71	1,429,000.00	20,220.35	1,990,457.14	147,541.51
FY 2039	1,798,000.00	435,345.16			2,045,828.57	90,621.57
FY 2040	1,859,000.00	374,000.51			2,105,085.72	30,734.25
FY 2041	1,921,000.00	310,685.51				
FY 2042	1,986,000.00	245,342.56				
FY 2043	2,052,000.00	177,907.96				
FY 2044	2,121,000.00	108,324.91				
FY 2045	2,192,500.00	36,505.13				
FY 2046						
<b>TOTAL</b>	<b>\$ 35,936,470.22</b>	<b>\$ 15,099,684.86</b>	<b>\$ 19,068,000.00</b>	<b>\$ 4,227,516.26</b>	<b>\$ 31,137,200.00</b>	<b>\$ 7,489,275.04</b>
	<b>\$51,036,155.08</b>		<b>\$23,295,516.26</b>		<b>\$38,626,475.04</b>	

Narragansett Bay Commission  
 SRF Debt Service Payment Schedule

	SRF 2019 Series B PL 21 \$10M		SRF 2021 PL 22 \$45M (1,000,000 Forgive)	
	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST
FY 2023	\$ 443,000.00	\$ 162,065.45	\$ -	\$ 53,932.61
FY 2024	449,000.00	156,333.90	-	449,243.31
FY 2025	454,000.00	150,396.30	-	767,712.50
FY 2026	461,000.00	144,196.30	-	767,712.50
FY 2027	467,000.00	137,699.70	-	767,712.50
FY 2028	474,000.00	130,900.10	-	767,712.50
FY 2029	480,000.00	123,768.20	-	767,712.50
FY 2030	488,000.00	116,265.00	1,892,000.00	757,211.90
FY 2031	495,000.00	108,152.80	2,053,333.33	734,493.97
FY 2032	504,000.00	99,259.00	3,642,222.22	699,330.64
FY 2033	513,000.00	89,646.10	3,872,000.00	648,119.04
FY 2034	523,000.00	79,413.85	210,222.22	618,161.14
FY 2035	534,000.00	68,630.80	7,484,888.89	551,724.55
FY 2036	545,000.00	57,326.90	3,867,111.11	451,789.55
FY 2037	556,000.00	45,517.30	3,241,333.33	385,806.17
FY 2038	568,000.00	33,179.90	8,408,888.89	272,185.95
FY 2039	581,000.00	20,309.80	9,328,000.01	94,679.20
FY 2040	595,000.00	6,872.25		-
FY 2041				
FY 2042				
FY 2043				
FY 2044				
FY 2045				
FY 2046				
<b>TOTAL</b>	<b>\$ 9,130,000.00</b>	<b>\$ 1,729,933.65</b>	<b>\$ 44,000,000.00</b>	<b>\$ 9,555,240.53</b>
	<b>\$10,859,933.65</b>		<b>\$53,555,240.53</b>	

Narragansett Bay Commission  
 Open Market Debt Service Payment Schedule

	\$66M 2008 Series A Refunding		\$34.970M 2013 Series C		\$40.085M 2015 Series A		\$196.36 M 2020 Series A	
	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST
FY 2023	\$ 1,000,000.00	\$ 1,281,598.50	\$ 1,915,000.00	\$ 295,375.00		\$ 128,600.00	\$ 2,410,000.00	\$ 4,446,070.70
FY 2024	2,500,000.00	1,241,523.50	2,785,000.00	177,875.00		128,600.00	2,445,000.00	4,411,018.30
FY 2025	3,500,000.00	1,172,823.50	2,165,000.00	54,125.00		128,600.00	2,485,000.00	4,374,814.08
FY 2026	4,700,000.00	1,078,933.50				128,600.00	7,440,000.00	4,296,805.46
FY 2027	4,200,000.00	977,028.50				128,600.00	9,370,000.00	4,154,753.66
FY 2028	4,200,000.00	880,848.50			3,215,000.00	128,600.00	7,940,000.00	3,998,109.46
FY 2029	4,200,000.00	784,668.50					11,470,000.00	3,811,473.26
FY 2030	5,000,000.00	679,328.50					11,710,000.00	3,579,161.66
FY 2031	5,000,000.00	564,828.50					11,935,000.00	3,334,526.01
FY 2032	5,000,000.00	450,328.50					12,190,000.00	3,076,451.76
FY 2033	5,700,000.00	327,813.50					11,395,000.00	2,814,345.56
FY 2034	5,700,000.00	197,283.50					15,050,000.00	2,508,968.16
FY 2035	5,765,000.00	66,009.25					9,610,000.00	2,217,069.96
FY 2036							10,915,000.00	1,967,084.96
FY 2037							11,900,000.00	1,681,244.16
FY 2038							6,950,000.00	1,438,692.16
FY 2039							7,150,000.00	1,243,225.41
FY 2040							7,360,000.00	1,031,597.06
FY 2041							7,575,000.00	813,770.08
FY 2042							7,805,000.00	589,452.78
FY 2043							8,035,000.00	358,426.38
FY 2044							8,270,000.00	120,617.95
FY 2045								
FY 2046								
<b>TOTAL</b>	<b>\$ 56,465,000</b>	<b>\$ 9,703,016</b>	<b>\$ 6,865,000</b>	<b>\$ 527,375</b>	<b>\$ 3,215,000</b>	<b>\$ 771,600</b>	<b>\$ 191,410,000</b>	<b>\$ 56,267,679</b>

