



NARRAGANSETT BAY COMMISSION

One Service Road, Providence, Rhode Island 02905

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

COMPLIANCE RATE FILING

October 3, 2018

Vincent J. Mesolella
Chairman

Raymond J. Marshall, P.E.
Executive Director

KEOUGH + SWEENEY, LTD.

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

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

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

SEAN P. KEOUGH*

JEROME V. SWEENEY II
OF COUNSEL

*ADMITTED TO PRACTICE IN
RHODE ISLAND & MASSACHUSETTS

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

October 3, 2018

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

***Re: Narragansett Bay Commission – Compliance Filing
For Debt Service and Debt Service Coverage***

Dear Chairperson Curran:

On behalf of the Narragansett Bay Commission (“NBC”), enclosed you will find a Compliance Filing For Debt Service and Debt Service Coverage in accordance with the debt service compliance filing mechanism established by the Rhode Island Public Utilities Commission in Docket 3483 (Order No. 17558). In this filing, the NBC seeks additional revenue of \$2,872,681 to finance a \$45 million loan from the Rhode Island Infrastructure Bank for NBC’s ongoing capital improvement program. The NBC requests rate relief effective January 1, 2019 to effectuate the proposed borrowing with the Rhode Island Infrastructure Bank.

The NBC’s filing in support of the requested rate relief includes testimony and supporting schedules and exhibits to meet the requirements established by the Rhode Island Public Utilities Commission in Docket 3483 for a debt service and debt service coverage compliance filing. Furthermore, 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.

Finally, the NBC has 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 might be published as prescribed by law.

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,

Margaret E. Curran, Chairperson
Rhode Island Public Utilities Commission
October 3, 2018
Page 2

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,

A handwritten signature in cursive script, appearing to read "Joseph A. Keough, Jr.", written in dark ink.

Joseph A. Keough, Jr.

Certificate of Service **1**

Notice of Change in Rate Schedules **2**

Leah E. Foster Attestation **3**

Tariffs **4**

Karen L. Giebink Direct Testimony **5**

Karen L. Giebink Supporting Schedules **6**

Direct Testimonies **7**

Kathryn Kelly, P.E. Direct Testimony

David Bowen, P.E. Direct Testimony

Capital Projects Compliance Reporting **8**

CERTIFICATE OF SERVICE

I hereby certify that on October 3, 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.



Karen L. Giebink
Chief Financial Officer

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

PUBLIC UTILITIES COMMISSION

IN RE: NARRAGANSETT BAY COMMISSION
COMPLIANCE FILING OF October 3, 2018

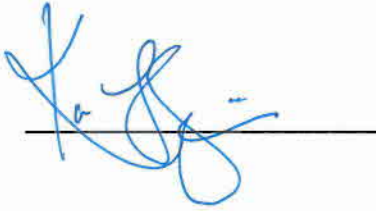
NOTICE OF CHANGE IN RATE SCHEDULES

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 January 1, 2019. The new rates are designed to collect revenues in a 12-month period equal to \$102,522,251.

- 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, 02903 and Joseph A. Keough, Jr., Esquire, Legal Counsel, Keough & Sweeney, Ltd., 41 Mendon Ave., 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 Division 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 3rd 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. _____

NOTICE OF FILING 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 3, 2018 it filed an application with the PUC to change its rates.

The new rates, as proposed, will generate additional revenues of \$2,872,681 to support a total revenue requirement of \$102,522,251 for NBC. The additional revenues will be used to cover debt service and debt service coverage expense for Capital Improvement Plan projects. The impact of the proposal will be an across-the-board increase of 2.98% on all residential and non-residential rates. For an average residential customer, using 150 gallons of water per day, the request will result in an increase of \$14.21 in their annual bill from \$477.27 to \$491.48. The impact of the rate increase on all other customers will vary depending upon the customer's classification and consumption.

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

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.

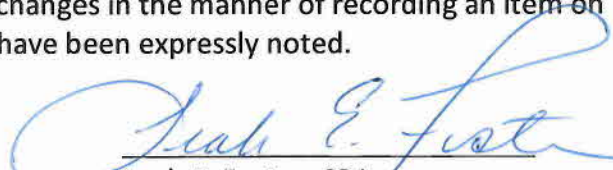
Correspondence should be addressed to Karen Giebink, Chief Financial Officer, Narragansett Bay Commission, One Service Road, Providence, RI, 02905 and Joseph A. Keough, Jr., Legal Counsel, Keough & Sweeney, Ltd., 41 Mendon Avenue, Pawtucket, RI, 02861.

IN RE:
NARRAGANSETT BAY COMMISSION
COMPLIANCE FILING OF October 3, 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 3rd day of October 2018.


Notary Public

SCHEDULE A

EFFECTIVE:	CUSTOMER CHARGE	July 1, 2016
	CONSUMPTION CHARGE	July 1, 2016

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:**

\$ 218.80 per dwelling unit per year

CONSUMPTION CHARGE:

\$ 3.531 per hundred cubic feet of 100% of water used

RESIDENTIAL WELL CUSTOMERS:

\$ 499.90 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"	\$523
3/4"	\$782
1"	\$1,300
1 ½"	\$2,607
2"	\$4,164
3"	\$7,802
4"	\$13,000
6"	\$26,010
8"	\$41,615
10"	\$59,824

CONSUMPTION CHARGE:**NBC Service Area:**

\$ 3.292 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"	\$523
	3/4"	\$782
	1"	\$1,300
	1 ½"	\$2,607
	2"	\$4,164
	3"	\$7,802
	4"	\$13,000
	6"	\$26,010
	8"	\$41,615
	10"	\$59,824

CONSUMPTION CHARGE:

NBC Service Area: \$ 5.120 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 \leq 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 $\geq 2,500$ 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	July 1, 2016	January 1, 2019
	CONSUMPTION CHARGE	July 1, 2016	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.

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\$ 225.32

CONSUMPTION CHARGE:

~~\$ 3.531~~ per hundred cubic feet of 100% of water used
\$ 3.636

RESIDENTIAL WELL CUSTOMERS:

~~\$ 499.90~~ Based upon fixed fee and average annual usage of 79.61 HCF
\$ 514.78

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5/8"	\$523	\$539
3/4"	\$782	\$805
1"	\$1,300	\$1,339
1 1/2"	\$2,607	\$2,685
2"	\$4,164	\$4,288
3"	\$7,802	\$8,034
4"	\$13,000	\$13,387
6"	\$26,010	\$26,785
8"	\$41,615	\$42,855
10"	\$59,824	\$61,607

CONSUMPTION CHARGE:**NBC Service Area:**

~~\$ 3.292~~ per hundred cubic feet of 100% of water used.
\$ 3.390

COMMERCIAL

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\$ 5.273

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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 \leq 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 $\geq 2,500$ 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
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 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: \$ 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
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	1,000 GPD \leq Flow < 2,500	\$725
	2,500 GPD - 5,000 GPD	\$1,087
	> 5,000 GPD	\$1,449
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Charge: \$75.00 per incident

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1
2
3
4 **NARRAGANSETT BAY COMMISSION**

5
6 **PRE-FILED DIRECT TESTIMONY**
7 **OF KAREN L. GIEBINK**
8

9
10
11
12 **Introduction**

13
14 **Q. Please state your name and address.**

15 A. Karen L. Giebink. My business address is the Narragansett Bay Commission at One Service Road,
16 Providence, RI 02905.

