NEW JERSEY WATER SUPPLY AUTHORITY

HEARING OFFICER'S REPORT

Fiscal Year 2017 Amendments to the Schedule of Rates, Charges and Debt Service Assessments For the Sale of Water from the Raritan Basin System N.J.A.C. 7:11-2.1 et seq.

ADJUSTMENT OF GENERAL RATE SCHEDULE FOR OPERATIONS AND MAINTENANCE TO REFLECT CHANGE IN SALES BASE AND OPERATING EXPENSES FOR FISCAL YEAR 2017

ADJUSTMENT OF DEBT SERVICE ASSESSMENT TO REFLECT CHANGE IN SALES BASE COVERING DEBT SERVICE PAYMENTS DUE AND REQUIRED FOR FISCAL YEAR 2017

> ADJUSTMENT OF GENERAL RATE SCHEDULE FOR CAPITAL FUND COMPONENT FOR FISCAL YEAR 2017

ADJUSTMENT OF SOURCE WATER PROTECTION FUND COMPONENT FOR FISCAL YEAR 2017

Effective Date: July 1, 2016

Hearing Officer: Ellsworth Havens

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I. INTRODUCTION

The New Jersey Water Supply Authority (Authority) has proposed various amendments to its Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System for Fiscal Year (FY) 2017 in a memorandum dated April 25, 2016 (Final Proposal). For the reasons set forth herein, I recommend approval of staff's Proposal.

The Authority's Board authorized proceeding with this rate setting process at its December 7, 2015 meeting through formal resolution. (Exhibit A)

As a component of the Authority's formal rate adjustment procedure, the Authority is required to provide official notice and an explanation outlining the need for the Proposal to all contractual water customers, the Secretary of State, the Division of the Ratepayer Advocate, the Board of Public Utilities and other interested parties at least six (6) months prior to the proposed effective date (N.J.A.C. 7:11-2.12(a)(1)). Staff's December 2015 proposal (included in Exhibit B) was available for review on the Authority's Web site commencing on December 23, 2015.

Official Notice of the Proposal was made through advertisement in the Star Ledger, the Times (Trenton) and the Hunterdon County Democrat. A certification of publication is set forth in Exhibit C.

Notice of the Proposal also appeared in the January 4, 2016 edition of the New Jersey Register. (Exhibit D)

A mailing to the contractual water customers, the Secretary of State, the Division of the Ratepayer Advocate, the Board of Public Utilities and interested parties was made on December 21, 2015 and included an invitation to a pre-public hearing meeting, pursuant to N.J.A.C. 7:11-2.13(a)4, that was conducted by the Director of Finance and Administration on January 8, 2016. No members of the public were in attendance. Minutes of the prepublic hearing meeting are set forth in Exhibit E.

A public hearing was conducted on February 5, 2016 at 10:00 a.m. in the Authority's Conference Room, 1851 Highway 31 in Clinton Township, Hunterdon County, New Jersey. Mr. Frank Falco of Middlesex Water Company, and also representing East Brunswick Township, was in attendance. No members of the public testified. A stenographic record of the proceedings was made and is attached in Exhibit F. One item of correspondence was received during the rate process and prior to the close of the Public Comment Period. This item is attached in Exhibit G. A response was not required.

The final Staff Memorandum to me was dated April 25, 2016 and is set forth in Exhibit H.

A draft resolution approving the Proposal is set forth in Exhibit I for the Authority's consideration at its June 6, 2016 meeting.

A draft resolution for the approval of the FY2017 Budget by the Authority's Board is set forth in Exhibit J.

II. DISCUSSION

A. Staff Proposal

Staff proposes various adjustments to the N.J.A.C. 7:11-2.1 et seq. (the Rules), which are generally discussed herein and more particularly set forth in the attachments hereto.

The General Rate Schedule for O&M was last adjusted effective July 1, 2015 to fund the Authority's operating expenses of the Raritan Basin System (System) for FY2016. The FY2016 Operations and Maintenance (O&M) sales base was 182.339 million gallons per day (mgd). The Authority's O&M sales base was proposed to remain at 182.339mgd in the December 2015 Basis and Background document. Since the December 2015 Basis and Background document there is no change in the sales base. The O&M Component was proposed to remain at \$171.00/mg for FY2017 in the December 2015 Basis and Background document. Staff recommends no change from the original proposal for a final FY2017 O&M component of \$171.00/mg.

The NJEIFP Debt Service Assessment is used to repay loans issued to the Authority for the Delaware and Raritan Canal Capital Program, specifically, a dredging program. The Authority anticipates the FY2017 sales base for the Debt Service Assessment to remain at 182.339mgd, which is no change from the recommendation included in the December 2015 Basis and Background document. In the December 2015 Basis and Background document, staff proposed \$25.00/mg for FY2017, no change from FY2016, and recommends no change in the proposal for a final FY2017 NJEIFP Debt Service Assessment of \$25.00/mg.

The Authority's Capital Fund Rate Component is used to fund the Authority's Capital Improvement Program in lieu of incurring long-term debt. In the December 2015 Basis and Background document, staff proposed \$33.00/mg for FY2017, no change from FY2016 and recommends no change in the proposal for a final FY2017 Capital Fund Component Assessment of \$33.00/mg.

The Source Water Protection Fund Component was established to fund planning initiatives and acquisitions of properties deemed critical to water quality and quantity in the Raritan Basin System. Since 2003, the Authority has purchased with its project partners, over 4,100 acres of land. The Authority has issued \$17,861,205 in bonds and loans to the Trust and the State for land acquisition. Two additional parcels were acquired with cash from available Source Water Protection Fund balances for \$509,615. In the December 2015 Basis and Background document, staff proposed \$24.00/mg for FY2017, no change from FY2016, and recommends no change in the proposal for a final FY2017 Source Water Protection Fund Component of \$24.00/mg.

In FY2017, the Source Water Protection Fund component of the rate is anticipated to generate \$1,597,000. Of that amount, approximately \$1,300,000 is earmarked by the Authority's Board for costs associated with the land program (debt service, soft costs and administrative) and approximately \$300,000 is earmarked for watershed protection projects. In FY2017 the annual amount of debt service on acquired land is projected to be approximately \$1,100,000. In FY2017, recurring revenue will support the entirety of debt service. Any future land acquisition will need to be evaluated in the context of a long term plan and the balance of rate needs for other projects.

The cumulative effect of staff's recommended base rate component changes result in maintaining the total rate in FY2017 of \$253.00/mg. This reflects no change from staff's December 2015 proposal.

The Authority is proposing no other rule amendments.

B. Comment by Interested Parties / Members of the Public

No members of the public attended the pre-public hearing meeting on January 8, 2016.

At the Public Hearing on February 5, 2016, a representative of Middlesex Water was present but did not submit written testimony or present oral testimony into the record.

One item of correspondence was received and is summarized as follows:

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January 6, 2016 e-mail from Jean Public of Flemington, New Jersey - Jean Public submitted an e-mail indicating opposition to any increase in rates for water from the Raritan Basin System, and that governing agencies should be decreasing costs and cutting travel budgets. Jean Public asked for a response indicating receipt of her email and that it would be entered into the public record. This e-mail and the acknowledgement of receipt is contained in the FY2017 Hearing Officer's Report in Exhibit G.

I address these comments below.

III. FINDINGS AND CONCLUSIONS

- 1. The public record does not contain any adverse comments concerning staff's justification for the sales base and proposed Operations and Maintenance Expense Component of the Rate. The Raritan Basin System rate was last increased on July 1, 2015 and no increase is recommended for FY2017. The rate had been flat for 6 years through FY2014. Each year, as a requirement of Executive Order 37 (2006) and as a matter of sound business practice, the Authority performs an analysis of the budget to identify and implement cost savings measures. The Authority continues to phase in pension and health benefit cost sharing. Managers have not received a cost-of-living increment since July of 2008 and union employees have not received a cost-of-living adjustment since July of 2014. The Authority continues to use one-time revenue to support the operating budget in order to keep the Operations and Maintenance Expense Component of the rate as stable as possible. The Authority has provided its water customers and interested parties with documentation that describes the actions taken by the Authority to keep the rate stable from FY2009 through FY2014 including deferring capital equipment purchases, reducing contributions to reserves, reducing filled positions by eight and eliminating funding from another twelve vacancies. Costs continue to rise, more specifically pension and health benefit expenses, and there are fewer mechanisms available to the Authority to control those costs. I find the sales base and Operations and Expense Component of the Rate to be appropriate.¹
- 2. The public record does not contain any adverse comments concerning staff's justification for the adjustments to sales

¹ In recent years, the actual O&M Component adjustments have been minimized due to credits for receipts of unanticipated revenues from the sale of water in excess of contractual supplies during the previous fiscal years and other sources. It is anticipated that approximately \$1,929,360 will be available from the Rate Stabilization Fund to help offset the projected FY2017 O&M expenses. These credits obscure the full O&M Component adjustment needed and an increase in the O&M Component will be necessary in the future.

base and proposed NJEIFP Debt Service Assessment. Moreover, the Authority is required by its Bond Resolutions to adopt rates that fully cover its Debt Service payments. I find the FY2017 NJEIFP Debt Service Assessment and associated sales base to be appropriate.

- 3. The public record does not contain any adverse comments concerning staff's justification for the Capital Fund Component of the Rate. I find the proposed FY2017 Capital Fund Component to be appropriate.
- 4. The public record does not contain any adverse comments concerning staff's justification for the Source Water Protection Fund Component of the Rate. I find the proposed FY2017 Source Water Protection Fund Component to be appropriate.
- 5. The Authority's proposed rate adjustments are affirmed in Section IV below, reflecting the assessment of reasonable total rates for the preservation of the reliability of this vital supply of water for a large portion of the State's population and enhancing the Authority's fiscal position for the future issuance, when needed, of long-term debt.

IV. RECOMMENDATIONS

- 1. Resolution No. 2211 dated 12/7/15 authorized \$2,124,150 in unanticipated revenues for Fiscal Years ending June 30, 2015 and June 30, 2016 to be appropriated into the Rate Stabilization Fund, all of which would be used in the FY2017 budget, and authorized the publication of the proposed FY2017 rates in the New Jersey Register. The resolution adopting the final rates will authorize \$1,929,360 in unanticipated revenues to be appropriated into the Rate Stabilization Fund for use in FY2017. A reduction in insurance expense of \$194,790 justifies a decrease in use of one-time revenue.
- 2. The Authority must adopt rates that fully cover its annual Operations and Maintenance expenses and Debt Service payments as required by the Bond Resolution.
- 3. The proposed FY2017 Operations and Maintenance Expense Component of \$171.00 per million gallons as recommended in the December 7, 2015 proposal should not be adjusted and as such no further Rule change is necessary.
- 4. The proposed FY2017 Debt Service Assessment for the NJEIFP of \$25.00 per million gallons as recommended in the December 7,

2015 proposal should not be adjusted and as such no further Rule change is necessary.

- 5. The FY2017 sales bases for the O&M Component and Debt Service Assessment of 182.339/mgd should not be adjusted relative to the original FY2017 proposal.
- 6. The proposed FY2017 Capital Fund Component of \$33.00 per million gallons as recommended in the December 7, 2015 proposal should not be adjusted and as such no further Rule change is necessary.
- 7. The FY2017 Source Water Protection Fund Component of \$24.00 per million gallons as recommended in the December 7, 2015 proposal should not be adjusted and as such no further Rule change is necessary.
- 8. The total recommended rate effective July 1, 2016 should remain the same relative to the original December 7, 2015 proposal of \$253.00 per million gallons and as such no further Rule change is necessary.

Component	Current Rates Per MG 7/1/15 - 6/30/16	Originally Proposed Rates Per MG 7/1/16 - 6/30/17	Recommended Rates per MG 7/1/16 - 6/30/17
Operations &			
Maintenance			
Assessment	\$171.00	\$171.00	\$171.00
NJEIFP Debt Service			
Assessment	\$ 25.00	\$ 25.00	\$ 25.00
Capital Fund			
Component	\$ 33.00	\$ 33.00	\$ 33.00
Source Water			
Protection Fund			
Component	\$ 24.00	\$ 24.00	\$ 24.00
Total Rate Per MG	\$253.00	\$253.00	\$253.00

SUMMARY OF RECOMMENDED RATE ADJUSTMENTS

The proposed Fiscal Year 2017 Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System, as discussed above, are hereby recommended for adoption by the Authority.

