



NARRAGANSETT BAY COMMISSION

One Service Road, Providence, Rhode Island 02905

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GENERAL RATE FILING

October 10, 2018

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Chairman

Raymond J. Marshall, P.E.
Executive Director

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October 10, 2018

Margaret E. Curran, Chairperson
Rhode Island Public Utilities Commission
89 Jefferson Boulevard
Warwick, RI 02888

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

Dear Chairperson Curran:

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 would 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 Administrator of the Rhode Island Division of Public Utilities and Carriers and 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.

PUC General Rate Filing Checklist**Location/Title****Notice of Filing and Change In Rate Schedules Under Rule 1.9****TAB 1****Tariffs and Terms and Conditions Under Rule 2.5 Section (a)****TAB 2**

Tariffs - Existing

Tariffs - Marked-Up

Tariffs - Proposed

Terms and Conditions - Existing

Terms and Conditions - Marked-Up

Terms and Conditions - Proposed

Certificate of Service Under Rule 2.5 Section (d)**TAB 3****Attestation Under Rule 2.7****Harold J. Smith, Raftelis Financial Consultants Direct Testimony Under Rule 2.6****TAB 4****Harold J. Smith, Raftelis Financial Consultants Supporting Schedules Under Rule 2.6****TAB 5**

Test Year and Rate Year

HJS-1

Test Year Revenue by Source

HJS-2

Adjusted Test Year Revenue By Source

HJS-2A

Three Year History

HJS-3

Calculation of Collection Notice Posting, Real Estate Closing and Abatement Application Fees & Revenue

HJS-4

Test Year Pension Adjustment

HJS-5

Test Year Personnel Adjustment

HJS-6

Health Insurance - 52950

HJS-7

Trend Accounts

HJS-8

Average Accounts

HJS-9

Biosolids Disposal - 53480

HJS-10

Maintenance Contracts - 53630

HJS-11

Insurance - 53660

HJS-12

Workers' Compensation - 53680

HJS-13

Electricity - 54090

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Net Metering Credit 54091 & WED PPA - 54095

HJS-15

Adjustments Related to Renewable Energy O&M Expense

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Renewable Energy Credit Revenue - 42604, 42605, 42606

HJS-17

Calculation of Sewer Connection Application Costs

HJS-18

Natural Gas - 54060

HJS-19

Hypochlorite - 54332 and Bisulfite - 54337

HJS-20

Regulatory Expense - 52600

HJS-21

Operating Allowance

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Operating Capital Expense

HJS-23

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Billable Consumption

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Billable Customers

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User Charge Calculation

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Calculation of Pretreatment Permitting Costs

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Kathryn Kelly, P.E., Direct Testimony Under Rule 2.6**TAB 6****Kerry Britt, Direct Testimony Under Rule 2.6****TAB 7**

PUC General Rate Filing Checklist**Location/Title****Supporting Information Under Rule 2.9****TAB 8**

Section (e)	Sample of Actual Customer Billing	Customer Bill
Section (f)	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 Test Year
Section (f)	Debt Service Payment Schedule Open Market Debt Service Payment Schedule SRF Debt Service Payment Schedule	Debt Service
Section (f)	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
Section (g)	Schedule of lease payments for all property and equipment for the test and rate years	Lease Schedule
Section (j)	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
Section (l)	Balance Sheet, Income Statement and Statement of Changes for the Test Year	Statement of Net Position Statement of Revenue, Expense and Changes in Net Position
Section (o)	A summary of the status of compliance and reporting required by prior Commission orders	Compliance Reporting

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

PUBLIC UTILITIES COMMISSION

IN RE: NARRAGANSETT BAY COMMISSION
GENERAL RATE AND FILING OF October 10, 2018

NOTICE OF CHANGE IN RATE SCHEDULES

Pursuant to R.I.G.L. SECTION 39-3-11, and in accordance with Rule 1.9 and Part Two of the Rules of Practice and Procedure of the Rhode Island Public Utilities Commission ("Commission"), the Narragansett Bay Commission ("NBC") hereby gives notice of proposed changes in rates, which we previously filed and published in compliance with R.I.G.L., Section 39-3-10.

The proposed changes are contained in the accompanying Exhibits. The new residential and non-residential rates, as proposed, are to become effective July 1, 2019. The new rates are designed to collect revenue in a 12-month period equal to \$107,249,751.

- 1) NBC is a public corporation of the State of Rhode Island, created by chapter 25 of title 46 of the Rhode Island General Laws, and having a distinct legal existence separate from the State, NBC's principal address is Narragansett Bay Commission, One Service Road, Providence, RI 02905. Pursuant to the Chapter 25 of Title 46, NBC is authorized to do business within the State of Rhode Island.
- 2) Correspondence in accordance with Rule 1.9 (a)(2) should be addressed to Karen Giebink, Chief Financial Officer, Narragansett Bay Commission, One Service Road, Providence, RI, 02905 and Joseph A. Keough, Jr., Esquire, Legal Counsel, Keough & Sweeney, Ltd., 41 Mendon Avenue, Pawtucket, RI 02861.
- 3) In accordance with rule 1.9 and part Two of the Rules, the documents accompanying this filing contain data, information and testimony in support of NBC's application.

- 4) A copy of the materials herewith filed has been sent to the Administrator of the Rhode Island Division of Public Utilities and Carriers and the Attorney General for the State of Rhode Island.



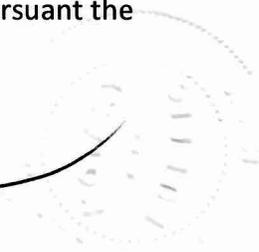
Karen L. Giebink
Chief Financial Officer
Narragansett Bay Commission

STATE OF RHODE ISLAND
COUNTY OF PROVIDENCE

Subscribed and sworn to before me on this the 10th day of October 2018, Pursuant the PUC Rule 1.9.



Notary Public



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
PUBLIC UTILITIES COMMISSION

IN RE: NARRAGANSETT BAY COMMISSION
DOCKET NO. X

NOTICE OF FILING AND CHANGE IN RATE SCHEDULES

Pursuant to R.I.G.L. SECTION 39-3-11, and in accordance with Rule 1.9 and Part Two of the Rules of Practice and Procedure of the Rhode Island Public Utilities Commission ("PUC"), the Narragansett Bay Commission ("NBC") hereby gives notice that on October 10 2018, it filed an application with the PUC to change its rates in Docket No. X.

The new rates, as proposed, are designed to generate additional revenue in the amount of \$6,388,424, or 6.33%, to support a total revenue requirement of \$107,249,751 for NBC. For an average residential customer, using 150 gallons of water per day, the request will result in an increase of \$26.63 in their annual bill from \$491.48 to \$518.11. The impact of the rate increase on all other customers will vary depending upon the customer's classification and consumption. This proposed total revenue requirement in Docket X includes the proposed revenue increase requested by NBC in PUC Docket No. X, a Debt Service Compliance Rate Filing, which is currently pending before the PUC, and if approved, will result in an across-the-board rate increase of 2.98%, which will result in an increase of \$14.21 annually to an average residential customer effective effect January 1, 2019.

The proposed new rates in Docket No. X are to become effective July 1, 2019. No rate changes will take effect until the PUC has conducted a full investigation and hearing on the proposal. The PUC will publish a notice of the hearing dates when they are scheduled. At that time, ratepayers may comment on the proposal. The PUC can approve rates and revenues that are different than those proposed by NBC after full investigations and hearings in both Docket No. X and this Docket No. X.

A copy of the application is on file at the NBC's main office at One Service Road, Providence, Rhode Island and at the offices of the Public Utilities Commission, 89 Jefferson Blvd., Warwick, Rhode Island and may be viewed during business hours. The application can also be accessed at www.ripuc.org. A copy of the filing was also provided to the Office of the Attorney General for the State of Rhode Island.

SCHEDULE A

EFFECTIVE: CUSTOMER CHARGE January 1, 2019
CONSUMPTION CHARGE January 1, 2019

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:**

\$ 225.32 per dwelling unit per year

CONSUMPTION CHARGE:

\$ 3.636 per hundred cubic feet of 100% of water used

RESIDENTIAL WELL CUSTOMERS:

\$ 514.78 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 1st, 2010 this category includes industrial laundries as defined by the EPA and categorized by the North American Industry Classification System (NAICCS) code 812332.

CUSTOMER CHARGE:**METER SIZE:****FIXED FEE**

5/8"	\$539
3/4"	\$805
1"	\$1,339
1 ½"	\$2,685
2"	\$4,288
3"	\$8,034
4"	\$13,387
6"	\$26,785
8"	\$42,855
10"	\$61,607

CONSUMPTION CHARGE:**NBC Service Area:**

\$ 3.390 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.

<u>CUSTOMER CHARGE:</u>	<u>METER SIZE:</u>	<u>FIXED FEE</u>
	5/8"	\$539
	3/4"	\$805
	1"	\$1,339
	1 1/2"	\$2,685
	2"	\$4,288
	3"	\$8,034
	4"	\$13,387
	6"	\$26,785
	8"	\$42,855
	10"	\$61,607

CONSUMPTION CHARGE:

NBC Service Area: \$ 5.273 per hundred cubic feet of 100% of water used.

BILLING

Residential - Fixed fees and consumption to be billed monthly.

Condominiums (residential) - Fixed fees and consumption bills to be rendered to property owners and/or associations monthly.

Industrial - Fixed fees and consumption to be billed monthly.

Commercial - Fixed fees and consumption to be billed monthly.

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.

SCHEDULE B**Miscellaneous Charges****EFFECTIVE:**

Pretreatment Annual Permit Fee:	June 30, 2003
New Sewer Connection Fee:	July 1, 2005
Septic Tank Waste Discharge Fee:	
A. Septic Tank Waste Discharge Fee:	May 6, 2005
B. Uniform Septage Disposal Fee:	April 1, 2008
Sewer Back-up Removal Fee:	March 24, 1995
Abatement Application Fee:	June 1, 2018
Credit Card Transaction Fee	On or after February 2, 2011
BOD/TSS Surcharge:	January 1, 2013
Abatement Meter Reading Fee:	June 1, 2018
Real Estate Closing Request Fee:	June 1, 2018

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

CAT #	User Classification	Annual Permit Fee
11	Electroplater/Metalfinisher	
	Flow < 2,500 GPD	\$1,811
	Flow ≥ 2,500 < 10,000 GPD	\$3,623
	Flow ≥ 10,000 GPD < 50,000	\$7,246
	Flow ≥ 50,000 GPD < 100,000 GPD	\$10,144
	Flow ≥ 100,000	\$10,869
12	Metal Molding and Casting	\$1,087
13	Organic Chemical Manufacturers	\$7,246
14	Other Categorical Industries	\$1,087
15	Metal Formers	\$5,797
21	Tubbing/Vibratory/Mass Finishing	
	Flow < 5,000 GPD	\$725
	Flow ≥ 5,000 GPD	\$1,449
22	Chemical Transporters, Refiners, Recyclers, Manufacturers	\$2,898
23	Textile Processing Firms	
	Flow < 2,500 GPD	\$1,449
	Flow ≥ 2,500 < 10,000 GPD	\$3,768
	Flow ≥ 10,000 < 50,000	\$5,072
	Flow ≥ 50,000 GPD	\$7,246

CAT #	User Classification	Annual Permit Fee
24	Printers	
	Gravure	\$3,623
	Other Flow \geq 2,500 GPD	\$1,087
	Other Flow < 2,500 GPD	\$725
25	Industrial Laundries	\$3,623
26	Machine Shops/Machinery Rebuilders	\$1,449
27	Other firms discharging toxics and/or prohibited pollutants	
	Flow \geq 10,000 GPD	\$2,898
	Flow \geq 2,500 GPD < 10,000 GPD	\$1,449
	Flow < 2,500 GPD	\$725
28	Central Treatment Facilities - Hazardous Waste	\$14,492
29	Central Treatment Facilities	\$4,348
	Non-Hazardous Waste	
34	Manufacturers with high BOD/TSS wastestreams	
	Flow \geq 100,000 GPD	\$5,797
	50,000 GPD \leq Flow < 100,000 GPD	\$3,623
	10,000 GPD \leq Flow < 50,000 GPD	\$1,811
	Flow < 10,000 GPD	\$1,087
35	Other facilities discharging conventional pollutants	
	Flow \geq 10,000 GPD	\$1,449
	Flow < 10,000 GPD	\$725
37	Automotive Maintenance/Service Facilities	
	Small \leq 2 Bays	\$435
	Large \geq 3 Bays	\$1,449
40	Groundwater Remediation/Excavation Projects	
	Flow \geq 10,000 GPD	\$1,449
	Flow < 10,000 GPD	\$725
41	Recycle or Disconnected Electroplating or Chemical Processes	\$725
42	Other Process Operations Disconnected or Recycled	\$290
43	Recycle or Disconnected Electroplating or Chemical Processes with Cooling Water or Boiler Discharges	\$870

CAT #	User Classification	Annual Permit Fee
44	Other Recycled or Disconnected Process Operations with Cooling Water or Boiler Discharges	\$362
46	Cooling Water with Solvent, Toxic and/or Hazardous Chemicals on Site	\$362
49	Other Discharges with Solvents, Toxics and/or Hazardous Chemicals on Site	
	Flow \geq 10,000 GPD	\$1,087
	Flow < 10,000 GPD	\$725
51	Cooling Water with No Solvents, Toxic or Hazardous Chemicals on Site	\$362
52	Boiler Blowdown/Condensate Discharges	\$362
53	Cooling Tower Discharges	\$362
59	Other Non-Toxic Industrial Discharges	
	Flow \geq 5,000 GPD	\$725
	Flow < 5,000 GPD	\$362
80	Septage Haulers/Dischargers	\$435
81	Food/Fish/Meat/Produce Processing (wholesale)	
	Flow < 1,000 GPD	\$362
	1,000 GPD \leq Flow < 10,000 GPD	\$725
	Flow \geq 10,000 GPD	\$1,449
82	Supermarkets (Retail Food Processing)	\$725
83	Parking Garages/Lots	\$725
84	Cooling Water/Groundwater/Boiler Discharges with Potential to Discharge Conventional Pollutants	\$362
85	Restaurants	
	< 50 seats	\$217
	\geq 50 seats < 100 seats	\$435
	>100 seats of fast food (2 or more fryolators and/or drive through window)	\$580
86	Commercial Buildings with Cafeteria and/or laundry operations	\$725
89	Other Commercial Facilities with Potential to Discharge Conventional Pollutants	
	< 2,500 GPD	\$362
	\geq 2,500 GPD	\$725

CAT #	User Classification	Annual Permit Fee
90	Hospitals	\$3,623
91	Cooling Water/Groundwater/Boiler Discharges with Potential to Discharge Toxic, Prohibited and/or Conventional Pollutants	\$362
92	Laundries/Dry Cleaners	
	Laundromats	\$725
	Dry Cleaners with 1 washer or less	\$362
	Dry Cleaners with ≥ 2 washers	\$725
93	Photo Processing	
	< 1,000 GPD	\$362
	1,000 GPD ≤ Flow < 2,500	\$725
	2,500 GPD - 5,000 GPD	\$1,087
	> 5,000 GPD	\$1,449
94	X-Ray Processing	
	≤ 2 processors	\$362
	3 - 4 processors	\$725
	5 - 9 processors	\$1,087
	≥ 10 processors	\$1,449
95	Clinical, Medical and Analytical Laboratories	\$725
96	Funeral Homes/Embalming Operations	\$362
97	Motor Vehicle Service/Washing Operations	
	rate per tunnel	\$725
	rate per bay	\$217
	maximum rate per facility	\$1,449
99	Other Commercial Users with Potential to Discharge Toxic, Prohibited and/or Conventional Pollutants	
	Flow < 2,500 GPD	\$362
	Flow ≥ 2,500 GPD	\$725

NOTE: All flow rates are based upon operating days.

2. New Sewer Connection Fee: Applicable to all applications for a new service connection directly or indirectly to NBC facilities. Payable at the time of application.

Residential	\$260	per connection
Commercial	\$779	per connection
Industrial	\$779	per connection

3. 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.

Charge: \$75.00 per incident

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

A. Charge: \$42 per thousand gallons

B. Uniform Septage Disposal fee: \$1.00 per hundred gallons

5. BOD/TSS Surcharge: (if applicable)

Charge: \$0 per 1,000 pounds of BOD with a concentration of >300 mg/l

Charge: \$0 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.

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

Charge: \$70.00

7. Credit Card Transaction Fee: For payments with credit cards NBC will charge a fee of 1.75% rounded up to the nearest \$0.50 of the user-selected amount, plus \$1.00.

8. 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.

Charge: \$35.00

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

Charge: \$30.00 per request

SCHEDULE A

EFFECTIVE: CUSTOMER CHARGE	January 1, 2019	July 1, 2019
CONSUMPTION CHARGE	January 1, 2019	July 1, 2019

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.

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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:**

~~\$ 225.32~~ per dwelling unit per year
\$ 237.53

CONSUMPTION CHARGE:

~~\$ 3.636~~ per hundred cubic feet of 100% of water used
\$ 3.833

RESIDENTIAL WELL CUSTOMERS:

~~\$ 514.78~~ Based upon fixed fee and average annual usage of 79.61 HCF
\$ 542.68

INDUSTRIAL

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

CUSTOMER CHARGE:**METER SIZE:****FIXED-FEE**

5/8"	\$539
3/4"	\$805
1"	\$1,339
1-1/2"	\$2,685
2"	\$4,288
3"	\$8,034
4"	\$13,387
6"	\$26,785
8"	\$42,855
10"	\$61,607

CONSUMPTION CHARGE:**NBC Service Area:****CONSUMPTION CHARGE:**

~~\$ 3.390~~ per hundred cubic feet of 100% of water used.
\$ 3.772

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.

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	5/8"	\$539
	3/4"	\$805
	1"	\$1,339
	1 1/2"	\$2,685
	2"	\$4,288
	3"	\$8,034
	4"	\$13,387
	6"	\$26,785
	8"	\$42,855
	10"	\$61,607

CONSUMPTION CHARGE:

NBC Service Area:

CONSUMPTION CHARGE:

~~\$ 5.273~~ per hundred cubic feet of 100% of water used.
\$ 5.758

INDUSTRIAL & COMMERCIAL CUSTOMER CHARGE:

<u>METER SIZE:</u>	<u>FIXED FEE</u>
5/8"	\$568
3/4"	\$849
1"	\$1,412
1 1/2"	\$2,831
2"	\$4,522
3"	\$8,473
4"	\$14,119
6"	\$28,248
8"	\$45,196
10"	\$64,971

BILLING

Residential - Fixed fees and consumption to be billed monthly.

Condominiums (residential) - Fixed fees and consumption bills to be rendered to property owners and/or associations monthly.

Industrial - Fixed fees and consumption to be billed monthly.

Commercial - Fixed fees and consumption to be billed monthly.

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.

SCHEDULE B

Miscellaneous Charges

EFFECTIVE:

Charge:	Effective:	Charge:	Effective:
Pretreatment Annual Permit Fee:	June 30, 2003	Abatement Application Fee:	June 1, 2018
Pretreatment Permit Application Fee:	July 1, 2019	Credit Card Transaction Fee:	On or after February 2, 2011
New Sewer Connection Fee:	July 1, 2005	BOD/TSS Surcharge:	January 1, 2013
Sewer Connection Permit Application Fee:	July 1, 2019	Abatement Meter Reading Fee:	June 1, 2018
Capacity Charge:	July 1, 2019	Real Estate Closing Request Fee:	June 1, 2018
Septic Tank Waste Discharge Fee:		Collection Notice Posting Fee:	July 1, 2019
A. Septic Tank Waste Discharge Fee:	May 6, 2005		
B. Uniform Septage Disposal Fee:	April 1, 2008		
Sewer Back-up Removal Fee:	March 24, 1995		

~~1. Pretreatment Annual Permit Fee:~~ Applicable to all users regulated under R.I.G.L. 46-25-25 and the NBC's Rules and Regulations.
~~Pretreatment Permit Application Fee:~~ Applicable to all users regulated under R.I.G.L. 46-25-25 and the NBC's Rules and Regulations.

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

CAT	User Classification	Annual Permit Fee
11	Electroplater/Metalfinisher	
	Flow < 2,500 GPD	\$1,811
	Flow ≥ 2,500 < 10,000 GPD	\$3,623
	Flow ≥ 10,000 GPD < 50,000	\$7,246
	Flow ≥ 50,000 GPD < 100,000 GPD	\$10,144
	Flow ≥ 100,000	\$10,869
12	Metal Molding and Casting	\$1,087
13	Organic Chemical Manufacturers	\$7,246
14	Other Categorical Industries	\$1,087
15	Metal Formers	\$5,797
21	Tubbing/Vibratory/Mass Finishing	
	Flow < 5,000 GPD	\$725
	Flow ≥ 5,000 GPD	\$1,449
22	Chemical Transporters, Refiners, Recyclers, Manufacturers	\$2,898
23	Textile Processing Firms	
	Flow < 2,500 GPD	\$1,449
	Flow ≥ 2,500 < 10,000 GPD	\$3,768
	Flow ≥ 10,000 < 50,000	\$5,072
	Flow ≥ 50,000 GPD	\$7,246
24	Printers	
	Gravure	\$3,623
	Other Flow ≥ 2,500 GPD	\$1,087
	Other Flow < 2,500 GPD	\$725
25	Industrial Laundries	\$3,623
26	Machine Shops/Machinery Rebuilders	\$1,449
27	Other firms discharging toxics and/or prohibited pollutants	
	Flow ≥ 10,000 GPD	\$2,898
	Flow ≥ 2,500 GPD < 10,000 GPD	\$1,449
	Flow < 2,500 GPD	\$725
28	Central Treatment Facilities—Hazardous Waste	\$14,492
29	Central Treatment Facilities Non-Hazardous Waste	\$4,348

CAT-#	User Classification	Annual Permit Fee
34	Manufacturers with high BOD/TSS wastestreams	
	Flow \geq 100,000-GPD	\$5,797
	50,000-GPD \leq Flow < 100,000-GPD	\$3,623
	10,000-GPD \leq Flow < 50,000-GPD	\$1,811
	Flow < 10,000-GPD	\$1,087
35	Other facilities discharging conventional pollutants	
	Flow \geq 10,000-GPD	\$1,449
	Flow < 10,000-GPD	\$725
37	Automotive Maintenance/Service Facilities	
	Small \leq 2-Bays	\$435
	Large \geq 3-Bays	\$1,449
40	Groundwater Remediation/Excavation Projects	
	Flow \geq 10,000-GPD	\$1,449
	Flow < 10,000-GPD	\$725
41	Recycle or Disconnected Electroplating or Chemical Processes	\$725
42	Other Process Operations Disconnected or Recycled	\$290
43	Recycle or Disconnected Electroplating or Chemical Processes with Cooling Water or Boiler Discharges	\$870
44	Other Recycled or Disconnected Process Operations with Cooling Water or Boiler Discharges	\$362
46	Cooling Water with Solvent, Toxic and/or Hazardous Chemicals on Site	\$362
49	Other Discharges with Solvents, Toxics and/or Hazardous Chemicals on Site	
	Flow \geq 10,000-GPD	\$1,087
	Flow < 10,000-GPD	\$725
51	Cooling Water with No Solvents, Toxic or Hazardous Chemicals on Site	\$362
52	Boiler Blowdown/Condensate Discharges	\$362
53	Cooling Tower Discharges	\$362
59	Other Non-Toxic Industrial Discharges	
	Flow \geq 5,000-GPD	\$725
	Flow < 5,000-GPD	\$362
80	Septage Haulers/Dischargers	\$435
81	Food/Fish/Meat/Produce Processing (wholesale)	
	Flow < 1,000-GPD	\$362
	1,000-GPD \leq Flow < 10,000-GPD	\$725
	Flow \geq 10,000-GPD	\$1,449

CAT-#	User Classification	Annual Permit Fee
82	Supermarkets (Retail Food-Processing)	\$725
83	Parking Garages/Lots	\$725
84	Cooling- Water/Groundwater/Boiler- Discharges-with Potential-to- Discharge Conventional Pollutants	\$362
85	Restaurants	
	<50-seats	\$217
	≥ 50-seats < 100-seats	\$425
	>100-seats-of fast food (2-or-more- fryolators-and/or drive-through- window)	\$580
86	Commercial Buildings-with- Cafeteria-and/or-laundry- operations	\$725
89	Other Commercial Facilities-with- Potential-to-Discharge- Conventional Pollutants	
	<2,500-GPD	\$362
	≥ 2,500-GPD	\$725
90	Hospitals	\$3,623
91	Cooling- Water/Groundwater/Boiler- Discharges-with Potential-to- Discharge Toxic, Prohibited- and/or Conventional Pollutants	\$362
92	Laundries/Dry Cleaners	
	Laundromats	\$725
	Dry Cleaners with 1-washer-or-less	\$362
	Dry Cleaners with ≥ 2-washers	\$725
93	Photo-Processing	
	<1,000-GPD	\$362
	1,000-GPD ≤ Flow < 2,500	\$725
	2,500-GPD – 5,000-GPD	\$1,087
	>5,000-GPD	\$1,449
94	X-Ray-Processing	
	≤ 2-processors	\$362
	3 – 4-processors	\$725
	5 – 9-processors	\$1,087
	≥ 10-processors	\$1,449
95	Clinical, Medical and Analytical- Laboratories	\$725
96	Funeral Homes/Embalming- Operations	\$362
97	Motor-Vehicle-Service/Washing- Operations	
	rate-per-tunnel	\$725
	rate-per-bay	\$217
	maximum-rate-per-facility	\$1,449
99	Other Commercial Users-with- Potential-to-Discharge-Toxic- Prohibited-and/or-Conventional- Pollutants	
	Flow < 2,500-GPD	\$362
	Flow ≥ 2,500-GPD	\$725

~~NOTE: All flow rates are based upon operating days.~~

~~2. New Sewer Connection Fee:~~ Applicable to all applications for a new service connection directly or indirectly to NBC facilities. Payable at the time

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

Residential		\$260	per connection
Commercial		\$779	per connection
Industrial		\$779	per connection
		<u>Fee</u>	
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.