17
18 **Q. For whom are you employed and what is your position?**

19
20 A. I am employed by the Narragansett Bay Commission (NBC) as its Chief Financial Officer.
21

22
23 **Q. For how long have you been so employed?**
24

25 A. I have been employed as NBC's Chief Financial Officer since July 2018. Prior to that date, I served
26 as the NBC's Director of Administration and Finance beginning in April 1997. I began my
27 employment with the NBC in 1989 and have held the positions of Policy Associate and Senior
28 Environmental Planner. The three years prior to my employment with the NBC, I worked as an
29 analyst for the City of San Diego Water Utilities Department.

30
31 **Q. Have you previously testified before the Division of Public Utilities and Carriers (Division)?**
32

33 A. Yes. I provided testimony in several applications for approval to enter into long-term debt. I have
34 also provided testimony in dockets 1968, 2216, 3651, 3797, 3905, 4305, 4352, 4364, and 4478
35 before the Public Utilities Commission (PUC).
36

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

2
3 A. I am providing testimony and schedules in support of a rate increase for debt service and debt
4 service coverage to be effective January 1, 2019 in compliance with a debt service compliance
5 filing mechanism approved by the PUC in Docket 3483. I will specifically address the requirements
6 for a debt service compliance filing as set forth originally in the Report and Order from Docket
7 3483.

8
9 **Q. Can you provide some background on the debt service compliance filing mechanism that NBC**
10 **is using in this filing?**

11 A. Yes. In 2003, the PUC established a debt service compliance filing mechanism that allows NBC to
12 make abbreviated filings for debt service and debt service coverage related to capital projects.
13 (See Docket 3483, Order No. 17558). This mechanism allows NBC to take advantage of low interest
14 rates by enabling rate increases for debt service in a shorter time than a full rate filing. The
15 mechanism also allows NBC to avoid the cost of a full rate filing, thus achieving savings for its
16 ratepayers. The PUC most recently approved the NBC's Miscellaneous Petition for Relief to extend
17 the debt service compliance filing mechanism until 2022. (See Docket 4364 - Order 23267 dated
18 April 3, 2018).

19
20 **Q. Is this NBC's first filing for debt service relief under the compliance requirements set forth in**
21 **Docket 3483?**

22 A. No. NBC has filed this same type of filing in Docket 3775 (October 4, 2006), Docket 4151 (March
23 2, 2010), Docket 4214 (November 24, 2010), Docket 4305 (December 20, 2011), Docket 4352
24 (August 27, 2012), Docket 4562 (April 21, 2015), and Docket 4602 (February 16, 2016).

1 **Q. Can you please provide an update regarding NBC's debt issuances since the PUC last approved**
2 **a revenue increase for debt service and debt service coverage as part of Docket 4602?**

3 A. Yes. Docket 4602 resulted in new rates effective July 1, 2016. Since that time, NBC borrowed
4 \$23,000,000 through the Rhode Island Infrastructure Bank or RIIB (formerly the Rhode Island
5 Clean Water Finance Agency).

6
7 **Q. Why is NBC requesting rate relief for debt service and debt service coverage?**

8 A. The NBC needs rates sufficient to generate revenues that are 125% of annual debt service. Rate
9 relief is required in order for NBC to demonstrate that its rates are sufficient prior to the issuance
10 of additional long-term debt.

11
12 **Q. When does NBC anticipate borrowing from the RIIB and how much will it borrow?**

13 A. NBC submitted an application to the RIIB for a \$45.0 million loan from the RIIB to be executed in
14 February 2019. This loan is required to finance the NBC's ongoing Capital Improvement Program
15 (CIP).

16
17 **Q. What are the test year and rate year in this filing?**

18 A. The test year is FY 2018. The rate year (calendar year 2019) reflects the annual debt service in
19 fiscal year 2021 because it is the year with the highest annual debt service within the three-year
20 certificate period required by the Trust Indenture based on projected debt service and debt
21 service coverage requirements. NBC must ensure that rates generate sufficient revenue to meet
22 the debt service coverage requirements for the rate year and two succeeding years. This is
23 included in Schedule KLG-1. The coverage requirements are reflected in KLG-2.

1 **Q. Why does NBC need additional capital funds?**

2 A. NBC continues to have significant capital needs primarily related to the federally mandated
3 Combined Sewer Overflow (CSO) Abatement Program. NBC has also identified other capital needs
4 related to the wastewater treatment and collection system. The testimony of Kathryn Kelly and
5 David Bowen includes information related to the capital needs as well as an update on the CSO
6 Phase III Facilities in their pre-filed testimonies as part of this docket.

7

8 **Q. What projects does the NBC plan on funding with the proceeds of this loan?**

9 A. The majority of the loan proceeds will be used for the CSO Phase III Facilities. NBC also plans to
10 fund the Moshassuck Valley Interceptor Replacement and Louisquisset Pike Interceptor
11 Improvements. Other projects that may be funded with proceeds from this bond issue include
12 Interceptor Easement Improvements, Improvements to CSO Interceptors, Improvements to both
13 the Field's Point and Bucklin Point Wastewater Treatment Facilities, and other projects that are
14 discussed in the testimony of Kathryn Kelly. All projects to be funded through this loan are
15 included on the Rhode Island Department of Environmental Management's 2019 Project Priority
16 List.

17

18 **Q. What is the anticipated draw down period for the expenditure of the loan proceeds?**

19 A. Based upon engineering estimates, NBC plans on expending these funds over a fourteen-month
20 period.

21

22 **Q. What is the revenue increase requested by NBC to support the projected debt issuance in this
23 compliance docket?**

24 A. NBC is requesting additional revenue of \$2,872,681. This revenue increase represents a 2.88%
25 increase over test year revenues at current rates.

26

27

1 **Q. Will all rates increase by 2.88%?**

2 A. No, not all revenue accounts are impacted by the proposed rate increase. Therefore, the uniform
3 across-the-board rate increase on sewer user rates is 2.98% (See Schedule KLG-5).