Respectfully submitted,

Ellen Haven

Ellsworth Havens Hearing Officer April 26, 2016

Resolution Proposing Rate Adjustments

Exhibit A

RESOLUTION OF THE NEW JERSEY WATER SUPPLY AUTHORITY

NO.: <u>2211</u> DATE OF ADOPTION: <u>12/07/15</u>

TITLE: Resolution Authorizing Publication of Proposed Change in the Authority's Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System

WHEREAS, N.J.S.A. 58:1B-7g and 58:1B-19 provide for the New Jersey Water Supply Authority (Authority) to fix and revise from time to time its rates, fees and charges; and

WHEREAS, the Authority has estimated its revenue requirements for the 2017 State fiscal year beginning on July 1, 2016; and

WHEREAS, the sales base for the Operations and Maintenance, Debt Service Assessment, Capital Fund Component and Source Water Protection Component has not changed since these components were last determined; and

WHEREAS, the Authority must provide for sufficient revenue and a rate structure to cover its costs.

NOW THEREFORE, be it resolved that the Authority proposes to amend its Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System in the existing regulations found at N.J.A.C. 7:11-2.1 et seq. dealing with primarily the following proposed changes:

1. Amend N.J.A.C. 7:11-2.3 of the Schedule of Rates,

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Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System to reflect no change in the sales base of 182.339 million gallons per day and no increase in the Operations and Maintenance Component of the rate from of \$171.00 per million gallons for FY2017, consistent with the Initial Proposal, for the period of July 1, 2016 through June 30, 2017; and

2. Amend N.J.A.C. 7:11-2.4(a), (b) and(c) of the Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System to reflect no change in the Sales Base for the Debt Service Assessment rate of 182.339 million gallons per day and maintain the Debt Service Assessment Component of the rate at \$25.00 per million gallons consistent with the Initial Proposal for the period of July 1, 2016 through June 30, 2017; and

3. Amend N.J.A.C. 7:11-2.5 of the Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System to maintain the Capital Fund Component of \$33.00 per million gallons for the period of July 1, 2016 through June 30, 2017, consistent with the Initial Proposal; and

4. Amend N.J.A.C. 7:11-2.6 of the Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System to maintain the Source Water Protection Fund Component of \$24.00 per million gallons consistent with the Initial Proposal for the period July 1, 2016 to June 30, 2017; and

BE IT FURTHER RESOLVED, that the following actions are

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authorized:

 Appropriate \$554,150 in unanticipated revenue derived from overdraft sales and other operating surplus from the Operating Fund for Fiscal Years ending June 30, 2014 and June 30, 2015 into the Rate Stabilization Fund.

 Appropriate \$1,570,000 in surplus funds from the D&R Canal Dredging Fund for the Fiscal Year ending June 30, 2016 into the Rate Stabilization Fund.

3. Apply \$2,124,150 appropriated into the Rate Stabilization Fund to the Operating Fund for Fiscal Year 2017.

<u>Basis and Background Document in</u> <u>Support of Rate Adjustment Proposal</u>

Exhibit B

NEW JERSEY WATER SUPPLY AUTHORITY

BASIS AND BACKGROUND STATEMENT

PROPOSED AMENDMENTS TO N.J.A.C. 7:11-2.1 et seq. IN THE SCHEDULE OF RATES, CHARGES AND DEBT SERVICE ASSESSMENTS FOR THE SALE OF WATER FROM THE RARITAN BASIN SYSTEM

ADJUSTMENT OF GENERAL RATE SCHEDULE FOR OPERATIONS AND MAINTENANCE FOR SALES BASE AND OPERATING EXPENSES FOR FISCAL YEAR 2017

ADJUSTMENT OF DEBT SERVICE ASSESSMENT TO FOR DEBT SERVICE PAYMENTS DUE AND REQUIRED FOR FISCAL YEAR 2017

ADJUSTMENT OF GENERAL RATE SCHEDULE FOR CAPITAL FUND COMPONENT FOR FISCAL YEAR 2017

ADJUSTMENT OF SOURCE WATER PROTECTION FUND COMPONENT FOR FISCAL YEAR 2017.

Proposed Effective Date: July 1, 2016

Approved by the Board: 12/7/2015

NEW JERSEY WATER SUPPLY AUTHORITY PROPOSED RATE ADJUSTMENTS FOR FISCAL YEAR 2017 RARITAN BASIN SYSTEM

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PART I - EXPLANATION OF PROPOSED REVISED RATE STRUCTURE

Overview of Rate Proposal for Fiscal Year 2017 (July 1, 2016 - June 30, 2017)

The New Jersey Water Supply Authority (Authority) is proposing to adjust its Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System, to cover expenses for the Fiscal Year (FY) starting on July 1, 2016.

Component	Current (FY2016) Rates Per MG 7/1/2015 - 6/30/2016	Proposed (FY2017) Rates Per MG 7/1/2016 - 6/30/2017
Operations & Maintenance		
Assessment	\$171.00	\$171.00
NJEIFP Debt Service Assessment	\$25.00	\$25.00
Capital Fund Component	\$33.00	\$33.00
Source Water Protection Fund		
Component	\$24.00	\$24.00
Total Rate	\$253.00 /mg	\$253.00 /mg

Summary of Proposed Adjustments

The General Rate Schedule for Operations and Maintenance (O&M) was last adjusted effective July 1, 2015 to cover the operating expenses of the System for FY2016. The FY2016 O&M sales base was 182.339 million gallons per day (mgd). The Authority anticipates the FY2017 O&M sales base to remain the same at 182.339 mgd. The O&M Component is projected to remain the same for FY2017 at \$171.00 per million gallons.

With the allocation of appropriate Headquarters expenses and insurance costs to the Manasquan Reservoir Water Supply System, the projected operating costs for FY2017 require that an O&M Component of \$171.00 per million gallons be charged starting on July 1, 2016.

In recent fiscal years, the actual O&M Component adjustments have been minimized because of credits for receipts of unanticipated revenues from the sale of water in excess of contractual amounts, positive budget variances during the preceding fiscal years or from uses of other one-time sources of revenue. These credits continue to have the effect of obscuring the full O&M Component adjustment needed and as a result Raritan Basin System rates do not represent full cost pricing. The rate has been subsidized by an average of \$1.9 million in non-recurring (overdraft sales and depletion of reserves) revenue over the past five years. The amount available for the Rate Stabilization Fund was \$1,571,150 in FY2016 and will be \$2,124,150 in FY2017. This increase in revenue causes a \$9.98 per million gallon decrease in the O&M component of the rate even before expense increases are considered. Overdraft sales rose from \$1,157 in FY2016 to \$213,151 in 2017. The balance of the rate stabilization funds used in FY2017 is

derived from \$1.57 million in dredging bond debt service to be raised in FY2016 but not needed currently because the project is postponed another year. Without the use of any rate stabilization funds in FY2017, the required O&M Component of the rate would be \$181 per million gallons.

The Authority established the Source Water Protection Fund Component in FY2003 to protect the quality and quantity of waters in the Raritan Basin System. The Authority is proposing no increase in this component of the Rate of \$24.00 per million gallons in FY2017. The rate component supports debt service on acquired critical watershed parcels and matching dollars for watershed protection projects.

The Authority has submitted an application to the New Jersey Environmental Infrastructure Financing Program (NJEIFP) to finance the dredging of a 10.5 mile segment of the Delaware and Raritan Canal (D&R Canal) between Kingston at Lincoln Highway to Amwell Road in Franklin Township, Somerset County, New Jersey. The Authority proposes continuing the rate component of \$25.00 per million gallons to fund the debt service in FY2017, despite that the project is being postponed one additional year. This rate component is temporarily subsidizing the Operations and Maintenance component of the rate.

Finally, the Authority established a "Capital Fund Component" of the rate commencing July 1, 1994. This Component is used to fund the Authority's current Capital Improvement Program without incurring long-term debt. The Capital Fund Component was increased in FY2008 from \$21.00 to \$33.00 per million gallons, funded from the 1981 Bond Act debt service savings. The rate component was reduced to \$30.00 per million gallons in FY2012 to accommodate pressure on the O&M Component in order to keep the overall rate at \$231.00 per million gallons. The Authority increased this component of the rate from \$30.00 to \$33.00 per million gallons in FY2017.

Table 1 on page 12 shows the maintenance of a stable rate for each rate component and reflects a total rate of \$253.00 per million gallons for FY2017.

The balance of this document contains a further discussion of the individual rate components, a Schedule of Events and Detailed Supporting Information for the proposed rate adjustments.

A pre-public hearing on the proposed rate adjustments is scheduled at 10:00 a.m. on Friday, January 8, 2016, at the Authority's Administration Building, 1851 Highway 31, Clinton, New Jersey.

A public hearing on the proposed rate adjustments is scheduled at 10:00 a.m. on Friday, February 5, 2016 at the Authority's Administration Building, 1851 Highway 31, Clinton, New Jersey.

The New Jersey Register Comment Period is scheduled to close on March 4, 2016 and the public hearing record on the proposed rate adjustments is scheduled to close on March 14, 2016.

Final action on the rate adjustment is scheduled for the Authority's June 6, 2016 meeting. The FY2017 rate will take effect on July 1, 2016.

Distribution of Headquarters General and Administrative Costs and Insurance Costs to all Operating Systems

On July 1, 1990 the Authority placed the Manasquan Reservoir Water Supply System in operation to provide an untreated water supply for use throughout Monmouth County. In addition to this major System, the Authority also began operation of the Water Treatment Plant and Transmission System for the Monmouth County Improvement Authority (MCIA) on July 1, 1990. The Boroughs of Brielle, Spring Lake, Spring Lake Heights, Sea Girt and Wall Township entered into agreements with the MCIA for this treatment/transmission system. In December 2008, the five member communities created the Southeast Monmouth Municipal Utilities Authority and in September 2009 purchased the Water Treatment Plant from the MCIA and the Authority continues to operate the Water Treatment Plant. The Authority is operating, maintaining and managing three distinct Systems each with its own budget, cost accountability and revenue stream.

The Authority's Headquarters' staff located in Clinton provides general and administrative support services for all three Systems. These services include, but are not limited to, Financial Management, Payroll, Human Resources, Purchasing, Contract Administration, Risk Management and overall management. In order to equitably assess each of the three Systems, the Authority previously retained the services of an auditing firm to develop a methodology for the allocation of the Headquarters General and Administrative costs to all three operating Systems. After the close of each fiscal year, the Authority's auditors provide the Authority with their findings as to the adjustment, if any, to the allocation factors and the actual audited expenditures for the fiscal year.

The audit report for the immediately preceding fiscal year ending June 30 is available during November. Each September the Authority formulates the proposed budgets for the upcoming fiscal year starting on the following July 1. The adjusted allocation factors, if any and the audited expenditures for the previous fiscal year are used to establish a debit or credit for each of the three operating Systems. This debit or credit is applied to the budgets being prepared each September for the upcoming fiscal year starting on July 1.

An independent accounting firm performed the Authority's FY2015 audit. The audit included a review of the allocation factors as well as the actual audited expenditures. The appropriate adjustments have been made to the FY2017 budget based on the FY2015 audit. A copy of the Auditor's report on the allocation of the Headquarters General and Administrative costs is included in the Appendices to the rate proposal package for each System.

Insurance costs are also allocated to each System based upon the recommendations of the Authority's Risk Management Consultant. See the rate proposal package for more information on insurance charges.