**Narragansett Bay Commission  
WIFIA Debt Service Payment Schedule**

	WIFIA 1 2020 Series B \$268.7M		WIFIA 2 2020 Series C \$190.6M		WIFIA 3 2022 Series A \$55M	
	<i>PRINCIPAL</i>	<i>INTEREST</i>	<i>PRINCIPAL</i>	<i>INTEREST</i>	<i>PRINCIPAL</i>	<i>INTEREST</i>
FY 2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
FY 2024	-	-	-	-	-	-
FY 2025	-	-	-	-	-	-
FY 2026	-	-	-	-	-	-
FY 2027	-	-	-	-	-	-
FY 2028	-	-	-	-	-	-
FY 2029	-	-	-	-	-	-
FY 2030	-	-	-	-	-	2,044,937.98
FY 2031	-	-	-	-	-	2,044,937.98
FY 2032	-	4,327,384.44	-	3,461,620.46	-	2,044,937.98
FY 2033	-	4,327,384.44	-	3,461,620.46	-	2,044,937.98
FY 2034	-	4,327,384.44	-	3,461,620.46	-	2,044,937.98
FY 2035	-	4,327,384.44	-	3,461,620.46	1,966,286.51	2,014,263.91
FY 2036	-	4,327,384.44	-	3,461,620.46	2,031,829.40	1,951,893.30
FY 2037	-	4,327,384.44	-	3,461,620.46	2,097,372.28	1,887,477.75
FY 2038	-	4,327,384.44	-	3,461,620.46	2,097,372.28	1,822,039.74
FY 2039	243,796.31	4,325,653.49	-	3,461,620.46	2,162,915.16	1,755,579.26
FY 2040	36,051,378.76	4,067,957.75	-	3,461,620.46	458,800.19	1,714,680.50
FY 2041	38,458,867.28	3,538,935.00	-	3,461,620.46	65,542.89	1,706,500.75
FY 2042	39,586,425.20	2,984,813.42	-	3,461,620.46	2,228,458.05	1,670,714.33
FY 2043	40,744,457.65	2,414,464.15	-	3,461,620.46	524,343.07	1,627,770.63
FY 2044	41,963,439.18	1,827,238.08	-	3,461,620.46	2,294,000.93	1,583,804.47
FY 2045	51,745,765.96	1,161,902.73	-	3,461,620.46	589,885.96	1,538,815.83
FY 2046	55,250,337.86	402,230.40	1,016,851.01	3,453,485.65	2,097,372.28	1,496,894.60
FY 2047	700,914.35	4,976.50	5,711,673.73	3,399,657.45	2,425,086.70	1,426,344.24
FY 2048	-	-	-	3,353,964.06	2,490,629.58	1,349,659.06
FY 2049	-	-	-	3,353,964.06	2,556,172.47	1,270,928.95
FY 2050	-	-	3,851,052.75	3,323,155.64	2,621,715.35	1,190,153.90
FY 2051	-	-	19,385,074.48	3,137,266.62	2,687,258.23	1,107,333.91
FY 2052	-	-	21,180,790.08	2,812,739.70	2,752,801.12	1,022,468.99
FY 2053	-	-	21,440,411.61	2,471,770.09	2,818,344.00	935,559.13
FY 2054	-	-	21,678,398.02	2,126,819.61	2,883,886.88	846,604.33
FY 2055	-	-	21,959,654.68	1,777,715.18	2,949,429.77	755,604.59
FY 2056	-	-	22,219,276.21	1,424,283.74	3,014,972.65	662,559.91
FY 2057	-	-	22,478,897.75	1,066,698.35	3,080,515.53	567,470.30
FY 2058	-	-	22,760,154.41	704,785.93	3,146,058.42	470,335.74
FY 2059	-	-	22,976,505.68	338,892.65	3,277,144.19	370,133.77
FY 2060	-	-	9,692,537.17	77,540.30	3,342,687.07	266,864.41
FY 2061	-	-	-	-	3,408,229.95	161,550.11
FY 2062	-	-	-	-	3,473,772.70	54,190.86
<b>TOTAL</b>	<b>\$ 304,745,382.55</b>	<b>\$ 51,019,862.60</b>	<b>\$ 216,351,277.58</b>	<b>\$ 81,285,425.47</b>	<b>\$ 65,542,883.61</b>	<b>\$ 43,452,887.17</b>