4
5 **FILING REQUIREMENTS**

6 **Q. Would you please provide a list of the compliance debt service filing requirements as set forth**
7 **by the PUC in Docket No. 3905?**

8 A. Yes. The requirements established in Docket 3483 for NBC's debt service compliance filing
9 mechanism are as follows:

- 10 (1). Be filed no later than sixty days prior to its effective date;
- 11 (2). Be limited for debt service and debt service coverage for CIP projects;
- 12 (3). Contain a revised limited cost of service schedule reflecting the changes to the
13 revenue and expense accounts affected by the VRDO/TECP program;
- 14 (4). Contain testimony and schedules in support of the debt service and debt service
15 coverage proposed as well as current and projected annual debt service payment
16 schedule;
- 17 (5). Contain a summary of funds currently available for the CIP program and the projected
18 funding needed for the rate year period;
- 19 (6). Contain a summary of funding received from Rhode Island Clean Water Finance
20 Agency (RICWFA), now known as the Rhode Island Infrastructure Bank (RIIB),
21 including funds requested, received, the interest rate, and repayment schedules;
- 22 (7). Contain a summary of how prior years' debt service coverage funds were utilized;
- 23 (8). Contain a calculation of new rates based on a uniform percentage increase to rates;
24 and
- 25 (9). Contain a showing of compliance with prior Commission orders and the requirements
26 of Section 2.11 of the Commission's Rule of Practice and Procedure."

1 **Q. Have you provided all of the information needed to be in compliance with the above listed**
2 **requirements?**

3 A. Yes, the required elements are included in this application.
4

5 **Q. Is this filing in compliance with the first item that requires the filing be made no later than sixty**
6 **days prior to the effective date?**

7 A. Yes. NBC is requesting an effective date for this rate request of January 1, 2019. Therefore, this
8 filing has been filed more than sixty days prior to the effective date. The reason for filing this
9 request now is to enable NBC to effectuate NBC's annual borrowing through the RIIB and enable
10 NBC to take advantage of RIIB's loan capacity and available funding.
11

12 **Q. Is this filing in compliance with the second requirement that limits the compliance filing to debt**
13 **service and debt service coverage for CIP projects?**

14 A. Yes.
15

16 **Q. Does this filing include a rate year cost of service schedule?**

17 A. Yes. Included in this filing is a limited cost of service schedule reflecting the changes to the
18 revenue and expense accounts for the FY 2019 rate year that would be affected by the rate
19 increase needed for debt service and debt service coverage. (See Schedule KLG-1).
20

21 **Q. In accordance with compliance item four, does the filing contain testimony and schedules in**
22 **support of the debt service and debt service coverage proposed as well as current and projected**
23 **annual debt service payment schedules?**

24 A. Yes, the testimony and detailed calculation schedule (See Schedule KLG-2) support the rate
25 increase needed to support the debt service and debt service coverage for the rate year in
26 compliance with item four. The projected annual debt service payment schedule and supporting
27 schedules are also provided (See Schedules KLG-2, KLG-8 and KLG-9). Please note that the
28 schedules reflected in this filing are based on a 20-year amortization, however NBC's loan

application from the RIIB included a request to structure the loan with a 30-year amortization. A 30-year amortization more closely matches the useful life of the assets that will be funded with the proceeds and will mitigate rate impact. NBC anticipates that RIIB's Board of Directors will act on its application at their meeting in October. Should the RIIB Board approve a 30-year amortization, NBC will update this application to reflect a rate year revenue requirement based on a projected debt service schedule with a 30-year amortization and the appropriate interest rates.

Q. Does this filing contain a summary of funds currently available for the CIP program and the projected funding needed for the rate year period as required per compliance item number five?

A. Yes. Please see the following table based upon the most recently completed cash flows and information from NBC's Engineers:

Capital Improvement Sources and Uses	
Capital Sources:	
Current Capital Funds on hand as of 6/30/18:	
2015 Series B - Unspent Proceeds	\$ 4,286,021
2016 Series A - Unspent Proceeds	12,122,578
Restricted Account - CIP	17,089,128
Grant and Project Reimbursement Account	8,565,662
Total Current Capital Funds	42,063,389
New Capital Funds	
Transfer to Restricted Account - CIP July 2018	1,938,183
2019 Series A (SRF 20)	45,000,000
Total New Capital Funds	46,938,183
Total Sources	\$ 89,001,572
Capital Uses (through 12/31/2019):	
Phase III CSO Facilities	\$ 39,030,768
Moshassuck Valley Interceptor Rehab.	9,936,292
Providence River Siphon Replacement	7,656,763
Johnston Sewer Improvements	3,954,100
Interceptor Inspection, Restoration & Constructon Projects	5,630,114
Sewer System Improvements	1,462,590
Waste Water Treatment Facilities Improvements	6,332,934
Infrastructure Management/Studies	2,207,383
CSO Phase II - WCSO OF 046	2,283,092
Cost of Issuance (SRF 20)	300,000
Total Uses	\$ 78,794,036

1 As of June 30, 2018, the unspent proceeds of the 2015 Series B (SRF 18) and 2016 Series A (SRF
2 19) total \$16.4 million and restricted and grant and project reimbursement funds total \$25.7
3 million. New capital funds in the rate year include a projected transfer of approximately \$1.9
4 million into the restricted fund that can be used for “pay as you go” capital from the prior year’s
5 debt service coverage and \$45.0 million from NBC’s next borrowing through the RIIB (2019 Series
6 A SRF 20), which is expected to close in February 2019.

7
8 **Q. Ms. Giebink, did you provide a schedule showing a summary of the activity in the restricted**
9 **accounts?**

10 A. Yes (See Schedule KLG-3). This schedule covers the actual activity for the restricted accounts for
11 the period January 1, 2016 through June 30, 2018. Similar schedules were filed in prior Dockets
12 providing the same type of information for the period of September 30, 2006 through December
13 31, 2015.

14
15 **Q. Would you please provide a summary explanation of Schedule KLG-3?**

16 A. Yes. Schedule KLG-3 provides the reader with the actual activity posted to the restricted accounts
17 in the Debt Service Fund and the Project Fund. This schedule begins with the January 1, 2016
18 balances in the restricted accounts for the Project Fund (\$35,340,447) and the restricted accounts
19 in the Debt Service Fund (\$27,811,741).

20 The schedule then shows the activity in the restricted accounts for the Project Fund and the
21 restricted accounts for the Debt Service Fund for each of the fiscal years ended June 30, 2016,
22 2017, and 2018. As of June 30, 2018, the remaining balance in the Restricted Account - Operating
23 Capital and Restricted Account - CIP in the Project Fund was \$18,330,107. The balance in the Debt
24 Service Payment Account, Stabilization Account, and Redemption Account for the Debt Service
25 Fund was \$40,734,714. The detail of the pay-as-you-go capital expenditures (CIP) is shown on
26 schedule KLG-4.