Analysis of Significant Changes in Operations and Maintenance Expenses Raritan Basin System

Overview of Projected Operational Expenses

The Authority's proposed FY2017 Raritan Basin System Total Budget requirement, which is net of the allocation of appropriate Headquarters General and Administrative expenses to the Manasquan Water Supply System, and includes capital equipment and contribution to reserves is \$13,616,024. This is \$587,124 more than the FY2016 budget of \$13,028,900. The Capital Equipment budget of \$182,900 is \$116,000 less than the FY2016 budget of \$298,900. The proposed contributions to the Reserve for Formal Dam Inspections (\$10,000), Capital Equipment Reserve (\$150,000) and the Pumping Reserve (\$150,000) remain at FY2016 levels. There are no contributions scheduled for the Depreciation Reserve and the Self-Insurance Reserve in FY2017. These Reserves last received a \$100,000 and \$150,000 contribution in FY2011 respectively but are sufficiently funded at the present time. There are no proposed contributions to the Operations and Maintenance Reserve, Major Rehabilitation Reserve or the Pension Reserve. The reserve for capital equipment purchases established in FY2015 requires an additional year of funding with a simultaneous direct expenditure for capital equipment because six years of stable rates from FY2009 through FY2013 caused deferral of equipment purchases which are no longer prudent. It is still the Authority's intention to fund the reserve at an annual level of \$150,000 to eliminate rate fluctuations associated with the annual change in level of capital equipment purchases once the reserve is adequately funded. In FY2017 for the first time, the Authority is funding a reserve for other post-employment benefits (accumulated sick leave payout for retirees) of \$181,000. This is in lieu of creating a liability on the Authority's balance sheet. This represents the maximum statutory benefit for all employees eligible to retire as of June 30, 2015. All of these modifications result in a total FY2017 budget requirement of \$13,616,024 which is an increase of 4.51 percent relative to FY2016. (Page 15)

Fifteen of the thirty-one FY2017 direct operating expense accounts are projected to increase, but only five accounts by \$5,000 or more relative to FY2016. Ten of the operating expense accounts are projected to decrease relative to FY2016. The most significant projected increases in the budget occur in service and maintenance contracts, and special and professional services. In Salary and Fringe, regular salary is increasing by \$187,950; pension expense is increasing by \$28,500. Retiree health benefits are increasing by \$237,200 and assume 7 additional retirees between FY2016 and FY2017. Salaries and benefits constitute approximately 75 percent of the FY2017 operating budget, and are increasing approximately 5.2 percent relative to FY2016.

Salaries and Benefits

Authority employees are operating currently without a contract. The previous contract expired June 30, 2015. The FY2017 budget assumes a 1.75% cost of living adjustment payable July 1, 2016. The International Federation of Professional and Technical Engineers (IFPTE), AFL-CIO, represents the Authority's Maintenance, Craft and Security Units and the Communications Workers of America (CWA) represents the Authority's Administrative and Clerical, Primary Level and Higher Level Supervisors Units.

Due to a law change requiring certain managers to be unionized, two managers from the Raritan system and one from the Manasquan system joined the International Brotherhood of Electrical Workers (IBEW) as of March 21, 2015.

The Authority did not include any cost of living adjustments in the FY2017 budget for management. The Authority is budgeting 54 percent of the Salary budget for fringe benefits in FY2017, exclusive of retiree medical.

The initial estimate from the State of New Jersey for pension expense payable on April 1, 2016 is not yet available. The Authority has built in 20 percent per year growth in that expense item over actual FY2015. Although increases have stabilized in the last three years, there is still a level of uncertainty in this expense item because the pension system remains significantly underfunded.

Overtime Salaries and Wages

The Authority's overtime expenses are projected to decrease nominally by \$600 from \$190,600 to \$190,000 in FY2017. Overtime expenses are incurred within Security and O&M Facilities and Canal Operations principally (those areas operating within a crew or shift structure).

Retiree Health Benefits

Employees who retired with a minimum of 25 years of service prior to July 1, 1997 are entitled to paid health benefits. For those who retire after July 1, 1997, co-pay is required. The Authority is increasing the retiree health benefits expense item in FY2017 by \$237,200. The Authority is budgeting seven additional retirees in FY2017 and one of those individuals will actually retire in the current fiscal year. The Authority's estimate is based on CY2016 health benefit rates increased by 20 percent for CY2017 and blended to derive a FY2017 rate. The budget contains sufficient funds for 57 retired employees.

Other Expense

<u>Electrical Service</u> - The Authority's Hamden Pumping Station is utilized to pump water to the Round Valley Reservoir. The proposed budget includes a slight increase in electricity costs for the normal operation of the pumping station from \$90,000 to \$92,000 in FY2017. The Authority entered into a three-year contract for power effective June 21, 2010. The State extended the

contract with the vendor two and a half more years to December 31, 2015. The Authority has agreed to participate in a re-procured, three-year State contract effective January 1, 2016 and is expecting only slight rate reductions. The State of New Jersey prefers budget certainty and opts for longer term contracts over lower rates. The pumps are in a scheduled rehabilitation cycle and will be exercised as rehabilitated pumps are put back on line (current expectation for the first two pumps is Spring 2016). Pumping is funded from the Pumping Reserve (\$150,000 annual deposit).

Special and Professional Services

The Authority is proposing to increase this line item from \$477,600 in FY2016 to \$498,140 in FY2017 representing a realignment of United States Geological Survey gaging station costs. In other areas, pricing is stable. The line item also includes payments to the Governor's Authorities Unit, costs charged to the Authority by the Attorney General's Office for legal services provided, and the cost of the Authority's independent auditor.

Heating Fuel and Vehicular Fuel

The cost of heating fuel is expected to increase from \$106,400 to \$107,100 and vehicular fuel is projected to increase by \$1,200 from \$157,800 in FY2016 to \$159,000 in FY2017. The prices of fuel in FY2017 are budgeted at \$2.45 per gallon for unleaded and \$2.65 per gallon for diesel.

Insurance Program

The Authority is recommending a decrease in insurance expense for FY2017 reflecting general market conditions based on the advice of the Authority's insurance broker and consultant. The Authority will pursue a formal re-marketing in January 2016, effective for the March 1st renewal period. The Authority has included a \$7,800 decrease in the insurance line item for FY2017 which is a .6 percent decrease over budgeted FY2016.

Allocation of the Primary, Umbrella and Public Officials Liability insurance costs between the three Systems is based upon proportionate water sales. The Automobile Liability cost is allocated based upon the assignment of vehicular equipment to each System. The cost of the Business Property coverage is allocated on the basis of insured values for each System and the Workers Compensation premiums are allocated on the basis of salaries for each System.

Interest Income

The projected interest earnings for FY2017 are \$35,400 based upon current rates of .25 percent for Short-term investments and 1.30 percent on the Authority's long-term investments. This represents no change relative to FY2016. (Schedule 7, page 25) At the urging of the contractual water customers, the Authority executed sweep contracts for its non-interest bearing accounts. After analysis, the Authority reversed the contracts because of increased costs

assessed against the accounts. Due to the naturally low balances in these accounts and the large number of transactions, the transaction costs outstripped the sweep interest earnings. Most of the Authority's short and long-term investments are either direct Treasury note investments or pegged to the Treasury bill.

Reserve Contributions

During FY2017 the Authority will make no contribution to the Depreciation Reserve. The Depreciation Reserve is fully funded in FY2017 (Page 15).

The Authority will contribute \$150,000 to the pumping reserve, and will do so every year, as this will be the primary funding mechanism for pump exercises and reservoir refilling requirements. The Self Insurance Reserve fund will receive no funding in FY2017. The Authority will continue funding for the Reserve for Formal Dam Inspections at \$10,000 in order to avoid future swings in the professional services accounts for expenses associated with this three-year cycle. The Authority will contribute \$150,000 to the Capital Equipment Reserve, and will do so every year, as this will be the primary funding mechanism for capital equipment purchases. When the reserve reaches the appropriate level, while equipment purchases will continue to be identified in the Basis and Background Document and approved by the Board, the direct line item will be removed from the rate and replaced by the annual appropriation. In FY2017 for the first time, the Authority is funding a reserve for other post-employment benefits (accumulated sick leave payout for retirees) of \$181,000. This is in lieu of creating a liability on the Authority's balance sheet. This represents the maximum statutory benefit for all employees eligible to retire as of June 30, 2015.

Debt Service Assessments

<u>New Jersey Environmental Infrastructure Financing Program Debt Service Assessment – D&R</u> Canal Dredging

The Authority has submitted an application to the New Jersey Environmental Infrastructure Financing Program (NJEIFP) to finance the dredging of 300,000 cubic yards from a 10.5 mile segment of the Delaware and Raritan Canal (D&R Canal) between Kingston at Lincoln Highway to Amwell Road in Franklin Township, Somerset County, New Jersey. This project is expected to cost approximately \$35,000,000 and last in duration up to three years. Funding through the NJEIFP would allow a portion of the loan to be at zero interest and a portion of the loan to be at market rate with the blended rate at favorable terms. The expected closing on the bonds will be May of 2017 with the first debt service payment in August 2017. The Authority proposes to continue the rate component of \$25.00 per million gallons in FY2017 to assure that sufficient funds are available to make debt service payments as they come due in August 2016 and every six months thereafter.

The project was originally scheduled to close in May of 2014 but was deferred three years. The sum of approximately \$1.5 million that will be collected during FY2016 will be

deposited into the Rate Stabilization Fund to offset the rate requirement in FY2017.

<u>Capital Fund Component For</u> <u>Current Financing of Capital Improvement Program</u>

During the period from 1982-1993 the Authority had invested \$62,000,000 in the Capital Improvement Program for the Raritan Basin System. Much of this effort was the direct result of inadequate investments in the facilities during the years preceding the creation of the Authority. These Capital Improvement Programs were financed through the issuance of two long-term debt obligations, the 1981 Water Supply Bond Funds and 1988 Water System Revenue Bonds.

In 1995, the Authority began preparing a rolling five-year Capital Improvement Program, which required the investment of approximately \$1,500,000 per year. Current estimates place the annual necessary investment between \$2,500,000 and \$5,500,000. In evaluating options for financing this program (and subsequent five year CIP's) the Authority looked at (1) the continuation of the practice of incurring long-term debt through the issuance of Revenue Bonds and (2) the possibility of current financing through the assessment of annual charges as part of our rate structures. The Authority concluded at the time that financing of such a small annual Capital Improvement Program based upon the issuance of long-term debt was fiscally imprudent. The Authority reevaluates this financing methodology on an annual basis.

The Authority's financial plan was predicated upon the establishment of a Capital Fund Component of \$10 per mg starting on July 1, 1994 with subsequent increases in this component of the total rate structure to \$15 per mg effective July 1, 1995 and to \$20 per mg effective July 1, 1996 and to \$25 per mg effective on July 1, 1998. Since then, the annual rate component has fluctuated between \$20 and \$35.

This level of current financing for reinvestments in plant and equipment somewhat exceeds the booked depreciation of the plant and equipment for the Raritan Basin System facilities (without the depreciation of the dams), which amounts to about \$1,900,000 per year. Any future unplanned or unanticipated major capital investment may, however, require the issuance of long-term debt. Any future planned activity that increases the System capacity will be financed using long-term debt.

For FY2017, the Authority continues to believe the use of internally generated funds for such capital improvements is the least cost method of financing.

The Authority has determined that a Capital Fund Component of \$33.00 per million gallons, level funding over FY2016, should be assessed for FY2017 to generate approximately \$2,196,273. The Authority deems these revenues sufficient to meet its capital needs for FY2017 in light of existing capital reserves and excellent contract pricing, and to ensure that sufficient funds are committed to the continuing rehabilitation of Authority assets. The Authority is expecting to raise the Capital Fund Component of the Rate to \$38.00 per million gallons in FY2018 to assure that the projected capital needs, especially for repairs to the D&R Canal, are met within the five year program.

Source Water Protection Fund Component for the Protection of Water Quality

The Authority established its Watershed Protection Unit in 1999 to implement a watershed management program for the Raritan River Basin pursuant to a Memorandum of Agreement with the New Jersey Department of Environmental Protection. Primary functions of the Unit are planning for watershed protection, development and implementation of projects that improve protection of water supply.

As a component of the Authority's watershed protection initiative, the Authority established the Source Water Protection Fund in August of 2001 for the purpose of protecting the quality and quantity of waters in the Raritan Basin System. The first \$5.00 per million gallons of the component is used for three purposes in cooperation with federal, State, local and nonprofit partners: (1) administrative actions associated with the acquisition of critical watershed parcels in the Raritan Highlands; (2) planning assistance to improve management of land development by municipal, county and State government to protect both water quality and flows to and within Authority facilities; and (3) water quality characterization and associated remedial projects to preserve and enhance water quality.