Section 5.9.A.5

**Narragansett Bay Commission  
Long Term Debt**

Narragansett Bay Commission Clean Water Revenue Bonds, 2003 Series, issued on November 13, 2003 in the amount of \$40,000,000, at an interest rate of 1.849%, maturing September 1, 2024.

Narragansett Bay Commission Wastewater System Revenue Bonds, 2004 Series B, issued on December 30, 2004 in the amount of \$40,000,000, at an interest rate of 1.904%, maturing September 1, 2024.

Narragansett Bay Commission Wastewater System Revenue Bonds, 2005 Series B, issued on December 15, 2005 in the amount of \$30,000,000, at an interest rate of 1.897%, maturing September 1, 2025.

Narragansett Bay Commission Wastewater System Revenue Bonds, 2006 Series A, issued on December 21, 2006 in the amount of \$30,000,000, at an interest rate of 1.802%, maturing September 1, 2026.

Narragansett Bay Commission Wastewater System Revenue Bonds, 2007 Series B, issued on December 13, 2007 in the amount of \$25,000,000, at an interest rate of 2.029%, maturing September 1, 2028.

Narragansett Bay Commission Wastewater System Revenue Bonds, 2009 Series A, issued on October 6, 2009 in the amount \$55,000,000, at an interest rate of 1.377%, and maturing September 1, 2030, with principal forgiveness of \$8,302,114.

Narragansett Bay Commission Wastewater System Revenue Bonds, 2010 Series A, issued on February 12, 2010 in the amount of \$2,000,000, at an interest rate of 1.022%, and maturing September 1, 2029, with principal forgiveness of \$301,895.

Narragansett Bay Commission Wastewater System Revenue Bonds, 2010 Series B, issued on June 24, 2010 in the amount of \$20,000,000, at an interest rate of 3.163%, maturing September 1, 2030.

Narragansett Bay Commission Wastewater System Revenue Bonds, 2011 Series A, issued on March 29, 2011 in the amount of \$30,000,000, at an interest rate of 2.759%, and maturing September 1, 2031, with principal forgiveness of \$1,845,345.

Narragansett Bay Commission Wastewater System Revenue Bonds, 2012 Series A, issued on June 28, 2012 in the amount of \$25,750,000, at an interest rate of 2.588%, and maturing September 1, 2032, with principal forgiveness of \$354,202.

Narragansett Bay Commission Wastewater System Revenue Bonds, 2013 Series B, issued on June 6, 2013 in the amount \$25,000,000, at an interest rate of 2.592%, and maturing September 1, 2033, with principal forgiveness of \$80,966.

Narragansett Bay Commission Wastewater System Revenue Bonds, 2014 Series A, issued on March 6, 2014 in the amount \$45,000,000, at an interest rate of 2.967%, maturing September 1, 2034.

Narragansett Bay Commission Wastewater System Revenue Bonds, 2015 Series B, issued on July 30, 2015 in the amount of \$41,753,500, at an interest rate of 3.049%, and maturing September 1, 2044, with principal forgiveness of \$512,070.