Q. Item six requires this filing to contain a summary of funding received from Rhode Island Clean Water Finance Agency (RICWFA), now known as the Rhode Island Infrastructure Bank (RIIB), including funds requested, received, the interest rate, and repayment schedules. Have you provided this information?

A. Yes, see the following table for a summary of loans requested, loans received and the interest rates for the loans from the RIIB. Schedule KLG - 8 is NBC's Master Debt Service Schedule and contains all of NBC's debt repayment schedules.

Date	Issue	Funds Requested	Funds Received	Interest Rate and Fees
March 1992	Butler Hospital Project	\$1,662,054	\$1,662,054	3.764%
March 1992	North Providence Interceptor	2,647,977	2,647,977	3.725%
March 1992	Washington Park Project	3,694,678	3,694,678	2.477%
March 1993	1993 Series Pooled Loan 1	14,781,000	14,781,000	3.669%
June 1994	1994 Series Pooled Loan 2	17,279,000	17,279,000	3.494%
March 1, 1997	1997 Series Pooled Loan 3	8,150,000	8,150,000	3.645%
February 4, 1999	1999 Series Pooled Loan 4	23,955,000	23,955,000	3.532%
November 1, 2001	2001 Series Pooled Loan 5	70,000,000	57,000,000	3.171%
October 24, 2002	2002 Series Pooled Loan 6	70,000,000	57,000,000	1.579%
November 13, 2003	2003 Series Pooled Loan 7	80,000,000	40,000,000	1.849%
December 30, 2004	2004 Series B Pooled Loan 8	40,000,000	40,000,000	1.904%
December 15, 2005	2005 Series B Pooled Loan 9	30,000,000	30,000,000	1.897%
December 21, 2006	2006 Series A Pooled Loan 10	30,000,000	30,000,000	1.770%
December 12, 2007	2007 Series B Pooled Loan 11	25,000,000	25,000,000	1.975%
October 6, 2009	2009 Series A Pooled Loan 12	55,000,000	55,000,000	1.377%
February 12, 2010	2010 Series A Pooled Loan 12	2,000,000	2,000,000	1.022%
June 24, 2010	2010 Series B Pooled Loan 13	25,000,000	20,000,000	2.643%
March 30, 2011	2011 Series A Pooled Loan 14	30,000,000	30,000,000	2.759%
June 28, 2012	2012 Series A Pooled Loan 15	25,000,000	25,750,000	2.588%
June 6, 2013	2013 Series B Pooled Loan 16	80,000,000	25,000,000	2.592%
March 6, 2014	2014 Series A Pooled Loan 17	50,000,000	45,000,000	2.967%
July 31, 2015	2015 Series A Pooled Loan 18	41,753,500	41,753,500	3.049%
June 2, 2016	2016 Series A Pooled Loan 19	36,000,000	23,000,000	2.467%

Q. In accordance with compliance requirement seven, have you provided a detailed listing of the capital project expenditures purchased using the prior year coverage funds?

A. Yes. This detailed listing is provided in Schedule KLG-4. The totals are also listed in Schedule KLG-3, for the period January 1, 2016 through June 30, 2018. NBC plans to continue to use this restricted carry-forward approach to protect its infrastructure investments and comply with regulatory requirements. NBC has, and will continue to, provide the PUC with semi-annual capital

1 project compliance reports in the format approved by the PUC at their December 10, 2009 open
2 meeting.

3
4 **Q. Does your testimony and schedules provide a calculation of new rates based upon a uniformed**
5 **percentage increase as directed in compliance item eight?**

6 A. Yes, see Schedule KLG-5, which shows the calculation of the percentage increase in sewer user
7 rates based on a uniform increase. In addition, please see Schedule KLG-6, which shows the rate
8 year revenue check, and Schedule KLG-7, which provides the ratepayer impact.

9
10 **Q. Item nine requires NBC to be in compliance with all Commission Orders. Is NBC in compliance?**

11 A. Yes.

12
13 **Q. Have you provided revised tariff pages?**

14 A. Yes. See the separate tab included in this filing.

15
16 **NBC General Rate Filing**

17 **Q. When does NBC plan to file its next general rate filing?**

18 A. NBC plans on filing an application for a general rate increase shortly after filing this request for
19 rate relief for debt. The general rate filing will likely be filed no later than October 5, 2018.

20
21 **Q. If NBC plans on filing a general rate filing so soon, why is it also filing this request to increase**
22 **rates through this abbreviated debt filing?**

23 A. The NBC needs the increase for debt service to fund the \$45.0 million RIIB borrowing as it is
24 expected to close in February 2019. If NBC files its application for general rate relief in October, a
25 decision will not be rendered in time to have funds available for the February 2019 borrowing.

1 NBC needs to have the increase in place to close this loan, which will enable it to take advantage
2 of the RIIB's loan capacity and available funding.

3

4 **Conclusion**

5 **Q. Does that conclude your pre-filed testimony?**

6 **A. Yes.**

	Docket 4602		
	Test Year*	Adjustment	Rate Year
<u>REVENUES</u>			
User Fee Revenues	\$ 96,425,456		\$ 96,425,456
Miscellaneous	3,224,114		3,224,114
	<hr/>		
Total Revenue	99,649,570	-	99,649,570
<u>EXPENSES</u>			
Personnel Services	21,739,796		21,739,796
Operating Supplies & Expenses	14,933,901		14,933,901
Special Servies	2,938,084		2,938,084
Debt Service	47,815,767	2,298,145	50,113,912
Debt Coverage	11,953,942	574,536	12,528,478
	<hr/>		
Total Expense	99,381,490	2,872,681	102,254,171
OPERATING RESERVE	268,080	-	268,080
	<hr/>		
COST OF SERVICE	99,649,570	2,872,681	102,522,251
RATE YEAR REVENUES AT PRESENT RATES	99,649,570		99,649,570
	<hr/>		
REVENUE INCREASE	\$ -	\$ 2,872,681	\$ 2,872,681
	<hr/>		

* Docket 4602 Rate Year approved by PUC. Most current debt service approved and included in rates.