In light of the rapid decline in available watershed parcels, and the critical value of these parcels to the sustained supply of water in the Raritan Basin System, the Authority increased the Source Water Protection Fund by \$5.00 per million gallons in FY2004 and again by \$3.00 per million gallons in FY2006, to acquire fee and other interests in critical watershed parcels in the System and rehabilitate properties to maximize benefit to water quality and quantity. To date, more than 3,954 acres of property have been preserved by the Authority and its partners. Some of the watershed and water quality projects include a tributary and storm water assessment of the D&R Canal to determine sediment loading, followed by an implementation project, the development of storm water management plans for a variety of tributaries in the Basin, a stream restoration project of a reach of the Mulhockaway which feeds into Spruce Run. The Authority increased the Source Water Protection Rate from \$13.00 per million gallons to \$15.00 per million gallons in FY2008 to further support direct watershed protection and restoration projects. The Authority increased the Source Water Protection Rate from \$15.00 per million gallons to \$24.00 per million gallons in FY2014 to support debt service on previously acquired critical watershed parcels. The Authority is proposing no change to this component of the Rate in FY2017.

Other Rule Amendments

There are no other rule amendments. The language supporting the overall proposal is contained beginning on page 55 of this document.

PART II – DETAILED SUPPORTING INFORMATION

NEW JERSEY WATER SUPPLY AUTHORITY RARITAN BASIN SYSTEM

Table 1 - Summary Of Proposed Fiscal Year 2017 AdjustmentsBased On Present Usage

The rates, charges and debt service assessments listed below shall be paid for raw water diverted, withdrawn or allocated from the Raritan Basin System:

		ORIGINAL		PERCENTAGE
		PROPOSAL		INCREASE
RATE COMPONENT	CURRENT	12/07/15	DIFFERENCE	(DECREASE)
O & M Assessment	\$171.00	\$171.00	➡ 0.00	0.00%
NJEIFP Debt Service				
Assessment	25.00	25.00	➡ 0.00	0.00%
Capital Fund Component	33.00	33.00	➡ 0.00	0.00%
Source Water Protection				
Component	24.00	24.00	➡ 0.00	0.00%
Total Rate	\$253.00/mg	\$253.00/mg	➡ 0.00	0.00%

Table 2 - Rate History of Water Charges per Million Gallons of Raw Water Daily

Fiscal Year 2003 – Fiscal Year 2017

Effective Date	O&M <u>Charge</u>	1981 Bond Charge 7/1/86-10/30/06	1998 Bond Charge <u>8/1/98-11/1/13</u>	NJEIFP Component <u>8/1/13-8/1/23</u>	Capital Fund <u>Component</u>			Percent Increase -Decrease	
July 1, 2002	105.46	31.73	49.28		13.53	5.00	\$205.00	0.00%	
July 1, 2003	111.68	31.62	49.15		7.55	10.00	\$210.00	2.44%	
July 1, 2004	122.75	28.31	41.71		12.23	10.00	\$215.00	2.38%	
July 1, 2005	111.80	28.24	41.51		20.45	13.00	\$215.00	0.00%	
July 1, 2006	133.13	19.55	41.32		21.00	13.00	\$228.00	6.05%	
July 1, 2007	138.71		41.29		33.00	15.00	\$228.00	0.00%	
July 1, 2008	142.34		40.66		33.00	15.00	\$231.00	1.32%	
July 1, 2009	142.39		40.61		33.00	15.00	\$231.00	0.00%	
July 1, 2010	142.55		40.45		33.00	15.00	\$231.00	0.00%	
July 1, 2011	145.66		40.34		30.00	15.00	\$231.00	0.00%	
July 1, 2012	145.84		40.16		30.00	15.00	\$231.00	0.00%	
July 1, 2013	152.00			25.00	30.00	24.00	\$231.00	0.00%	
July 1, 2014	167.00			25.00	30.00	24.00	\$246.00	6.49%	
July 1, 2015	171.00			25.00	33.00	24.00	\$253.00	2.85%	
July 1, 2016	171.00			25.00	33.00	24.00	\$253.00	0.00%	

Schedule Of Events (NJAC 7:11-2.1 et. seq.) To become effective July 1, 2016

<u>2015</u>

SEPTEMBER	18	Advise Water Users of informal meeting.
NOVEMBER	6	Informal meeting with Water Users – 10:00 AM.
DECEMBER	7	Board reviews and approves proposed Rates.
		Mail Official Notice to water customers, Rate Payer Advocate, interested parties and advertise in newspapers.

<u>2016</u>

JANUARY	4	Publication in the New Jersey Register.
	8	Pre-Pubic Hearing – 10:00 AM (within 45 days of Official Notice). Deadline for responses to inquires received prior to pre-public hearing.
	25	Deadline for receipt of comments to be addressed at Public Hearing (15 days after pre-public hearing).
FEBRUARY	5	Public Hearing Meeting. (SR Administration Building) – 10:00 AM Deadline for responses to inquires received between pre-public and public hearing.
	22	Written responses to questions raised at Hearing (within 10 business days of the public hearing).
MARCH	4	NJ Register Comment Period Ends.
	14	Public Hearing record closes (25 business days after Public Hearing).
JUNE	6	Board approval of FY 2017 Rates and Budgets.
JULY	1	Effective date.

Proposed

Fiscal Year 2017 Budget Summary (7/1/16 - 6/30/17)

	1	ADOPTED F/Y16	PROPOSED F/Y17		
Proposed Operating Expense Budget (Schedule 1)	\$	13,157,000	\$	13,686,124	
Net Allocation of Headquarters General and Administrative Expenses to the Manasquan Water Supply System - (Schedule 5)	\$	(737,000)	\$	(744,000)	
Proposed Total Expense Budget	\$	12,420,000	\$	12,942,124	
Proposed Capital Equipment Budget (Schedule 6)	\$	298,900	\$	182,900	
Total Operating Expense & Capital Equipment Budgets	\$	12,718,900	\$	13,125,024	
Contribution to Reserve Funds					
- Other Post Employment Benefits Reserve	\$	-	\$	181,000	
- Reserve for Formal Dam Inspection	\$	10,000	\$	10,000	
- Pumping Reserve	\$	150,000	\$	150,000	
- Capital Equipment Reserve	\$	150,000	\$	150,000	
Total Budget Requirements	\$	13,028,900	\$	13,616,024	
MISCELLANEOUS REVENUES:					
Employee Housing/Land Rental	\$	(56,000)	\$	(47,200)	
Receivable from the State of NJ and Other Reservoir Sites	\$	(5,000)	\$	(5,000)	
Interest Earnings on Funds (Except Major Rehabilitation and					
Depreciation Reserve Fund) (Schedule 7)	\$	(35,300)	\$	(35,400)	
	\$	(96,300)	\$	(87,600)	
OTHER AVAILABLE FUNDS:					
Funds Appropriated to Rate Stabilization Fund for use in F/Y2016 (Resolution #2194, dated 06/01/15)	\$	(1,571,150)	\$	-	
Unanticipated Revenue (Schedule 8)	\$		\$	(2,124,150)	
Total Other Available Funds	\$	(1,571,150)	\$	(2,124,150)	
Net Amount to be paid for O & M Component	\$	11,361,450	\$	11,404,274	

Note 1. This amount is net of withdrawal from Depreciation Reserve.

Schedule 1 - Proposed Operating Expenses Budget – Fiscal Year 2017 Distributed by Cost Center Fiscal Year 2017

CODE	ACCOUNT	OFFICE EXECUTIVE DIRECTOR	FINANCIAL MANAGEMENT & ACCOUNTING	WATERSHED PROTECTION PROGRAMS	OPERATIONS MAINTENANCE & ENGINEERING	PROPOSED BUDGET FOR FY17
5110	Regular Salaries & Wages	\$121,900	\$1,781,050	\$572,900	\$3,410,800	\$5,886,650
5120	Overtime-Salaries & Wages	0	104,600	300	85,100	190,000
5130	New Positions-Salaries & Wages	0	0	0	0	
5140	Seasonal Help-Salaries & Wages	0	0	0	0	
5150	Fringe Benefits	35,800	834,300	234,600	2,066,800	3,171,500
5167	Retiree Health Benefits	51,900	268,200	36,700	688,700	1,045,500
5168	Workers Compensation (Self-Insured)	0	10,000	0	0	10,000
	Total Salary & Fringe Benefits	\$209,600	\$2,998,150	\$844,500	\$6,251,400	\$10,303,650
5200	On-Site Residences	0	\$0	0	\$35,600	\$35,600
5211	Heating Fuel	0	\$0	0	\$107,100	107,100
5220	Utilities - Electrical Service	0	\$0	0	\$112,500	112,500
5230	" -Gas Service & Water	0	\$0	0	\$5,000	5,000
5240	" -Propane	0	\$0	0	\$200	200
5250	Electricity for Pumping	0	\$0	0	\$92,000	92,000
5260	Vehicular Fuel	0	\$159,000	0	\$0	159,000
5270	Oil & Grease	0	\$0	0	\$8,700	8,700
5280	Tires	0	\$0	0	\$29,000	29,000
5290	Maintenance Supplies	0	\$8,100	0	\$186,200	194,300
5300	Maint. Supplies - Vehicular Equipment	0	\$0	0	\$48,000	48,000
5310	Major Special Vehicle Service & Repair	0	\$0	0	\$80,000	80,000
5320	Agricultural Supplies	0	\$1,000	0	\$4,000	5,000
5330	Maintenance of Equipment	0	\$22,200	3500	\$18,500	44,200
5340	Service & Maintenance Contracts	0	\$60,300	100	\$137,200	197,600
5350	Equipment Rental	0	\$24,850	0	\$13,200	38,050
5360	Household-Safety & Protective Supplies	100	\$27,400	0	\$4,100	31,600
5370	Uniforms	0	\$4,500	0	\$2,300	6,800
5380	Special & Professional Services	25,000	\$215,640	124600	\$132,900	498,140
5390	Protective Services	0	\$1,300,000	0	\$0	1,300,000
5400	Telephone	0	\$75,000	0	\$0	75,000
5410	Postage & Freight	0	\$7,500	0	\$100	7,600
5420	Data Processing	0	\$42,284	0	\$0	42,284
5430	Printing & Office Supplies	500	\$35,350	9000	\$7,300	52,150
5440	Scientific & Photographic	0		0		500
5450	Dues & Subscriptions	14,400	\$12,200	1000		40,600
5460	Advertising	0	\$3,500	0		3,500
5470	Travel & Subsistence	1,500	\$1,900	1500	\$1,600	6,500
5480	Staff Training & Tuition Aid	500	\$8,750	3500		19,050
5490	Fees & Permits	0	\$113,100	0		123,800
5500	In-Lieu Taxes	0	\$18,700	0		18,700
ι	Total Operating Expenses	\$42,000	\$2,141,274	\$143,200	\$1,056,000	\$3,382,474