Section 5.9.A.5

**Narragansett Bay Commission  
Long Term Debt**

Narragansett Bay Commission Wastewater System Revenue Bonds, 2016 Series A, issued on June 2, 2016 in the amount of \$23,000,000, at an interest rate of 2.467%, maturing September 1, 2037.

Narragansett Bay Commission Wastewater System Revenue Bonds, 2019 Series A, issued on April 4, 2019 in the amount of \$35,000,000, at an interest rate of 2.300%, and maturing September 1, 2039, with principal forgiveness of \$1,000,000.

Narragansett Bay Commission Wastewater System Revenue Bonds, 2019 Series B, issued on April 4, 2019 in the amount of \$10,000,000, at an interest rate of 1.910%, maturing September 1, 2039.

Narragansett Bay Commission Wastewater System Revenue Bonds, 2021 Series A, issued on November 16, 2021 in the amount of \$45,000,000, at an interest rate of 1.803%, maturing September 1, 2038 with principal forgiveness of \$1,000,000.

Narragansett Bay Commission Wastewater System Revenue Refunding Bonds, 2008 Series A, at an interest rate of 2.290% issued on July 17, 2008 in the amount of \$56,465,000 and maturing September 1, 2034.

Narragansett Bay Commission Wastewater System Revenue Bonds, 2013 Series C, issued on December 12, 2013 in the amount of \$34,970,000, at an interest rate of 4.133%, maturing September 1, 2024 (plus unamortized premium at June 30, 2022 of \$195,225). Partially refunded in FY 2020.

Narragansett Bay Commission Wastewater System Refunding Revenue Bonds, 2015 Series A, issued on May 5, 2015 in the amount of \$40,085,000, at an interest rate of 3.798%, maturing February 1, 2028 (plus unamortized premium at June 30, 2022 of \$262,805). Partially refunded FY 2020.

Narragansett Bay Commission Wastewater System, Refunding Revenue Bonds (federally taxable) 2020 Series A, issued on March 19, 2020 in the amount of \$196,360,000 at an interest rate of 2.516% maturing on September 1, 2043.

Narragansett Bay Commission Wastewater System Revenue Bonds, 2020 Series B, taxable interest bonds originally issued on August 27, 2019 with a rate reset on October 26, 2020 in the amount of \$268,710,610 at a rate of 1.42% and maturing September 1, 2046.

Narragansett Bay Commission Wastewater System Revenue Bonds, 2020 Series C, taxable interest bonds issued on October 26, 2020 in the amount of \$190,633,824 at a rate of 1.6% and maturing September 1, 2059.

Narragansett Bay Commission Wastewater System Revenue Bonds, 2022 Series A, taxable compound interest bonds issued on July 25, 2022 in the amount of \$55,499,228 at a rate of 3.12% and maturing September 1, 2061.



Section 5.9.A.7

Narraganset Bay Commission  
Leases

Payee	Property	Test Year FY 2022 Annually	Rate Year FY 2024 Annually
Diane Capwell	Coventry Turbine 3 Land Lease	\$ 54,000	\$ 54,000
Monique Capwell Irrevocable Trust	Coventry Turbine 4 Land Lease	54,000	54,000

Section 5.9.A.10

Narragansett Bay Commission  
 Personnel and Overtime Information

Test Year	Number of Employees 7/1/2021	Number of Employees 6/30/2022
FY 2022	264	262