<u>Meter Size</u>	<u>Fee</u>
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

~~3. 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

~~Charge:~~ \$75.00 per incident
~~Fee:~~

~~4. Septic Tank Waste Discharge Fee:~~ Applicable to all discharges of septic tank waste into the NBC system.

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

~~5. BOD/TSS Surcharge:~~ (if applicable)

~~Charge:~~ \$0 per 1,000 pounds of BOD with a concentration c
~~Charge:~~ \$0 per 1,000 pounds of TSS with a concentration of

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

~~6. Abatement Application Fee:~~ Applicable to all applicants who request an abatement to sewer user fees charged. Payable at the time of application.

~~Charge:~~ \$70.00
~~Fee:~~

~~7. Credit Card Transaction Fee:~~ For payments with credit cards NBC will charge a fee of 1.75% rounded up to the nearest \$0.50 of the user-selected amount, plus \$1.00.

~~8. 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.

~~Charge:~~ \$35.00
~~Fee:~~

~~9. Real Estate Closing Request Fee:~~ Applicable to all parties that submit a real estate closing or refinance request.

~~Charge:~~ \$30.00 per request
~~Fee:~~

~~9. Collection Posting Notice Fee:~~ Fee assessed to property owner for water termination and lien sale postings.

~~Fee:~~ \$50.00 per posting

SCHEDULE A

EFFECTIVE: CUSTOMER CHARGE July 1, 2019
CONSUMPTION CHARGE July 1, 2019

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:**

\$ 237.53 per dwelling unit per year

CONSUMPTION CHARGE:

\$ 3.833 per hundred cubic feet of 100% of water used

RESIDENTIAL WELL CUSTOMERS:

\$ 542.68 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 1st, 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:**

\$ 3.772 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:**

\$ 5.758 per hundred cubic feet of 100% of water used.

INDUSTRIAL & COMMERCIAL CUSTOMER CHARGE:

<u>METER SIZE:</u>	<u>FIXED FEE</u>
5/8"	\$568
3/4"	\$849
1"	\$1,412
1 1/2"	\$2,831
2"	\$4,522
3"	\$8,473
4"	\$14,119
6"	\$28,248
8"	\$45,196
10"	\$64,971

BILLING

Residential - Fixed fees and consumption to be billed monthly.

Condominiums (residential) - Fixed fees and consumption bills to be rendered to property owners and/or associations monthly.

Industrial - Fixed fees and consumption to be billed monthly.

Commercial - Fixed fees and consumption to be billed monthly.

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.

SCHEDULE B**Miscellaneous Charges**

Charge:	Effective:	Charge:	Effective:
Pretreatment Permit Application Fee:	July 1, 2019	Abatement Application Fee:	June 1, 2018
Sewer Connection Permit Application Fee:	July 1, 2019	Credit Card Transaction Fee	On or after February 2, 2011
Capacity Charge:	July 1, 2019	BOD/TSS Surcharge:	January 1, 2013
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	Collection Notice Posting Fee:	July 1, 2019
Sewer Back-up Removal Fee:	March 24, 1995		

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

	<u>Fee</u>
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.

	<u>Fee</u>
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.

<u>Meter Size</u>	<u>Fee</u>
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

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.

Fee: \$75.00 per incident

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

A. Charge: \$42 per thousand gallons

B. Uniform Septage Disposal fee: \$1.00 per hundred gallons

BOD/TSS Surcharge: (if applicable)

Charge: \$0 per 1,000 pounds of BOD with a concentration of >300 mg/l

Charge: \$0 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.

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

Fee: \$70.00

Credit Card Transaction Fee: For payments with credit cards NBC will charge a fee of 1.75% rounded up to the nearest \$0.50 of the user-selected amount, plus \$1.00.

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Fee: \$35.00

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

Fee: \$30.00 per request

Collection Posting Notice Fee: Fee assessed to property owner for water termination and lien sale postings.

Fee: \$50.00 per posting

Narragansett Bay Commission
Terms & Conditions
Service Fee Schedule
(Effective January 9, 2017)

SERVICE	FEE
<u>Returned Check Fee</u>	\$20.00 per Check
<u>Lien Sale Fees:</u>	
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
Recording of Duplicate Redemption Certificate	\$83.00 each
Auctioneer Fee	Billed at Auctioneer cost in relation to number of lien sales
<u>Water Shut-off Fees:</u>	
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 Requests 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
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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
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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/\text{HCF} \times 117.65 \text{ HCF} = \409.19)

Narragansett Bay Commission
Terms & Conditions
Service Fee Schedule
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Marked Up Terms & Conditions

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Terms & Conditions
Service Fee Schedule**

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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.

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CERTIFICATE OF SERVICE

I hereby certify that on October 10, 2018, 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.

A handwritten signature in black ink, appearing to read "Sherri Arnold", is written over a horizontal line.

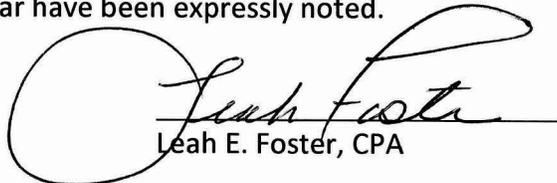
Sherri Arnold
Senior Budget Analyst

**IN RE:
NARRAGANSETT BAY COMMISSION
COMPLIANCE FILING OF October 10, 2018**

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
PUBLIC UTILITIES COMMISSION

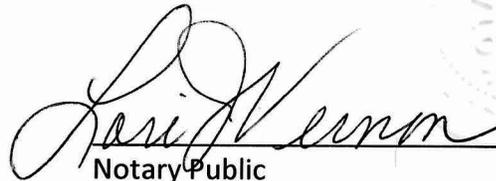
ATTESTATION UNDER RULE 2.7

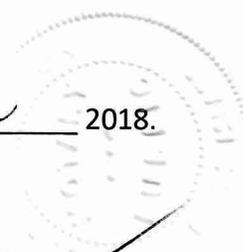
I, Leah E. Foster, Accounting Manager of the Narragansett Bay Commission, in conformance with part 2.7, of the Rules of Practice and Procedure of the Public Utilities Commission, hereby attest that the financial data presented in the rate base, cost of service, revenue statements and supporting data 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 10th day of October 2018.


Notary Public



DIRECT TESTIMONY OF
Mr. Harold J. Smith, Vice President
Raftelis Financial Consultants, Inc.

for
THE NARRAGANSETT BAY COMMISSION

DOCKET No. _____

October 2018

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

2 A. My name is Harold J. Smith and my business address is 227 West Trade Street, Charlotte,
3 North Carolina, 28202.

4

5 **Q. Have you appeared as an expert witness in prior dockets before the Rhode Island Public
6 Utilities Commission (PUC)?**

7 A. Yes. I provided testimony before the Rhode Island Public Utilities Commission (PUC) in
8 Providence Water Supply Board's eight most recent filings (Docket Nos. 3832, 4061, 4070,
9 4080, 4287, 4406, 4571, and 4618) and in Newport Water's eight most recent filings (Docket
10 Nos. 3578, 3675, 3818, 4025, 4128, 4243, 4355 and 4595). I have also provided testimony on
11 water, sewer and stormwater rate related matters before the Tennessee Regulatory
12 Authority and the Pennsylvania Public Utility Commission as well as in court proceedings in
13 Arizona, Connecticut, Indiana, Maryland and Maine.

14

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

16 A. I am a Vice President of Raftelis Financial Consultants, Inc. (Raftelis), a consulting firm
17 specializing in the areas of water and wastewater finance and pricing. Raftelis was established
18 in 1993 in Charlotte, North Carolina, by George A. Raftelis to provide financial and
19 management consulting services to public and private sector clients. Raftelis is a national
20 leader in the development of water and wastewater rates.

21

22 **Q. What is the scope of your engagement in this docket?**

23 A. NBC hired Raftelis to perform a cost allocation and recovery study. In addition, Raftelis was
24 hired to develop a normalized test year, FYE June 30, 2018 and a rate year, FYE June 30, 2020.
25 Raftelis was engaged to prepare expert testimony in support of both the test year and the
26 rate year, which includes all the schedules and exhibits required by the Rules and Regulations
27 of the PUC. As part of the engagement, Raftelis was to review the testimony of others, and
28 assist with cross-examination. Lastly, Raftelis was engaged to assist legal counsel with the
29 preparation of briefs if needed.

30

31

32

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

2 A. They are as follows:

3

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

5 NBC continues to experience declining consumption for the residential and commercial
6 customer classes. NBC proposes to develop rate year consumption billing units using
7 historical trends which will result in rates that are more likely to generate the PUC
8 approved revenues.

9

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

11 NBC has not been billing non-residential flat fees at the PUC approved levels primarily as
12 a result of a reduction in both the number and size of billable non-residential meters.
13 Using the test year units to calculate rates will result in rates that are more likely to
14 generate the PUC approved revenues.

15

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

17 NBC has seen an increase in the number of residential dwelling units. NBC proposes to
18 update the number of billable dwelling units based on test year levels.

19

20 **4. Updates to Miscellaneous Revenues:**

21 NBC is proposing a number of adjustments to miscellaneous tariffs including elimination
22 of the annual pretreatment permit fees, implementation of a pretreatment permit
23 application fee, the addition of a collection notice posting fee, and modification to the
24 sewer connection permit fee structure. Sale of Renewable Energy Credits (RECs) is a
25 relatively new revenue source not included in NBC's current miscellaneous tariffs and is
26 reflected in this filing.

27

28 **5. Creation of a Hardship Fund:**

29 NBC is also proposing that a portion of the late fee revenue be directed towards the
30 creation of a hardship fund. This fund would be available to provide one-time assistance
31 to customers experiencing difficulties paying their NBC bills.

32

1 **6. Salaries and Related Fringe Benefits:**

2 NBC requires an adjustment for increases to salaries and fringe benefits. The rate year
3 cost of service reflects contracted union cost of living adjustments (COLAs) and step
4 increases and projected merit increases for non-union employees. The rate year salary
5 adjustments are based on FTE's reflected in the test year salaries. Fringe benefits are also
6 adjusted for increases in health insurance premiums and rate changes for the employer
7 contribution to union retirement and retirement health.

8

9 **7. Impact of Renewable Energy Projects and Electricity Rate Increases:**

10 NBC has implemented a number of renewable energy projects that have impacted
11 revenues as well as revenue requirements. Rate year adjustments reflect an entire year
12 of impact from the operation of three renewable sources including: the three wind
13 turbines owned by NBC and located on NBC's Field's Point property (Field's Point
14 Turbines), the three wind turbines owned by NBC that are off-site and net metered (WED
15 Turbines), and the solar power purchase agreement (Solar PPA) that generate net
16 metering credits. The renewable energy credits associated with these sources are also
17 reflected in the rate year revenues. Electricity supply, distribution and capacity charges
18 are also incorporated into the electricity expense line item.

19

20 **8. Miscellaneous Adjustments:**

21 NBC made an adjustment to biosolids disposal to reflect a contracted price adjustment.
22 Another significant adjustment was made to regulatory expense to reflect the increase in
23 the PUC assessment. A number of other, smaller adjustments were made to reflect
24 increasing expenses associated with insurance, maintenance and service agreements,
25 chemicals, and other accounts.

26

27 **9. Operating Allowance:**

28 NBC's services are vital to protecting public health and NBC must be operational 24 hours
29 a day, 365 days a year. NBC's current operating allowance is inadequate and inconsistent
30 with industry standards and this filing reflects an increase to 1.5% of total operating
31 expenses to provide NBC with the flexibility it needs to mitigate the risks associated with

1 unanticipated increases in large expense items critical to operations such as utilities,
2 chemicals and biosolids disposal.

3

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

5 A. NBC is requesting additional revenue in the amount of \$ 6,388,424 that will increase total rate
6 year revenue to \$107,249,751. This represents an increase over adjusted test year revenue of
7 6.33%.

8

9 **Q. Will all rates increase by the 6.33%?**

10 A. No, Schedule HJS - 27 shows the calculation of revenue sufficient rates, while Schedule HJS –
11 29 presents ratepayer impact for various customer types.

12

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

14 A. Yes.

15

1 **TEST YEAR and ADJUSTED TEST YEAR (FYE June 30, 2018)**

2 **Q. Mr. Smith, does the test year reflect audited figures?**

3 A. Yes. An independent audit of NBC was completed by a CPA firm and the audit results were
4 used as the basis for the test year.

5
6 **Q. How was the test year normalized?**

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

13
14 **Q. What is the basis for the adjusted test year figures?**

15 A. As mentioned earlier, the test year figures are based on the June 30, 2018 financials prepared
16 using Generally Accepted Accounting Principles (GAAP). A number of normalizing
17 adjustments were made and they are identified by number on Schedule HJS - 1. These are
18 discussed as follows:

19
20 Adjustment (1) - This consists of an adjustment to both revenue and expense accounts
21 related to NBC’s October 3, 2018 Debt Service Compliance filing. The revenue adjustment is
22 to the user fee accounts to reflect the requested increase in revenue associated with the Debt
23 Compliance Filing. The test year user fee revenues were each increased by the 2.98% rate
24 increase as filed by NBC. Although, these rates have yet to be authorized by the PUC, the
25 proposed effective date is January 1, 2019 and therefore the new rates would be in effect
26 prior to the completion of this Docket (See Schedule HJS-2A). Please see the table below for
27 a summary of the revenue account test year adjustments.

Account Number	Account Description	Test Year 6/30/2018	Test Year Adjustments	Adjusted Test Year 6/30/18
41000	Flat Fees Residential	\$ 26,231,403	\$ 761,482	\$ 26,992,885
41100	Consumption Fee - Residential	29,072,492	864,518	29,937,010
41501 41502	Flat Fees Commercial/Industrial	14,424,177	431,747	14,855,924
41510	Consumption Fee - Commercial	24,033,736	718,195	24,751,931
41511	Consumption Fee - Industrial	2,158,429	64,255	2,222,684
		<u>\$ 95,920,237</u>	<u>\$ 2,840,197</u>	<u>\$ 98,760,434</u>

1 The expense side of this test year adjustment is three-fold. First, an adjustment has been made
2 to convert from GAAP to a cash basis by adding FY 2018 principal payments of \$27,529,555.
3 Second, an adjustment has been made for the additional \$4,589,675 debt service in accordance
4 with the debt compliance filing. Lastly, \$12,528,478 for debt service coverage, calculated as 25%
5 of total debt, has been added to the test year. Please see Schedule HJS – 24.

6

7 Adjustment (2) - These two revenue adjustments are the annualizing of the Real Estate Closing
8 Fee (Account 42599) and the Abatement Application Fee (Account 42600). The Real Estate Closing
9 Fee is new and the Abatement Application Fee was increased. The effective date for both of these
10 changes was June 1, 2018 and therefore only one month of revenue was reflected in the test year.
11 The adjusted test year reflects the projected 12 month revenue from these fees and the detail of
12 these adjustments is shown in Schedule HJS - 4.

13

14 Adjustment (3) - The Environmental Enforcement Fund revenue (Account 46500) and related
15 Environmental Enforcement Fund expense (Account 53380) were both eliminated from the test
16 year. In accordance with RI statute, the revenue is not available for operations and the associated
17 expense is not paid from general operating revenue.

18

19 Adjustment (4) – these adjustments were made to convert from a GAAP basis to a rate-making
20 basis including:

21

22 • Conversion of the Union Pension (Account 52800), Non-Union Pension (Account 52920)
23 and Union Retirement Health (Account 52940) expense from a GAAP basis to a cash basis.
24 Please see Schedule HJS - 5. These adjustments have been calculated by applying the
25 employer contribution rate to the test year salaries to arrive at the adjusted test year
26 amounts for these line items.

27

28 • The next adjustment was the removal of \$16,091,344 Depreciation expense (Account
29 57500). This adjustment is needed because NBC is regulated on a cash basis.

30

31 • Operating Capital of \$4,233,915 was added to the test year. These are purchases in the
32 test year that were charged to the operating capital accounts and not expensed (Accounts

1 16510, 16520, 16580, 16583, 16585, and 16600). These test year adjustments are
2 presented to show the level of Operating Capital in the test year. These adjustments are
3 reversed out in the rate year because they are funded from the Restricted Account –
4 Operating Capital in the Project Fund. Please refer to Schedule HJS - 23.

5
6 Adjustment (5) - there are several test year adjustments related to NBC's renewable energy
7 projects. The test year expense for renewable energy operations and maintenance expense has
8 been reclassified to new accounts established to more easily identify the expense related to each
9 of the sources. These adjustments do not impact the total expense but rather show the expense
10 in different general ledger accounts consistent with the rate year presentation. Please refer to
11 Schedule HJS - 16.

12
13 Adjustment (6) Workers' Compensation Insurance (Account 53680) was increased by \$3,093 to
14 remove a one-time dividend that is non-recurring.

15
16 Adjustment (7) Bond and Note Fee expense (Account 57800) was eliminated as this expense is
17 paid from the Stabilization Account in the Debt Service Fund.

18
19 Adjustment (8) - the Operating Allowance in the amount of \$246,338 was added to the test year
20 based on the current methodology approved by the PUC.

21
22 **Q. Mr. Smith did you complete a schedule that shows the test year revenue by source that ties**
23 **into the audited financial statements for FY 2018?**

24 A. Yes, see Schedule HJS - 2.

25
26 **Q. Have you provided historic revenues and expenses for the last three years?**

27 A. Yes, please see Schedule HJS - 3.

28
29 **Q. Does your adjusted test year represent a level of activity for a normalized year of the NBC?**

30 A. Yes, it does.

31
32
33
34

1 **RATE YEAR (FYE June 30, 2020)**

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

3 A. In an attempt to reduce the number of issues in this docket, I have reviewed the test year
4 revenue and expense accounts to determine the best approach to dealing with the more than
5 80 general ledger accounts. During this review, I have determined that most of these accounts
6 can be subdivided into four separate groupings. The remaining individual accounts not
7 included in one of the four groups were analyzed as individual items. The four groups are as
8 follows:

- 9 • Revenue accounts (there are 19 accounts in the adjusted test year)
- 10 • Personnel Service accounts (there are 16 accounts in the adjusted test year). These
11 accounts are all payroll and payroll related accounts
- 12 • Operating Supplies/Expense accounts.
- 13 • Operating Capital accounts (excluding Depreciation and Amortization there are 6
14 accounts in the adjusted test year). These non-operating expenditures were added to the
15 test year to show the level of capital spending in the test year, but as stated earlier in my
16 testimony, these capital expenditures are not paid for with operating revenue, therefore
17 I will remove them completely from the rate year
- 18 • There are 10 revenue and 45 expense accounts that have expense amounts in the
19 adjusted test year of less than \$200,000. As NBC has done in its previous filings, I have
20 left the majority of these accounts at their adjusted test year levels (Please note that a
21 \$200,000 expense in any one account represents less than ¼ of one percent of the rate
22 year revenue requirement). The only accounts that fit this description that were adjusted
23 for the rate year were revenue accounts 42599, 42600 and 46500, which were explained
24 earlier in my testimony. Expense accounts 52350, 52400, 54092, 54095, and 54339 also
25 fit this description but were adjusted for various reasons which have been or will be
26 specifically discussed in my testimony. With respect to the remaining accounts, I believe
27 that if I took the time to project the individual rate year expense for all of these accounts
28 the net change would be immaterial to the overall revenue requirement. Further, I
29 believe that the overall adjustment would most likely be an increase to the revenue
30 requirement because of inflationary trends.

31
32

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 are
3 listed in Schedule HJS – 1.

4

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

7 A. Like many water and wastewater utilities across the nation, NBC has experienced a decline
8 in water consumption and consequently consumption-based revenue. In Docket 4478, for
9 new rates effective July 1, 2013, NBC provided considerable evidence that supported using a
10 downward trend in consumption for both the interim year and the rate year. The Division
11 and PUC agreed with the projection and allowed a reduction in billable consumption. NBC’s
12 subsequent general rate filing, Docket 4602 for new rates effective July 1, 2015, kept billable
13 consumption at Docket 4478 levels as NBC was cautiously optimistic that consumption had
14 “bottomed” out. Unfortunately, this has not been the case. Fiscal year 2018 total billed
15 consumption was lower than each of the prior three fiscal years and did not reach the Docket
16 4478 rate year level. Although the total consumption is only slightly lower, there has been a
17 decline in both residential and commercial consumption. Since the consumption rates for the
18 residential and commercial classes are higher than the industrial consumption rate, this has
19 resulted in revenue shortfalls. These trends can be viewed in the table below.

20

	FY 2015 Actual	FY 2016 Actual	FY 2017 Actual	FY 2018 Actual	Docket 4478
<u>Customer Usage (HCF)</u>					
Residential	8,484,354	8,300,215	8,457,830	8,233,501	8,420,893
Commercial	4,771,357	4,771,320	4,755,534	4,694,089	4,763,451
Industrial	477,451	647,064	610,116	655,659	425,475
<i>Total: Customer Usage (HCF)</i>	13,733,162	13,718,599	13,823,480	13,583,249	13,609,819

21

22

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

25 A. Barring an extreme circumstance, the NBC should finish each year with a net income on a
26 ratemaking basis because its rates, as approved by the PUC, are designed to generate 125%
27 of principal and interest so that NBC meets its debt coverage requirements. So far NBC has
28 been able to meet its debt coverage requirements despite the consumption revenue

1 shortfalls, but this is a concern given NBC's continuing need to access capital markets in order
2 to finance its Capital Improvement Program (CIP).

3

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

6 A. NBC continues to bill consumption below PUC approved levels primarily with respect to
7 the residential customer class, and the usage decline does not appear to have abated.
8 Therefore, an additional downward adjustment to total consumption from test year levels
9 based on the downward trend was calculated. Consumption has been projected for each of
10 the customer classes separately since they are billed at different rates.

11

12 **Q. Did you make any rate year adjustments to the adjusted test year amounts for the**
13 **revenue accounts?**

14 A. Yes. Adjustments were made to the Miscellaneous Revenue accounts to include the
15 addition of a Collection Notice Posting Fee, modification of the pretreatment fees,
16 modification to the sewer connection permit fees and revenue from the sale of Renewable
17 Energy Credits (REC's).

18

19 The first miscellaneous revenue adjustment is to include revenue from a Collection Notice
20 Posting Fee, which the NBC originally proposed and subsequently withdrew from
21 consideration as part of Docket 4814. It is the NBC's understanding that the Division was
22 concerned that costs associated with these duties are part of the NBC's core business
23 functions. While NBC agrees that general collection activities are part of normal customer
24 service activity, the NBC respectfully disagrees with the Division's position that the posting of
25 collection notices on the premises of delinquent accounts selected for water termination or
26 lien sale is a cost that should be shared by all of NBC's customers, the overwhelming majority,
27 of whom, pay on time.

28

29 During the collection process, a customer is given numerous opportunities to work with NBC's
30 staff in order to rectify the situation and prevent further collection activity. Once an account
31 is selected for water termination, an additional collection call is placed and correspondence
32 is mailed to the customer advising them of the account's past due status. At this time, a

1 customer may contact NBC staff and enter into a budget or make other arrangements. If a
2 customer does not respond or has not made arrangements before the due date, members of
3 NBC's staff must print a notice, and take a vehicle to physically post a notice at the property
4 10 days prior to the potential service termination.

5
6 Likewise, customers selected for lien sale have been through all of the traditional collection
7 processes without making payment or payment arrangements. Pursuant to the legal process
8 established under R. I. Gen. Laws § 44-9-1 *et seq.* customers are given ample opportunity to
9 resolve the delinquency on their accounts or make other arrangements with members of the
10 NBC's staff. In order to make sure that each delinquent customer and their potential tenants
11 are given more than sufficient notice of the lien sale, the NBC takes a step beyond the legal
12 requirements and posts a notice of the sale to the door of the serviced real estate.