Narragansett Bay Commission
Debt Service Coverage Requirements

KLG-2

Fiscal Year	Available for Debt Service	Current Debt Service	Debt Service Coverage	Planned SRF 20	Total Debt Service	Debt Service Coverage
2019	\$ 62,642,390	\$ 47,584,757	1.32	\$ -	\$ 47,584,757	1.32
2020	62,642,390	47,026,223	1.33	853,125	47,879,348	1.31
2021	62,642,390	47,026,562	1.33	3,087,350	50,113,912	1.25
2022	62,642,390	46,932,148	1.33	3,091,000	50,023,148	1.25
2023	62,642,390	43,771,157	1.43	3,092,638	46,863,795	1.34
2024	62,642,390	42,293,528	1.48	3,097,263	45,390,791	1.38
2025	62,642,390	41,308,207	1.52	3,099,700	44,407,907	1.41
2026	62,642,390	41,304,435	1.52	3,099,863	44,404,298	1.41
2027	62,642,390	40,653,187	1.54	3,107,750	43,760,937	1.43
2028	62,642,390	40,373,096	1.55	3,108,275	43,481,371	1.44
2029	62,642,390	40,104,715	1.56	3,116,350	43,221,065	1.45
2030	62,642,390	39,177,360	1.60	3,116,888	42,294,248	1.48
2031	62,642,390	38,863,535	1.61	3,124,713	41,988,248	1.49
2032	62,642,390	33,807,497	1.85	3,129,738	36,937,235	1.70
2033	62,642,390	31,475,257	1.99	3,136,963	34,612,220	1.81
2034	62,642,390	32,980,574	1.90	3,141,300	36,121,874	1.73
2035	62,642,390	25,523,223	2.45	3,147,575	28,670,798	2.18
2036	62,642,390	17,830,104	3.51	3,155,613	20,985,717	2.99
2037	62,642,390	18,523,274	3.38	3,165,325	21,688,599	2.89
2038	62,642,390	13,331,224	4.70	3,171,713	16,502,937	3.80
2039	62,642,390	11,885,495	5.27	3,184,600	15,070,095	4.16
2040	62,642,390	11,881,201	5.27	3,193,813	15,075,014	4.16
2041	62,642,390	11,880,886	5.27	-	11,880,886	5.27
2042	62,642,390	11,883,043	5.27	-	11,883,043	5.27
2043	62,642,390	11,880,108	5.27	-	11,880,108	5.27
2044	62,642,390	11,878,525	5.27	-	11,878,525	5.27
2045	62,642,390	2,229,005	28.10	-	2,229,005	28.10
		<u>\$ 803,408,326</u>		<u>\$ 63,421,550</u>	<u>\$ 866,829,876</u>	

	Project Fund CIP and Operating Capital	Debt Service Fund Debt/Coverage Restricted	Total
Restricted Balance 1/1/2016	\$ 35,340,447	\$ 27,811,741	\$ 63,152,188
Receipts FY 2016		30,806,507	30,806,507
Interest FY 2016	43,127	39,532	82,659
Disbursements FY 2016			
Debt Service		(8,738,190)	(8,738,190)
Operating Capital	(1,692,234)		(1,692,234)
Capital Projects	(2,654,736)		(2,654,736)
Transfer from Project Fund	11,409	(11,409)	-
Transfer to Project Fund	-	-	
Restricted Balance 6/30/2016	31,048,013	49,908,181	80,956,194
Composition of the Cash:			
Debt Service Payment Account (includes June interest)		28,066,592	28,066,592
Stabilization Account (includes June interest)		16,842,451	16,842,451
Redemption Account (includes June interest)		1,038	1,038
Operating Capital Account (includes June interest)	1,267,386		1,267,386
Restricted Account	30,228,179		30,228,179
June Transfer	(447,552)	4,998,100	4,550,547
Restricted Balance 6/30/2016	\$ 31,048,013	\$ 49,908,181	\$ 80,956,194

	Project Fund CIP and Operating Capital	Debt Service Fund Debt/Coverage Restricted	Total
Restricted Balance 7/1/2016	\$ 31,048,013	\$ 49,908,181	\$ 80,956,194
Receipts FY 2017		60,765,402	60,765,402
Interest FY 2017	111,576	126,901	238,477
Disbursements FY 2017			
Debt Service		(43,597,847)	(43,597,847)
Operating Capital	(3,682,277)		(3,682,277)
Capital Projects	(26,618,485)		(26,618,485)
Transfer to Project Fund	18,256,743	(18,256,743)	-
Restricted Balance 6/30/2017	19,115,570	48,945,894	68,061,463

Composition of the Cash:

Debt Service Payment Account (includes June interest)		29,512,214	29,512,214
Stabilization Account (includes June interest)		14,480,620	14,480,620
Redemption Account (includes June interest)		1,044	1,044
Restricted Account - Operating Capital (includes June interest)	2,210,716		2,210,716
Restricted Account - CIP	17,429,686		17,429,686
June Transfer	(524,832)	4,952,017	4,427,184
Restricted Balance 6/30/2017	\$ 19,115,570	\$ 48,945,894	\$ 68,061,463

	Project Fund CIP and Operating Capital	Debt Service Fund Debt/Coverage Restricted	Total
Restricted Balance 7/1/2017	\$ 19,115,570	\$ 48,945,894	\$ 68,061,463
Receipts FY 2018		58,600,215	58,600,215
Interest FY 2018	253,774	327,015	580,789
Disbursements FY 2018			
Debt Service		(45,516,123)	(45,516,123)
Operating Capital	(4,102,698)		(4,102,698)
Capital Projects	(13,558,827)		(13,558,827)
Transfer to Project Fund FY 2017	14,622,288	(14,622,288)	-
Transfer to Project Fund FY 2018	7,000,000	(7,000,000)	-
Transfer to State of RI	(5,000,000)		(5,000,000)
Restricted Balance 6/30/2018	18,330,107	40,734,714	59,064,820

Composition of the Cash:

Debt Service Payment Account (includes June interest)		30,406,240	30,406,240
Stabilization Account (includes June interest)		5,462,962	5,462,962
Redemption Account (includes June interest)		1,056	1,056
Restricted Account - Operating Capital (includes June interest)	1,638,235		1,638,235
Restricted Account - CIP	17,089,128		17,089,128
June Transfer	(397,256)	4,864,456	4,467,199
Restricted Balance 6/30/2018	\$ 18,330,107	\$ 40,734,714	\$ 59,064,820

Restricted Activity (1/1/2016-6/30/2016)