GRAND TOTAL

\$251,600

\$5,139,424

\$987,700 \$7,307,400

Schedule 1A - Comparative Statement Fiscal Year 2017

5110 Regular Salaries & Wages 55,214,020 \$5,227,901 \$5,232,036 \$5,698,700 \$5,886,659 5120 Overtime-Salaries & Wages 0	CODE	ACCOUNT	FY'13 ACTUAL	FY'14 ACTUAL	FY'15 ACTUAL	FY'16 ADOPTED	FY'17 PROPOSED
5120 Overtiner-Salaris & Wages 211.797 186.007 176.438 190.600 190.000 5120 Networksines-Sakris & Wages 0 <td< td=""><td>5110</td><td>Regular Salaries & Wages</td><td>\$5,214,020</td><td>\$5,227,901</td><td>\$5,232,036</td><td>\$5,698,700</td><td>\$5,886,650</td></td<>	5110	Regular Salaries & Wages	\$5,214,020	\$5,227,901	\$5,232,036	\$5,698,700	\$5,886,650
5130 New positions Subaries & Waggs 0 0 0 0 0 0 5162 Retree Unused Sizk & Vacation 0 41.044 38.788 0 0 0 5167 Retree Heath Benefits 2.634,592 2.549.057 2.478,311 3.083,700 3.171,500 5168 Workers Corru, Gell Insured) 3.679 4.384 5.707 10.000 10.000 Total Salary & Fringe 88.982,500 87,700,251 8,701,100 9,791,300 10.303,559 5211 Heading Food 1112,576 99,709 71,915 106,400 107,100 5220 Casa Service 4,258 4,990 4,234 4,700 5.200 5231 Heading Food 172,540 77,401 79,730 90,000 92,000 5240 Free relation Service 104,234 106,609 102,3357 137,000 120,000 5240 Free/is for Pumping Station 77,5400 77,940 90,000 92,000 5200 521 Free/is							
5162 Retire Umsed Sick & Vacation 0 41.044 38.788 0 0 5150 Fringe Benefits 2.634.992 2.549.057 2.478.311 3.083,700 3.171.500 5167 Reirer Health Benefits 619.662 711.226 769.220 888,800 1.045.500 5168 Workers Comp. (SelfInsured) 3.679 4.384 5.707 10.0000 10.0303.500 5200 Residences \$80,172 \$85.031 \$77,320 \$41,600 \$35.600 5211 Heating Fuel 112.576 99.709 71.015 106.640 107.100 5230 -Cas Service 4.258 4.980 4.234 4.700 5.000 5240 -Propane 102 520 271 200 200 201 5210 Bactrikity for Purping Station 75.400 77.401 79.790 90.000 92.000 22.000 22.00 22.00 23.01 6.602 8.700 3.700 4.300 3.700 4.300 5.700	5130		0	0	0	0	0
5167 Retine Health Benefis 619.662 711.226 709.820 808.300 1.045.500 5168 Workers Comp, (Self Insued) 3.679 4.344 5.707 10.000 10.000 Total Salary & Fringe 8.683.750 8.702.519 8.701.100 9.791.300 10.303.650 Budget Salary & Fringe S8.982.800 \$97.002.50 535.600 220 Weinise -Electrical Service 102.576 99.799 71.915 106.400 107.100 5240 -Propane 102 520 271 200 200 5240 -Propane 102 520 271 200 200 5240 -Propane 102 520 271 200 200 5240 Propane 103.5347 144.641 143.557 157.800 159.000 5270 Oil & Grease 2.829 5.222 6.041 6.600 8.700 5280 Tires 1.4353 31.557 23.157 23.000	5162	× v	0	41,044	38,788	0	0
5167 Retine Health Benefis 619.662 711.226 709.820 808.300 1.045.500 5168 Workers Comp, (Self Insued) 3.679 4.344 5.707 10.000 10.000 Total Salary & Fringe 8.683.750 8.702.519 8.701.100 9.791.300 10.303.650 Budget Salary & Fringe S8.982.800 \$97.002.50 535.600 220 Weinise -Electrical Service 102.576 99.799 71.915 106.400 107.100 5240 -Propane 102 520 271 200 200 5240 -Propane 102 520 271 200 200 5240 -Propane 102 520 271 200 200 5240 Propane 103.5347 144.641 143.557 157.800 159.000 5270 Oil & Grease 2.829 5.222 6.041 6.600 8.700 5280 Tires 1.4353 31.557 23.157 23.000	5150	Fringe Benefits	2,634,592	2,549,057	2,478,311	3,083,700	3,171,500
Total Salary & Fringe 8.683.750 8.720.519 8.701,100 9.791,300 10.303,650 Budget Salary & Fringe \$8.982,500 \$9.700,250 5200 Residences \$80,172 \$85,031 \$77,320 \$41,600 \$35,600 5211 Heintig Fuel 112,576 \$9,709 71,151 106,400 107,100 5230 Litiks - Excitcal Service 4,258 4,980 4,224 4,700 5,000 5240 Propane 102 520 2,71 200 200 5250 Eketricity for Pumping Station 75,400 77,401 79,790 90,000 92,000 5270 Oil & Gresse 2,829 5,222 6,041 6,600 8,700 5280 Tires 14,855 31,557 23,157 20,000 29,000 5290 Maintenance Supples 165,264 161,555 147,168 213,300 194,300 5310 Maine Vehick Service & Repair 100,424 102,024 72,800 88,000 <t< td=""><td>5167</td><td>Retiree Health Benefits</td><td>619,662</td><td>711,226</td><td>769,820</td><td>808,300</td><td>1,045,500</td></t<>	5167	Retiree Health Benefits	619,662	711,226	769,820	808,300	1,045,500
Total Sahry & Fringe 8.683.750 8.720.519 8.701,100 9.791,300 10.303,650 Budget Salary & Fringe \$8.982,500 \$9.700,250 \$9.700,250 5200 Residences \$80,172 \$85,031 \$77,320 \$41,600 \$835,600 5211 Heading Fuel 112,576 \$9,709 71,151 106,400 107,100 5230 Utilities -Excitcal Service 4,238 4,980 4,234 4,700 5,000 5240 -Propane 102 520 271 200 200 5250 Recriticity for Pumping Station 75,400 77,401 79,790 \$90,000 92,000 5270 Tress 14,855 31,557 23,157 26,000 8,700 5280 Tress 14,855 31,614 47,017 39,000 48,000 5300 Maintenance Supplies 165,264 161,555 147,168 213,300 194,300 5300 Maintenance Supplies 1,328 653 3,008 5,000	5168	Workers Comp. (Self Insured)	3,679	4,384	5,707	10,000	10,000
5200 Residences \$80,172 \$85,031 \$77,320 \$41,600 \$35,600 5211 Heating Fuel 112,576 99,709 71,915 106,400 107,100 5220 Gas Service 104,123 106,609 105,818 112,500 112,500 5240 -Propane 102 520 271 200 200 5250 Electricity for Pumping Station 75,400 77,401 79,790 90,000 92,000 5260 Fuel - Vehixular 153,547 144,641 143,557 157,800 159,000 5270 Ol & Grease 2,829 5,222 6,041 6,600 8,700 5280 Tires 14,855 31,557 23,157 26,000 29,000 5300 Maintenance Supplies 163,264 161,555 147,168 213,300 194,300 5300 Maintenance Contracts 179,019 107,202 184,660 181,200 197,600 5340 Serukuual Supplies 1,328 <td< td=""><td></td><td></td><td>8,683,750</td><td>8,720,519</td><td>8,701,100</td><td>9,791,300</td><td>10,303,650</td></td<>			8,683,750	8,720,519	8,701,100	9,791,300	10,303,650
S211 Heating Fuel 112,576 99,709 71,915 106,400 107,100 S220 Chifies -Excitral Service 104,123 106,609 105,818 112,500 112,500 S240 -Propane 102 520 271 200 200 S250 Electricity for Pumping Station 75,400 77,401 79,700 90,000 92,000 S280 Tires 14,855 31,557 23,157 26,000 8,700 S280 Tires 14,855 31,557 23,157 26,000 29,000 S300 Maintenance Supplies 165,264 161,555 147,168 213,300 194,300 S310 Maintenance Kapplies 1,328 653 3,008 5,000 80,000 S320 Apricultural Supplies 1,328 653 3,008 5,000 5,000 S300 Maintenance Contracts 179,019 167,202 184,660 181,200 197,600 S300 Buipriment Rental 139,944		Budget Salary & Fringe	\$8,982,500	\$9,700,250	÷	·	
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Annual Increase (Decrease) 1.23% -0.14% -0.28% 11.94% 4.02% Budget - other expenses 3,090,900 3,077,600 3,290,600 3,365,700		Total Other Expenses	\$3,119,864	\$3,066,512	\$3,052,777	\$3,365,700	\$3,382,474
Annual Increase (Decrease) 1.23% -0.14% -0.28% 11.94% 4.02% Budget - other expenses 3,090,900 3,077,600 3,290,600 3,365,700		Total Operating Expenses	\$11,803,614	\$11,787,031	\$11,753,877	\$13,157,000	\$13,686,124
Budget -other expenses 3,090,900 3,077,600 3,290,600 3,365,700							
		Budget -other expenses					

Schedule 2 - List of Category 5340 Items Recommended Service & Maintenance Contracts

Fiscal Year 2017

		ADOPTED F/Y16	PROPOSED F/Y17
		17110	17117
1.	Postage/Fax/ Misc. Machines (Dept. 16)	\$1,000	\$1,500
2.	HIS-Safety Software (Dept. 17)	\$1,700	\$1,700
3.	GO DADDY.COM - Remote Access Certificates (Dept. 17)	\$300	\$300
4.	WMWARE (Dept. 17)	\$500	\$500
5.	Sage MAS 200 (Dept. 17)	\$1,600	\$4,500
6.	Western Technologies NJ Parcel Maps (Dept. 17)	\$1,300	\$1,300
7.	Sage Fixed Asset (Dept. 17)	\$2,500	\$2,500
8.	PV & Associates-Winslamm (Dept. 17)	\$500	\$500
9.	People Trak Support Technical Difference (Dept. 17)	\$800	\$1,000
10.	COMCAST - Cable Internet (Dept. 17)	\$4,200	\$4,280
11.	Essention - Conservation Trak	\$0	\$2,500
12.	OSHA Software (GAO) (Dept. 17)	\$100	\$0
13.	Pure Host Web Hosting Administration (Dept. 17)	\$200	\$200
14.	Pure Host Web Hosting Watershed (Dept. 17)	\$250	\$250
15.	Symantec Anti-Virus Maintenance-Clinton (Dept. 17)	\$2,400	\$2,200
16.	Sonic Wall Software (Dept. 17)	\$1,500	\$1,200
17.	ESRI ArcView Maintenance-Watershed (Dept. 17)	\$5,400	\$5,400
18.	CU Riverware Maintenance Agreement (Dept. 17)	\$3,400	\$3,400
19.	McAfee Antispam (Dept. 17)	\$1,500	\$1,500
20.	River Morph (Dept. 17)	\$800	\$500
21.	DLT Solutions Autocad (Dept. 17)	\$1,000	\$1,500
22.	Fastrax SBPS Monitoring Software (Dept. 17)	\$900	\$900
23.	ESRI ArcView Maintenance-Clinton (Dept. 17)	\$500	\$800
24.	Keystone Precision-GPS Software Maint. (Dept. 17)	\$800	\$800
25.	HAAS Systems-Security Alarm Software Maint. (Dept. 17)	\$400	\$400
26.	Clients First-Vipre Antivirus/Antispam (Dept. 17)	\$250	\$250
27.	EZ Watch Security Video (Dept. 17)	\$0	\$900
28.	Clients First - Server Software (Dept. 17)	\$0	\$1,000
29.	Delmar Enterprises - Key Systems (Dept. 17)	\$0	\$520
30.	Cleaning Services (Dept. 20)	\$1,800	\$0
31.	Echowood Carpet Cleaning (Dept. 20)	\$1,500	\$0
32.	Yahoo for River Friendly (Dept. 20)	\$100	\$100

(continued on next page)

Schedule 2 (Cont.) - List of Category 5340 Items Recommended Service & Maintenance Contracts Fiscal Year 2017