13
14 A small percentage of NBC customer accounts are collected through the water termination
15 and lien sale process. These delinquent customers are given adequate notice and numerous
16 opportunities to make payment arrangements with the NBC to avoid additional collection
17 activity. It is only fair that the extra collection costs associated with these activities are
18 collected through an additional fee for time and labor associated with the collection notice
19 posting process. The calculation of this fee and subsequent revenue is presented in Schedule
20 HJS – 4.

21

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

23 A. Yes. An adjustment was also made to reflect the elimination of the Pretreatment Annual
24 Permit Fees and establish a Pretreatment Permit Application Fee. NBC currently has a
25 cumbersome tariff consisting of 22 billing categories for the annual billing of pretreatment
26 customers. NBC is proposing the elimination of annual permit fees and instead establishing a
27 three-tiered pretreatment permit application fee that is designed to recover the
28 administrative and engineering costs associated with the pretreatment permit application
29 process. The pretreatment permit application fee calculations and revenues are reflected in
30 Schedule HJS – 32. NBC is proposing that the difference between the revenue previously
31 generated from the annual pretreatment fees less the new pretreatment permit application
32 fee revenue be recovered through the consumption fees for commercial and industrial

1 customers. Please see the testimony of Kerry Britt for additional information related to this
2 topic.

3

4 I also made adjustments to include additional revenue from the NBC's sale of Renewable
5 Energy Credits (RECs) which is reflected in Schedule HJS - 17.

6

7 In addition, NBC is proposing to modify the fees associated with a new sewer connection. The
8 administrative costs associated with processing the permit application will be modified from
9 the current structure, based on whether or not a connection is residential or non-residential,
10 to a rate based on whether a connection is direct or indirect. This change more accurately
11 reflects the costs associated with processing the permit. Schedule HJS – 18 presents the
12 calculation of these revised fees. I am also proposing a capacity charge by meter size so that
13 new customers assume some of the cost for being able to connect to an existing system
14 financed by ratepayers. Please refer to Schedules HJS – 30 and HJS – 31 for the calculation of
15 rate year connection permit fee and capacity charge projected rate year revenue.

16

17 Lastly, NBC is proposing the creation of a hardship fund which will be funded using a portion
18 of the revenue that is generated through late fees. Due to the ever-changing economy, NBC
19 believes that it would be prudent to implement a program that would be available to those
20 customers who can provide documentation that they are experiencing a short-term financial
21 hardship. The creation of this fund would provide one-time financial assistance to a number
22 of low-income or otherwise disadvantaged customers in the NBC's service area. I've
23 estimated that this new program will require approximately \$7,500 of NBC's \$796,362 of rate
24 year late fee revenue. This \$7,500 represents 0.007% of NBC's total rate year revenue
25 requirements. These incredibly insignificant costs could potentially bring incredibly significant
26 relief to customers that have fallen on hard times and need a one-time assistance, and we
27 strongly urge the PUC to consider this program as a critical component to the service NBC
28 provides its customers.

29

30 **Q. Does that complete your review of revenues for the rate year?**

31 A. Yes.

32

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

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

4

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

6 A. The first group of accounts I would like to discuss are Personnel expenses. I have prepared
7 Schedule HJS - 6 to show my calculations for rate year salaries and other personnel related
8 accounts. To arrive at the rate year salaries, I started my calculations using the adjusted test
9 year salary expense for non-union and union employees. Next, I increased the adjusted test
10 year salaries for union employees for contracted step increases and COLA's effective on July
11 1, 2018 the interim year and July 1, 2019, the rate year. The contracted COLA's are 2.5%. The
12 adjusted test year salaries for non-union employees were also increased to reflect merit
13 increases of 2.5% effective on July 1, 2018 the interim year and July 1, 2018, the rate year.
14 After arriving at the rate year salary and salary related cost calculations I made the
15 appropriate adjustment to Schedule HJS - 1.

16

17 In order to then calculate the rate year amount for the two reimbursement accounts and
18 overtime expenses, I utilized the same methodology that I used to determine rate year
19 salaries for non-union employees. I then calculated the union, non-union, and non-union
20 limited overtime for the rate year in the same manner (see the calculation on Schedule HJS-
21 6). The appropriate adjustments were then made to Schedule HJS-1.

22

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

24 A. Yes, FICA and Medicare expenses are a function of payroll expenses. Please again refer to
25 Schedule HJS – 6 for my calculation.

26

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

28 A. Yes, I did. The union retirement account expense was calculated using 27.39% of union
29 salaries in the rate year based on the planning values provided by the State of Rhode Island
30 Budget Office for FY 2020. The non-union pension expense was calculated in the same manner
31 as NBC's prior dockets at 10% of non-union and limited rate year salaries. See the calculation
32 on Schedule HJS-6. The union retirement health account reflects the retiree health costs for

1 NBC's union employees who participate in the Employees' Retirement System of Rhode Island
2 and was calculated based upon the value from the State of Rhode Island Budget Office of
3 6.65%.

4

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

6 A. No allowance is required because the test year payroll and payroll related expenses already
7 reflect actual turnover.

8

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

10 A. Yes. Schedule HJS – 7 shows the calculation of health insurance expense for the rate year.
11 The rate year health insurance cost is calculated by multiplying the average percentage
12 increase in health insurance over the last two years to the adjusted test year health expense
13 to arrive at the interim year, and then once more to arrive at the rate year level.

14

15 **Q. Do you have any other adjustments to Personnel expense?**

16 A. No, I do not.

17

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

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

- 21 • Biosolids Disposal (account 53480) - The adjusted test year level of expense was
22 \$4,731,063. As shown on Schedule HJS- 10, I calculated the rate year cost of Biosolids
23 Disposal at \$5,330,499 resulting in a rate year adjustment of \$599,436. The rate year
24 calculation consists of adjustments to both the contracted disposal rate per dry ton and
25 the quantity of dry tons to arrive at the projected rate year expense. The rate year
26 disposal rate per dry ton was calculated multiplying the percentage increase in the CPI
27 over the last year. A two-year average was used to arrive at the projected dry tons for
28 Bucklin Point and Field's Point in the rate year. Since the rate increase is effective mid-
29 year, I applied the resulting rate year rates to the projected dry tons for Field's Point and
30 Bucklin Point to arrive at the rate year amount.
- 31 • Building and Ground Maintenance (account 53470) - I have increased the Building and
32 Ground Maintenance expense to reflect the average annual percentage increase for the

1 past two years. As shown on Schedule HJS- 8, I started with the interim year and increased
2 it by the average annual increase of 23%. This results in an adjustment to increase
3 Building and Ground Maintenance expense of \$114,080.

4 • Repairs Building, Structure, and Equipment (account 53610) - I have increased the Repairs
5 Building, Structure, and Equipment expense to reflect the average annual percentage
6 increase for the past two years. As shown on Schedule HJS – 8, I started with the interim
7 year and increased it by the average annual increase of 9%. This results in an adjustment
8 to increase Repairs Building, Structure, and Equipment expense of \$159,602.

9 • Maintenance Contracts (account 53630) - I have increased the Maintenance Contract
10 expense to reflect the average annual percentage increase for the past two years. As
11 shown on Schedule HJS – 11, I started with the interim year and increased it by the
12 average annual increase of 2%. This results in an adjustment to increase maintenance
13 service agreement expense of \$30,850.

14 • Insurance and Workers' Compensation Insurance (accounts 53660 and 53680) – The
15 actual FY 2019 expense for both Insurance and Workers' Compensation Insurance is
16 higher than the test year and has increased each year for the last three years. I adjusted
17 the Insurance Expense and the Worker Compensation Insurance based on the FY 2019
18 actual premiums and increased that amount by the two-year average annual percentage
19 increase to arrive at the rate year amount. This results in increases of \$80,386 and
20 \$128,232 respectively. Please refer to Schedules HJS – 12 and HJS - 13 for further
21 documentation.

22 • Natural Gas (account 54060) - Schedule HJS - 19 shows the rate year calculation of natural
23 gas expense. I used the two-year average Therms for my calculations. I then multiplied
24 the average Therms by facility by the composite rate, including the contracted supply
25 rate, to project the rate year natural gas expense of \$338,381 and a negative (\$33,466)
26 rate year adjustment.

27

28 • **Electricity and Electricity Related Accounts**

29 ○ Electricity (account 54090) - The rate year electricity expense and related
30 accounts is a complex calculation that takes into consideration NBC's renewable
31 energy sources. The first step is the determination of the total number of kWh

1 that are anticipated to be needed in the rate year (See Schedule HJS - 14). The
 2 rate year kWh usage is based upon the following assumptions:

- 3 ▪ Purchased kWh for IM, COB and Lab locations - based on two-year
 4 average
- 5 ▪ Field’s Point - purchased kWh – based on two-year average
- 6 ▪ Bucklin Point - purchased kWh – based on two-year average
- 7 ▪ Field’s Point Wind Turbine production – based on a two-year average

8 The next step is the calculation of the electricity expense. The rate year
 9 incorporates the electricity expense impacts of NBC’s renewable energy
 10 projects. The location of the renewable energy source impacts how NBC
 11 realizes the resulting financial benefit. There are differences between the
 12 two types of renewable energy resource facilities. Specifically, “Behind the
 13 Meter” projects reduce NBC’s purchase of electricity whereas “Net-Metered”
 14 projects reduce NBC’s electricity expense through the application of Net
 15 Metering Credits (NMC). The following table highlights some of the
 16 distinctions.

Cost of Service Impact of Renewable Energy Resources	
"Behind the Meter" Projects	"Net Metered" Projects
Field's Point Wind Turbines	WED Turbines Solar PPA
The energy is produced and used on-site Reduces the kWh purchased through National Grid Reflected in the budget as a reduction in purchased kWh NBC saves supply, distribution and other related costs	Energy is produced off-site and net metered Generates Net Metering Credits - applied to National Grid Invoices Reflected in the budget as a reduction in National Grid Expense Net Metering Credit is variable and is based on C-06 Rate

18
 19
 20 Additional assumptions with respect to the calculation of rate year electricity
 21 expenses are as follows:

- 22 • NBC rate year purchased electricity supply rate of \$0.08690 per kWh
 23 was derived by averaging the increase in contracted supply costs
 24 seen over the last two years and multiplying that percentage increase
 25 by the FY 2019 contracted supply costs (see Schedule HJS - 14).
- 26 • Customer charge and Gross Earning Tax calculated based on FY 2019
 27 rates or \$57,268 and \$177,973 respectively.

- 1 • Net Metering Credits (account 54091) - The kWh's generated from the WED
2 Turbines and Solar PPA's have been calculated based on the following:

- 3 • The FY 2018 production of kWh's for the WED Turbines
4 • The five months production of solar kWh's in FY 2018 straight-lined
5 to reflect twelve months of production.

6 The Net Metering Credit rate per kWh of \$0.147 is based on the C-06 Standard
7 Offer Service rate provided by National Grid. (See Schedule HJS – 15.)

- 8 • WED PPA (account 54095) - This account represents 75% of the Net Metering
9 Credits generated by the WED Solar project that are paid to WED per the Solar
10 PPA. The \$324,177 increase reflects a full year of operation. (See Schedule
11 HJS – 15.)

- 12 • Field's Point Turbines (54012) and WED Wind (accounts 54093) - These two
13 accounts have been adjusted to reflect rate year maintenance and operations
14 costs. This resulted in increases of \$58,491 and \$60,330 respectively. (See
15 Schedule HJS – 16.)

16 • **Chemicals and Chemical Related Expenses**

- 17 • Hypochlorite and Bisulfite (accounts 54332 and 54337) - These are two
18 chemicals that have been traditionally used by NBC as part of the wastewater
19 treatment process. I calculated the rate year cost for each of these two
20 chemicals using a two-year average increase for the rate and three average
21 for the usage. This resulted in a rate year cost for Hypochlorite that is \$3,716
22 higher than the adjusted test year and a rate year cost for Bisulfite that is
23 \$6,354 higher than the adjusted test year. (See Schedule HJS – 20.)

- 24 • UV Disinfection, Lab Supplies, Postage, and Supplies Building and
25 Maintenance (accounts 53210, 54339, 54340, and 54370) - The adjustments
26 for these four accounts were derived by averaging the last three years
27 expense (two-year average for UV Disinfection, a new account). This resulted
28 in increases for UV Disinfection of \$41,579, Lab Supplies of \$7,671, Postage
29 of \$4,840, and a decrease in Supplies Building and Maintenance of (\$3,075).
30 (See Schedule HJS – 9.)

- 31 • Regulatory Expense (account 52600) - Regulatory expense increased \$303,287 over
32 the adjusted test year and reflects a higher PUC regulatory assessment as well as the

1 inclusion of normalized rate case expenses for this filing. I have assumed \$150,000 in
2 full rate case costs, normalized over a 3-year period, or an increase in revenue
3 requirements of \$50,000 annually. This amount will obviously be firmed up once the
4 filing reaches its conclusion. The regulatory assessment increase reflects the FY 2017
5 to FY 2018 annual percentage increase in the regulatory assessment from the RIPUC
6 that was then applied to the adjusted test year to arrive at the interim year level. This
7 same percentage was applied to the interim year to arrive at the rate year PUC
8 regulatory expense of \$736,254. The other regulatory expense in this account is
9 based on the three-year average. In addition, normalized rate case expense of
10 \$50,000 was added to arrive at a total rate year expense for account 52600 of
11 \$818,273. (See Schedule HJS -21).

- 12 • Operating Capital - As I stated earlier, I removed these accounts from the rate year
13 revenue requirement in accordance with the PUC Report and Order that sets forth
14 that Operating Capital is paid from the prior year restricted Debt Service Coverage
15 carry-forward.

16
17 **Q. Does that conclude your review of the expense accounts?**

18 A. Yes, with one exception. The last adjustment I made was to calculate NBC's operating
19 allowance utilizing 1.5% of total annual operating and maintenance expenses, including
20 personnel services. I am recommending this adjustment in order to provide NBC with the
21 flexibility to manage unanticipated expense. As I mentioned earlier in my testimony, NBC
22 serves a critical public health service and must meet strict federal and state operating
23 requirements. Wastewater treatment and collection may appear to be simple on the surface
24 but it is a complex biological process that requires constant process modifications and
25 adjustments to effectively operate; and many factors, such as rainfall, wind and temperature,
26 impact operations but are clearly out of NBC's control. Accordingly, it is imperative that NBC
27 have the flexibility to adjust to changes in expense associated with unanticipated higher
28 chemical, biosolids, and utility costs. In addition, NBC has migrated to a renewable energy
29 supply portfolio which also poses certain weather and mechanical-related risks.

30
31 I am proposing to calculate the operating allowance based on 1.5% of total operating and
32 maintenance expenses as an unrestricted line item in NBC's cost of service. Funding the

1 operating allowance at this level is commonplace in the water and sewer industry for a utility
2 of the size and scope of NBC, incredibly reasonable, and financially responsible. The increase
3 in the operating allowance, which allows NBC, NBC's bondholders as well as NBC's ratepayers
4 to have confidence in NBC's ability to meet annual operating expenses even under unforeseen
5 operating or regulatory circumstances, results in a less than one half of one percent increase
6 in total revenue requirements. It therefore seems prudent to modify the method for
7 calculating the operating allowance line item so that NBC's cost of service is consistent with
8 industry best practices.

9

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

12 A. Yes. I have calculated new user charge rates in order to sufficiently recover the rate year
13 revenue requirements as filed. Please refer to Schedule HJS – 27 for the calculation of these
14 rates. Subsequently, Schedule HJS – 28 shows the revenue proof calculation, and Schedule
15 HJS – 29 presents the rate year ratepayer impact for various customer types. Please note that
16 the difference in calculated revenue and revenue requirements on Schedule HJS – 28 is due
17 to rounding of the rates.

18

19 **Q. Mr. Smith, does that conclude your rate year analysis?**

20 A. Yes. However, I would like to address one last item before moving on to the rate design issue
21 in this docket. NBC was required to spend a significant amount of time preparing the rate
22 year revenue and debt issuance information. NBC is requesting that in spite of this minor
23 delay, the rates be effective July 1, 2019 as an effective date of the first of the year, since it is
24 easiest for ratepayers to understand and for NBC to implement. I would like to point out that
25 Schedule A of NBC's tariffs has been streamlined to include a single table of the Industrial and
26 Commercial Customer Charge by meter size and fixed fee, to eliminate repetition and
27 enhance the customer experience.

28

29 **RATE DESIGN:**

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

31 A. There are no rate design issues proposed for this Docket, although I would like to point out
32 that NBC is proposing a revision to its Terms & Conditions to include a program to allow a

1 change in the customer charge for commercial and industrial customers whom provide proof
2 that downsizing an input meter is not feasible. The NBC is aware of various commercial and
3 industrial properties that were originally built with a larger size input meter to accommodate
4 an increase in demand. A majority of these properties were once used for manufacturing, but
5 have since been rehabilitated into living and office space which do not require a large input
6 meter. When a property owner is able to provide documentation that the cost associated
7 with downsizing to a smaller meter is not feasible, the NBC is requesting the authority to set
8 forth a more appropriate customer charge for those customers. I anticipate this will have an
9 immaterial impact on revenue.

10

11 **Q. Mr. Smith, does this conclude your testimony?**

12 A. Yes, it does.

Narragansett Bay Commission
Test Year and Rate Year

Account Number	Account Description	Test Year	Test Year	Adjusted Test	Rate Year	Rate Year
		6/30/2018	Adjustments	Year 6/30/18	Adjustments	6/30/20
41000	Flat Fees Residential	\$ 26,231,403	\$ 761,482	\$ 26,992,885	\$ -	\$ 26,992,885
41100	Consumption Fee - Residential	29,072,492	864,518	29,937,010	(291,759)	29,645,250
41501 41502	Flat Fees Commercial/Industrial	14,424,177	431,747	14,855,924	-	14,855,924
41510	Consumption Fee - Commercial	24,033,736	718,195	24,751,931	(133,966)	24,617,966
41511	Consumption Fee - Industrial	2,158,429	64,255	2,222,684	-	2,222,684
42000	Pretreatment Fees	1,066,370	-	1,066,370	(1,003,570)	62,800
42500	Connection Permit Fees	123,319	-	123,319	(79,739)	43,580
	Capacity Charge	-	-	-	109,550	109,550
42599	Real Estate Closing Fee	15,990	188,130	204,120	-	204,120
42600	Abatement Application Fee	2,188	4,532	6,720	-	6,720
42602	Returned Check Fee	20,670	-	20,670	-	20,670
42603	Collection Posting Notice Fee	-	-	-	213,000	213,000
42604	REC Income Field's Point Turbines	114,066	-	114,066	41,529	155,595
42605	REC Income WED Turbines	38,273	-	38,273	138,896	177,169
42606	REC Income WED Solar	-	-	-	89,657	89,657
43500	Septage Income	333,037	-	333,037	-	333,037
45100	Interest Income Revenue	136,230	-	136,230	-	136,230
45200	Interest Income O & M	63,177	-	63,177	-	63,177
45500	Late Charge Penalty	796,362	-	796,362	-	796,362
46500	Environmental Enforcement	3,400	(3,400)	-	-	-
49000	Discounts Earned	4,743	-	4,743	-	4,743
49002	Miscellaneous Income	30,733	-	30,733	-	30,733
49003	Rental Revenue	79,475	-	79,475	-	79,475
Total: Revenue		\$ 98,748,270	\$ 3,029,459	\$ 101,777,729	\$ (916,402)	\$ 100,861,327
Revenue Requirement						
Operation & Maintenance Expense						
<u>Personnel</u>						
52100	Union - Regular	\$ 5,837,666	\$ -	\$ 5,837,666	\$ 439,795	\$ 6,277,461
52150	Union Overtime	585,669	-	585,669	60,800	646,469
52300	Non-Union Regular	9,937,147	-	9,937,147	503,068	10,440,215
52350	Non-Union Overtime	167,974	-	167,974	8,504	176,478
52400	Non-Union Limited	19,209	-	19,209	972	20,181
52800	Union Pension	1,758,798	(159,861)	1,598,937	120,460	1,719,397
52810	FICA	1,192,404	-	1,192,404	130,848	1,323,252
52820	Unemployment	15,353	-	15,353	-	15,353
52920	Non Union Pension	579,166	431,346	1,010,512	53,175	1,063,687
52940	Union Retirement Health	318,478	30,031	348,509	68,942	417,451
52950	Health Insurance	3,934,797	-	3,934,797	473,214	4,408,011
52970	Dental Insurance	294,725	-	294,725	-	294,725
52980	Vision Insurance	45,532	-	45,532	-	45,532
52990	Disability Insurance	40,901	-	40,901	-	40,901
Total: Personnel		\$ 24,727,819	\$ 301,516	\$ 25,029,335	\$ 1,859,779	\$ 26,889,113
59000	Salary Reimbursement	(1,025,156)	-	(1,025,156)	(51,899)	(1,077,055)
59001	Fringe Reimbursement	(546,081)	-	(546,081)	(27,645)	(573,726)
Net: Personnel		\$ 23,156,582	\$ 301,516	\$ 23,458,098	\$ 1,780,235	\$ 25,238,332
<u>Operating Supplies/Expense</u>						
52610	Medical Services	\$ 9,328	\$ -	\$ 9,328	\$ -	\$ 9,328
53200	Bad Debt Expense	97,396	-	97,396	-	97,396
53210	Postage	392,555	-	392,555	4,840	397,395
53240	Dues & Subscriptions	56,310	-	56,310	-	56,310
53250	Freight	46,775	-	46,775	-	46,775
53310	Printing & Binding	134,638	-	134,638	-	134,638
53320	Advertising	8,752	-	8,752	-	8,752
53330	Rental- Equipment	13,594	-	13,594	-	13,594
53340	Rental- Clothing	22,783	-	22,783	-	22,783
53350	Rental-Outside Property	283,111	(269,670)	13,441	-	13,441
53360	Miscellaneous Expense	4,956	-	4,956	-	4,956
53370	Public Outreach Education	42,358	-	42,358	-	42,358
53380	Environmental Enforcement Fund	21,000	(21,000)	-	-	-
53410	Local Travel	1,737	-	1,737	-	1,737
53420	Long Distance Travel	66,979	-	66,979	-	66,979
53470	Building & Ground Maintenance	222,421	-	222,421	114,080	336,501
53480	Biosolids Disposal	4,731,063	-	4,731,063	599,436	5,330,499
53490	Screening & Grit Disposal	210,874	-	210,874	-	210,874
53510	Vehicle Fuel & Maintenance	191,410	-	191,410	-	191,410
53610	Repairs Building, Structure, Equipment	848,496	-	848,496	159,602	1,008,098
53620	Repair-Highway & Walks	4,528	-	4,528	-	4,528
53630	Maintenance Contracts	1,125,399	(115,772)	1,009,627	30,850	1,040,477
53635	Maintenance Contracts - Office Equipment	132,703	-	132,703	-	132,703