Project Number	Project Name	Amount
1140100	RIVER MODEL DEVELOPMENT	\$ 236.05
1140300	GREEN HOUSE GAS STUDY	2,446.59
1140400	EVALUATE NBC - CLIMATE RESILIENCY	1,346.62
1140500	NBC ENERGY SUSTAINABILITY	19,534.84
10901C	FPWWTF NITROGEN REMOVAL CONST.	27,839.00
10907C	FP - BLOWER IMPROVEMENTS	246,719.69
10908D	FPWWTF BLOWER IMPROV. PHASE II - D	527,902.17
12100C	FPWWTF WIND TURBINE PROJ.	1,250.00
12400D	NEW IM FACILITIES DESIGN	246.11
12700C	FPWWTF ELEC SUBSTATION NO. 1	863,233.60
12700D	FP ELECR SUBSTATION - DESIGN	174,956.20
12800P	BPWWTF SOLAR ENERGY PLANNING	2,556.44
12900P	FPWWTF OP AND LAB BLDG REUSE	7,296.60
13000C	FPWWTF FINAL CLARIFIER IMPROV. - C	17,292.50
13000D	FPWWTF FINAL CLARIFIER IMPROV. - D	26,181.34
30301D	PHASE II CSO FACILITIES - DESIGN	9,718.00
30303C	PHASE II CSO WCSOI	80,743.15
30438C	INTERCEPTOR EASEMENTS - CONSTRUCTION	14,793.70
30438D	INTERCEPTOR EASEMENTS - DESIGN	77,098.67
30444D	MOSHASSUCK VALLEY INT. DESIGN	33,264.47
30451C	IMPROV TO INTERCEPTORS FY 2016	3,810.45
30456C	BUTLER HOSPITAL INTERCEPTORS LINING	822.73
30457D	PROV RIVER SIPHON REHAB	182,298.28
30457P	PROVIDENCE RIVER SIPHON REHAB - P	6,058.95
30460D	JOHNSTON SEWER IMPROVEMENTS - D	12,483.39
30462C	NBC E. PROV. INTERCEPT. IMPROVE	24,120.37
30463C	IMPROVEMENTS INTERCEPT. FY 2017	3,420.10
30471M	78" INTERCEPTOR OFF ALLENS AVE.	10,297.74
30472M	PROVIDENCE AND LINCOLN IIC	1,690.22
30473M	LOCKBRIDGE EASEMENT & VALLEY ST CLEANING & INSP.	140,403.65
30474M	BVI INSPECTION & CLEANING	12,166.26
30501D	INTERCEPTOR EASEMENTS - NBC BVI	5,057.75
30600C	FLOATABLES CONTROL FACILITIES	1,212.52
30800D	PHASE III CSO - PHASE A DESIGN	26,378.37
40101P	FPWWTF ELECTRICAL IMPROVEMENTS	5,952.16
50505C	WIND ENERGY DEVELOPMENT TURBINE	24,855.14
70800C	OMEGA PS IMPROVEMENT - CONSTRUCTION	25,194.52
80900D	BPWWTF NITROGEN REMOVAL DESIGN	956.02
81300C	BPWWTF FLOOD PROTECTION	32,901.64
		<u>\$ 2,654,736</u>
	Balance per schedule KLG-3	<u>(2,654,736.00)</u>
	Variance	<u>\$ -</u>

Restricted Activity (7/1/2016-6/30/2017)

Project Number	Project Name	Amount
1140300	GREEN HOUSE GAS STUDY	\$ 1,045.51
1140400	EVALUATE NBC - CLIMATE RESILIENCY	924.67
1140500	NBC ENERGY SUSTAINABILITY	37,965.77
10901C	FPWWTF NITROGEN REMOVAL CONST.	39,714.23
10907C	FP - BLOWER IMPROVEMENTS	48,606.71
10908D	FPWWTF BLOWER IMPROV. PHASE II - D	50,299.37
12700C	FPWWTF ELEC SUBSTATION NO. 1	225,863.92
12700D	FP ELECTR SUBSTATION - DESIGN	2,373.02
12800P	BPWWTF SOLAR ENERGY PLANNING	5,054.38
12900C	FPWWTF OP AND LAB BLDG REUSE Construction	22,580.13
12900P	FPWWTF OP AND LAB BLDG REUSE	31,561.02
13000C	FPWWTF FINAL CLARIFIER IMPROV - C	178.99
13100C	NBC ENERGY EFFICIENCY UPGRADES	865,033.12
20100C	FY 2017 WWTF IMPROVEMENTS	1,238.81
30301D	PHASE II CSO FACILITIES-DESIGN	1,513.75
30303C	PHASE II CSO WCSOI	528.00
30304C	PHASE II CSO SCISOI MAIN	6,686.80
30307C	PHASE II CSO OF 037 SOUTH	20,630.64
30438D	INTERCEPTOR EASEMENTS - CONST.	22,465.99
30444D	MOSHASSUCK VALLEY INT. DESIGN	149,535.64
30457D	PROV RIVER SIPHON REHAB.	168,952.16
30460C	JOHNSTON SEWER IMPROVEMENTS - C	128,124.72
30460D	JOHNSTON SEWER IMPROVEMENTS - D	264,776.13
30462C	NBC E. PROV. INTERCEP. IMPROV.	12,500.00
30463C	IMPROVEMENTS INTERCEPTORS FY 2017	284,532.88
30464C	JOHNSTON SEWER IMPROVEMENT / HARTFORD	13,481.15
30464D	JOHNSTON SEWER IMPROVEMENT / HARTFORD	153,342.44
30465C	FP DRIVE INTERCEPTOR IMPROVEMENT	1,644.29
30472M	PROVIDENCE AND LINCOLN IIC	53,545.54
30473M	LOCKBRIDGE EASEMENT & VALLEY C & I	381,636.22
30474M	BVI INSPECTION & CLEANING	68,774.08
30475M	PROVIDENCE / SOUTH PROVIDENCE IIC	5,246.25
30501D	INTERCEPTOR EASEMENTS -NBC BVI	104,694.68
30600C	FLOATABLES CONTROL FACILITIES	80,868.98
30800D	PHASE III CSO - PHASE A DESIGN	4,734,240.28
40101P	FPWWTF ELECTRICAL IMPROVEMENTS - P	1,130.61
40400P	FPWWTF FACILITY PLAN UPDATE - P	39,043.24
50505C	WIND ENERGY DEVELOPMENT TURBINES	18,433,260.91
70800C	OMEGA PS IMPROVEMENT - CONSTRUCTION	116,442.39
81000D	BPWWTF UV DISINFECTION IMPROVEMENT - D	361.96
81100C	BPWWTF EFFLUENT PUMPS REHAB.	14,750.00
81300C	BPWWTF FLOOD PROTECTION	1,691.12
81400C	BPWWTF DIGESTOR PIPE & MISC IMPROVEMENT	21,644.95
		<u>\$ 26,618,485.45</u>

Balance per schedule KLK-3 \$ (26,618,485.45)

Variance \$ -

Restricted Activity (7/1/2017-6/30/2018)