33. Refuse Collection (Dept. 31) \$11,900 34. Janitorial Service (Dept. 31) \$15,500 35. HVAC Service (Dept. 31) \$5,500 36. Electrician & Plumber Services (Dept. 31) \$5,500 37. Instrumentation Services (Dept. 31) \$4,500 38. Entry Rugs (Dept. 31) \$2,700 39. Carpet Cleaning (Dept. 31) \$2,700 39. Carpet Cleaning (Dept. 31) \$1,200 41. Underground Plant Location Service Notifications (Dept. 31) \$1,200 42. Crare Service and Inspection (Dept. 31) \$1,200 43. Elevator Service-SBPS (Dept. 31) \$2,800 44. Electrical Service SBPS (Dept. 31) \$6,400 45. Floor Cleaning Maintenance-Office (Dept. 32) \$2,400 46. Janitorial Service Route 1 (Dept. 32) \$2,400 47. Dumpster Service Extra (Dept. 32) \$2,000 50. Instrumentation Testing (Dept. 32) \$2,000 51. Floor Mats (Dept. 32) \$1,000 52. Grass Mowing Service (Dept. 32) \$3,000 53. Boiler Service-IFW, 10 Mile PS (D	ROPOSED F/Y17
35. HVAC Service (Dept. 31) \$5,500 36. Electrician & Plumber Services (Dept. 31) \$5,000 37. Instrumentation Services (Dept. 31) \$4,500 38. Entry Rugs (Dept. 31) \$2,700 39. Carpet Cleaning (Dept. 31) \$2,300 40. Generator Service-Administration Building (Dept. 31) \$1,200 41. Underground Plant Location Service Notifications (Dept. 31) \$1,000 42. Crane Service and Inspection (Dept. 31) \$1,200 43. Elevator Service-SBPS (Dept. 31) \$2,800 44. Electrical Service-SBPS (Dept. 31) \$6,400 45. Floor Cleaning Maintenance-Office (Dept. 32) \$2,400 46. Janitorial Service (Dept. 32) \$3,000 47. Dumpster Service Route 1 (Dept. 32) \$2,000 50. Instrumentation Testing (Dept. 32) \$1,000 51. Floor Mats (Dept. 32) \$1,000 52. Grass Mowing Service (Dept. 32) \$3,000 54. Wood Disposal Fees (Dept. 32) \$3,000 55. Generator Service-Scudders & Perdicaris (Dept. 32) \$3,000 54.	\$11,900
36. Electrician & Plumber Services (Dept. 31) \$5,000 37. Instrumentation Services (Dept. 31) \$4,500 38. Entry Rugs (Dept. 31) \$2,700 39. Carpet Cleaning (Dept. 31) \$2,300 40. Generator Service-Administration Building (Dept. 31) \$1,200 41. Underground Plant Location Service Notifications (Dept. 31) \$1,200 42. Crane Service and Inspection (Dept. 31) \$1,200 43. Elevator Service-SBPS (Dept. 31) \$2,800 44. Electrical Service-SBPS (Dept. 31) \$2,800 45. Floor Cleaning Maintenance-Office (Dept. 32) \$2,400 46. Janitorial Service (Dept. 32) \$3,000 47. Dumpster Service Canal Office (Dept. 32) \$3,000 48. Dumpster Service Route 1 (Dept. 32) \$2,000 50. Instrumentation Testing (Dept. 32) \$1,000 51. Floor Mats (Dept. 32) \$3,000 52. Grass Mowing Service (Dept. 32) \$3,000 53. Boiler Service-Scudders & Perdicaris (Dept. 32) \$3,000 52. Grass Mowing Service (Dept. 32) \$3,000	\$15,500
37. Instrumentation Services (Dept. 31) \$4,500 38. Entry Rugs (Dept. 31) \$2,700 39. Carpet Cleaning (Dept. 31) \$2,300 40. Generator Service-Administration Building (Dept. 31) \$1,200 41. Underground Plant Location Service Notifications (Dept. 31) \$1,200 42. Crane Service and Inspection (Dept. 31) \$1,200 43. Elevator Service-SBPS (Dept. 31) \$2,800 44. Electrical Service-SBPS (Dept. 31) \$6,400 45. Floor Cleaning Maintenance-Office (Dept. 32) \$2,400 46. Janitorial Service (Dept. 32) \$7,300 47. Dumpster Service Canal Office (Dept. 32) \$3,000 48. Dumpster Service Route 1 (Dept. 32) \$22,000 50. Instrumentation Testing (Dept. 32) \$2,000 51. Floor Mats (Dept. 32) \$1,000 52. Grass Mowing Service (Dept. 32) \$3,000 54. Wood Disposal Fees (Dept. 32) \$3,000 55. Generator Service-Scudders & Perdicaris (Dept. 32) \$3,000 54. Wood Disposal Fees (Dept. 32) \$3,000 55. <td>\$5,500</td>	\$5,500
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48. Dumpster Service Route 1 (Dept. 32) \$28,000 49. Dumpster Service-Extra (Dept. 32) \$2,000 50. Instrumentation Testing (Dept. 32) \$1,000 51. Floor Mats (Dept. 32) \$1,000 52. Grass Mowing Service (Dept. 32) \$5,000 53. Boiler Service (Dept. 32) \$300 54. Wood Disposal Fees (Dept. 32) \$3,100 55. Generator Service-Scudders & Perdicaris (Dept. 32) \$3,000 56. Vac Truck Service-IFW, 10 Mile PS (Dept. 32) \$3,000 57. Tire Recycling (Dept. 32) \$0 58. Floor Mats (Dept. 33) \$2,300 59. Carpet Cleaning (Dept. 33) \$2,300 59. Carpet Cleaning (Dept. 33) \$600 61. Parts Washer & Hazardous Removal (Dept. 34) \$1,000 62. Fire Extinguisher Maintenance (Dept. 36) \$6,000 63. Hazardous Waste Control (Dept. 36) \$1,500	\$7,300
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52. Grass Mowing Service (Dept. 32) \$5,000 53. Boiler Service (Dept. 32) \$300 54. Wood Disposal Fees (Dept. 32) \$3,100 55. Generator Service-Scudders & Perdicaris (Dept. 32) \$3,000 56. Vac Truck Service-IFW, 10 Mile PS (Dept. 32) \$3,900 57. Tire Recycling (Dept. 32) \$0 58. Floor Mats (Dept. 33) \$2,300 59. Carpet Cleaning (Dept. 33) \$3,100 60. Welco Gas (Dept. 33) \$600 61. Parts Washer & Hazardous Removal (Dept. 34) \$1,000 62. Fire Extinguisher Maintenance (Dept. 36) \$6,000 63. Hazardous Waste Control (Dept. 36) \$1,500	\$1,000
53. Boiler Service (Dept. 32) \$300 54. Wood Disposal Fees (Dept. 32) \$3,100 55. Generator Service-Scudders & Perdicaris (Dept. 32) \$3,000 56. Vac Truck Service-IFW, 10 Mile PS (Dept. 32) \$3,900 57. Tire Recycling (Dept. 32) \$0 58. Floor Mats (Dept. 33) \$2,300 59. Carpet Cleaning (Dept. 33) \$3,100 60. Welco Gas (Dept. 33) \$600 61. Parts Washer & Hazardous Removal (Dept. 34) \$1,000 62. Fire Extinguisher Maintenance (Dept. 36) \$6,000 63. Hazardous Waste Control (Dept. 36) \$1,500	\$1,000
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58. Floor Mats (Dept. 33) \$2,300 59. Carpet Cleaning (Dept. 33) \$3,100 60. Welco Gas (Dept. 33) \$600 61. Parts Washer & Hazardous Removal (Dept. 34) \$1,000 62. Fire Extinguisher Maintenance (Dept. 36) \$6,000 63. Hazardous Waste Control (Dept. 36) \$1,500	\$3,900
59. Carpet Cleaning (Dept. 33) \$3,100 60. Welco Gas (Dept. 33) \$600 61. Parts Washer & Hazardous Removal (Dept. 34) \$1,000 62. Fire Extinguisher Maintenance (Dept. 36) \$6,000 63. Hazardous Waste Control (Dept. 36) \$1,500	\$1,000
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62.Fire Extinguisher Maintenance (Dept. 36)\$6,00063.Hazardous Waste Control (Dept. 36)\$1,500	\$600
63. Hazardous Waste Control (Dept. 36)\$1,500	\$1,000
-	\$7,000
64. Fire Alarm Testing (Dept. 36) \$8.000	\$1,500
	\$8,000
65. Vehicle Lifts Annual Testing (Dept. 36) \$1,500	\$1,500
TOTAL \$181,200	\$197,600

Schedule 3 - List of Category 5380 Items Recommended Professional Services

Fiscal Year 2017

		ADOPTED F/Y16	PROPOSED F/Y17
1.	Services-Governor's Authorities Unit (Dept. 10)	\$25,000	\$25,000
2.	Consultant-C.P.A. to Conduct Annual Audit (Dept. 13)	\$60,000	\$60,610
3.	Services-GFOA Certificate Fee (Dept. 13)	\$500	\$500
4.	125 Plan-Family security Insurance Agency (Dept. 13)	\$2,500	\$2,730
5.	Archiving (Dept. 13)	\$0	\$5,000
6.	Services-Pre-Employment Exams & Tests (Dept. 14)	\$3,100	\$2,400
7.	Fidelifax-Background Checks (Dept. 14)	\$2,100	\$1,600
8.	Medical CDL Drug Testing (Dept. 14)	\$1,600	\$1,600
9.	Employee Advisory Service (Dept. 14)	\$2,800	\$2,500
10.	Consultant-Risk Management - to provide assistance to the Authority in the review of insurancecoverage and continuation of a Comprehensive Coordinated Risk Management Program (Dept. 15)	\$33,500	\$29,000
11.	Insurance Broker-HRH (Dept. 15)	\$42,000	\$42,000
12.	GL Administrator (ESIS) (Dept. 15)	\$2,100	\$800
13.	Services-Attorney General's Office - Assistance of Deputy	\$50,000	\$40,000
	Attorney General concerning a wide range of legal matters (Dept. 15)		
14.	Miscellaneous (Dept. 15)	\$0	\$10,000
15.		\$6,900	\$15,100
	Water Monitoring Costs - USGS SR @ Glen Gardner (Dept. 20)		
16.	Water Monitoring Costs - USGS Mulhockaway @ Van Syckel (Dept. 20)	\$0	\$5,400
17.	Water Monitoring Costs - USGS Lockatong Creek @ Raven Rock (Dept. 20)	\$0	\$11,900
18.	Water Monitoring Costs - USGS Raritan River @ Manville (Dept. 20)	\$41,700	\$44,300
19.	USGS Continuous Water Qality for D&R Canal, Landing Lane (Dept. 20)	\$31,000	\$33,600
20.	Water Monitoring USGS Lock/Wick (Dept. 20)	\$11,500	\$0
21.	Water Monitoring USGS @ Stanton Station (Dept. 20)	\$6,900	\$0
22.	Water Monitoring-SBWA/URWA now RHA (Dept. 20)	\$2,000	\$2,000
23.	Water Monitoring-SBMWA (Dept. 20)	\$1,500	\$1,500

(continued on next page)

Schedule 3 (Cont.) - List of Category 5380 Items Recommended Professional Services

		ADOPTED F/Y16	PROPOSED F/Y17
24.	Dash for the Trash (Dept. 20)	\$1,000	\$1,000
25.	Lab Certification WPU/Water Sample Analysis (Dept. 20)	\$1,000	\$1,500
26.	NJ Invasive Species Strike Team (Dept. 20)	\$300	\$300
27.	Stroud Water Research Macroinvertebrates Analysis (Dept. 20)	\$5,200	\$0
28.	Lockatong ISCO Monitoring (Dept. 20)	\$0	\$4,000
29.	D&R Canal ISCO Monitoring (Dept. 20)	\$0	\$4,000
30.	Services-Emergency Engineering Services (Dept 30)	\$2,500	\$2,500
31.	Underground Storage Tank-CEA Report (Dept. 30)	\$11,000	\$11,000
32.	Underground Storage Tank Groundwater Test (Dept. 30)	\$2,500	\$2,500
33.	Services - USGS Cooperative Agreement River Gauging -	\$72,000	\$72,000
	Maintenance of Raritan Basin Stream Gauging Stations and the		
	Delaware & Raritan Canal Gauging at Kingston per		
	USGS/DWR/NJWSA Agreement (Dept. 31)		
34.	Services-USGS Spruce Run Gauging	\$17,000	\$17,000
35.	Maintenance of two stations on Streams feeding Spruce Run not		
	covered under State Cooperative Agreement (Dept. 31)		
36.	Water Testing	\$2,400	\$2,400
37.	Water Testing and Sampling to comply with the Safe Water		
	Drinking Act (Dept. 31)		
38.	Services-Water Sampling and Testing as per NJDWR	\$5,000	\$5,500
	Requirements - A) RT 202 Stockpile Site (Dept 32)		
39.	Maintenance of USGS Gauges at Washington Crossing and	\$13,500	\$20,000
	Pricaris Waste Gate (Dept. 32)		
40.	Safety Suggestion Program, Poster and Promotional Materials,	\$9,700	
	Safety Incentive Program (Dept. 36)		\$9,700
41.	Pulmonary Testing and Physicals (Dept. 36)	\$5,000	\$5,000
42.	Annual Contributions to Fire Companies and Rescue Squads	\$1,300	\$500
	(Dept. 36)		
43.	Hepatitis Vaccinations (Dept. 36)	\$800	\$800
44.	Calibration for the Pota-Count Respirator (Dept. 36)	\$700	\$900
		¢ 477 COO	¢ 400, 1,40
	TOTAL	\$477,600	\$498,140

Schedule 4 - Projected FY 2017 New Jersey Water Supply Authority Insurance Program