Narragansett Bay Commission
Test Year and Rate Year

Account Number	Account Description	Test Year 6/30/2018	Test Year Adjustments	Adjusted Test Year 6/30/18	Rate Year Adjustments	Rate Year 6/30/20
53640	Service Agreements	362,767	-	362,767	-	362,767
53650	Highway & Landscape	12,397	-	12,397	-	12,397
53660	Insurance	668,632	-	668,632	80,386	749,018
53680	Workers' Compensation Insurance	436,708	3,093	439,801	128,232	568,033
53900	Central Phone Services	4,761	-	4,761	-	4,761
54000	Telephone	186,299	-	186,299	-	186,299
54020	Fuel Oil #2 - Diesel	22,515	-	22,515	-	22,515
54060	Fuel-Gas	371,847	-	371,847	(33,466)	338,381
54090	Electricity	3,704,375	-	3,704,375	745,011	4,449,386
54091	Net Metering Credit	(1,550,082)	-	(1,550,082)	(351,622)	(1,901,704)
54092	Field's Point Turbines	-	125,510	125,510	58,491	184,000
54093	WED Turbines	-	269,670	269,670	60,330	330,000
54095	WED PPA	155,088	-	155,088	324,177	479,265
54110	Water	78,619	-	78,619	-	78,619
54200	Clothing	28,628	-	28,628	-	28,628
54332	Chlorine/Hypochlorite	363,657	-	363,657	3,716	367,373
54333	Carbon Feed	2,890	-	2,890	-	2,890
54335	Polymer	105,078	-	105,078	-	105,078
54337	Sodium Bisulfite	288,794	-	288,794	6,354	295,148
54338	Soda Ash	45,192	-	45,192	-	45,192
54339	UV Disinfection	151,801	-	151,801	41,579	193,380
54340	Lab Supplies	346,650	-	346,650	7,671	354,321
54370	Supplies Building & Maintenance	468,542	-	468,542	(3,075)	465,467
54410	Educational Supplies & Expense	58,745	-	58,745	-	58,745
54420	Computer Supplies	95,302	-	95,302	-	95,302
54430	Other Operating Supplies & Expense	13,253	-	13,253	-	13,253
54440	Safety Equipment	53,415	-	53,415	-	53,415
54500	Office Expense	98,465	-	98,465	-	98,465
57800	Bond And Note Fees	23,485	(23,485)	-	-	-
Total: Operating Supplies/Expense		\$ 15,266,989	\$ (31,655)	\$ 15,235,335	\$ 1,976,592	\$ 17,211,927
Professional Services						
52600	Regulatory Expense	\$ 514,986	\$ -	\$ 514,986	\$ 303,287	\$ 818,273
52650	Security Services	32,787	-	32,787	-	32,787
52660	Legal Services	200,062	-	200,062	-	200,062
52670	Management/Audit Services	188,918	-	188,918	-	188,918
52680	Clerical Services	67,777	-	67,777	-	67,777
52690	Other Services	192,411	(9,738)	182,674	-	182,674
Total: Professional Services		\$ 1,196,941	\$ (9,738)	\$ 1,187,204	\$ 303,287	\$ 1,490,491
Total: Operations & Maintenance Expense		\$ 39,620,512	\$ 260,124	\$ 39,880,636	\$ 4,060,114	\$ 43,940,749
Depreciation						
57500	Depreciation	\$ 16,091,344	\$ (16,091,344)	\$ -	\$ -	\$ -
Total: Depreciation		\$ 16,091,344	\$ (16,091,344)	\$ -	\$ -	\$ -
Operating Capital						
16510	Automotive Equipment	\$ -	\$ 84,903	\$ 84,903	\$ (84,903)	\$ -
16520	Building & Plant Equipment	-	270,842	270,842	(270,842)	-
16580	Office Furniture & Equipment	-	48,163	48,163	(48,163)	-
16583	Computer Software	-	1,271,673	1,271,673	(1,271,673)	-
16585	Computer Hardware	-	84,727	84,727	(84,727)	-
16600	Replacement Reserve	-	2,473,607	2,473,607	(2,473,607)	-
Total: Operating Capital		\$ -	\$ 4,233,915	\$ 4,233,915	\$ (4,233,915)	\$ -
Debt Service						
Debt Service		\$ 17,994,682	\$ 32,119,230	\$ 50,113,912	\$ -	\$ 50,113,912
Debt Service Coverage		-	12,528,478	12,528,478	-	12,528,478
Total: Debt Service		\$ 17,994,682	\$ 44,647,708	\$ 62,642,390	\$ -	\$ 62,642,390
Operating Allowance		\$ -	\$ 246,338	\$ 246,338	\$ 412,773	\$ 659,111
Hardship Fund		-	-	-	7,500	7,500
Total: Revenue Requirement		\$ 73,706,538	\$ 33,296,741	\$ 107,003,279	\$ 246,472	\$ 107,249,751
NET INCOME		\$ 25,041,732	\$ (5,225,549)	\$ (5,225,549)	\$ (6,388,424)	\$ (6,388,424)

Narragansett Bay Commission
Test Year Revenue by Source

Revenue Item Description	Test Year Rates (Docket 4602)	Test Year Units	Test Year Revenue
User Fee Revenue			
<u>Residential</u>			
Customer Charges	\$ 218.80	119,798	\$ 26,231,480
Consumption Charges	\$ 3.531	8,233,501	29,072,492
Total Residential			\$ 55,303,972
<u>Non-Residential</u>			
Commercial and Industrial Customer Charges			
5/8"	\$ 523	3,530	\$ 1,846,190
3/4"	782	1,014	792,948
1"	1,300	1,216	1,580,800
1 1/2"	2,607	825	2,150,775
2"	4,164	1,229	5,117,556
3"	7,802	80	624,160
4"	13,000	38	494,000
6"	26,010	42	1,092,420
8"	41,615	16	665,840
10"	59,824	1	59,824
Subtotal Customer Charges			\$ 14,424,513
Commercial Consumption Charges	\$ 5.120	4,694,089	\$ 24,033,736
Industrial Consumption Charges	\$ 3.292	655,659	2,158,429
Total Non-Residential			\$ 40,616,678
Total User Fee Revenue			\$ 95,920,650
Non-User Fee Revenue			
Pretreatment Fees			\$ 1,066,370
Connection Permit Fees			123,319
Real Estate Closing Fee			15,990
Abatement Application Fee			2,188
Returned Check Fee			20,670
Collection Posting Notice Fee			-
REC Income Field's Point Turbines			114,066
REC Income WED Turbines			38,273
REC Income WED Solar			-
Septage Income			333,037
Interest Income Revenue			136,230
Interest Income O & M			63,177
Late Charge Penalty			796,362
Environmental Enforcement			3,400
Discounts Earned			4,743
Miscellaneous Income			30,733
Rental Revenue			79,475
Total Non-User Fee Revenue			\$ 2,828,033
Total Revenue			\$ 98,748,683
Total Revenue Per Audit			\$ 98,748,270
Difference			\$ 413

Narragansett Bay Commission
Adjusted Test Year Revenue by Source

Revenue Item Description	Test Year Rates (Docket 4602)	Debt Compliance Increase (Assumed Effective 01/01/2019)	Adjusted Test Year Rates	Test Year Units	Test Year Revenue
User Charge Revenue					
<u>Residential</u>					
Dwelling Units	\$ 218.80	2.98%	\$ 225.32	119,798	\$ 26,992,885
Consumption	\$ 3.531	2.98%	\$ 3.636	8,233,501	29,937,010
Total Residential					\$ 56,929,895
<u>Non-Residential</u>					
Commercial and Industrial Customer Charges					
5/8"	\$ 523	2.98%	\$ 539	3,530	\$ 1,902,670
3/4"	782	2.98%	805	1,014	816,270
1"	1,300	2.98%	1,339	1,216	1,628,224
1 1/2"	2,607	2.98%	2,685	825	2,215,125
2"	4,164	2.98%	4,288	1,229	5,269,952
3"	7,802	2.98%	8,034	80	642,720
4"	13,000	2.98%	13,387	38	508,706
6"	26,010	2.98%	26,785	42	1,124,970
8"	41,615	2.98%	42,855	16	685,680
10"	59,824	2.98%	61,607	1	61,607
Subtotal Customer Charges					\$ 14,855,924
Commercial Consumption Charges	\$ 5.120	2.98%	\$ 5.273	4,694,089	\$ 24,751,931
Industrial Consumption Charges	\$ 3.292	2.98%	\$ 3.390	655,659	2,222,684
Total Non-Residential					\$ 41,830,539
Total User Fee Revenue					\$ 98,760,434
Non-User Charge Revenue					
					\$ 1,066,370
					123,319
					204,120
					6,720
					20,670
					-
					114,066
					38,273
					-
					333,037
					136,230
					63,177
					796,362
					-
					4,743
					30,733
					79,475
Total Non-User Fee Revenue					\$ 3,017,295
Total Revenue					\$ 101,777,729

Narragansett Bay Commission
Three Year History

Account Number	Account Description	FY 2016	FY 2017	FY 2018
Revenue				
41000	Flat Fees Residential	\$ 25,572,039	\$ 26,057,961	\$ 26,231,403
41100	Consumption Fee - Residential	28,834,858	29,827,327	29,072,492
41501	Flat Fees Commercial	13,473,120	13,674,958	13,723,826
41502	Flat Fees Industrial	737,425	705,464	700,351
41510	Consumption Fee - Commercial	24,061,767	24,335,946	24,033,736
41511	Consumption Fee - Industrial	3,399,414	2,008,501	2,158,429
42000	Pretreatment Fees	1,088,763	1,090,541	1,066,370
42500	Connection Permit Fees	124,450	145,713	123,319
42599	Real Estate Closing Fee	-	-	15,990
42600	Abatement Application Fee	3,296	2,808	2,188
42602	Returned Check Fee	5,840	4,320	20,670
42603	Miscellaneous Operating Income	2,274	-	-
42604	REC Income Field's Point Turbines	360,850	463,701	114,066
42605	REC Income WED Turbines	-	117,306	38,273
43500	Septage Income	358,719	328,590	333,037
45100	Interest Income Revenue	5,505	63,522	136,230
45200	Interest Income O & M	-	17,354	63,177
45500	Late Charge Penalty	932,178	874,396	796,362
46500	Environmental Enforcement	50,000	18,500	3,400
49000	Discounts Earned	4,100	4,070	4,743
49002	Miscellaneous Income	96,409	144,100	30,733
49003	Rental Revenue	103,347	104,337	79,475
47504	Grant Revenue	4,910	-	-
Total: Revenue		\$ 99,219,264	\$ 99,989,415	\$ 98,748,270
Operation & Maintenance Expense				
<u>Personnel</u>				
52100	Union - Regular	\$ 5,989,945	\$ 6,165,646	\$ 5,837,666
52150	Union Overtime	453,167	591,401	585,669
52300	Non-Union Regular	9,779,165	9,737,743	9,937,147
52350	Non-Union Overtime	102,704	134,578	167,974
52400	Non-Union Limited	4,149	9,589	19,209
52800	Union Pension	2,062,623	1,486,171	1,758,798
52810	FICA	1,177,226	1,185,091	1,192,404
52820	Unemployment	17,204	21,111	15,353
52920	Non Union Pension	978,254	732,416	579,166
52940	Union Retirement Health	352,684	351,972	318,478
52950	Health Insurance	3,426,833	3,718,164	3,934,797
52970	Dental Insurance	297,101	309,015	294,725
52980	Vision Insurance	42,541	44,416	45,532
52990	Disability Insurance	38,117	39,690	40,901
Total: Personnel		\$ 24,721,713	\$ 24,527,003	\$ 24,727,819
59000	Salary Reimbursement	(1,175,013)	(1,171,415)	(1,025,156)
59001	Fringe Reimbursement	(642,909)	(635,223)	(546,081)
Net: Personnel		\$ 22,903,791	\$ 22,720,365	\$ 23,156,582
<u>Operating Supplies/Expense</u>				
52610	Medical Services	\$ 10,633	\$ 11,064	\$ 9,328
53200	Bad Debt Expense	33,290	37,270	97,396
53210	Postage	409,300	390,329	392,555
53240	Dues & Subscriptions	50,415	57,840	56,310
53250	Freight	40,507	39,957	46,775
53310	Printing & Binding	135,614	135,859	134,638
53320	Advertising	8,241	13,272	8,752
53330	Rental- Equipment	17,268	53,179	13,594
53340	Rental- Clothing	33,238	28,263	22,783
53350	Rental-Outside Property	350	296,432	283,111
53360	Miscellaneous Expense	4,467	3,524	4,956
53370	Public Outreach Education	30,370	30,408	42,358
53380	Environmental Enforcement	13,500	17,100	21,000

Narragansett Bay Commission
Three Year History

Account Number	Account Description	FY 2016	FY 2017	FY 2018
53410	Local Travel	4,192	3,108	1,737
53420	Long Distance Travel	55,766	53,989	66,979
53470	Building & Ground Maintenance	151,466	173,172	222,421
53480	Biosolids Disposal	4,300,632	4,443,909	4,731,063
53490	Screening & Grit Disposal	136,901	150,410	210,874
53510	Vehicle Fuel & Maintenance	181,819	183,476	191,410
53610	Repairs Building, Structure, Equipment	713,350	692,978	848,496
53620	Repair-Highway & Walks	6,867	8,348	4,528
53630	Maintenance Contracts	979,910	1,064,750	1,125,399
53635	Maintenance Contracts - Office Equipment	-	99,556	132,703
53640	Service Agreements	281,480	187,169	362,767
53650	Highway & Landscape	11,120	12,076	12,397
53660	Insurance	601,092	577,382	668,632
53680	Workers' Compensation Insurance	393,571	443,789	436,708
53690	Workers' Compensation - Old Claims	-	200	-
53900	Central Phone Svcs.	3,459	3,762	4,761
54000	Telephone	174,054	178,644	186,299
54020	Fuel Oil #2 - Diesel	21,108	9,770	22,515
54060	Fuel-Gas	264,965	288,322	371,847
54090	Electricity	3,285,703	2,360,438	3,704,375
54091	Net Metering Credit	-	-	(1,550,082)
54095	WED PPA	-	-	155,088
54110	Water	53,923	66,601	78,619
54200	Clothing	34,465	34,012	28,628
54332	Chlorine/Hypochlorite	333,192	342,263	363,657
54333	Carbon Feed	29,038	79,218	2,890
54335	Polymer	54,730	104,826	105,078
54336	Sodium Hydroxide	51,305	46,227	-
54337	Sodium Bisulfite	245,645	252,640	288,794
54338	Soda Ash	-	-	45,192
54339	UV Disinfection	-	234,958	151,801
54340	Lab Supplies	358,344	357,969	346,650
54370	Supplies Building & Maintenance	421,497	506,364	468,542
54410	Educational Supplies & Expense	60,661	66,870	58,745
54420	Computer Supplies	77,712	84,730	95,302
54430	Other Operating Supplies & Expense	7,244	9,999	13,253
54440	Safety Equipment	44,692	49,374	53,415
54500	Office Expense	96,798	100,245	98,465
57800	Bond And Note Fees	823,930	109,321	23,485
Total: Operating Supplies/Expense		\$ 15,047,824	\$ 14,495,362	\$ 15,266,989
Professional Services				
52600	Regulatory Expense	\$ 405,139	\$ 445,402	\$ 514,986
52650	Security Services	32,072	36,539	32,787
52660	Legal Services	177,336	192,826	200,062
52670	Management/Audit Services	181,256	177,256	188,918
52680	Clerical Services	50,340	52,376	67,777
52690	Other Services	172,966	174,044	192,411
Total: Professional Services		\$ 1,019,109	\$ 1,078,443	\$ 1,196,941
Total: Operations & Maintenance Expense		\$ 38,970,724	\$ 38,294,170	\$ 39,620,512
Depreciation				
57500	Depreciation	\$ 14,091,320	\$ 15,593,700	\$ 16,091,344
Total: Depreciation		\$ 14,091,320	\$ 15,593,700	\$ 16,091,344
Debt Service				
	Interest	\$ 17,734,236	\$ 17,899,683	\$ 17,994,682
Total: Debt Service		\$ 17,734,236	\$ 17,899,683	\$ 17,994,682
Total: Revenue Requirement		\$ 70,796,280	\$ 71,787,553	\$ 73,706,538
Net Income		\$ 28,422,984	\$ 28,201,862	\$ 25,041,732

Narragansett Bay Commission
Calculation of Collection Notice Posting, Real Estate Closing, and Abatement Application Fees & Revenue

Title Abbreviation	Title	Average Hourly Rate
FC	Fiscal Clerk	\$ 25.00
CSR	Customer Service Representative	23.00
FI	Field Investigator	23.00
SA	Staff Accountant	28.00
CSS	Supervisor	36.00
	Overhead Rate	55%

Collection Notice Posting Fee				
Task Description	Minutes	Staff	Rate	Cost
CSS reviews and determines whether to post property; Posting notice is prepared	15	CSS	\$ 36.00	\$ 9.00
FI travels to premise and posts notice on door and notes account	60	FI	23.00	23.00
				<u>\$ 32.00</u>
			NBC Overhead (\$32 x 55% overhead rate)	17.60
				<u><u>\$ 50.00</u></u>

Annual Collection Notice Postings 4,260

Projected Rate Year Revenue \$ 213,000

Adjusted Test Year Revenue -

Rate Year Adjustment \$ 213,000

Real Estate Closing Fee				
Task Description	Minutes	Staff	Rate	Cost
CSR processes closing request	20	CSR	\$ 23.00	\$ 7.67
CSS follows up daily to ensure payment is received	20	CSS	36.00	12.00
				<u>\$ 19.67</u>
			NBC Overhead (\$32 x 55% overhead rate)	10.82
				<u><u>\$ 30.00</u></u>

Annual Real Estate Closings 6,804

Adjusted Test Year Revenue \$ 204,120

Test Year Revenue 15,990

Test Year Adjustment \$ 188,130

Abatement Application Fee				
Task Description	Minutes	Staff	Rate	Cost
FC debits fee and posts check	10	FC	\$ 25.00	\$ 4.17
FI conducts site visit and inspection	60	FI	23.00	23.00
CSS approves application and sends letter	20	CSS	36.00	12.00
CSR adds abatement meter to account	15	CSR	23.00	5.75
				<u>\$ 44.92</u>
			NBC Overhead (\$32 x 55% overhead rate)	24.70
				<u><u>\$ 70.00</u></u>

Annual Abatement Applications 96

Adjusted Test Year Revenue \$ 6,720

Test Year Revenue 2,188

Test Year Adjustment \$ 4,532

**Narragansett Bay Commission
Test Year Pension Adjustment**

		Test Year 6/30/2018	Test Year Adjustments	Adjusted Test Year FY 2018
52800	Union Pension	\$ 1,758,798	\$ (159,861)	\$ 1,598,937
52920	Non Union Pension	579,166	431,346	1,010,512
52940	Union Retirement Health	318,478	30,031	348,509

		Test Year Salaries	Rate	Adjusted Test Year Pension Expense
52100	Union - Regular	\$ 5,837,666	27.39%	\$ 1,598,937
52300	Non-Union Regular	9,937,147		
52350	Non-Union Overtime	167,974		
	Total Non-Union	<u>10,105,121</u>	10.00%	\$ 1,010,512
52940	Union Retirement Health	\$ 5,837,666	5.97%	\$ 348,509

**Narragansett Bay Commission
Test Year Personnel Adjustment**

	Union Salary Account 52100		Non-Union Regular Account 52300
Adjusted Test Year FY 2018	\$ 5,837,666	\$	9,937,147
7/1/18 Contracted Steps	91,068		-
Base Salary	\$ 5,928,734	\$	9,937,147
7/1/18 COLA/Merit	2.50%		2.50%
7/1/18 Total Salaries	\$ 6,076,952	\$	10,185,576
7/1/19 Contracted Steps	47,400		-
Base Salary	\$ 6,124,352	\$	10,185,576
7/1/19 COLA/Merit	2.50%		2.50%
Rate Year	\$ 6,277,461	\$	10,440,215
Rate Year Adjustment	\$ 439,795	\$	503,068

Union Steps
1.56%
Union
2.50%
Non-Union
2.50%

	Salary Reimbursement Account 59000		Fringe Reimbursement Account 59001
Adjusted Test Year	\$ (1,025,156)	\$	(546,081)
7/1/18 Merit	2.5%		2.5%
FY 2018	\$ (1,050,785)	\$	(559,733)
7/1/19 Merit	2.5%		2.5%
Rate Year	\$ (1,077,055)	\$	(573,726)
Adjusted Test Year	\$ (1,025,156)	\$	(546,081)
Rate Year Adjustment	\$ (51,899)	\$	(27,645)

	Union Overtime Account 52150		Non-Union Overtime Account 52350		Non-Union Limited Account 52400
Adjusted Test Year FY 2018	\$ 585,669	\$	167,974	\$	19,209
7/1/18 Contracted Steps	14,642		-		
Base Salary	\$ 600,311	\$	167,974	\$	19,209
7/1/18 COLA/Merit	2.5%		2.5%		2.5%
7/1/18 Total Salaries	\$ 615,318	\$	172,173	\$	19,689
7/1/19 Contracted Steps	15,383				
Base Salary	\$ 630,701	\$	172,173	\$	19,689
7/1/19 COLA/Merit	2.50%		2.50%		2.50%
Rate Year	\$ 646,469	\$	176,478	\$	20,181
Adjusted Test Year	\$ (585,669)	\$	(167,974)	\$	(19,209)
Rate Year Adjustment	\$ 60,800	\$	8,504	\$	972

FICA Account 52810				
	Social Security		Medicare	Total
Rate Year Salaries	\$ 16,717,676	\$	16,717,676	\$ 33,435,352
Overtime & Limited	843,128		843,128	1,686,256
Wages Over FICA Limit	(325,000)		-	(325,000)
Wages Subject to FICA	\$ 17,235,804	\$	17,560,804	\$ 34,796,608
Percent	6.20%		1.45%	
Rate Year	\$ 1,068,620	\$	254,632	\$ 1,323,252
Adjusted Test Year				\$ 1,192,404
Rate Year Adjustment				\$ 130,848

	Union Retirement Account 52800		Union Retiree Health Account 52940		Non-Union Retirement Account 52920
Salaries	\$ 6,277,461	\$	6,277,461	\$	10,440,215
Overtime & Limited	-		-		196,659
	\$ 6,277,461	\$	6,277,461	\$	10,636,874
Employer Contribution Rate	27.39%		6.65%		10%
Rate Year	\$ 1,719,397	\$	417,451	\$	1,063,687
Adjusted Test Year	\$ 1,598,937	\$	348,509	\$	1,010,512
Rate Year Adjustment	\$ 120,460	\$	68,942	\$	53,175

Narragansett Bay Commission
Health Insurance - 52950

		Health Insurance Account 52950
Adjusted Test Year FY 2018		\$ 3,934,797
7/1/19 Increase		5.84%
	7/1/19 Total Health	\$ 4,164,688
7/1/20 Increase		5.84%
	7/1/20 Total Health	\$ 4,408,011
Rate Year Adjustment		\$ 473,214

**Narragansett Bay Commission
Trend Accounts**

Account Number	Account Description	FY 2016	FY 2017	Adjusted Test Year FY 2018	Average Annual Increase	Projected FY 2019	Rate Year FY 2020	Rate Year Adjustment
53470	Building & Ground Maintenance	\$ 151,466	\$ 173,172	\$ 222,421	23%	\$ 273,578	\$ 336,501	\$ 114,080
53610	Repairs Building, Structure, Equipment	713,350	692,978	848,496	9%	924,861	1,008,098	159,602

**Narragansett Bay Commission
Average Accounts**

Account Number	Account Description	FY 2016	FY 2017	Adjusted Test Year FY 2018	Three-Year Average	Rate Year FY 2020	Rate Year Adjustment
53210	Postage	\$ 409,300	\$ 390,329	\$ 392,555	\$ 397,395	\$ 397,395	\$ 4,840
54339	UV Disinfection	-	234,958	151,801	193,380	193,380	41,579
54340	Lab Supplies	358,344	357,969	346,650	354,321	354,321	7,671
54370	Supplies Building & Maintenance	421,497	506,364	468,542	465,467	465,467	(3,075)

**Narragansett Bay Commission
Biosolids Disposal - 53480**

CPI Projection			
November	CPI	Increase	Percent Change
2017	268.524	7.82	3.00%
2018			3.00%
2019			3.00%
2020			

Projected Disposal Rate		
Contract Period	Rate	Percent Change
Jan 2017 - Dec 2017	442.11	103.0%
Jan 2018 - Dec 2018	455.37	103.0%
Jan 2019 - Dec 2019	469.03	103.0%
Jan 2020 - Dec 2020	483.10	103.0%

Biosolids Dry Tons Production						
	FY 2016	FY 2017	FY 2018	% Increase	Projected FY 2019	Rate Year FY 2020
Bucklin Point	2,146	2,090	2,033	(2.63%)	1,980	1,928
Field's Point	7,746	8,026	8,465	4.64%	8,858	9,269
Total	9,892	10,116	10,498		10,838	11,197

Rate Year Biosolids Expense Account 53480			
	Dry Tons	Rate	Total Rate Year
July 2019 - Dec 2019	5,599	\$ 469.03	\$ 2,625,864
Jan 2020 - June 2020	5,599	483.10	2,704,635
	<u>11,197</u>		<u>\$ 5,330,499</u>
		Adjusted Test Year	\$ 4,731,063
		Rate Year Adjustment	<u><u>\$ 599,436</u></u>

**Narragansett Bay Commission
Maintenance Contracts - 53630**

	Actual	Rate Year
FY 2016	\$ 979,910	
FY 2017	1,064,750	
FY 2018	1,125,399	
Average Annual Increase	1.5%	
Adjusted Test Year		<u>\$ 1,009,627</u>
Projected FY 2019		\$ 1,024,936
Projected Rate Year		\$ 1,040,477
Adjusted Test Year		<u>\$ 1,009,627</u>
Rate Year Adjustment		<u><u>\$ 30,850</u></u>

**Narragansett Bay Commission
Insurance - 53660**

	Actual	Rate Year
FY 2016	\$ 601,092	
FY 2017 ¹	577,382	
FY 2018	666,641	
Average Annual Increase	5.0%	
Actual FY 2019	\$ 713,351	
Projected Rate Year	\$ 749,018	
Adjusted Test Year		<u>668,632</u>
Rate Year Adjustment	\$	<u><u>80,386</u></u>

¹ Includes \$65,460 in credits for flood policies due to rezoning of the property/buildings. The credits pertained to the FY 2015 & FY 2016 policy years but were applied to FY 2017.