Project Number	Project Name	Amount
10901C	FPWWTF NITROGEN REMOVAL CONST.	\$ 11,039.00
10907C	FP - BLOWER IMPROVEMENTS	118,117.28
1140100	RIVER MODEL DEVELOPMENT	27,965.00
1140500	NBC ENERGY SUSTAINABILITY	69,300.83
1140600	RIPDES COMPLIANCE IMPROVEMENTS	143,220.38
12700C	FPWWTF ELEC SUBSTATION NO. 1	13,554.90
12800P	BPWWTF SOLAR ENERGY PLANNING	1,819.76
12900C	FPWWTF OP AND LAB BLDG REUSE CONSTRUCTION	323,074.32
13000C	FPWWTF FINAL CLARIFIER IMPROV - C	80,364.88
20100C	FY 2017 WWTF IMPROVEMENTS	117,081.74
20200D	FY 2019 WWTF IMPROVEMENTS	2,386.94
30301D	PHASE II CSO FACILITIES - DESIGN	15,710.50
30315C	CSO PHASE II - WCSO OF 046	22,045.21
30438D	INTERCEPTOR EASEMENTS - CONST.	21,424.45
30444D	MOSHASSUCK VALLEY INT. DESIGN	30,619.12
30444C	MOSHASSUCK VALLEY INT. CONST.	10,257.45
30457D	PROV RIVER SIPHON REHAB.	108,978.97
30457C	PROV RIVER SIPHON REPLACEMENT	4,051.59
30459C	IMPROV TO INTERCEPTORS FY 2015	1,244.00
30460D	JOHNSTON SEWER IMPROVEMENTS - D	28,985.22
30460C	JOHNSTON SEWER IMPROVEMENTS - C	5,038,448.30
30463C	IMPROVEMENTS INTERCEPTORS FY 2017	500,578.31
30464D	JOHNSTON SEWER IMPROV/HARTFORD	24,665.46
30464C	JOHNSTON SEWER IMPROVEMENT/ HARTFORD	2,376,293.88
30465C	FP DRIVE INTERCEPTOR IMPROVEMENT	58,504.62
30466C	IMPROVEMENTS INTERCEPTORS FY 2018	14,254.54
30474M	BVI INSPECTION & CLEANING	200.32
30475M	PROVIDENCE/SOUTH PROVIDENCE IIC	552,117.90
30476M	N. PROV., JOHNSTON, LINCOLN IIC	1,111.99
30501D	INTERCEPTOR EASEMENTS - NBC BVI	68,652.76
30600C	FLOATABLES CONTROL FACILITIES	7,424.78
30800D	PHASE II CSO - PHASE A DESIGN	2,319,354.29
30811C	CSO PHASE III HIGH STREET DEMO	4,289.13
40101P	FPWWTF ELECTRICAL IMPROVEMENTS - P	4,787.14
40102C	WWTF ELECTRICAL IMPROVEMENTS	85,883.85
40400P	FPWWTF FACILITY PLAN UPDATE - P	138,278.72
40500D	NBC RIPDES FLOW MONITORING	2,596.61
50505C	WIND ENERGY DEVELOPMENT TURBINES	54,322.65
70800C	OMEGA PS IMPROVEMENT - CONSTRUCTION	83,244.77
81000D	BPWWTF UV DISINFECTION IMPROVEMENT - D	16,014.34
81400C	BPWWTF DIGESTOR PIPE & MISC IMPROVEMENT	1,056,561.02
		<u>\$ 13,558,826.92</u>
	Balance per schedule KLG-3	<u>\$ (13,558,826.92)</u>
	Variance	<u>\$ -</u>

Narragansett Bay Commission
Percentage of Rate Increase Calculation

KLG-5

Calculation of Percentage Increase in Revenue Requirement

Revenue Increase (KLG-1)	<u>\$ 2,872,681</u>	
Test Year Revenue at Current Rates (KLG-1)	<u>99,649,570</u>	<u>2.88%</u>

Calculation of Across the Board Increase Percentage

Revenue Increase	<u>\$ 2,872,681</u>	(A)
------------------	---------------------	-----

Revenue Items which could be increased by an across
the board % Increase

Flat Fees Residential	\$ 25,862,598	
Measured Fee - Residential	29,734,173	
Flat Fees Commercial & Industrial	15,044,422	
Measured Fee - Commercial	24,388,869	
Measured Fee - Industrial	1,400,664	

Total Revenue Available for Increase	<u>\$ 96,430,726</u>	(B)
--------------------------------------	----------------------	-----

Across the Board Percentage Increase	<u>2.98%</u>	(A/B)
--------------------------------------	--------------	-------

Narragansett Bay Commission
Rate Year Revenue Check

KLG-6

	Current Rate	Increase	Proposed Rates	Billing Units	Revenue at Present Rates	Revenue at Proposed Rates
Flat Fees						
Residential	\$ 218.80	2.98%	\$ 225.32	118,202	\$ 25,862,598	\$ 26,633,275
Commercial & Industrial						
Meter Size						
5/8"	523	2.98%	539	3,666	1,917,318	1,975,974
3/4"	782	2.98%	805	1,022	799,204	822,710
1"	1,300	2.98%	1,339	1,160	1,508,000	1,553,240
1 1/2"	2,607	2.98%	2,685	841	2,192,487	2,258,085
2"	4,164	2.98%	4,288	1,373	5,717,172	5,887,424
3"	7,802	2.98%	8,034	76	592,952	610,584
4"	13,000	2.98%	13,387	38	494,000	508,706
6"	26,010	2.98%	26,785	47	1,222,470	1,258,895
8"	41,615	2.98%	42,855	13	540,995	557,115
10"	59,824	2.98%	61,607	1	59,824	61,607
Total Commercial & Industrial Flat Fees				8,237	15,044,422	15,494,340
Measured Fees						
Residential	3.531	2.98%	3.636	8,420,893	29,734,173	30,618,367
Commercial	5.120	2.98%	5.273	4,763,451	24,388,869	25,117,677
Industrial	3.292	2.98%	3.390	425,475	1,400,664	1,442,360
Total Measured Fees					55,523,706	57,178,404
Other Revenue					3,224,114	3,224,114
Total Revenue					99,654,840	102,530,133
Target Revenue						102,522,251
Variance						\$ (7,882)

Narragansett Bay Commission
Rate Payer Impact

KLG-7

	Current Rates	Proposed Rates	Dollar Increase	% Increase
73.2 HCF Residential				
Customer Charge	\$ 218.80	\$ 225.32	\$ 6.52	
Consumption	258.47	266.16	7.690	
Total 73.2 HCF Residential	<u>\$ 477.27</u>	<u>\$ 491.48</u>	<u>\$ 14.21</u>	<u>2.98%</u>
5/8" meter, 244 HCF Commercial				
Customer Charge	\$ 523.00	\$ 539.00	\$ 16.00	
Consumption	1,249.28	1,286.61	37.33	
Total 5/8" meter, 244 HCF Commercial	<u>\$ 1,772.28</u>	<u>\$ 1,825.61</u>	<u>\$ 53.33</u>	<u>3.01%</u>
2" meter, 2440 HCF Commercial				
Customer Charge	\$ 4,164.00	\$ 4,288.00	\$ 124.00	
Consumption	12,492.80	12,866.12	373.32	
Total 2" meter, 2440 HCF Commercial	<u>\$ 16,656.80</u>	<u>\$ 17,154.12</u>	<u>\$ 497.32</u>	<u>2.99%</u>
5/8" meter, 244 HCF Industrial				
Customer Charge	\$ 523.00	\$ 539.00	\$ 16.00	
Consumption	803.25	827.16	23.91	
Total 5/8" meter, 244 HCF Industrial	<u>\$ 1,326.25</u>	<u>\$ 1,366.16</u>	<u>\$ 39.91</u>	<u>3.01%</u>
2" meter, 2440 HCF Industrial				
Customer Charge	\$ 4,164.00	\$ 4,288.00	\$ 124.00	
Consumption	8,032.48	8,271.60	239.12	
Total 2" meter, 2440 HCF Industrial	<u>\$ 12,196.48</u>	<u>\$ 12,559.60</u>	<u>\$ 363.12</u>	<u>2.98%</u>