Policy	Raritan Basin System	Manasquan Reservoir System	Manasquan Water Treatment Plant and Transmission System	Total Premium
Property Limit \$150 million, Limit \$25m BI Deduct: \$100k all perils \$250k Deduct dams, dikes / \$1m Deduct Canal flood	\$618,526	\$207,930	\$50,886	\$877,342
General/Products Liability Limit \$1 million Deduct: \$150k	\$108,676	\$10,161	\$2,110	\$120,947
Environmental Impairment Liability Limit \$10 million Deduct: \$100k	\$21,457	\$2,006	\$417	\$23,880
Workers' Compensation Limit \$1 million	\$205,001	\$26,354	\$27,613	\$258,968
Employer Liability Limit \$1 million	Included in Workers' Comp	Included in Workers' Comp	Included in Workers' Comp	Included in Workers' Comp
Umbrella Liability Limit \$20 million	\$283,672	\$26,521	\$5,507	\$315,700
Business Automobile Limit: \$1 million G/L, \$0 pd Deduct: \$50k, G/L	\$11,739	\$2,084	\$477	\$14,300
Public Officials Liability Limit \$5 million/\$1million crime Deduct: \$100k/\$50k c. crime	\$50,053	\$4,680	\$972 <u>\$3,408</u> \$4,380	\$55,705 <u>\$3,408</u> \$59,113
Travel Accident Limit \$2 million	\$876	\$82	\$17	\$975
TOTAL:	\$1,300,000	\$279,818	\$91,407	\$1,671,225

<u>Schedule 5 - Recap Of Allocation Of Headquarters General And Administrative Expenses Charged</u> <u>To The Manasquan Water Supply System</u>

Fiscal Year 2017 (7/1/16-6/30/17)

	Total Headquarters Charge	Manasquan Reservoir System	Manasquan WTP/TS
Budgeted-Appendix I, amount to be charged to	C	-	
Manasquan System for F/Y17 (7/1/16-6/30/17)	\$823,329	\$709,165	\$114,164
F/Y15 Adjustment as per audited Expenditures:			
Budgeted as per rate schedule for F/Y15 (7/1/14-			
6/30/15). Amounts paid during F/Y15 to Raritan Basin System.	\$781,349	\$678,114	\$103,235
	<i><i>qio1,01y</i></i>	<i><i><i>vo,o,iii</i></i></i>	\$100 ,2 00
Actual allocation based upon audited expenditures F/Y15 (7/1/14-6/30/15) - Appendix II	\$702,080	\$609,319	\$92,761
		<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	ψ72,701
Adjustments F/Y15	(\$79,269)	(\$68,795)	(\$10,474)
Net Allocation for F/Y2017 Budget	\$744,060	\$640,370	\$103,690
Estimate	\$744,000	\$640,000	\$104,000

Schedule 6 - Proposed Capital Equipment Budget

Fiscal Year 2017

		(R) Replacement			Depreciatio
	Description	(A) Addition	Year of Purchase	Dollar Value	Reserve
INFORMATION SYSTEMS	(1) VIDEO SYSTEM - ANNEX	(A)		1,500	
	(1) VIDEO SYSTEM - CONF ROOM	(A)		1,500	
	(1) BOILER REPLACEMENT BUSHER RESIDENCE	(R) - original	1991	10.000	
FACILITIES	(1) BOILER REPLACEMENT BUSHER RESIDENCE (3) DOOR REPLACEMENT - SINGLE	(R) - original	1991	15,000	
				- ,	
	(1) DOOR REPLACEMENT - DOUBLE	(R) - original		9,000	
	SINGLE DOORS - COMPRESSOR ROOM, PAINT			+ +	
	ROOM AND CARPENTERS SHOP				
	DOUBLE DOORS - BOILER ROOM				
	DOUBLE DOORS - BOILER ROOM			1 1	
	(2) PORTABLE WATER TANKS	(R)		20,000	
	(1) BUMPER CRANE FOR VEHICLE NJWA 18	(A)		5,500	
ROUNDS	(1) TON HD DECK OVER TRAILER	(R) EQ1707	1999	20,000	12
	(1) HYDRAULIC POLE SAW	(R) PE1613	1997	2.000	1.
	(1) AIR COMPRESSOR RVMB	(R) PE742	1986	7.000	1.
	(1) TOW BEHIND AIR COMPRESSOR	(R) PE1480	1994	15,000	11,
	(1) TRACTOR TS100	(R) PE1751	2000	90,000	63.
CANAL	(1) NJWA-37 SMALL SUV	(R) TR2196	2011	30,000	22.
ANAL	(1) NJWA-37 SMALL SUV (1) NJWA-38 SIX MAN PICKUP	(R) TR2196	2009	40,000	
	(1) NJWA-38 SIX MAN PICKUP (1) NJWA-46 SIX MAN PICKUP	(R) TR2135 (R) TR2136	2009	40,000	28,
	(2) REPLACE RTU @ PERDICARIS & WASH. CROSSING	(R) (R)	2009	30,000	20,
	(1) REPLACE DUMP BODY ON NJWA -30	(R)		25,000	
	(2) 9.9 HP, 4 STROKE OUTBOARD BOAT MOTOR(S)	(R) 2209/2210		5,000	2.
AUTO SHOP	(1) TRUCK MOUNT AIR COMPRESSOR	(A)		3,500	
				2,500	
AFETY	(2) REPLACE TWO AED UNITS	(R) EQ2203, 2204	2012	4,000	1,
		(R) TR2216	2013	32,000	24.

	LESS AMOUNT CHARGED TO DEPRECIATION RESERVE		\$406,000 (198,879)	\$198,879
		NET TOTAL	\$207,121	
mc:a:capeqp.xlw	LESS AMOUNT CHARGED TO CAPITAL EQUIPMENT RESERVE		\$0	
02-Oct-15	LESS ADDITIONAL AMOUNT CHARGED TO DEPRECIATION RESER	VE	(\$24,218)	
02-001-13	TOTAL		\$182,903	
	AMOUNT FUNDED FOR FY2017		\$182,900	

Schedule 7 - Estimate Of Interest Income For Fiscal Year 2017 Budget

Fund/Reserve	TD Bank Funds	Long-Term Investments
Operating	\$600,0	\$0
Reserve for O & M	\$500,0	\$1,500,000
Pumping Reserve	\$600,0	\$0
Self-Insurance Reserve	\$1,0	\$700,000
Rate Stabilization Fund	\$1,000,0	\$0
Estimated Total	\$2,701,0	\$2,200,000
	\$2,701,000 x .25% =	\$6,753
	\$2,200,000 x 1.30% =	\$28,600
	Total	\$35,353
	Estimate	\$35,400

Short-Investments

TD Bank Managed Rate of .25% 95% of the 30 Day Libor After the Compensating Balance Has Been Satisfied

Long-Term Investments

JP Morgan New Jersey State G/O Bonds Due 07/15/2016 Yield to Maturity 1.30% Expect Similar Returns After Maturity

Schedule 8 - Unanticipated Revenue

Funds to be appropriated Into the Rate Stabilization Fund for Fiscal Year 2017

F/Y2015 Net Year-End Balance

Amount \$341,000.00

Overdrafts	Invoice No.	Billed	Amount				
East Windsor Municipal Utilities Authority	800	11/10/14	\$11.14				
	990	07/22/15	\$1,892.80				
Heron Glen	801	11/10/14	\$88.62				
	803	11/10/14	\$396.78				
	991	07/22/15	\$1,187.70				
Raritan Valley Country Club	802	11/10/14	\$2,999.06				
	992	07/22/15	\$37.54				
Somerset County Park Commission	804	11/10/14	\$948.54				
Trump National	805	11/10/14	\$484.06				
Village Grande	806	11/10/14	\$101.15				
	Amount used in	Total FY2016	\$8,147.39 -\$1,048.30				
		NET		\$7,099.09			
Overdrafts Not Billed, Accrued through July, 2015 NJAW, Somerset County Park, Trump National, Roxiticus, Raritan Valley CC, Washinton Township MUA, Royce Brook, Greenbriar Stonebridge, Hamilton Farms Golf							
Club, East Brunswick				\$206,052			
Other Sources of Funds				+			
Dredging Deferral				\$1,570,000.00			
		Grand Total		\$2,124,150.86			
		FY17 Budge	et	\$2,124,150.00			

Schedule 9 - Fund Balances as of 6/30/15

Final

					INVESTMENTS	
	REVENUE FUND	OPERATING ACCOUNT	OPERATING FUND	O & M RESERVE	O & M RESERVE	TOTAL
	FUND	ACCOUNT	FUND	RESERVE	RESERVE	IOTAL
BALANCE 6/30/15	\$289,108	\$1,187,170	\$972,749 0	\$2,166,216	\$1,762,155	\$6,377,398 0
Deduct: Accrued expenses to be paid as of 6/30/15			(187,291)			(187,291)
Deduct: June 1st billing, received			(349,339)			(349,339)
	<u> </u>	<u> </u>	\$ 10 < 110	<u> </u>		\$5.040.5 (0)
Adjusted Balances 6/30/15	\$289,108	\$1,187,170	\$436,119	\$2,166,216	\$1,762,155	\$5,840,768
INCOME						
Reimbursement Manasquan Receipt of Headquarters Overhead Expenses for						
7/10/15			169,000			169,000
Operating transfer	(200,000)	(1,100,000)	1,300,000			0
EXPENSES						
O & M Expenses - (A/P 6/30/15) Includes accrued Payroll and Insurance thru 6/30/15			(581,776)			(581,776)
includes accrued r ayroli and insurance titu 0/30/15			(381,770)			(581,770)
Capital items to be purchased by 6/30/15			0			0
Various Reserve contributions (one month)			0			0
PROJECTED BALANCE AT 6/30/15	\$89,108	\$87,170	\$1,323,343	\$2,166,216	\$1,762,155	\$5,427,992
	,					

Note 1. Unanticipated Revenues for F/Y 17

(overdrafts in F/Y 15 to be available for appropriation to Rate Stablilization for FY16/FY17)

NJ American	\$50,667.80
East Windsor MUA	1,903.94
Raritan Valley	3,053.70
Trump National	1,715.16
Village Grande at Bear Creek	101.15
Roxiticus Golf Club	704.43
Somerset County	1,036.42
Washington Township MUA/Heron Glen	1,310.61
	\$60,493.21

Less: FY2016 O & M reserve balance (3 mos required by resolution)	(3,363,975)
Adjusted balance of funds available 6/30/15	2,064,017
Use of Available Funds	
Unanticipated revenues (overdrafts in F/Y 15 to be available for appropriation to Rate Stabilization Fund for FY16/FY17 (Note 1)	(60,493)
Rate Stabilization Fund Transfer for FY16	0
Projected Net Balance	\$2,003,524

Schedule 10 - Projected Fiscal Year 2017 Operations & Maintenance Component Sales Base

New Jersey Environmental Infrastructure Financing Program Debt Service Assessment

USER	DAILY ALLOCATION (MGD)	DAYS PER YEAR	TOTAL MG/YR	ANNUALIZED SALES BASE (MGD)
Duke Farms	0.075	N/A		0.000
East Brunswick Twp	8.000	365	2,920.000	8.000
NJ American Water Company	126.600	365	46,209.000	126.600
Mercer County Park Commission – Golf	0.132	184	24.300	0.067
Middlesex Water Co.	27.000	365	9,855.000	27.000
New Brunswick, City of	10.500	365	3,832.500	10.500
North Brunswick Twp.	8.000	365	2,920.000	8.000
Princeton University	0.150	365	54.750	0.150
Trenton Country Club	0.126	365	46.000	0.126
United Water Lambertville	0.490	365	178.850	0.490
Ridge at Back Brook	0.111	365	40.510	0.111
Roxbury Water Company	0.041	365	15.000	0.041
Royce Brook Golf Club	0.165	365	60.230	0.165
Hunterdon County Golf (Heron Glen)	0.079	365	28.800	0.079
Raritan Valley Country Club	0.012	365	4.380	0.012
East Windsor Municipal Utilities Authority	0.011	365	4.000	0.011
Somerset County Park Commission (Neshanic Valley Golf Club)	0.142	365	51.750	0.142

Schedule 10 (Cont.) - Projected Fiscal Year 2017 Operations & Maintenance Component Sales Base

New Jersey Environmental Infrastructure Financing Program Debt Service Assessment