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

	Actual	Rate Year
FY 2016	\$ 393,571	
FY 2017	443,789	
FY 2018	436,708	
Average Annual Increase	5.0%	
FY 2019 Premium		<u>\$ 540,984</u>
	Rate Year	\$ 568,033
	Test Year	<u>\$ 439,801</u>
	Rate Year Adjustment	<u><u>\$ 128,232</u></u>

**Narragansett Bay Commission
Electricity - 54090**

Computation of Rate Year Electricity Rate							
Rate Assumptions	Corporate Office Building	Field's Point	Tunnel Pump Station	Bucklin Point	Interceptor Maintenance	% Increase	
Monthly Customer Charge	\$ 836	\$ 826	\$ 826	\$ 842	\$ 1,442		
Projected Supply (7/1/19-6/30/2020)	0.08690	0.08690	0.08690	0.08690	0.08690	113%	
Prior Fiscal Year Average Delivery per kwh	0.05469	0.06515	0.06406	0.05555	0.11092		
Rhode Island Gross Earnings Tax (RIGET)	0.04167	0.04167	0.04167	0.04167	0.04167		

Computation of Rate Year Electricity Purchases - kWh							
FY 2020 Rate Year KWh Purchases	Corporate Office Building	Field's Point	Tunnel Pump Station	Total Field's Point	Bucklin Point	Interceptor Maintenance	Total Purchased
Two-Year Average kwh	2,019,143	7,547,708	5,554,800	13,102,508	12,173,000	1,052,036	28,346,687

Computation of Rate Year Electricity Expense							
FY 2020 Rate Year Expense	Corporate Office	Field's Point	Tunnel Pump Station	Total Field's Point	Bucklin Point	Interceptor Maintenance	Total Expense
Annual Customer Charge	\$ 10,038	\$ 9,909	\$ 9,909	\$ 19,818	\$ 10,105.32	\$ 17,307.72	\$ 57,268
Annual Supply	175,457	655,873	482,695	1,138,569	1,057,797	91,419	2,463,242
Annual Delivery	110,427	491,733	355,840	847,574	676,210	116,693	1,750,904
<i>Subtotal</i>	<i>\$ 295,922</i>	<i>\$ 1,157,515</i>	<i>\$ 848,445</i>	<i>\$ 2,005,960</i>	<i>\$ 1,744,113</i>	<i>\$ 225,419</i>	<i>\$ 4,271,414</i>
Rhode Island Gross Earnings Tax	12,330	48,229	35,351	83,580	72,670	9,392	177,973
with RIGET	\$ 308,252	\$ 1,205,744	\$ 883,796	\$ 2,089,540	\$ 1,816,783	\$ 234,812	\$ 4,449,386
<i>avg. \$/kWh</i>	<i>\$ 0.1527</i>	<i>\$ 0.1597</i>	<i>\$ 0.1591</i>	<i>\$ 0.1595</i>	<i>\$ 0.1492</i>	<i>\$ 0.2232</i>	<i>\$ 0.1570</i>

Contracted Supply Year	Contracted Supply Rate	Year over Year Increase	Two-year Average Increase
FY 2017	\$ 0.06010		
FY 2018	0.06336	105%	
FY 2019	0.07690	121%	113%

**Narragansett Bay Commission
Net Metering Credit - 54091 & WED PPA - 54095**

WED Turbines	kWh Production			
	2017	Number of Months	2018	Rate Year Projected
WED 1	2,275,032	8	2,762,872	2,762,872
WED 3	3,170,256	12	3,170,200	3,170,200
WED 4	2,586,284	11	2,656,618	2,656,618
Total	8,031,572		8,589,690	8,589,690

WED Solar	kWh Production			
	2018	Months	Straightlined 2018	Projected Rate Year
K1	647,988	5	1,555,171	1,555,171
K2	1,163,293	5	2,791,903	2,791,903
Total			4,347,074	4,347,074

Projected Net Metering Credit (NMC) Rate: \$ 0.147 per kWh

	Rate Year kWh	NMC Rate	Rate Year NMC
WED Turbines	8,589,690	\$ 0.147	\$ 1,262,684
Solar	4,347,074	0.147	639,020
Total Net Metering Credit			\$ 1,901,704

Account 54095 Solar PPA @ 75% of Solar NMC \$ 479,265

	Test Year	Test Year Adjustments	Adjusted Test Year	Rate Year Adjustment	Rate Year
Account 54091 - Net Metering Credit	\$ (1,550,082)	\$ -	\$ (1,550,082)	\$ (351,622)	\$ (1,901,704)
Account 54095 - WED PPA	155,088	-	155,088	324,177	479,265

Narragansett Bay Commission
Adjustments Related to Renewable Energy O&M Expense

	Test Year	Test Year Adjustments	Adjusted Test Year	Rate Year Adjustment	Rate Year
Account 52690 - Other Services	\$ 192,411	\$ -	\$ -	\$ -	\$ -
Field's Point Third Party Meter Reading	-	(9,738)	-	-	-
Account 52690 - Other Services	<u>\$ 192,411</u>	<u>\$ (9,738)</u>	<u>\$ 182,674</u>	<u>\$ -</u>	<u>\$ 182,674</u>
Account 53350 - Rental Outside Property	\$ 283,111	\$ -	\$ -	\$ -	\$ -
WED Turbine Management and Maintenance	-	(45,900)	-	-	-
WED O&M Service Agreement	-	(101,150)	-	-	-
WED Land Lease & Town Tax	-	(110,010)	-	-	-
WED - NEPOOL Fees	-	(6,569)	-	-	-
WED REC Monitoring and Certification	-	(1,250)	-	-	-
WED Phone, data and security fees	-	(4,791)	-	-	-
Account 53350 - Rental Outside Property	<u>\$ 283,111</u>	<u>\$ (269,670)</u>	<u>\$ 13,441</u>	<u>\$ -</u>	<u>\$ 13,441</u>
Account 54903 - WED Turbines					
WED Turbine Management and Maintenance	\$ -	\$ 45,900	\$ -	\$ 5,100	\$ 5,100
WED O&M Service Agreement	-	101,150	-	13,850	13,850
WED Land Lease & Town Tax	-	110,010	-	4,990	4,990
WED - NEPOOL Fees	-	6,569	-	10,431	10,431
WED REC Monitoring and Certification	-	1,250	-	8,750	8,750
WED Phone, data and security fees	-	4,791	-	7,209	7,209
WED Miscellaneous	-	-	-	10,000	10,000
Account 54903 - WED Turbines	<u>\$ -</u>	<u>\$ 269,670</u>	<u>\$ 269,670</u>	<u>\$ 60,330</u>	<u>\$ 330,000</u>
Account 53630 - Maintenance Contracts	\$ 1,125,399	\$ -	\$ -	\$ -	\$ -
Field's Point Wind Turbine Maintenance Contract	-	(115,772)	-	-	-
Account 53630 - Maintenance Contracts	<u>\$ 1,125,399</u>	<u>\$ (115,772)</u>	<u>\$ 1,009,627</u>	<u>\$ -</u>	<u>\$ 1,009,627</u>
Account 54902 - Field's Point Turbines					
Field's Point Wind Turbine Maintenance Contract	\$ -	\$ 115,772	\$ 115,772	\$ 58,228	\$ 174,000
Field's Point Third Party Meter Reading	-	9,738	9,738	263	10,000
Account 54902 - FP Turbines	<u>\$ -</u>	<u>\$ 125,510</u>	<u>\$ 125,510</u>	<u>\$ 58,491</u>	<u>\$ 184,000</u>

Narragansett Bay Commission
Renewable Energy Credit Revenue - 42604, 42605, 42606

	kWh Production Rate Year	RECs	Rate	Rate Year Revenue
42604 - Field's Point Wind Turbines	7,543,661	7,544	20.63	155,595
42605 - WED Turbines				
WED 1	2,762,872	2,763	\$ 20.63	\$ 56,987
WED 3	3,170,200	3,170	20.63	65,381
WED 4	2,656,618	2,657	20.63	54,801
42606 - Solar PPA				
K1	1,555,171	1,555	20.63	32,072
K2	2,791,903	2,792	20.63	57,585
			Total	<u>\$ 422,421</u>

Field's Point kWh Production

2016	7,111,499
2017	7,747,293
2018	7,772,190
Average	7,543,661

	Price per REC
Current contract for REC's generated in 2018	\$16.25
Current contract for REC's generated in 2019	\$25.00
Average	\$20.63

Using the average, which is lower than the latest 2019 contract, provides a conservative estimate based on latest market conditions.

Excerpt from Karbone Research:

New England's Class I REC market has been persistently oversupplied throughout 2017 and into the first quarter of 2018. 2017 generation increased by 19.10% across all resources, with 1Q2018 rising 6.24% YoY. Wind has continued to be the dominant resource in the New England market, accounting for an average of 30.50% of total Class I certificates generated over the past 8 quarters. 2017 saw a combined 758.63 MW of new MA and CT Class I eligible wind installation come online, well above the 10- and 5-year rolling averages of 461.72 MW and 358.20 MW, respectively.

Narragansett Bay Commission
Calculation of Sewer Connection Application Costs

Direct Sewer Connection Application Cost						
Task	Person	Time (mins)	Hourly Rate	Overhead (@ 55%)	Total Hourly Rate	Total Cost
INTERCEPTOR MAINTENANCE REVIEW						
1. Review permit application package for completeness	Permits Coordinator	15	\$ 25.00	\$ 13.75	\$ 38.75	\$ 9.69
2. Scan plans and prepare GIS, google maps	Permits Coordinator	15	25.00	13.75	38.75	9.69
3. Complete permit input in permit program	Permits Coordinator	25	25.00	13.75	38.75	16.15
4. Request review by IM	Permits Coordinator	5	25.00	13.75	38.75	3.23
a. Direct Connection Plan Review	Senior Technical Assistant	45	36.00	19.80	55.80	41.85
i. Inspection at site	Senior Technical Assistant	75	36.00	19.80	55.80	69.75
ii. Process Report/Pictures	Senior Technical Assistant	20	36.00	19.80	55.80	18.60
iii. Transportation	Senior Technical Assistant	45	36.00	19.80	55.80	41.85
ENGINEERING REVIEW						
6. Prepare fee memo deliver check to accounting	Permits Coordinator	10	25.00	13.75	38.75	6.46
ACCOUNTING PROCESSES CHECK						
a. Send Checks to Customer Service for deposit	Staff Accountant	10	36.00	19.80	55.80	9.30
b. When deposit is confirmed pick up checks	Staff Accountant	10	36.00	19.80	55.80	9.30
c. Process information in Oracle	Staff Accountant	10	36.00	19.80	55.80	9.30
ENGINEERING						
7. Prepare letters, forms, permit and labels	Permits Coordinator	25	25.00	13.75	38.75	16.15
8. Enter information into NBC-GIS program	Permits Coordinator	15	25.00	13.75	38.75	9.69
9. Scan file information	Permits Coordinator	15	25.00	13.75	38.75	9.69
10. Mail and/or call permittee	Permits Coordinator	5	25.00	13.75	38.75	3.23
11. Enter scanned information into sharepoint files	Permits Coordinator	15	25.00	13.75	38.75	9.69
Total						\$ 300.00

Indirect Sewer Connection Application Cost						
Task	Person	Time (mins)	Hourly Rate	Overhead (@ 55%)	Total Hourly Rate	Total Cost
INTERCEPTOR MAINTENANCE REVIEW						
1. Review permit application package for completeness	Permits Coordinator	15	\$ 25.00	\$ 13.75	\$ 38.75	\$ 9.69
2. Scan plans and prepare GIS, google maps	Permits Coordinator	15	25.00	13.75	38.75	9.69
3. Complete permit input in permit program	Permits Coordinator	25	25.00	13.75	38.75	16.15
4. Request review by IM	Permits Coordinator	5	25.00	13.75	38.75	3.23
a. Indirect Connection Plan Review	Senior Technical Assistant	10	36.00	19.80	55.80	9.30
ENGINEERING REVIEW						
6. Prepare fee memo deliver check to accounting	Permits Coordinator	10	25.00	13.75	38.75	6.46
ACCOUNTING PROCESSES CHECK						
a. Send Checks to Customer Service for deposit	Staff Accountant	10	36.00	19.80	55.80	9.30
b. When deposit is confirmed pick up checks	Staff Accountant	10	36.00	19.80	55.80	9.30
c. Process information in Oracle	Staff Accountant	10	36.00	19.80	55.80	9.30
ENGINEERING						
7. Prepare letters, forms, permit and labels	Permits Coordinator	25	25.00	13.75	38.75	16.15
8. Enter information into NBC-GIS program	Permits Coordinator	15	25.00	13.75	38.75	9.69
9. Scan file information	Permits Coordinator	15	25.00	13.75	38.75	9.69
10. Mail and/or call permittee	Permits Coordinator	5	25.00	13.75	38.75	3.23
11. Enter scanned information into sharepoint files	Permits Coordinator	15	25.00	13.75	38.75	9.69
Total						\$ 130.00

Narragansett Bay Commission
Natural Gas - 54060

Natural Gas Rates	COB	Laboratory	WQSB	Field's Point	Tunnel Pump Station	ESPS	Bucklin Point Administration	Bucklin Point Plant	Bucklin Point Exchange	Interceptor Maintenance
Customer Charge	\$ 70.81	\$ 22.81	\$ 175.81	\$ 175.81	\$ 175.81	\$ 70.81	\$ 70.81	\$ 175.81	\$ 70.81	\$ 162.05
Supply (6/01/18-5/31/21)	0.5220	0.5220	0.5220	0.5220	0.5220	0.5220	0.5220	0.5220	0.5220	0.5220
Average Delivery per therm	0.4211	0.4211	0.3220	0.4329	0.4377	0.3319	0.3660	0.4115	0.5106	0.5198
Rhode Island Gross Earnings Tax	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309

Therms	COB	Laboratory	WQSB	Field's Point	Tunnel Pump Station	ESPS	Bucklin Point Administration	Bucklin Point Plant	Bucklin Point Exchange	Interceptor Maintenance	Total
Rate Year (2 year average)	19,568	3,812	53,643	96,184	37,448	20,867	6,589	47,817	35,989	13,049	334,966
Annual Customer Charge	\$ 850	\$ 274	\$ 2,110	\$ 2,110	\$ 2,110	\$ 850	\$ 850	\$ 2,110	\$ 850	1,946	\$ 14,057
Annual Supply	10,214	1,990	28,002	50,208	19,548	10,893	3,439	24,960	18,786	6,812	174,852
Annual Delivery	8,240	1,605	17,273	41,638	16,391	6,926	2,412	19,677	18,376	6,783	139,320
Subtotal	\$ 19,304	\$ 3,869	\$ 47,384	\$ 93,956	\$ 38,049	\$ 18,668	\$ 6,701	\$ 46,747	\$ 38,012	\$ 15,540	\$ 328,230
Gross Earnings Tax	597	120	1,465	2,906	1,177	577	207	1,446	1,176	481	10,151
with RIGET	\$ 19,901	\$ 3,988	\$ 48,850	\$ 96,862	\$ 39,225	\$ 19,245	\$ 6,908	\$ 48,193	\$ 39,188	\$ 16,021	\$ 338,381
avg. \$/therm	\$ 1.0170	\$ 1.0462	\$ 0.9107	\$ 1.0070	\$ 1.0475	\$ 0.9223	\$ 1.0484	\$ 1.0079	\$ 1.0889	\$ 1.2278	\$ 1.0102

Rate Year \$ 338,381

Adjusted Test Year \$ 371,847

Rate Year Adjustment \$ (33,466)

Narragansett Bay Commission
Chemicals
Hypochlorite - 54332 and Bisulfite - 54337

Hypochlorite (Account 54332)	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Rate per Gallon	Rate Year
Rate per Gallon*	\$ 0.4719	\$ 0.5107	\$ 0.5209	\$ 0.5209	2.0%		
Field's Point (gallons)	661,100	632,414	660,061	651,192	651,192	\$ 0.5313	\$ 345,978
Bucklin Point (gallons)	44,965	37,770	38,070	40,268	40,268	0.5313	21,395
Total	<u>706,065</u>	<u>670,184</u>	<u>698,131</u>	<u>691,460</u>	<u>691,460</u>		<u>\$ 367,373</u>
					Adjusted Test Year		<u>363,657</u>
					Rate Year Adjustment		<u>\$ 3,716</u>

Bisulfite (Account 54337)	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Rate per Gallon	Rate Year
Rate per Gallon*	\$ 1.0733	\$ 1.0300	\$ 1.1200	\$ 1.1200	8.7%		
Field's Point (gallons)	201,728	220,794	233,680	218,734.00	218,734.00	\$ 1.2174	\$ 266,287
Bucklin Point (gallons)	22,461	24,489	24,171	23,707	23,707	1.2174	28,861
Total	<u>224,189</u>	<u>245,283</u>	<u>257,851</u>	<u>242,441</u>	<u>242,441</u>		<u>\$ 295,148</u>
					Adjusted Test Year		<u>288,794</u>
					Rate Year Adjustment		<u>\$ 6,354</u>

* 2 year contract

Narragansett Bay Commission
Regulatory Expense - 52600

	PUC Assessment
FY 2016	\$ 381,071
FY 2017	406,137
FY 2018	494,662
Annual Increase from 2017 to 2018	22%
Adjusted Test Year PUC Assessment	\$ 494,662
7/1/19 Increase	22%
7/1/19 Total PUC Assessment	<u>\$ 603,487</u>
7/1/20 Increase	22%
7/1/20 Total PUC Assessment	<u>\$ 736,254</u>
3-Yr Average Other Rate Year Regulatory Expense	\$ 32,019
Normalized Rate Case Expense	<u>50,000</u>
Total Rate Year Regulatory Expense	<u>\$ 818,273</u>
Adjusted Test Year	<u>\$ 514,986</u>
Rate Year Adjustment	<u><u>\$ 303,287</u></u>

**Narragansett Bay Commission
Operating Allowance**

Description	Projected Rate Year
Net Personnel	\$ 25,238,332
Operating Supplies/Expense	17,211,927
Professional Services	1,490,491
Total Operations & Maintenance	\$ 43,940,749

Amount	
Annual Operating Allowance Existing Method	\$ 280,536
Annual Operating Allowance Proposed Method	659,111

Narragansett Bay Commission
Operating Capital Expense

Account Number	Account Description	Amount
16510	Automotive Equipment	\$ 84,903
16520	Building & Plant Equipment	270,842
16580	Office Furniture & Equipment	48,163
16583	Computer Software	1,271,673
16585	Computer Hardware	84,727
16600	Replacement Reserve	<u>2,473,607</u>
	Total Operating Capital	<u>\$ 4,233,915</u>

Narragansett Bay Commission
Debt Service and Debt Service Coverage

	Test Year	Test Year Adjustments	Adjusted Test Year	Rate Year Adjustment	Rate Year
Test Year (interest only)	\$ 17,994,682		\$ 17,994,682		
GAAP Adjustment Principal		27,529,555	27,529,555		
Additional Debt per Compliance		4,589,675	4,589,675		
Total Debt	\$ 17,994,682	\$ 32,119,230	\$ 50,113,912	\$ -	\$ 50,113,912
Debt Service Coverage	\$ -	\$ 12,528,478	\$ 12,528,478	\$ -	\$ 12,528,478

**Narragansett Bay Commission
Billable Consumption**

	FY 2015 Actual	FY 2016 Actual	FY 2017 Actual	FY 2018 Actual	Docket 4478 FY 2018 Projected
<u>Customer Usage (HCF)</u>					
Residential	8,484,354	8,300,215	8,457,830	8,233,501	8,420,893
<i>Change</i>		-2.2%	1.9%	-2.7%	
Commercial	4,771,357	4,771,320	4,755,534	4,694,089	4,763,451
<i>Change</i>		0.0%	-0.3%	-1.3%	
Industrial	477,451	647,064	610,116	655,659	425,475
<i>Change</i>		35.5%	-5.7%	7.5%	
<i>Total: Customer Usage (HCF)</i>	13,733,162	13,718,599	13,823,480	13,583,249	13,609,819
<i>Change</i>		-0.1%	0.8%	-1.7%	

Narragansett Bay Commission
Billable Customers

	FY 2016 Actual	FY 2017 Actual	FY 2018 Test Year	FY 2020 Rate Year	Equivalency Ratio	Equivalent Units
Billable Customers						
<u>Residential Dwelling Units</u>	118,664	119,095	119,728	119,728		
<i>Subtotal: Residential Dwelling Units</i>	118,664	119,095	119,728	119,728		
<i>Change</i>		0.4%	0.5%	0.0%		
<u>Residential Well Customers</u>	65	68	70	70		
<i>Subtotal: Residential Well Customers</i>	65	68	70	70		
<i>Change</i>		4.6%	2.9%	0.0%		
<u>Commercial Meters</u>						
5/8"	3,562	3,558	3,465	3,465	1.00	3,465
3/4"	1,008	1,008	987	987	1.50	1,476
1"	1,148	1,185	1,169	1,169	2.49	2,906
1 1/2"	819	824	797	797	4.98	3,973
2"	1,230	1,206	1,143	1,143	7.96	9,100
3"	76	77	76	76	14.92	1,134
4"	37	36	36	36	24.86	895
6"	41	40	39	39	49.73	1,940
8"	12	13	13	13	79.57	1,034
10"	1	1	1	1	114.39	114
<i>Subtotal: Commercial Meters</i>	7,934	7,948	7,726	7,726		26,037
<i>Change</i>		0.2%	-2.8%	0.0%		
<u>Industrial Meters</u>						
5/8"	69	67	65	65	1.00	65
3/4"	29	29	27	27	1.50	40
1"	51	49	47	47	2.49	117
1 1/2"	30	29	28	28	4.98	140
2"	93	89	86	86	7.96	685
3"	3	4	4	4	14.92	60
4"	3	3	2	2	24.86	50
6"	3	3	3	3	49.73	149
8"	3	3	3	3	79.57	239
10"	-	-	-	-	114.39	-
<i>Subtotal: Industrial Meters</i>	285	274	265	265		1,544
<i>Change</i>		-3.8%	-3.2%	0.0%		
Total: Billable Customers	126,948	127,385	127,789	127,789		27,580
<i>Change</i>		0.3%	0.3%	0.0%		

**Narragansett Bay Commission
User Charge Calculation**

Projected Rate Year Revenue Requirements	\$ 107,249,751
Less: Projected Rate Year Miscellaenous Revenues	(2,526,618)
Net Revenue Requirements to be Recovered through User Charges	\$ 104,723,133

	Rate Year Revenues at Adjusted Test Year Rates	Allocation of Pretreatment Permit Costs	Total Rate Year Revenues at Adjusted Test Year Rates	Total Necessary Rate Year Revenues for Sufficiency
Residential Customer Charges	\$ 26,992,885	\$ -	\$ 26,992,885	\$ 28,456,095
Residential Consumption Charges	29,645,250	-	29,645,250	31,252,237
Commercial & Industrial Flat Fees	14,855,924	-	14,855,924	15,661,223
Commercial Consumption Charges	24,617,966	879,987	25,497,952	26,880,126
Industrial Consumption Charges	2,222,684	123,583	2,346,267	2,473,452
	\$ 98,334,709	\$ 1,003,570	\$ 99,338,279	\$ 104,723,133

Calculation of New User Charges

Residential Customer Charge

Revenue to be Recovered	\$ 28,456,095
Annual Dwelling Units	119,798
Calculated Residential Customer Charge per Dwelling Unit	\$ 237.53

Residential Consumption Charge

Revenue to be Recovered	\$ 31,252,237
Annual Billable Consumption (HCF)	8,153,259
Calculated Residential Consumption Charge per HCF	\$ 3.833

Commercial & Industrial Customer Charge

Revenue to be Recovered	\$ 15,661,223
Annual Equivalent Units	27,580
Calculated Equivalent Customer Charge	\$ 568
Calculated Customer Charge per Meter Size	
5/8"	\$ 568
3/4"	849
1"	1,412
1 1/2"	2,831
2"	4,522
3"	8,473
4"	14,119
6"	28,248
8"	45,196
10"	64,971

Commercial Consumption Charge

Revenue to be Recovered	\$ 26,880,126
Annual Billable Consumption (Hcf)	4,668,683
Calculated Commercial Consumption Charge per HCF	\$ 5.758

Commercial Consumption Charge

Revenue to be Recovered	\$ 2,473,452
Annual Billable Consumption (Hcf)	655,659
Calculated Industrial Consumption Charge per HCF	\$ 3.772

Narragansett Bay Commission
Rate Year Revenue Proof with Rate Increase

Revenue Item Description	Rate Year Rates	Rate Year Units	Rate Year Revenues
User Fee Revenue			
<u>Residential</u>			
Customer Charges (per dwelling unit)	\$ 237.53	119,798	\$ 28,455,619
Consumption Charges (per HCF)	\$ 3.833	8,153,259	31,251,442
Total Residential			\$ 59,707,061
<u>Non-Residential</u>			
Commercial and Industrial Customer Charges (per Meter Size)			
5/8"	\$ 568	3,530	\$ 2,005,040
3/4"	849	1,014	860,886
1"	1,412	1,216	1,716,992
1 1/2"	2,831	825	2,335,575
2"	4,522	1,229	5,557,538
3"	8,473	80	677,840
4"	14,119	38	536,522
6"	28,248	42	1,186,416
8"	45,196	16	723,136
10"	64,971	1	64,971
Subtotal Customer Charges			\$ 15,664,916
Commercial Consumption Charges (per HCF)	\$ 5.758	4,668,683	\$ 26,882,277
Industrial Consumption Charges (per HCF)	\$ 3.772	655,659	\$ 2,473,146
Total Non-Residential			\$ 45,020,339
Total User Fee Revenue			\$ 104,727,400