Narragansett Bay Commission
Open Market Debt Service Payment Schedule

KLG-8

	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

KLG-8

	\$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

KLG-8

	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

KLG-8

	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

KLG-8

	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

KLG-8

	SRF 2011 Series A PI 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

KLG-8

	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
Debt Service Schedule - SRF 20**

KLG-9

RIIB \$45,000,000

	Principal	Interest	Total
2019	\$ -	\$ -	\$ -
2020	-	853,125	853,125
2021	1,540,000	1,547,350	3,087,350
2022	1,600,000	1,491,000	3,091,000
2023	1,660,000	1,432,638	3,092,638
2024	1,725,000	1,372,263	3,097,263
2025	1,790,000	1,309,700	3,099,700
2026	1,855,000	1,244,863	3,099,863
2027	1,930,000	1,177,750	3,107,750
2028	2,000,000	1,108,275	3,108,275
2029	2,080,000	1,036,350	3,116,350
2030	2,155,000	961,888	3,116,888
2031	2,240,000	884,713	3,124,713
2032	2,325,000	804,738	3,129,738
2033	2,415,000	721,963	3,136,963
2034	2,505,000	636,300	3,141,300
2035	2,600,000	547,575	3,147,575
2036	2,700,000	455,613	3,155,613
2037	2,805,000	360,325	3,165,325
2038	2,910,000	261,713	3,171,713
2039	3,025,000	159,600	3,184,600
2040	3,140,000	53,813	3,193,813
	<u>\$ 45,000,000</u>	<u>\$ 18,421,550</u>	<u>\$ 63,421,550</u>

1 **NARRAGANSETT BAY COMMISSION**

2
3 **PRE-FILED DIRECT TESTIMONY**

4 **OF 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 so 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. No.
22

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

24 A. To provide the PUC with an update regarding the third and final phase of the Combined
25 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 third and final phase consists of
13 constructing two tunnels, the Main Spine tunnel (16,000 feet long) and the Pawtucket
14 tunnel (13,000 feet long), two tunnel pump stations, five CSO interceptors, one wetland
15 facility and 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 storm water 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;

- Updating of the water quality model incorporating the water quality improvements from Phase I and Phase II to assess pollutant loading and water quality; and,
- Completion of technology screening and control strategy assessment to develop four alternatives including:
 - Green Stormwater Infrastructure (GSI)
 - Sewer Separation
 - Tunnels
 - Interceptors
 - Regulator Modifications
 - Near Surface Storage Tanks,
 - Treatment (Screening and Disinfection) and Discharge
 - Wetland Treatment

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

- Alternative 1 – Baseline CDRA
- Alternative 2 – Modified Baseline with Phased Implementation
- Alternative 3 - Modified and Phased Baseline with Extended Schedule and Interim Water Quality Projects
- Alternative 4 – Bucklin Point Wastewater Treatment Facility Storage and Treatment

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

Ultimately, the Board selected Alternative 2 at the April 28, 2015 meeting as it met the 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 been increased from 9
8 years 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 revaluation 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

22 **Q. What Phase III costs does NBC plan to finance with the \$45 million loan from the RIIB?**

23 A. Based on current cash flows, NBC plans to expend \$37.8 million of the loan proceeds on
24 design of Phase III A and Phase III B.

25

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

27 A. Yes.

1 **NARRAGANSETT BAY COMMISSION**

2

3 **PRE-FILED DIRECT TESTIMONY**

4 **OF DAVID BOWEN, P.E.**

5

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

7 A. David Bowen. 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 Engineering Manager.

12

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

14 A. I have been employed in this position at the NBC since July 2018. Prior to my employment
15 with the NBC, I worked for Wright-Pierce as a Senior Project Manager/ Rhode Island and
16 Southeastern Massachusetts Wastewater Group Leader. I have over 30 years of
17 experience in the engineering consulting field, specifically in the water and wastewater
18 treatments sectors.

19

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

21 A. No.

22

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

24 A. To provide the PUC with an overview of planned capital improvements that are not
25 related to Phase III of the Combined Sewer Overflow (CSO) Abatement Program as part
26 of NBC's anticipated borrowing from the Rhode Island Infrastructure Bank (RIIB).

1 **Q. Would you please describe the capital projects, which are not related to the CSO**
2 **Program, that the NBC plans on funding with the proceeds of this the anticipated loan**
3 **from the Rhode Island Infrastructure Bank (RIIB) referenced in Mrs. Giebink's**
4 **testimony?**

5 A. Yes. The NBC's 2020 – 2024 Capital Improvement Program includes funding for the
6 Bucklin Point Wastewater Treatment Facility UV Disinfection Improvements, Providence
7 River Siphon, Moshassuck Valley Interceptor, Louisquisset Pike Interceptor
8 Improvements, as well as smaller miscellaneous projects.

9 Due to the cost prohibitive nature associated with the maintenance of our current UV
10 Disinfection equipment, NBC will be implementing a system replacement at the Bucklin
11 Point facility, which will allow NBC to take advantage of newer technologies that are more
12 cost effective. The Providence River Siphon and Moshassuck Valley Interceptor are
13 scheduled for repair and replacement in order to repair known deficiencies, and the
14 Louisquisset Pike Interceptor Improvements will involve the construction of a larger
15 diameter interceptor to accommodate additional flow from the northern section of the
16 Town of Lincoln.

17

18 **Q. What is the estimated cost for the projects referenced above?**

19 A. The Bucklin Point Wastewater Treatment Facility UV Disinfection Improvements,
20 Providence River Siphon, Moshassuck Valley Interceptor, and Louisquisset Pike
21 Interceptor Improvements have an estimated cost of approximately \$5.3 million, which
22 accounts for 12% of the anticipated loan. The remaining \$1.95 million, or 4%, is allocated
23 to smaller miscellaneous projects. As Mrs. Giebink indicated, a majority of the funds,
24 approximately 84%, is for the costs associated with Phase III A and Phase III B of the CSO
25 Abatement program.

26

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

28 A. Yes.

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 Sewr 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					