Rate Year	Projected Number of Employees
FY 2024	264

Fiscal Year	Overtime Amount
2022	\$ 921,399
2021	737,566
2020	722,854

**NARRAGANSETT BAY COMMISSION***Statement of Net Position**June 30, 2022*

<b>Assets</b>	
<b>Current assets</b>	
Accounts receivable	
Sewer use (net of allowance)	\$ 13,115,084
Sewer use unbilled	6,659,090
Receivables, RIIB	1,000,000
Receivables, WIFIA	297,271,571
Receivables, other	18,724
Prepaid expenses	305,336
<b>Total current assets</b>	<b>318,369,805</b>
<b>Non-current assets</b>	
<b>Restricted assets</b>	
Cash and cash equivalents, restricted	94,826,129
<b>Total restricted assets</b>	<b>94,826,129</b>
<b>Capital assets</b>	
Land	2,754,407
Plant and equipment	111,524,562
Capital projects completed	1,005,551,311
Leased land	2,344,137
Construction in progress	460,672,822
<b>Subtotal</b>	<b>1,582,847,239</b>
Less: accumulated depreciation and amortization	293,019,724
<b>Total net capital assets</b>	<b>1,289,827,515</b>
<b>Other assets</b>	
Net pension asset - Non-Union Defined Benefit Plan	2,183,820
<b>Total non-current assets</b>	<b>1,386,837,464</b>
<b>Total assets</b>	<b>1,705,207,269</b>
<b>Deferred outflows of resources</b>	
Loss on refunding of debt, net	5,037,851
Pension related outflows, net	6,575,386
OPEB related outflows, net	636,732
Asset retirement obligation, net	427,500
<b>Total deferred outflows of resources</b>	<b>\$ 12,677,469</b>

*(Continued)*

**NARRAGANSETT BAY COMMISSION**  
*Statement of Net Position (Continued)*  
June 30, 2022

<b>Liabilities</b>	
<b>Current liabilities</b>	
Accounts payable	2,113,423
Contracts payable	44,737,919
Accrued interest payable	4,292,117
Accrued expense	933,717
Current portion of the other accrued expense	236,682
Current portion of loans payable	23,102,904
Current portion of revenue bonds	5,325,000
Current poriton of lease liability	104,916
<b>Total current liabilities</b>	<u>80,846,678</u>
<b>Non-current liabilities</b>	
Other accrued expense, net	3,318,908
Net pension liability - ERSRI Pension Plan	14,631,376
Net OPEB liability	1,912,937
Loans payable, WIFIA	461,271,187
Loans payable, net	273,791,419
Revenue bond, net	253,088,030
Lease liability, net	2,133,938
Asset retirement obligation	450,000
<b>Total non-current liabilities</b>	<u>1,010,597,795</u>
<b>Total liabilities</b>	<u>1,091,444,473</u>
<b>Deferred inflows of resources</b>	
Gain on refunding debt, net	2,413,293
Pension related inflows, net	4,330,800
OPEB related inflows, net	1,732,034
<b>Total deferred inflows of resources</b>	<u>8,476,127</u>
<b>Net position</b>	
Net investment in capital assets	527,168,331
Restricted - environmental enforcement fund	59,508
Restricted - bond covenants	67,265,617
Restricted - debt service reserve fund	2,967,686
Restricted - operating reserve for revenue stability fund	4,507,306
Restricted - operating capital	11,539,532
Unrestricted	4,456,158
<b>Total net position</b>	<u><u>\$ 617,964,138</u></u>

Notes to the financial statements are an integral part of this statement.

**NARRAGANSETT BAY COMMISSION**  
*Statement of Revenue, Expense and Changes in Net Position*  
For the Year Ended June 30, 2022

<b>Operating revenue</b>	
User fees, residential	\$ 59,654,921
User fees, commercial and industrial	42,477,311
Connection fees/capacity charges	269,660
Pretreatment fees	61,280
Septage income	372,346
Renewable energy credits	648,148
Miscellaneous revenue	190,785
Late charge penalties	358,415
<b>Total operating revenue</b>	<u>104,032,866</u>
<b>Operating expense</b>	
Personnel services	23,988,962
Operating supplies/expense	17,218,133
Professional services	1,738,671
Depreciation and amortization	22,223,491
<b>Total operating expense</b>	<u>65,169,257</u>
<b>Operating income</b>	<u>38,863,609</u>
<b>Non-operating revenue (expense)</b>	
Interest expense	(14,450,782)
Interest income	132,830
Gain on sale of capital asset	10,241
Bond and note fees	(588,835)
Sewer tie-in revenue	2,384,273
Miscellaneous income	346,499
<b>Total non-operating revenue (expense)</b>	<u>(12,165,774)</u>
<b>Net income before capital contribution</b>	26,697,835
Capital Contribution	1,000,000
<b>Change in net position</b>	27,697,835
<b>Total net position, beginning of year</b>	<u>590,266,303</u>
<b>Total net position, end of year</b>	<u><u>\$ 617,964,138</u></u>

Notes to the financial statements are an integral part of this statement.