Non-User Fee Revenues

Pretreatment Fees	\$ 62,800
Connection Permit Fees	43,580
Capacity Charge	109,550
Real Estate Closing Fee	204,120
Abatement Application Fee	6,720
Returned Check Fee	20,670
Collection Posting Notice Fee	213,000
REC Income Field's Point Turbines	155,595
REC Income Wed Turbines	177,169
REC Income WED Solar	89,657
Septage Income	333,037
Interest Income Revenue	136,230
Interest Income O & M	63,177
Late Charge Penalty	796,362
Environmental Enforcement	-
Discounts Earned	4,743
Miscellaneous Income	30,733
Rental Revenue	79,475
Grant Revenue	-
Total Non-User Fee Revenues	\$ 2,526,618

Total Revenues	\$ 107,254,018
Total Revenues Requirement	\$ 107,249,751
Difference (due to rounding)	\$ 4,267

**Narragansett Bay Commission
Annual Bill Impacts**

	Adjusted Test Year	Proposed Rate Year	Dollar Increase	Percent Increase
<u>Residential - 73.2 Hcf</u>				
Customer Charge	\$ 225.32	\$ 237.53	\$ 12.21	5.42%
Consumption	266.16	280.58	14.42	5.42%
<i>Total: Residential - 73.2 Hcf</i>	\$ 491.48	\$ 518.11	\$ 26.63	5.42%
<u>Commercial - 244 Hcf, 5/8"</u>				
Customer Charge	\$ 539.00	\$ 568.00	\$ 29.00	5.38%
Consumption	1,286.61	1,404.95	118.34	9.20%
<i>Total: Commercial - 244 Hcf, 5/8"</i>	\$ 1,825.61	\$ 1,972.95	\$ 147.34	8.07%
<u>Commercial - 2,440 Hcf, 2"</u>				
Customer Charge	\$ 4,288.00	\$ 4,522.00	\$ 234.00	5.46%
Consumption	12,866.12	14,049.52	1,183.40	9.20%
<i>Total: Commercial - 2,440 Hcf, 2"</i>	\$ 17,154.12	\$ 18,571.52	\$ 1,417.40	8.26%
<u>Industrial - 244 Hcf, 5/8"</u>				
Customer Charge	\$ 539.00	\$ 568.00	\$ 29.00	5.38%
Consumption	827.16	920.37	93.21	11.27%
<i>Total: Industrial - 244 Hcf, 5/8"</i>	\$ 1,366.16	\$ 1,488.37	\$ 122.21	8.95%
<u>Industrial - 2,440 Hcf, 2"</u>				
Customer Charge	\$ 4,288.00	\$ 4,522.00	\$ 234.00	5.46%
Consumption	8,271.60	9,203.68	932.08	11.27%
<i>Total: Industrial - 2,440 Hcf, 2"</i>	\$ 12,559.60	\$ 13,725.68	\$ 1,166.08	9.28%

**Narragansett Bay Commission
Capacity Charge Calculation**

<u>Asset Class</u>	<u>Net Book Value</u>
Cost Center 00 - Capital Projects	\$ 558,968,151
Cost Center 43 - Interceptor Maintenance	1,276,110
Cost Center 46 - Fields Point	4,992,743
Cost Center 47 - Bucklin Point	11,976,399
Total	\$ 577,213,403

<u>System Capacity</u>	<u>MGD</u>
Bucklin Point	200.00
Field's Point	116.00
Total	316.00

GPD Unit Cost	\$ 1.83
---------------	---------

5/8" Meter Gallon per Day	161
I&I Factor	\$ 1.20
Assumed Daily Use per 5/8" Meter	\$ 193

Capacity Charge per 5/8" Meter	\$ 352
Rounded Charge per 5/8" Meter	\$ 350

Capacity Charge per Meter Size

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

**Narragansett Bay Commission
Connection Permit Fee and Capacity Charge**

3 - Year Average (FY 2016 - FY 2018)

		Rate	Permits Issued	
Connection Permits Fee Revenue	Direct	\$ 300	17	\$ 5,100
	Indirect	130	296	<u>38,480</u>
Capacity Charge*				\$ 43,580
Meter Size	Factor	Rate		
5/8"	1	\$ 350	313	\$ 109,550
3/4"	1.50	525		
1"	2.50	875		
1 1/2"	5.00	1,750		
2"	8.00	2,800		
3"	15.00	5,250		
4"	25.00	8,750		
6"	50.00	17,500		
8"	80.00	28,000		
10"	115.00	40,250		
3- Year Average Based on proposed rates				\$ <u>153,130</u>

* We are unable to determine meter size per permit issued, assume all at 5/8" meter size.

Narragansett Bay Commission
Calculation of Pretreatment Permitting Costs

Tier I - Significant Industrial Users								
Task	Person	Time (mins)	Hourly Rate	Overhead (@ 55%)	Total Hourly Rate	Total Cost	# of Users Permitted annually	Rate Year Revenue
Mail Processing (includes logging and scanning)	Clerks	10	\$ 24.55	\$ 13.50	\$ 38.05	\$ 6.34		
Supervisor Mail Review and Processing	Manager, Assistant Manager, Principal PT Engineer	10	43.97	24.18	68.15	11.36		
Application Review	Engineer	15	24.40	13.42	37.82	9.46		
File/Plan Review	Engineer	180	24.40	13.42	37.82	113.46		
Meeting and or Inspection	Engineer	120	24.40	13.42	37.82	75.64		
Permit Writing	Engineer	90	24.40	13.42	37.82	56.73		
Supervisor Initial Review	Assistant Manager or Principal PT Engineer	45	39.46	21.70	61.16	45.87		
Typing (including corrections)	Clerk	120	24.55	13.50	38.05	76.11		
Proof Reading	Engineer	45	24.40	13.42	37.82	28.37		
Supervisor Final Review	Assistant Manager or Principal PT Engineer	27	39.46	21.70	61.16	27.52		
Manager Review	Manager	30	53.00	29.15	82.15	41.08		
Permit Processing (typing supporting documents, copying)	Clerks	30	24.55	13.50	38.05	19.03		
Signing & Tracking	Manager	10	53.00	29.15	82.15	13.69		
Total						\$ 500	14	\$ 7,000

Tier II - Non-Significant Industrial Users								
Task	Person	Time (mins)	Hourly Rate	Overhead (@ 55%)	Total Hourly Rate	Total Cost	# of Users Permitted annually	Rate Year Revenue
Mail Processing (includes logging and scanning)	Clerks	10	\$ 24.55	\$ 13.50	\$ 38.05	\$ 6.34		
Supervisor Mail Review and Processing	Manager, Assistant Manager, Principal PT Engineer	10	43.97	24.18	68.15	11.36		
Application Review	Engineer or Tech	30	24.76	13.62	38.38	19.19		
File/Plan Review	Engineer or Tech	60	24.76	13.62	38.38	38.38		
Meeting and or Inspection	Engineer or Tech	60	24.76	13.62	38.38	38.38		
Permit Writing	Engineer or Tech	45	24.76	13.62	38.38	28.78		
Supervisor Initial Review	Assistant Manager or Principal PT Engineer	30	39.46	21.70	61.16	30.58		
Typing (including corrections)	Clerk	60	24.55	13.50	38.05	38.05		
Proof Reading	Engineer or Tech	45	24.76	13.62	38.38	28.78		
Supervisor Final Review	Assistant Manager or Principal PT Engineer	20	39.46	21.70	61.16	20.39		
Manager Review	Manager	10	53.00	29.15	82.15	13.69		
Permit Processing (typing supporting documents, copying)	Clerks	20	24.55	13.50	38.05	12.68		
Signing & Tracking	Manager	10	53.00	29.15	82.15	13.69		
Total						\$ 300	46	\$ 13,800

Tier III - Commercial Users								
Task	Person	Time (mins)	Hourly Rate	Overhead (@ 55%)	Total Hourly Rate	Total Cost	# of Users Permitted annually	Rate Year Revenue
Mail Processing (includes logging and scanning)	Clerks	10	\$ 24.55	\$ 13.50	\$ 38.05	\$ 6.34		
Supervisor Mail Review and Processing	Manager, Assistant Manager, Principal PT Engineer	10	43.97	24.18	68.15	11.36		
Application Review	Tech	15	24.94	13.72	38.66	9.66		
File/Plan Review	Tech	10	24.94	13.72	38.66	6.44		
Meeting and or Inspection	Tech	30	24.94	13.72	38.66	19.33		
Permit Writing	Tech	10	24.94	13.72	38.66	6.44		
Supervisor Initial Review	Assistant Manager or Principal PT Engineer	10	39.46	21.70	61.16	10.19		
Typing (including corrections)	Clerk	30	24.55	13.50	38.05	19.03		
Proof Reading	Engineer or Tech	10	24.76	13.62	38.38	6.40		
Supervisor Final Review	Assistant Manager or Principal PT Engineer	10	39.46	21.70	61.16	10.19		
Manager Review	Manager	5	53.00	29.15	82.15	6.85		
Permit Processing (typing supporting documents, copying)	Clerks	20	24.55	13.50	38.05	12.68		
Signing & Tracking	Manager	10	53.00	29.15	82.15	13.69		
Total						\$ 140	300	\$ 42,000

Total Annual Pretreatment Permit Fees \$ 62,800

1 **NARRAGANSETT BAY COMMISSION**

2
3 **PRE-FILED DIRECT TESTIMONY**

4 **OF MS. KATHRYN KELLY, P.E.**

5
6 **Q. Please state your name and address.**

7 A. Kathryn Kelly. My business address is the Narragansett Bay Commission, One Service
8 Road, Providence, Rhode Island 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 CSO Program Manager.

12

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

14 A. I have been employed at the NBC since August 2000. I began my employment as a
15 Pretreatment Engineer, was promoted to Environmental Engineer in March 2004, and
16 then promoted to Principal Environmental Engineer in 2007. On July 1, 2018, I was
17 promoted to my current position of CSO Program Manager. Prior to my employment with
18 the NBC, I worked for Waterlink, Inc. as an Applications Engineer for just over one year.

19

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

21 A. Yes. I have previously provided testimony in support of NBC's Debt Service Compliance
22 Filing to effectuate a \$45 million loan from the Rhode Island Infrastructure Bank.

23

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

25 A. To provide the PUC with an update regarding the third and final phase of the Combined
26 Sewer Overflow (CSO) Abatement Program.

1 **Q. Would you please provide some background regarding NBC's CSO program?**

2 A. Yes, I would like to take this opportunity to provide a brief overview of the structure of
3 NBC's regulatory mandates. NBC is under a Consent Agreement with the Rhode Island
4 Department of Environmental Management (RIDEM) to implement a federally mandated
5 CSO program in three phases. The cities of Providence, Pawtucket and Central Falls have
6 combined sewers that overflow at approximately 63 locations during significant wet
7 weather events. The CSO program will mitigate the impact of these overflows, which are
8 the responsibility of the NBC, through the construction of wet weather facilities.
9 Approximately 98% of the annual CSO volume will receive treatment when all three
10 phases are completed. The first phase of the CSO Abatement program addresses and
11 treats 40% of the CSO volume. The second phase addresses 20% of the volume and the
12 third phase will address the remaining volume. The CSO program consists of constructing
13 two tunnels, the Main Spine tunnel (16,000 feet long) and the Pawtucket tunnel (13,000
14 feet long), two tunnel pump stations, five CSO interceptors, one wetland facility and
15 seven sewer separation projects.

16 The first phase, which became operational in October 2008, involved the construction of
17 the Main Spine tunnel, drop shafts, and Tunnel Pump Station for an overall cost of
18 approximately \$348 million. Since its inception, over 8 billion gallons of flows that would
19 have previously overflowed directly into Narragansett Bay and its tributaries have been
20 stored and treated.

21 The second phase of the CSO Program became operational in December 2014, of which
22 the most significant components were the construction of two main interceptors in the
23 Field's Point service area, sewer separation projects, and a wetlands treatment facility.
24 The construction costs for phase two were approximately \$180.0 million.

25 The third phase (CSO Phase III) is the final phase of the CSO program and includes four
26 phases, A, B, C, and D, to be completed by 2041. Each of the four phases also includes
27 expenditures of \$10.0 million for the construction of Green Stormwater Infrastructure
28 (GSI) to reduce stormwater inflow to the existing CSO system. The total pre-design
29 estimate for CSO Phase III in 2018 dollars is \$779.1 million. This is \$35.1 million less than

1 the previous estimate of \$815.0 million as a result of changes made as part of a
2 reevaluation and optimization plan approved by RIDEM in December 2017.

3

4 **Q. Can you please provide an update on the status of the CSO Phase III reevaluation?**

5 A. Yes. NBC's Consent Agreement with RIDEM for the CSO Program required NBC to
6 complete preliminary design of the Phase III CSO facilities within one year of completion
7 of construction of Phase II and final design one year after approval of the preliminary
8 design. The Phase III CSO facilities are described in a Conceptual Design Report
9 Amendment (CDRA) approved by RIDEM twenty years ago in 1998. In 2014, NBC initiated
10 a reevaluation of the Phase III facilities proposed in the CDRA to determine if there was a
11 more cost effective approach that could either reduce the cost or extend the schedule of
12 Phase III by employing new techniques and approaches, specifically Integrated Planning,
13 Affordability Analysis and Green Technology. NBC hired an engineering firm, Stantec
14 (formerly MWH), to perform engineering services for the reevaluation of Phase III, and
15 the analysis included the following:

- 16 • An evaluation to determine if the recommended abatement method proposed in the
17 CDRA is still the most cost effective, including an evaluation of green infrastructure
18 alternatives, particularly where sewer separation is currently proposed, to reduce or
19 eliminate stormwater at its source;
- 20 • Evaluation of changes in water quality since Phase I went on line to determine if Phase
21 III is still necessary, and if so, to determine if the facilities required now to meet water
22 quality standards could be reduced in scope;
- 23 • Development of a cost estimate for Phase III, including the evaluation of the impact
24 on sewer rates, and conducting an affordability analysis based on Environmental
25 Protection Agency (EPA) criteria and using an Integrated Planning Framework (IPF)
26 approach to establish priorities;
- 27 • Establishment of a Stakeholders Group to update them on progress to date and
28 obtain input on the Phase III Reevaluation;
- 29 • Development of the Bucklin Point Service Area Hydraulic Model Development to
30 determine the overflow volumes for the 3-month design storm;

- 1 • Updating of the water quality model incorporating the water quality improvements
- 2 from Phase I and Phase II to assess pollutant loading and water quality; and,
- 3 • Completion of technology screening and control strategy assessment to develop four
- 4 alternatives including:
 - 5 ○ Green Stormwater Infrastructure (GSI)
 - 6 ○ Sewer Separation
 - 7 ○ Tunnels
 - 8 ○ Interceptors
 - 9 ○ Regulator Modifications
 - 10 ○ Near Surface Storage Tanks
 - 11 ○ Treatment (Screening and Disinfection) and Discharge
 - 12 ○ Wetland Treatment

13
14 As a result of this study, four alternatives were developed including the original
15 alternative included in the CDRA. Cost estimates were also developed and an affordability
16 analysis was completed for each of the alternatives. During this time, a number of
17 Stakeholder meetings were held to discuss the alternatives and the project was also
18 discussed with NBC's Board of Commissioners (Board) at several meetings and technical
19 sessions. The four alternatives were:

- 20 • Alternative 1 – Baseline CDRA
- 21 • Alternative 2 – Modified Baseline with Phased Implementation
- 22 • Alternative 3 - Modified and Phased Baseline with Extended Schedule and
- 23 Interim Water Quality Projects
- 24 • Alternative 4 – Bucklin Point Wastewater Treatment Facility Storage and
- 25 Treatment

26
27 Alternatives 1, 2 and 3 included the construction of a deep rock tunnel but Alternative 4
28 did not.

29
30 Ultimately, the Board selected Alternative 2 at the April 28, 2015 meeting as it met the
31 higher water quality standards, provided a schedule that allowed for adaptive

1 management and resulted in the most favorable sewer rate of the three tunnel
2 alternatives. While Alternative 4 also met NBC's affordability criteria, the water quality
3 model showed that it had the lowest water quality improvement and would not achieve
4 the water quality goals of the CSO program.

5 The selected alternative has a pre-design and construction cost of \$779.1 million in 2018
6 dollars. The most significant change to the CDRA is the proposed phasing of the program.
7 The schedule for the completion of the CSO Phase III facilities has increased from 9 years
8 to 23 years, with an estimated completion date in 2041.

9 The reevaluation report was submitted to the RIDEM in July 2015 and RIDEM provided
10 comments in March 2016. The NBC incorporated RIDEM's comments into an amended
11 reevaluation report along with an updated Environmental Assessment of the Program,
12 both of which RIDEM approved in December 2017. NBC's Consent Agreement with RIDEM
13 has been renegotiated based upon the final approved plan. RIDEM has also required NBC
14 to complete the design of the Phase III B facilities concurrently with the Phase III A design.

15 **Q. What is the current status of this project?**

16 A. NBC has begun the design of Phase III A and Phase III B facilities, which consists of the
17 design and construction of a 13,000-foot long deep rock tunnel located in Pawtucket
18 along the Seekonk and Blackstone Rivers as well as a pump station to direct the flow to
19 the Bucklin Point Wastewater Treatment Facility in East Providence. Also included in this
20 phase is the design of the CSO Phase III B CSO Controls Facility.

21 **Q. Does this conclude your testimony?**

22 A. Yes.

1 **NARRAGANSETT BAY COMMISSION**

2
3 **PRE-FILED DIRECT TESTIMONY**

4 **OF MS. KERRY M. BRITT**

5
6
7 **Q. Would you please state your job title, education and experience?**

8 A. My name is Kerry M. Britt, I have a BS in Chemical Engineering from the University of Rhode
9 Island. I have been employed by NBC since 1992 and have been the Pretreatment Manager
10 since 2004 responsible for overseeing all NBC Pretreatment Program activities.

11
12 **Q. Would you please explain the purpose of NBC's Pretreatment Program?**

13 A. The Pretreatment Program is a federally mandated program authorized under the Clean Water
14 Act. The link below provides information about the federal General Pretreatment regulations:

15
16 [https://www.epa.gov/npdes/part-403-general-pretreatment-regulations-existing-and-new-](https://www.epa.gov/npdes/part-403-general-pretreatment-regulations-existing-and-new-sources-pollution)
17 [sources-pollution](https://www.epa.gov/npdes/part-403-general-pretreatment-regulations-existing-and-new-sources-pollution)

18
19 The purpose of the Pretreatment Program is to protect wastewater treatment facilities, the
20 receiving waters of Narragansett Bay, the sewage system infrastructure, biosolids or sludge,
21 workers and the general public from chemicals and pollutants that could be discharged by
22 industrial and commercial customers of the system. If certain chemicals or pollutants are
23 discharged above specific levels, they could pass through the treatment plant and
24 contaminate the rivers and bay, interfere with the proper operation of our treatment
25 facilities, causing permit violations for NBC, contaminate biosolids which would prevent
26 reuse, clog sewer lines, cause the evolution of gases that may be harmful to life or cause
27 explosions. Pretreatment Programs control the discharge of these chemicals by permitting
28 and inspecting industrial and commercial users.

29
30 The Pretreatment Program staff are also responsible for a number of other activities in
31 addition to the regulation of industrial and commercial users. For example, the Pretreatment
32 staff provides emergency response to chemical spills, odor complaints, fires, etc. and provides

1 assistance to other state and local governments related to discharge impacts, emergencies
2 and education. The Pretreatment staff also assists with NBC's spill prevention, control and
3 countermeasures plan, stormwater management plan, the review of complex customer
4 service abatements and meter approvals, and grease control programs.

5

6 **Q. Would you describe NBC's Pretreatment Program and Annual Permit Fees?**

7 A. NBC currently has approximately 1,800 permitted users. NBC Staff prepares and issues two
8 types of permits, Wastewater Discharge permits and Zero Process Wastewater – Sanitary
9 Discharge permits. The Wastewater Discharge permits set forth specific levels of pollutants
10 that may be discharged. The zero-process wastewater-sanitary discharge permit is issued to
11 a business that recycles chemicals and process water, and specifically prohibits the discharge
12 of these materials. The Pretreatment staff routinely inspect these facilities, review monitoring
13 reports and various types of plans to ensure facility compliance with Wastewater Discharge
14 Permits, NBC Rules & Regulations and federal requirements.

15

16 The current annual permit fees are designed to cover the cost of regulating these permitted
17 users. The current structure has 49 permit categories and some of the permit categories are
18 further broken out by flow. This is because smaller facilities do not require the same amount
19 of time to regulate as large facilities. For example, a company discharging over 10,000 gallons
20 per day (GPD) in category 11, Electroplater/Metal Finisher is required to sample monthly,
21 whereas a similar company discharging less than 2,500 GPD may only be required to sample
22 twice per year.

23

24 **Q. Based on your expertise with the NBC's pretreatment program, would you make any
25 recommended changes to the existing annual permit fees?**

26 A. Yes. Instead of recovering the costs of both writing permits as well as sampling and other
27 direct pretreatment related costs, I am recommending that NBC do away with its annual
28 permit fees and establish Wastewater Discharge Permit Application Fees instead. These new
29 fees will only recover the costs associated with writing new and renewal permits. I am
30 recommending the recovery of the other sampling and direct pretreatment costs through
31 NBC's non-residential customer's volumetric rates. This cost recovery methodology will more

1 appropriately spread the sampling and direct pretreatment costs to all non-residential
2 customers, not only permittees, which directly benefit from the NBC's Pretreatment Program.

3

4 **Q. How do you recommend structuring the new Wastewater Discharge Permit Application**
5 **Fees?**

6 A. I recommend a three-tier fee structure, based on the time associated with writing new or
7 renewal permits. The three tiers will be based on the following:

8 • Tier 1: Companies in this tier would be Significant Industrial Users (SIU). These are the
9 more complex companies. Prior to issuing permits to SIUs, Pretreatment staff reviews
10 complex process operations and pretreatment system plans. Staff may meet with
11 these users many times to ensure the permit accurately reflects what is discharged
12 from the facility. In addition, many of these facilities conduct operations that are
13 federally regulated. We need to ensure the proper regulations and limits are applied
14 along with the NBC local limits. For some classifications, staff have to perform
15 complex calculations to determine the categorical limits. These are the companies
16 that DEM/EPA are most concerned with. A great deal of reporting in the Pretreatment
17 Annual Report is on these users.

18 • Tier 2: Companies in this tier would be non-significant industrial users (NSIU). These
19 companies are not as complex as SIUs. When preparing these permits staff reviews
20 plans that are generally straight forward, with much less administrative burden than
21 Tier 1 users.

22 • Tier 3: Companies in this tier would be considered commercial companies. These
23 companies are not complex. The plans that are reviewed by staff are often drawn by
24 hand. The permits for these companies require little change from the master form.
25 These users require the least time and effort to write and issue permits.

26

27 **Q. Ms. Britt, does this conclude your testimony at this time?**

28 A. Yes, it does.



Narragansett Bay Commission
One Service Rd.
Providence, RI 02905

Bill Date	Due Date
27-SEP-2018	18-OCT-2018
Customer No.	
[REDACTED]	

Total Due
\$56.02
Amount Enclosed
\$ _____

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

[REDACTED]
PROVIDENCE, RI 02904

042033800200000560279

To ensure proper processing of your payment, please print your account number 33800 on your check.

Please return this portion when paying by mail. Please mail check to: NARRAGANSETT BAY COMMISSION, P.O. Box 9668 Department 25 PROVIDENCE, RI 02940-9668
Please bring entire bill when paying in person. Please mail check to: NARRAGANSETT BAY COMMISSION, P.O. Box 9668 Department 25 PROVIDENCE, RI 02940-9668

Bill Date
27-SEP-2018
Due Date
18-OCT-2018

Customer No.
[REDACTED]

Account Information

Service Address: [REDACTED] PROVIDENCE, RI 02904
Customer Type: Residential
Account Type: Consumption
Consumption Rate: \$3.531 per HCF

Meter Number	Dial	Size	Type	Begin Read	End Read	Consumption
[REDACTED]	1	5/8"	Actual	170548	171102	554 CF

Consumption Charges	Consumption (HCF)	
7/26/2018-8/27/2018	5.54	\$19.56

Customer Service
(401) 461-8828
Office Hours
M-F 8:30 am - 4:00 pm
Email
cs@narrabay.com
Website
www.narrabay.com

Customer Charges	Dwelling Units	Rate Per Year	
9/01/2018-9/30/2018	2	\$218.80	\$36.46

Other Charges

Total Current Charges **\$56.02**

Payments received after 10/18/2018 will be reflected on your next bill.

Billing Summary

Previous Balance	Payments	Adjustments	Current Charges	Total
\$68.73	\$68.73	\$0.00	\$56.02	\$56.02

The Narragansett Bay Commission provides your wastewater collection and treatment services.



Principal and Interest Paid during Fiscal Year 2018

<i>BOND/SRF DESCRIPTION</i>	<i>Due Dates</i>	<i>FYE 2018</i>	
		<i>PRINCIPAL</i>	<i>INTEREST</i>
SRF Series 1997	1-Sep	\$ 522,400.00	\$ 29,619.08
PL3 - \$8.150M	1-Mar		20,099.00
SRF Series 1999	1-Sep	2,100,000.00	111,611.20
PL 4 - \$23.955M	1-Mar		74,525.20
SRF Series 2001	1-Sep	2,680,000.00	216,103.65
PL 5 - \$57M	1-Mar		173,612.25
SRF Series 2002	1-Sep	3,170,588.04	160,476.90
PL 6 - \$57M	1-Mar		135,453.03
SRF Series 2003	1-Sep	2,070,000.00	188,757.85
PL 7 - \$40M	1-Mar		167,747.35
SRF 2004 Series B	1-Sep	3,009,000.00	217,005.70
PL 8 - \$40M	1-Mar		188,721.10
SRF 2005 Series B	1-Sep	1,528,000.00	111,509.75
PL 9 - \$30M	1-Mar		135,137.15
SRF 2006 Series A	1-Sep	1,502,000.00	111,610.20
PL 10 - \$30M	1-Mar		135,111.53
SRF 2007 Series B	1-Sep	1,306,000.00	144,013.72
PL 11 - \$25M	1-Mar		167,208.03
SRF 2009 Series A	1-Sep	2,476,686.09	564,823.27
PL 12 - \$55M (\$8.3M Forgiveness)	1-Mar		575,547.68
SRF 2010 Series A	1-Sep	76,414.72	15,672.91
PL 12 - \$2M (\$301,895M Forgiveness)	1-Mar		16,080.21
SRF 2010 Series B	1-Sep	881,000.00	197,130.52
PL 13 - \$20M	1-Mar		229,023.40
SRF 2011 Series A	1-Sep	1,200,326.78	292,604.54
PL 14 - \$30M (\$1,845,345.21 Forgiveness)	1-Mar		370,533.07
SRF 2012 Series A	1-Sep	1,105,182.86	279,001.52
PL 15 - \$25,750M (\$354,202 Forgiveness)	1-Mar		270,657.39
SRF - 2013 Series B	1-Sep	981,761.37	267,984.27
PL 16 - \$25M (\$80,965.77 Forgiveness)	1-Mar		262,339.15
SRF - 2014 Series A	1-Sep	1,886,000.00	563,164.15
PL 17 - \$45M	1-Mar		553,451.25
SRF - 2015 Series B	1-Sep	1,034,194.88	591,903.30
PL 18 - \$41,753,500 (\$512,070 Forgiveness)	1-Mar		590,853.05
SRF - 2016 Series A	1-Sep		62,679.73
PL 19 - \$23M	1-Mar		160,078.25
VRDO \$66M 2008 Series A Refunding (Includes fees)	Monthly		1,976,274.97
\$71.48M 2013 Series A	1-Sep		1,568,325.00
	1-Mar		1,568,325.00
\$34.970M 2013 Series C	1-Sep		828,275.00
	1-Mar		828,275.00
\$39.82M 2014 Series B	1-Sep		972,200.00
	1-Mar		972,200.00
\$40.085M 2015 Series A	1-Aug		986,050.00
	1-Feb		986,050.00
Total		\$ 27,529,554.74	\$ 19,037,825.32

Principal and Interest to be Paid during Fiscal Year 2020

<i>BOND/SRF DESCRIPTION</i>	<i>Due Dates</i>	<i>FYE 2020</i>	
		<i>PRINCIPAL</i>	<i>INTEREST</i>
SRF Series 1997 PL3 - \$8.150M	1-Sep 1-Mar	\$ 561,372.00	\$ 10,230.25
SRF Series 1999 PL 4 - \$23.955M	1-Sep 1-Mar	1,220,000.00	45,121.30 23,576.10
SRF Series 2001 PL 5 - \$57M	1-Sep 1-Mar	2,750,000.00	130,803.75 87,202.50
SRF Series 2002 PL 6 - \$57M	1-Sep 1-Mar	3,341,311.42	109,764.28 83,392.98
SRF Series 2003 PL 7 - \$40M	1-Sep 1-Mar	2,155,000.00	145,993.75 123,474.00
SRF 2004 Series B PL 8 - \$40M	1-Sep 1-Mar	3,237,000.00	158,879.28 127,642.23
SRF 2005 Series B PL 9 - \$30M	1-Sep 1-Mar	1,589,000.00	81,374.38 103,981.08
SRF 2006 Series A PL 10 - \$30M	1-Sep 1-Mar	1,556,000.00	86,006.29 107,461.20
SRF 2007 Series B PL 11 - \$25M	1-Sep 1-Mar	1,357,000.00	80,137.59 140,762.55
SRF 2009 Series A PL 12 - \$55M (8.3M Forgiveness)	1-Sep 1-Mar	2,599,798.71	503,454.97 509,792.00
SRF 2010 Series A PL 12 - \$2M (\$301,895M Forgiveness)	1-Sep 1-Mar	80,659.99	13,895.28 14,136.25
SRF 2010 Series B PL 13 - \$20M	1-Sep 1-Mar	927,000.00	212,566.39 204,466.90
SRF 2011 Series A PL 14 - \$30M (\$1,845,345.21 Forgiveness)	1-Sep 1-Mar	1,258,513.06	321,644.10 338,065.78
SRF 2012 Series A PL 15 - \$25,750,000 (\$354,202 Forgiveness)	1-Sep 1-Mar	1,140,662.56	260,793.72 249,558.20
SRF - 2013 Series B PL 16 - \$25,000,000 (\$80,965.77 Forgiveness)	1-Sep 1-Mar	1,108,401.52	254,351.50 245,761.39
SRF - 2014 Series A PL 17 - \$45,000,000	1-Sep 1-Mar	1,931,000.00	540,783.00 525,335.00
SRF - 2015 Series B PL 18 - \$41,753,500 (\$512,070 Forgiveness)	1-Sep 1-Mar	1,058,675.12	584,060.63 576,279.37
SRF - 2016 Series A PL 19 - \$23M	1-Sep 1-Mar	977,000.00	246,647.00 240,833.85
VRDO \$66M 2008 Series A Refunding (Includes fees)	Monthly		1,979,899.40
\$71.48M 2013 Series A	1-Sep 1-Mar		1,568,325.00 1,568,325.00
\$34.970M 2013 Series C	1-Sep 1-Mar		828,275.00 828,275.00
\$39.82M 2014 Series B	1-Sep 1-Mar		972,200.00 972,200.00
\$40.085M 2015 Series A	1-Aug 1-Feb		986,050.00 986,050.00
<i>Total</i>		<u>\$ 28,848,394.38</u>	<u>\$ 18,177,828.24</u>

Narragansett Bay Commission
Open Market Debt Service Payment Schedule

	VRDO \$66.0 M 2008 Series A Refunding		\$71.48M 2013 Series A		\$34.970M 2013 Series C	
	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST
FY 2019	\$ -	\$ 1,976,274.97	\$ -	\$ 3,136,650.00	\$ -	\$ 1,656,550.00
FY 2020	-	1,979,899.40	-	3,136,650.00	-	1,656,550.00
FY 2021	-	1,972,650.54	-	3,136,650.00	560,000.00	1,642,550.00
FY 2022	-	1,976,274.97	-	3,136,650.00	1,875,000.00	1,581,675.00
FY 2023	1,000,000.00	1,950,096.91	-	3,136,650.00	1,915,000.00	1,486,925.00
FY 2024	2,500,000.00	1,879,229.55	-	3,136,650.00	2,785,000.00	1,369,425.00
FY 2025	3,500,000.00	1,758,892.26	-	3,136,650.00	2,165,000.00	1,245,675.00
FY 2026	4,700,000.00	1,608,238.01	3,100,000.00	3,059,150.00	1,905,000.00	1,143,925.00
FY 2027	4,200,000.00	1,456,827.07	1,545,000.00	2,943,025.00	2,375,000.00	1,036,925.00
FY 2028	4,200,000.00	1,312,161.29	-	2,904,400.00	2,500,000.00	915,050.00
FY 2029	4,200,000.00	1,160,661.20	-	2,904,400.00	2,615,000.00	800,250.00
FY 2030	5,000,000.00	994,884.57	-	2,904,400.00	2,750,000.00	686,856.25
FY 2031	5,000,000.00	819,884.59	-	2,904,400.00	2,865,000.00	554,137.50
FY 2032	5,000,000.00	645,986.40	-	2,904,400.00	3,005,000.00	418,656.25
FY 2033	5,700,000.00	450,686.59	-	2,904,400.00	2,065,000.00	303,175.00
FY 2034	5,700,000.00	252,059.92	-	2,904,400.00	5,590,000.00	125,775.00
FY 2035	5,765,000.00	50,858.35	-	2,904,400.00	-	-
FY 2036	-	-	1,085,000.00	2,877,275.00	-	-
FY 2037	-	-	6,975,000.00	2,675,775.00	-	-
FY 2038	-	-	7,330,000.00	2,318,150.00	-	-
FY 2039	-	-	7,710,000.00	1,942,150.00	-	-
FY 2040	-	-	8,060,000.00	1,588,200.00	-	-
FY 2041	-	-	8,390,000.00	1,259,200.00	-	-
FY 2042	-	-	8,735,000.00	916,700.00	-	-
FY 2043	-	-	9,090,000.00	560,200.00	-	-
FY 2044	-	-	9,460,000.00	189,200.00	-	-
FY 2045	-	-	-	-	-	-
FY 2046	-	-	-	-	-	-
TOTAL	\$ 56,465,000.00	\$ 22,245,566.59	\$ 71,480,000.00	\$ 65,520,775.00	\$ 34,970,000.00	\$ 16,624,100.00

Narragansett Bay Commission
Open Market Debt Service Payment Schedule

	\$39.82M 2014 Series B		\$40.085M 2015 Series A		TOTAL OPEN MARKET	
	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST
FY 2019	\$ -	\$ 1,944,400.00	\$ -	\$ 1,972,100.00	\$ -	\$ 10,685,974.97
FY 2020	-	1,944,400.00	-	1,972,100.00	-	10,689,599.40
FY 2021	-	1,944,400.00	-	1,972,100.00	560,000.00	10,668,350.54
FY 2022	-	1,944,400.00	-	1,972,100.00	1,875,000.00	10,611,099.97
FY 2023	-	1,944,400.00	-	1,972,100.00	2,915,000.00	10,490,171.91
FY 2024	-	1,944,400.00	-	1,972,100.00	5,285,000.00	10,301,804.55
FY 2025	-	1,944,400.00	-	1,972,100.00	5,665,000.00	10,057,717.26
FY 2026	-	1,944,400.00	-	1,972,100.00	9,705,000.00	9,727,813.01
FY 2027	3,175,000.00	1,865,025.00	-	1,972,100.00	11,295,000.00	9,273,902.07
FY 2028	3,330,000.00	1,702,400.00	3,215,000.00	1,972,100.00	13,245,000.00	8,806,111.29
FY 2029	3,500,000.00	1,531,650.00	3,345,000.00	1,843,500.00	13,660,000.00	8,240,461.20
FY 2030	3,670,000.00	1,352,400.00	3,510,000.00	1,676,250.00	14,930,000.00	7,614,790.82
FY 2031	3,855,000.00	1,164,275.00	3,685,000.00	1,500,750.00	15,405,000.00	6,943,447.09
FY 2032	4,045,000.00	966,775.00	3,870,000.00	1,316,500.00	15,920,000.00	6,252,317.65
FY 2033	4,250,000.00	759,400.00	4,065,000.00	1,123,000.00	16,080,000.00	5,540,661.59
FY 2034	4,465,000.00	541,525.00	4,270,000.00	919,750.00	20,025,000.00	4,743,509.92
FY 2035	4,660,000.00	336,700.00	4,480,000.00	706,250.00	14,905,000.00	3,998,208.35
FY 2036	4,870,000.00	121,750.00	4,705,000.00	482,250.00	10,660,000.00	3,481,275.00
FY 2037	-	-	4,940,000.00	247,000.00	11,915,000.00	2,922,775.00
FY 2038	-	-	-	-	7,330,000.00	2,318,150.00
FY 2039	-	-	-	-	7,710,000.00	1,942,150.00
FY 2040	-	-	-	-	8,060,000.00	1,588,200.00
FY 2041	-	-	-	-	8,390,000.00	1,259,200.00
FY 2042	-	-	-	-	8,735,000.00	916,700.00
FY 2043	-	-	-	-	9,090,000.00	560,200.00
FY 2044	-	-	-	-	9,460,000.00	189,200.00
FY 2045	-	-	-	-	-	-
FY 2046	-	-	-	-	-	-
TOTAL	\$ 39,820,000.00	\$ 25,897,100.00	\$ 40,085,000.00	\$ 29,536,250.00	\$ 242,820,000.00	\$ 159,823,791.59

Narragansett Bay Commission
SRF Debt Service Payment Schedule

	SRF Series 1997 PL3 - \$8.150M		SRF Series 1999 PL 4 - \$23.955M		SRF Series 2001 PL 5 - \$57M		SRF Series 2002 PL6 - \$57M	
	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST
FY 2019	\$ 541,535.00	\$ 30,329.25	\$ 1,665,000.00	\$ 119,646.50	\$ 2,700,000.00	\$ 304,416.00	\$ 3,254,830.57	\$ 245,217.31
FY 2020	561,372.00	10,230.25	1,220,000.00	68,697.40	2,750,000.00	218,006.25	3,341,311.42	193,157.26
FY 2021	-	-	1,335,000.00	23,576.10	2,750,000.00	130,803.75	3,430,090.07	139,713.98
FY 2022	-	-	-	-	2,750,000.00	43,601.25	3,521,227.57	84,850.71
FY 2023	-	-	-	-	-	-	3,614,786.58	28,529.71
FY 2024	-	-	-	-	-	-	-	-
FY 2025	-	-	-	-	-	-	-	-
FY 2026	-	-	-	-	-	-	-	-
FY 2027	-	-	-	-	-	-	-	-
FY 2028	-	-	-	-	-	-	-	-
FY 2029	-	-	-	-	-	-	-	-
FY 2030	-	-	-	-	-	-	-	-
FY 2031	-	-	-	-	-	-	-	-
FY 2032	-	-	-	-	-	-	-	-
FY 2033	-	-	-	-	-	-	-	-
FY 2034	-	-	-	-	-	-	-	-
FY 2035	-	-	-	-	-	-	-	-
FY 2036	-	-	-	-	-	-	-	-
FY 2037	-	-	-	-	-	-	-	-
FY 2038	-	-	-	-	-	-	-	-
FY 2039	-	-	-	-	-	-	-	-
FY 2040	-	-	-	-	-	-	-	-
FY 2041	-	-	-	-	-	-	-	-
FY 2042	-	-	-	-	-	-	-	-
FY 2043	-	-	-	-	-	-	-	-
FY 2044	-	-	-	-	-	-	-	-
FY 2045	-	-	-	-	-	-	-	-
FY 2046	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-
TOTAL	1,102,907.00	40,559.50	4,220,000.00	211,920.00	10,950,000.00	696,827.25	17,162,246.21	691,468.97
	\$1,143,466.50		\$4,431,920.00		\$11,646,827.25		\$17,853,715.18	

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		SRF 2006 Series A PL 10 - \$30M	
	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST
FY 2019	\$ 2,112,000.00	\$ 313,741.10	\$ 3,133,000.00	\$ 347,600.38	\$ 1,558,000.00	\$ 216,552.51	\$ 1,529,000.00	\$ 220,589.33
FY 2020	2,155,000.00	269,467.75	3,237,000.00	286,521.51	1,589,000.00	185,355.46	1,556,000.00	193,467.49
FY 2021	2,200,000.00	223,628.00	3,393,000.00	222,117.88	1,621,000.00	153,581.81	1,584,000.00	165,063.24
FY 2022	2,247,000.00	176,265.10	3,553,000.00	153,865.43	1,653,000.00	121,429.86	1,613,000.00	137,233.70
FY 2023	2,295,000.00	127,550.95	2,297,000.00	95,866.98	1,686,000.00	87,263.37	1,642,000.00	107,886.92
FY 2024	2,344,000.00	77,447.30	2,342,000.00	49,358.75	1,720,000.00	53,544.45	1,672,000.00	80,230.83
FY 2025	2,397,000.00	26,007.45	1,266,000.00	12,881.55	1,755,000.00	17,999.36	1,703,000.00	50,236.10
FY 2026	-	-	-	-	1,793,000.00	(17,879.72)	1,734,000.00	18,996.04
FY 2027	-	-	-	-	-	-	1,770,000.00	(13,007.02)
FY 2028	-	-	-	-	-	-	-	-
FY 2029	-	-	-	-	-	-	-	-
FY 2030	-	-	-	-	-	-	-	-
FY 2031	-	-	-	-	-	-	-	-
FY 2032	-	-	-	-	-	-	-	-
FY 2033	-	-	-	-	-	-	-	-
FY 2034	-	-	-	-	-	-	-	-
FY 2035	-	-	-	-	-	-	-	-
FY 2036	-	-	-	-	-	-	-	-
FY 2037	-	-	-	-	-	-	-	-
FY 2038	-	-	-	-	-	-	-	-
FY 2039	-	-	-	-	-	-	-	-
FY 2040	-	-	-	-	-	-	-	-
FY 2041	-	-	-	-	-	-	-	-
FY 2042	-	-	-	-	-	-	-	-
FY 2043	-	-	-	-	-	-	-	-
FY 2044	-	-	-	-	-	-	-	-
FY 2045	-	-	-	-	-	-	-	-
FY 2046	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-
TOTAL	15,750,000.00	1,214,107.65	19,221,000.00	1,168,212.48	13,375,000.00	817,847.10	14,803,000.00	960,696.63
	\$16,964,107.65		\$20,389,212.48		\$14,192,847.10		\$15,763,696.63	

Narragansett Bay Commission
SRF Debt Service Payment Schedule

	SRF 2007 Series B PL 11 - \$25M		SRF 2009 Series A PL 12 - \$55M (\$8. M Forgiveness)		SRF 2010 Series A PL 12 - \$2M (\$301,895 Forgiveness)		SRF 2010 Series B PL 13 - \$20M	
	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST
FY 2019	\$ 1,331,000.00	\$ 247,103.78	\$ 2,536,119.76	\$ 1,078,953.09	\$ 78,961.88	\$ 29,969.54	\$ 905,000.00	\$ 441,577.52
FY 2020	1,357,000.00	220,900.14	2,599,798.71	1,013,246.97	80,659.99	28,031.53	927,000.00	417,033.29
FY 2021	1,384,000.00	192,857.73	2,666,024.79	883,576.65	83,207.14	24,069.30	953,000.00	390,607.77
FY 2022	1,411,000.00	163,975.35	2,739,043.32	809,211.51	85,754.30	21,814.97	979,000.00	349,387.21
FY 2023	1,440,000.00	135,242.15	2,814,608.97	733,225.12	89,150.51	19,463.77	1,009,000.00	318,443.34
FY 2024	1,469,000.00	103,724.45	2,893,570.85	651,794.54	91,697.67	16,959.08	1,041,000.00	285,893.45
FY 2025	1,500,000.00	71,909.55	2,978,476.11	566,418.99	95,093.88	14,294.47	1,074,000.00	250,991.78
FY 2026	1,531,000.00	39,299.16	3,065,928.51	475,922.39	97,641.04	11,479.23	1,110,000.00	214,251.74
FY 2027	1,563,000.00	7,153.54	3,157,626.18	380,820.39	101,037.25	8,472.71	1,147,000.00	175,734.11
FY 2028	1,596,000.00	(27,358.07)	3,252,720.06	282,986.12	104,433.46	5,361.75	1,187,000.00	102,672.16
FY 2029	1,629,000.00	(68,431.70)	3,354,606.35	180,776.90	108,678.72	2,067.95	1,228,000.00	47,428.47
FY 2030	-	-	3,459,039.80	71,893.53	112,923.96	(1,476.30)	1,272,000.00	12,417.23
FY 2031	-	-	3,609,322.07	(76,522.99)	-	-	1,315,000.00	(45,816.79)
FY 2032	-	-	-	-	-	-	-	-
FY 2033	-	-	-	-	-	-	-	-
FY 2034	-	-	-	-	-	-	-	-
FY 2035	-	-	-	-	-	-	-	-
FY 2036	-	-	-	-	-	-	-	-
FY 2037	-	-	-	-	-	-	-	-
FY 2038	-	-	-	-	-	-	-	-
FY 2039	-	-	-	-	-	-	-	-
FY 2040	-	-	-	-	-	-	-	-
FY 2041	-	-	-	-	-	-	-	-
FY 2042	-	-	-	-	-	-	-	-
FY 2043	-	-	-	-	-	-	-	-
FY 2044	-	-	-	-	-	-	-	-
FY 2045	-	-	-	-	-	-	-	-
FY 2046	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-
TOTAL	16,211,000.00	1,086,376.08	39,126,885.48	7,052,303.21	1,129,239.80	180,508.00	14,147,000.00	2,960,621.28
	\$17,297,376.08		\$46,179,188.69		\$1,309,747.80		\$17,107,621.28	

Narragansett Bay Commission
SRF Debt Service Payment Schedule

	SRF 2011 Series A PL 14 - \$30M (\$1,845,345.21 Forgiveness)		SRF 2012 Series A PL 15 - \$25,750,000 (\$354,202 Forgiveness)		SRF 2013 Series B PL16 - \$25M (80,965 Forgiveness)		SRF 2014 Series A PL 17 - \$45M	
	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST
FY 2019	\$ 1,228,481.44	\$ 692,003.31	\$ 1,120,870.68	\$ 531,451.11	\$ 1,192,185.61	\$ 516,690.65	\$ 1,905,000.00	\$ 1,094,234.25
FY 2020	1,258,513.06	659,709.88	1,140,662.56	510,351.92	1,108,401.52	500,112.89	1,931,000.00	1,066,118.00
FY 2021	1,293,237.14	624,482.40	1,162,350.38	486,737.36	1,125,329.55	481,732.42	1,962,000.00	1,032,227.20
FY 2022	1,329,838.20	576,737.83	1,187,934.14	460,697.07	1,145,257.58	461,004.84	1,998,000.00	992,705.50
FY 2023	1,372,070.18	533,331.30	1,215,517.90	432,510.39	1,166,185.61	438,230.84	2,041,000.00	947,848.95
FY 2024	1,417,117.62	486,155.77	1,244,101.66	401,749.44	1,191,113.64	412,577.14	2,088,000.00	897,971.30
FY 2025	1,464,980.54	436,844.87	1,276,685.41	367,959.49	1,218,041.67	383,534.70	2,140,000.00	843,088.30
FY 2026	1,517,535.90	382,886.36	1,312,165.11	331,641.10	1,247,969.70	351,648.79	2,198,000.00	783,643.20
FY 2027	1,571,968.23	326,179.50	1,348,644.81	293,389.22	1,280,825.76	316,992.79	2,259,000.00	719,322.00
FY 2028	1,632,031.49	302,354.98	1,389,124.51	254,314.65	1,316,753.80	279,904.25	2,327,000.00	649,710.75
FY 2029	1,692,094.75	152,261.99	1,428,500.15	214,300.45	1,355,609.86	240,680.51	2,398,000.00	575,630.40
FY 2030	1,756,850.46	76,598.85	1,469,875.79	170,722.36	1,396,465.92	200,161.30	2,475,000.00	497,159.70
FY 2031	1,824,421.63	23,884.94	1,514,251.43	125,388.04	1,436,321.98	158,587.15	2,555,000.00	414,276.45
FY 2032	1,893,869.77	(118,153.88)	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	-	-	-	-	-	-	-	-
FY 2040	-	-	-	-	-	-	-	-
FY 2041	-	-	-	-	-	-	-	-
FY 2042	-	-	-	-	-	-	-	-
FY 2043	-	-	-	-	-	-	-	-
FY 2044	-	-	-	-	-	-	-	-
FY 2045	-	-	-	-	-	-	-	-
FY 2046	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-
TOTAL	21,253,010.41	5,155,278.10	19,981,243.54	4,685,331.11	20,749,639.36	4,951,299.83	39,387,000.00	11,267,706.25
	\$26,408,288.51		\$24,666,574.65		\$25,700,939.19		\$50,654,706.25	

Narragansett Bay Commission
SRF Debt Service Payment Schedule

	SRF 2015 Series B PL18 - \$41,753,500 (\$512,070 Forgiveness)		SRF 2016 Series A PL 19 \$23M		TOTAL SRF	
	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST	PRINCIPAL	INTEREST
FY 2019	\$ 1,044,986.97	\$ 1,174,913.68	\$ 966,000.00	\$ 491,821.09	\$ 28,801,971.91	\$ 8,096,810.40
FY 2020	1,058,675.12	1,160,340.00	977,000.00	487,480.85	28,848,394.38	7,488,228.84
FY 2021	1,074,259.31	1,143,642.39	988,000.00	475,295.10	29,004,498.38	6,793,713.08
FY 2022	1,092,843.50	1,124,453.32	1,001,000.00	461,915.50	28,306,898.61	6,139,149.15
FY 2023	1,112,427.69	1,102,555.73	1,016,000.00	447,288.50	24,810,747.44	5,555,238.02
FY 2024	1,135,907.92	1,078,379.08	1,030,000.00	431,428.50	21,679,509.36	5,027,214.08
FY 2025	1,161,284.21	1,052,472.53	1,047,000.00	414,289.00	21,076,561.82	4,508,928.14
FY 2026	1,187,660.49	1,023,975.08	1,065,000.00	395,857.75	17,859,900.75	4,011,721.12
FY 2027	1,218,932.83	992,193.97	1,084,000.00	374,998.20	16,502,035.06	3,582,249.41
FY 2028	1,251,205.16	957,663.31	1,107,000.00	351,105.96	15,163,268.48	3,158,715.86
FY 2029	1,287,373.54	920,717.96	1,132,000.00	324,957.50	15,613,863.37	2,590,390.43
FY 2030	1,325,541.92	881,450.32	1,159,000.00	296,943.95	14,426,697.85	2,205,870.94
FY 2031	1,365,606.35	840,000.63	1,188,000.00	267,367.40	14,807,923.46	1,707,164.83
FY 2032	1,408,566.82	796,439.67	1,218,000.00	236,325.50	10,200,241.70	1,434,938.06
FY 2033	1,453,527.30	750,784.77	1,250,000.00	203,868.10	8,567,493.34	1,287,102.19
FY 2034	1,499,487.77	704,138.62	1,283,000.00	170,049.25	7,171,452.79	1,040,611.60
FY 2035	1,546,448.22	656,619.67	1,317,000.00	134,815.85	5,780,448.22	839,566.02
FY 2036	1,631,000.00	606,729.51	1,353,000.00	98,099.75	2,984,000.00	704,829.26
FY 2037	1,683,000.00	552,598.56	1,390,000.00	59,900.70	3,073,000.00	612,499.26
FY 2038	1,739,000.00	494,853.71	1,429,000.00	20,220.35	3,168,000.00	515,074.06
FY 2039	1,798,000.00	435,345.16	-	-	1,798,000.00	435,345.16
FY 2040	1,859,000.00	374,000.51	-	-	1,859,000.00	374,000.51
FY 2041	1,921,000.00	310,685.51	-	-	1,921,000.00	310,685.51
FY 2042	1,986,000.00	245,342.56	-	-	1,986,000.00	245,342.56
FY 2043	2,052,000.00	177,907.96	-	-	2,052,000.00	177,907.96
FY 2044	2,121,000.00	108,324.91	-	-	2,121,000.00	108,324.91
FY 2045	2,192,500.00	36,505.13	-	-	2,192,500.00	36,505.13
FY 2046	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
TOTAL	40,207,235.12	19,703,034.25	23,000,000.00	6,144,028.80	331,776,406.92	68,988,126.49
	\$59,910,269.37		\$29,144,028.80		\$400,764,533.41	

Narragansett Bay Commission
Long Term Debt

Pooled Loan #3 - Series 1997 - The total loan authorized is \$8,150,000, dated March 1, 1997, with an interest rate of 3.14473%.

Pooled Loan #4 - Series 1999 - The total loan authorized is \$23,955,000, dated February 4, 1999, with an interest rate of 3.032%.

Pooled Loan #5 - Series 2001 - The total loan authorized is \$57,000,000 dated November 1, 2001, with an interest rate of 2.671%.

Pooled Loan #6 - Series 2002 - The total loan authorized is \$57,000,000, dated October 24, 2002, with an interest rate of 1.0785%.

Pooled Loan #7 - Series 2003 - The total loan authorized is \$40,000,000, dated November 13, 2003, with an interest rate of 1.349%.

Pooled Loan #8 - 2004 Series B - The total loan authorized is \$40,000,000, dated December 30, 2004, with an interest rate of 1.404%.

Pooled Loan #9 - 2005 Series B - The total loan authorized is \$30,000,000, dated December 15, 2005, with an interest rate of 1.397%.

Pooled Loan #10 - 2006 Series A - The total loan authorized is \$30,000,000, dated December 21, 2006, with an interest rate of 1.27%.

Pooled Loan #11 - 2007 Series B - The total loan authorized is \$25,000,000, dated December 12, 2007, with an interest rate of 1.475%.

Pooled Loan #12 - 2009 Series A - The total loan authorized is \$55,000,000, dated October 6, 2009, with principal forgiveness of \$8,302,114 with an interest rate of .877%.

Pooled Loan #12 - Takeover - 2010 Series A - The total loan authorized is \$2,000,000, dated February 12, 2010, with principal forgiveness of \$301,895 and an interest rate of .522%.

Pooled Loan #13 - 2010 Series B - The total loan authorized is \$20,000,000, dated June 24, 2010, with an interest rate of 2.143%.

Pooled Loan #14 - 2011 Series A - The total loan authorized is \$30,000,000, dated March 29, 2011, with principal forgiveness of \$1,845,345 and an interest rate of 2.259%.

Pooled Loan #15 - 2012 Series A - The total loan authorized is \$25,750,000, dated June 28, 2012, with principal forgiveness of \$354,202 and an interest rate of 2.088%.

Pooled Loan #16 - 2013 Series B - The total loan authorized is \$25,000,000, dated June 6, 2013, with principal forgiveness of \$80,966 and an interest rate of 2.092%.

Pooled Loan #17 - Series 2014 A - The total loan authorized is \$45,000,000, dated March 6, 2014, with an interest rate of 2.467%.

Pooled Loan #18 - Series 2015 B - The total loan authorized is \$41,753,500 dated July 30, 2015 with principal forgiveness of \$512,070 and an interest rate of 2.549%.

Pooled Loan #19 - Series 2016 A - The total loan authorized is \$23,000,000, dated June 2, 2016, with an interest rate of 1.967%.

Revenue Bonds (variable rate) 2008 Series A, dated July 17, 2008, maturing September 1, 2034.

Revenue Bonds 2013 Series A, 4.332913% average coupon rate, dated March 21, 2013, maturing September 1, 2043 (net of premium unamortized at June 30, 2015 of \$4,131,888).

Revenue Bonds 2013 Series C, 4.687151% average coupon rate, dated December 12, 2013, maturing September 1, 2033 (net of premium unamortized at June 30, 2015 of \$2,274,637).

Revenue Bonds 2014 Series B, 4.861248% average coupon rate, dated October 28, 2014, maturing September 1, 2035 (net of premium unamortized at June 30, 2015 of \$7,381,545).

Revenue Bonds 2015 Series A, 4.942067% average coupon rate, dated May 5, 2015, maturing February 1, 2037 (net of premium unamortized at June 30, 2015 of \$5,996,114).

**Narraganset Bay Commission
Schedule of Lease Payments**

Payee	Property	Test Year FY 2018 Annually	Rate Year FY 2020 Annually
Diane Capwell	WED 3 Land Lease	\$ 54,000	\$ 54,000
Monique Capwell Irrevocable Trust	WED 4 Land Lease	54,000	54,000
Leasing Associates *TY represents 9 months	2018 Chevy Equinox LT	5,030 *	6,707

Narragansett Bay Commission
Personnel and Overtime Information

Test Year	Number of Employees 7/1/2017	Number of Employees 6/30/2018
FY 2018	250	250

Fiscal Year	Overtime Amount
2018	\$ 753,643
2017	725,979
2016	555,871

NARRAGANSETT BAY COMMISSION
STATEMENT OF NET POSITION
JUNE 30, 2018

ASSETS

CURRENT ASSETS

Cash and cash equivalents	\$23,736,187.71
Accounts receivable sewer use (net of allowance)	9,194,628.20
Accounts receivable sewer use unbilled	4,924,564.02
Accounts receivable series 2016A (PL19)	12,122,578.31
Accounts receivable series 2015A (PL18)	4,286,020.50
Receivables, other	174,944.47
Prepaid expense	230,716.07
Total Current Assets	<u>54,669,639.28</u>

NON-CURRENT ASSETS

Restricted assets

Cash and cash equivalents, environmental enforcement	78,712.78
Cash and cash equivalents, restricted for debt service	30,407,296.02
Cash and cash equivalents , restricted for operating reserve for revenue stability fund	4,554,596.01
Cash and cash equivalents, restricted stabilization	5,462,962.19
Cash and cash equivalents, restricted for debt service reserve fund	3,539,427.15
Cash and cash equivalents, restricted for the acquisition and construction of capital assets	18,727,362.60
Total Restricted Assets	<u>62,770,356.75</u>

Capital Assets

Land	2,754,407.48
Plant and equipment	99,833,924.68
Capital projects completed	780,648,298.16
Construction in progress	347,092,593.74
	<u>1,230,329,224.06</u>
Less accumulated depreciation	(222,041,429.33)
Net Capital Assets	<u>1,008,287,794.73</u>
Total Non-current Assets	<u>1,071,058,151.48</u>

TOTAL ASSETS

1,125,727,790.76

DEFERRED OUTFLOWS OF RESOURCES

Loss on refunding of debt	1,890,792.72
ERSRI net difference between projected and actual investment earnings	1,894,807.00
ERSRI contribution paid subsequent year	1,509,312.00
ERSRI changes in proportion and difference between employer contribution and proportionate share of contributions	150,169.00
Non-Union pension change in assumptions	834,279.00
Non-Union pension difference between expected and actual experience	88,876.00
	<u>88,876.00</u>

TOTAL DEFERRED OUTFLOWS OF RESOURCES

6,368,235.72

NARRAGANSETT BAY COMMISSION
STATEMENT OF NET POSITION
JUNE 30, 2018

LIABILITIES	
CURRENT LIABILITIES	
Accounts and contracts payable	5,593,417.46
Accrued interest payable	5,998,871.10
Other accrued expenses	3,061,321.84
Total Current Liabilities	<u>14,653,610.40</u>
NON-CURRENT LIABILITIES	
Net pension liability - ERSRI	18,292,407.00
Net pension liability - Non-union Pension	1,273,972.00
Long-term loans payable, net	331,776,406.21
Long-term debt	262,604,183.60
Total Non-current Liabilities	<u>613,946,968.81</u>
TOTAL LIABILITIES	628,600,579.21
DEFERRED INFLOWS OF RESOURCES	
Gain on refunding debt	161,207.56
ERSRI difference between expected and actual experience	484,410.00
ERSRI pension change in assumptions	90,824.00
ERSRI changes in proportion and differences between employer contribution and proportionate share of contributions	235,729.00
ERSRI net difference between projected and actual earnings	589,071.00
Non-union pension difference between projected and actual earnings	157,126.00
TOTAL DEFERRED INFLOWS OF RESOURCES	<u>1,718,367.56</u>
NET POSITION	
Net Investment in capital assets	483,646,977.34
Restricted - environmental enforcement	78,712.78
Restricted - debt service reserve	3,539,427.15
Restricted - operating reserve for revenue stability	4,554,596.01
Unrestricted	9,957,366.43
TOTAL NET POSITION	<u><u>\$501,777,079.71</u></u>

NARRAGANSETT BAY COMMISSION
STATEMENT OF REVENUE, EXPENSE, AND CHANGES IN NET POSITION
FOR THE PERIOD ENDING JUNE 30, 2018

OPERATING REVENUE	
User fees, residential	\$55,303,894.94
User fees, commercial and industrial	40,616,341.57
Sewer connection fees	123,319.00
Pretreatment fees	1,066,369.95
Environmental enforcement fees	3,400.00
Septage income	333,037.20
Renewable energy credits	190,718.17
Miscellaneous	38,848.00
Late charge penalties	796,362.45
Total Operating Revenues	<u>98,472,291.28</u>
OPERATING EXPENSES	
Personnel services	23,581,273.90
Operations and maintenance	9,118,794.60
Utilities	2,812,838.68
Supplies	2,120,922.15
Professional services	1,198,132.02
Depreciation	16,091,344.32
Miscellaneous	1,110,371.42
Total Operating Expenses	<u>56,033,677.09</u>
OPERATING INCOME	42,438,614.19
NON-OPERATING REVENUES (EXPENSES)	
Interest income	938,782.95
Interest expense	(17,994,681.99)
Transfer to the State of RI	(5,000,000.00)
Miscellaneous non-operating revenue	114,951.47
Bond and note fees	(23,485.00)
Total Non-operating Revenue (Expenses)	<u>(21,964,432.57)</u>
NET INCOME (LOSS) BEFORE CAPITAL CONTRIBUTIONS	20,474,181.62
Capital Contribution	<u>20,474,181.62</u>
CHANGE IN NET POSITION	20,474,181.62
TOTAL NET POSITION, BEGINNING	481,302,898.09
TOTAL NET POSITION, ENDING	<u><u>\$501,777,079.71</u></u>

Narragansett Bay Commission
Capital Project Compliance Reporting
Period Ending: June 30, 2018

Project	Actual / Projected Start Date	Actual / Projected Completion	Total Estimated Project Cost	Total Paid to Date	Percent Complete*
10908C - FPWWTF Blower Improvements Phase II - Construction	Oct-16	Aug-19	9,284,704	7,062,433	76.1%
1140100 - River Model Development	Mar-05	Jul-24	537,495	350,460	65.2%
1140300 - Green House Gas Study	Oct-14	Apr-19	76,588	27,345	35.7%
1140500 - NBC Energy Sustainability	Jan-16	Jan-20	225,000	128,438	57.1%
1140600 - RIPDES Compliance Improvements	Feb-18	Feb-23	1,551,440	150,014	9.7%
12000C - BPWWTF - Biogas Reuse - Construction	Jan-15	May-19	8,271,641	7,040,562	85.1%
12400D - New IM Facilities - Design	Mar-15	Jun-22	606,000	378	0.1%
12400C - New IM Facilities - Construction	Mar-19	May-23	5,819,000	-	0.0%
12900C - FPWWTF Operations and Laboratory Building Reuse, Construction	Oct-19	Aug-21	760,000	384,655	50.6%
13000C - FPWWTF Final Clarifier Improvements - Construction	Feb-16	Jun-19	4,139,853	3,533,833	85.4%
13200D - FPWWTF Maintenance Facilities	Feb-18	Apr-25	746,000	-	0.0%
13200C - FPWWTF Maintenance Facilities	Jun-20	Nov-27	5,732,000	-	0.0%
20000 - WWTF Improvements	Mar-18	Ongoing	3,296,000	-	0.0%
20100C - FY 17 WWTF Improvements	Feb-17	Nov-20	1,474,000	120,436	8.2%
20200D - FY 2019 WWTF Improvements	Jun-18	Jun-21	725,000	11,215	1.5%
30315C - CSO Phase II - WCSO OF 046	Mar-18	Jun-20	1,121,999	24,628	2.2%
30400C - Interceptor Restoration and Construction	Jul-01	Ongoing	6,000,000	-	0.0%
30400M - Interceptor Inspection and Cleaning	Jul-01	Ongoing	3,083,000	-	0.0%
30421C - Louisiquisset Pike Interceptor Replacement - Construction	Feb-19	Aug-20	4,594,000	-	0.0%
30438C - Interceptor Easements AVI - Construction	Mar-16	Jul-18	830,245	689,900	83.1%
30444D - Moshassuck Valley Interceptor - Design	Jan-12	Jul-18	504,108	470,342	93.3%
30444C - Moshassuck Valley Interceptor - Construction	Sep-16	Aug-20	10,293,941	16,102	0.2%
30457D- Providence River SiphonRehab-Design	Jul-15	Oct-18	513,624	496,691	96.7%
30457C- Providence River SiphonRehab-Construction	Jul-16	Sep-19	7,862,300	16,960	0.2%
30460D-Johnston Sewer Improvements-D	Mar-16	Aug-18	410,240	306,245	74.7%
30460C-Johnston Sewer Improvements-C	Jan-17	Jun-19	8,915,000	5,194,041	58.3%
30463C -Improvements to Interceptors FY 2017	Apr-16	May-19	1,570,840	788,759	50.2%
30464D - Johnston Sewer Improv/Hartford	Feb-17	Aug-18	253,000	174,517	69.0%
30464C - Johnston Sewer Improv/Hartford	Jun-17	Jun-19	3,240,766	2,445,854	75.5%
30465C - FP Drive Interceptor Improv.	May-17	Dec-19	1,331,619	73,989	5.6%
30466C - ImprovementsInterceptorsFY2018	Apr-18	Jan-20	3,572,000	16,026	0.4%
30475M - Providence SouthProvidence IIC	Jul-09	Jun-18	719,882	614,501	85.4%
30476M - N. Providence, Johnston Lincoln IIC	Mar-18	Feb-19	320,000	1,194	0.4%
30500D - NBC Interceptor Easements, Various Locations - Design	Dec-18	Jun-20	439,000	-	0.0%
30500C - NBC Interceptor Easements, Various Locations - Construction	Nov-19	Nov-20	439,000	-	0.0%
30501D - Interceptor Easements - NBC BVI Design	Jul-09	Aug-18	497,870	425,223	85.4%
30501C - Interceptor Easements - NBC BVI Construction	Feb-17	Jun-19	971,288	636,911	65.6%
30503C - NBC Interceptor Easements Restoration, BVI Wetlands	Jul-18	Jul-19	194,000	-	0.0%
30700D - NBC System-Wide Facilities Planning	Mar-19	Sep-20	385,500	-	0.0%
30800D CSO Phase III A Facilities Design	Apr-13	May-22	74,021,817	13,408,518	18.1%
30800C CSO Phase III A Facilities Construction	Jul-18	Jul-26	428,383,824	-	0.0%
30810D CSO Phase III B Facilities Design	To be incorporated into CSO Phase III A Facilities Design				
30810C CSO Phase III B Facilities Construction	Dec-27	Dec-30	28,484,341	-	0.0%
30811C - CSO Phase III High Street Demo	May-18	Nov-19	450,760	5,789	1.3%
30820D CSO Phase III C Facilities Design	May-32	Jun-34	23,120,000	-	0.0%
30820C CSO Phase III C Facilities Construction	Apr-34	Jun-37	141,540,000	-	0.0%
30830D CSO Phase III D Facilities Design	Apr-37	Sep-39	13,180,000	-	0.0%
30830C CSO Phase III D Facilities Construction	Aug-39	Dec-41	70,320,000	-	0.0%
40100P - NBC Facility Electrical Improvements	Jun-20	May-21	130,000	-	0.0%
40101P - FPWWTF ElectricalImprovementsP	Jan-16	May-19	170,000	13,115	7.7%
40102C - WWTF Electrical Improvements	Sep-17	Jun-19	605,000	86,260	14.3%
40200D - NBC Systemwide Inflow Reduction, Design	Sep-19	Dec-20	137,000	-	0.0%
40200C - NBC Systemwide Inflow Reduction, Construction	Mar-21	Jul-21	318,000	-	0.0%
40300P - Municipal Lateral Sewer Acquisition Impact	May-19	Jul-20	296,000	-	0.0%
40400P - FPWWTF Facilities PlanUpdate-P	Jan-17	Jan-19	380,000	177,457	46.7%
40500D - NBC RIPDES Flow Monitoring	Dec-17	Jul-19	848,000	3,018	0.4%
70900D - Omega Pump Station Upgrade Design	Jul-18	May-19	164,000	-	0.0%
70900C - Omega Pump Station Upgrade Construction	Feb-19	Jun-20	748,000	-	0.0%
71000D - Lincoln Septage Station Replacment Design	Jul-18	Sep-19	404,000	-	0.0%
71000C - Lincoln Septage Station Replacment Construction	Aug-19	Jul-21	2,400,000	-	0.0%
81000D - BPWWTF UV DisinfectionImprov-D	May-17	Jul-19	558,910	16,912	3.0%
81000C - BPWWTF UV DisinfectionImprov-C	Jul-19	Nov-21	6,929,000	-	0.0%
81400C - BPWWTF DigesterPipe&Miscimprov	Dec-16	Feb-19	1,353,500	1,080,343	79.8%
81500P- BPWWTF O&M Support Facilities	To be incorporated into CSO Phase III A Facilities Design				
81500D - BPWWTF O&M Support Facilities	To be incorporated into CSO Phase III A Facilities Design				
81500C - BPWWTF O&M Support Facilities	To be incorporated into CSO Phase III A Facilities Construction				
			896,250,095.21	45,993,062.52	5.1%

* Percent complete is calculated by dividing the Total Paid to Date by Total Estimated Project Cost.

**Narragansett Bay Commission Docket #4602
Compliance Reporting on Restricted Accounts for FY 2018**

	Cash Receipts	Capital Outlay 0.000%	Restricted Account 0.000%	Debt 47.98%	Interest	Total Debt	Debt Coverage 12.000%	Operating Reserve for Revenue Stability Fund
Percentage								
Receipts:								
Beginning Balance		1,685,884.01	17,429,685.97			36,788,761.48	12,157,132.77	4,502,868.64
Reallocation of funds						(7,442,361.40)	7,442,361.40	
to required balance:						29,346,400.08	19,599,494.17	
Interest Trans 7/26/2017								(2,868.64)
Carryover Tran 8/28/2017		3,624,793.99	10,997,493.86				(14,622,287.85)	
Funds Trans 6/26/2018			7,000,000.00				(7,000,000.00)	
Subtotal		5,310,678.00	35,427,179.83	0.00	0.00	29,346,400.08	(2,022,793.68)	4,500,000.00
July-17	7,190,768.30	1,550.33	12,770.88	3,450,130.63	33,018.87	3,483,149.50	862,892.20	3,312.70
August-17	8,758,105.09	1,433.08	12,961.31	4,202,138.82	35,420.18	4,237,559.00	1,050,972.61	3,430.97
September-17	8,766,275.47	3,271.34	19,133.71	4,206,058.97	2,519.77	4,208,578.74	1,051,953.06	3,365.64
October-17	7,892,613.92	3,215.92	19,186.68	3,786,876.16	6,886.56	3,793,762.72	947,113.67	3,576.91
November-17	9,690,674.99	2,994.00	17,592.05	4,649,585.86	10,622.98	4,660,208.84	1,162,881.00	3,556.18
December-17	7,406,718.54	3,031.52	19,669.81	3,553,743.56	17,602.92	3,571,346.48	888,806.22	4,234.53
January-18	7,957,443.80	3,121.82	19,504.94	3,817,981.54	24,625.05	3,842,606.59	954,893.26	4,615.93
February-18	7,839,757.97	2,703.57	17,116.23	3,761,515.87	26,158.61	3,787,674.48	940,770.96	4,271.17
March-18	8,760,557.53	3,290.80	21,412.47	4,203,315.50	30,042.77	4,233,358.27	1,051,266.90	5,517.29
April-18	7,070,421.71	3,154.81	21,680.95	3,392,388.34	38,467.20	3,430,855.54	848,450.61	5,912.15
May-18	8,256,123.97	2,791.76	22,057.26	3,961,288.28	47,883.16	4,009,171.44	990,734.88	6,282.74
June-18	8,110,129.55	2,440.06	17,688.43	3,891,240.16	53,767.34	3,945,007.50	973,215.55	6,519.80
	97,699,590.84	5,343,677.01	35,647,954.55	46,876,263.69	327,015.41	76,549,679.18	9,701,157.24	4,554,596.01
Expenses:								
July-17	781,605.64		89,395.26			121,736.36		
August-17	182,361.90		2,030,653.51			1,040,262.51		
September-17	341,558.65		1,529,383.32			35,050,141.58		
October-17	267,518.23		743,603.78			119,512.91		
November-17	602,995.35		1,854,038.53			43,909.54		
December-17	119,228.68		1,329,846.46			49,333.51		
January-18	213,971.70		2,867,702.98			129,829.33		
February-18	146,621.73		(156,078.18)			1,046,806.22		
March-18	299,057.53		804,540.28			7,638,702.14		
April-18	404,035.30		969,227.51			129,995.44		
May-18	346,487.33		655,020.56			77,386.32		
June-18	397,255.50		841,492.91			68,506.64		
	4,102,697.54		13,558,826.92			45,516,122.50		
Balance	\$ 1,240,979.47	\$ 22,089,127.63	\$ 31,033,556.68	\$ 9,701,157.24	\$ 4,554,596.01			
Docket #4602 effective July 2016:	Debt %	47.98%						
	Debt Coverage %	12.00%						
		0.5998						