USER	DAILY ALLOCATION (MGD)	DAYS PER YEAR	TOTAL MG/YR	ANNUALIZED SALES BASE (MGD)	
Lamington Farms LLC (Trump National Golf Club)	0.170	365	62.100	0.170	
Morris County Municipal Utilities Authority	0.079	365	28.830	0.079	
Applied Waste Water Management, Inc. (Mt. Olive Township)	0.010	365	3.554	0.010	
Washington Township Municipal Utilities Authority	0.035	365	12.775	0.035	
Borough of Glen Gardner	0.008	365	2.775	0.008	
Roxiticus Golf Club	0.046	365	16.790	0.046	
Hamilton Farm Golf Club	0.138	365	50.400	0.138	
Springdale Golf Club	0.098	365	35.640	0.098	
NJ Department of Corrections	0.025	365	9.250	0.025	
Stonebridge Community Assoc.	0.081	365	29.565	0.081	
Village Grande @ Bear Creek	0.074	365	27.010	0.074	
Eastern Concrete Materials	0.023	365	8.500	0.023	
Hunterdon Medical Center	0.031	365	11.000	0.031	
Princeton University Operations	0.027	365	9.855	0.027	
TOTAL SALES BASE					

Schedule 11 - Operations And Maintenance Rate Component

Fiscal Year 2017

Funds Required for F/Y2017 Budget

Proposed Operating Expense and Capital Budget	\$13,616,024
Less Miscellaneous Revenues & Interest Income	(\$87,600)
Other Available Funds	(\$2,124,150)
Net Budget Requirement	\$11,404,274
Less: 182.339 x 171.00 x 61Days	(\$1,901,978)
(Cash received in July and August for water used in	
May and June based on \$171.00/mg)	
Additional Revenue required to cover Operations and	
Maintenance Expense through 6/30/17	\$9,502,296
Computation of Operations & Maintentance Rate for Fiscal Year 2017	
Sales Base	
Period $7/1/16$ to $4/30/17$ 304 days x 182.339 mgd =	55,431.06 mg
Required Operations & Maintenance Rate F/Y2017	
$\frac{\$9,502,296 \text{ mg}}{55,431.06 \text{ mg}} =$	\$171.00 mg

Schedule 12 - Debt Service Rate Component For NJEIT Loan Repayment

Effective July 1, 2016, (F/Y2017, July 1, 2016-June 30, 2017)

Total due on Principal and Interest

\$1,664,100/ year

Debt Service Rate for NJEIT Loan = $\frac{\$1,664,100/\text{ year}}{182.339 \text{ mgd x } 365 \text{ days}} = \25.00 /mg

*This rate may be subject to future adjustments based on actual loan terms.

Schedule 13 - Capital Improvement Program Fiscal Years 2016-2020

	ESTIMATED	Period			Rate Assumption \$33	\$33	\$38	\$38	\$38
	PROJECT	First	Priority	Prior	FY	FY	FY	FY	FY
PROJECT	COST	Identified		Years	2016	2017	2018	2019	2020
Refurbishment of the Main Pumps & Motors 1 & 6	\$ 1,300,000	2008	High	872,668	427,332				
Asset Management Plan for SBPS	\$ 220,000	2009	High	211,041	8,959				
Dredging Kingston & Amwell Road - Design engineering only	\$ 1,600,000 \$ 1,500,000	2006 2006	High	1,385,983	150,000	64,017	1 500 000		
Dredging Kingston & Amwell Road - Rt 202 Stockpile site only Dredging Kingston & Amwell Road - Construction engineering (bond)	\$ 1,500,000 \$ -	2006	High High	-			1,500,000		
Dredging Kingston & Aniwell Road - (bond)	<u> </u>	2006	High	-					
Lambertville Multi-Use Trail	\$ 187,934	2000	High	181,934	6,000				
Rehab.Western Embankment Stockton Borough	\$ 3,000,000	2006	High	158,353	200,000	800,000	1,841,647		
Rehab Swan Creek Culvert & Aqueduct new project incl culvert liner work	\$ 1,500,000	2015	High	-	200,000	400,000	900,000		
Rehabilitation of the Cherry Tree Lane Spillway	\$ 1,500,000	2010	High	105,745	750,000	644,255			
Improvements at Canal Office	\$ 1,200,000	2010	High	887,026	312,974				
Dam Improvements as recommended by TRB (preliminary eng only)	\$ 2,093,944	2013	High	1,505,916	588,028				
Engineering for RV Dike post 2015 TRB	\$ 350,000	2015	High	-	350,000				
Design improvements to RV dams - Design engineering only	\$ 3,000,000	2015	High	-	1,500,000	1,500,000			
Round Valley Dam Improvements - (bond)	\$ -	2015	High						
Construction engineering management for RV dam improvements (bond) QA/QC for design of RV dam improvements	\$ - \$ 500,000	2015 2015	High High	-	300,000	200,000			
QA/QC for construction of RV dam improvements (bond)	\$ <u>500,000</u> \$ -	2013	High	-	500,000	200,000			
Rehabilitate hydraulic valve on RV South Dam low level release	\$ 300,000	2015	High	-	100,000	200,000			
Rehabilitate hydraulic valve on RV South Dam low even release Rehab 10-inch cast iron pipe connect RV-S dam vault to Forcemain	\$ 300,000	2015	High	-	100,000	200,000	60,000	240,000	
Rehabilitation of Carnegie Lake Creek Aqueduct	\$ 1,500,000	2015	High		100,000	200,000	1,200,000	_ 10,000	
New 2D Inundation mapping for Round Valley and Spruce Run Reservoir	\$ 500,000	2015	High		500,000		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Rehab of Ten Mile Waste Gate	\$ 150,000	2010	High		150,000				
Dredging of Intake Pond at SBPS	\$ 600,000	2005	High	-	150,000	450,000			
	\$ 21,301,878								
Rehab of Upper Canal Embankment - Raven Rock to Prallsville	\$ 4,250,000	2006	Med High	90,532	100,000	1,250,000	1,250,000	1,559,468	
Rehab of Canal Flow Control Structures Griggstown and 10-Mile Locks	\$ 1,500,000	2000	Med High				100,000	1,000,000	400,00
Refurbishment of the Main Pumps & Motors 5 & 7	\$ 1,300,000	2008	Med High		150.000	300,000	1,000,000		
Removal of Sediment from Rt. 1 Conduit Replacement of Ice Deflectors at SBPS	\$ 400,000 \$ 75,000	2013 2014	Med High Med High		150,000 50,000	250,000 25,000			
Rehab of the Landing Lane Spillway	\$ 500,000	2014 2013	Med High		200,000	300,000			
Repair of Pipe at Whitehead Road	\$ 500,000	2013	Med High		200,000	500,000		500.000	
Rehabilitation Work at Washington Crossing Spillway	\$ 200,000	2012	Med High					200,000	
Washington Crossing Waste Gate Repair / Replacement	\$ 150,000	2015	Med High		150,000				
Security System Upgrade	\$ 125,000	2003	Med High		25,000	25,000	25,000	25,000	25,00
	\$ 9,000,000								
Alexauken Creek Aqueduct	\$ 750,000	2015	Medium					500,000	250,00
Roof Replacement North & South Towers	\$ 100,000	2011	Medium				100,000		
Replacement of Through the Wall HVAC Units in SRA	\$ 150,000	2011	Medium			150,000			
Rehab of Culvert at Station 2550+90 (1 mile upstream of 10-mile)	\$ 700,000 \$ 900,000	2008	Medium						700,00
Rehab of Traprock Spillway	\$ 900,000 \$ 2,600,000	2010	Medium						900,00
Dredging between Landging Lane and Route 18 - engineering	\$ _	2007	Low						
Dredging of Canal Between Lambertville and Route 1	\$ -	2007	Low						
Dredging of Canal Between Answell Road and 10 Mile	\$ -	2015	Low						
Construction Bedload Stone Trap @ Wickecheoke Creek	\$ -	1995	Low						
Cutoff Wall in Shipetaukin Creek Guard Bank	\$ -	2005	Low						
Wickecheoke Creek Gates Abandonment	\$ -	2015	Low						
Rehab of Waste Gate d/s of 10 Mile - woodwork on façade	\$ -	1990	Low						
Rebuild Stone Embankment at the 10 Mile Waste Gate	\$ -	1990	Low						
Rehab of Gold Run Spillway	\$ -	2008	Low						
Rehab of 6-Mile Run Culvert Headwall	\$ -	2008	Low						
Carnegie Lake Culverts Investigation / Isolation Raven Rock retaining wall downcanal of Lock	\$ - \$ -	2015 2015	Low Low						
		2015							
Refurbishment of the Main Pumps & Motors 4 & 8 Refurbishment of the Main Pumps & Motors 3 & 9	\$ - \$ -	2013	Low Low						
Refurbishment of the Main Pumps & Motors 2 & 10	\$ -	2015	Low						
Canal Culvert Rehabilitation 2249+79 (Suydam)	\$ -	2015	Low						
Canal Culvert Rehabilitation 2661+86 (Randolph Brook)	\$ -	2015	Low						
Canal Culvert Rehabilitation 2992+34 (Mile Run Culvert)	\$ -	2015	Low						
Concrete Repairs at the Sullivan Way Aqueduct	\$ -	2007	Low						
Rehab of Spillway u/s of Griggstown Lock	\$ -	2010	Low						
Rehab of the Four Mile Spillway	\$ -	2010	Low						
Pipeline Evaluation - Whitehouse Release Pipeline	\$ -	1990's	Low						
Pipeline Evaluation - RV Force Main	\$ -	1990's	Low						
	\$ -								
TOTAL	\$ 32,901,878		-	5,399,198	6,468,293	6,758,272	7,976,647	4,024,468	2,275,00
IVIAL	φ 32,901,0/8		-	5,399,198	6,468,293 11,136,877	6,758,272	1,199,273	4,024,408	2,275,00 36,81

Balance CIP

The estimated project costs listed includes engineering, cultural, construction and miscellaneous expenses. Funds in CIP as of June 30, 2015 is \$13,411,879 plus \$1,250,000 from Capital Improvements Investments Estimated cost for dredging of the Canal between Kingston & Amwell Road is \$35,000,000 plus engineering & Cultural Resource inspections during construction.

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RARITAN BASIN SYSTEM CAPITAL IMPROVEMENT PROGRAM Fiscal Years 2016 – 2020 Updated – August 2015

The following is a description of projects that the Authority anticipates being funded from the Capital Improvement Program in Fiscal Years 2016 - 2020. Discussion also includes projects that may be delayed beyond FY 2020 due to funding.

#	HIGH PRIORITY
1	Refurbishment of the Main Pumps & Motors 1 & 6
2	Asset Management Plan for SBPS
3	Dredging Kingston & Amwell Road - Design engineering only
4	Dredging Kingston & Amwell Road - Rt 202 Stockpile site only
5	Dredging Kingston & Amwell Road - Construction engineering only (bond)
6	Dredging Kingston & Amwell Road - Construction \$35M (bond)
7	Lambertville Multi-Use Trail
8	Rehab.Western Embankment Stockton Borough
9	Rehab Swan Creek Culvert & Aqueduct new project incl culvert liner work
10	Rehabilitation of the Cherry Tree Lane Spillway
11	Improvements at Canal Office
12	Dam Improvements as recommended by TRB (preliminary eng only)
13	Engineering for RV Dike post 2015 TRB
14	Design improvements to RV dams - Design engineering only
15	Round Valley Dam Improvements - Construction (bond)
16	Construction engineering management for RV dam improvements (bond)
17	QA/QC for design of RV dam improvements
18	QA/QC for construction of RV dam improvements (bond)
19	Rehabilitate hydraulic valve on RV South Dam low level release
20	Rehab 10-inch cast iron pipe connect RV-S dam vault to Forcemain
21	Rehabilitation of Carnegie Lake Creek Aqueduct
22	New 2D Inundation mapping for Round Valley and Spruce Run Reservoir
23	Rehab of Ten Mile Waste Gate
24	Dredging of Intake Pond at SBPS
	MEDIUM / HIGH PRIORITY
25	Rehab of Upper Canal Embankment - Raven Rock to Prallsville
26	Rehab of Canal Flow Control Structures Griggstown and 10-Mile Locks
27	Refurbishment of the Main Pumps & Motors 5 & 7
28	Removal of Sediment from Rt. 1 Conduit
29	Replacement of Ice Deflectors at SBPS

30	Rehab of the Landing Lane Spillway
31	Repair of Pipe at Whitehead Road
32	Rehabilitation Work at Washington Crossing Spillway
33	Washington Crossing Waste Gate Repair / Replacement
34	Security System Upgrade
	MEDIUM PRIORITY
35	Alexauken Creek Aqueduct
36	Roof Replacement North & South Towers
37	Replacement of Through the Wall HVAC Units in SRA
38	Rehab of Culvert at Station 2550+90 (1 mile upstream of 10-mile)
39	Rehab of Traprock Spillway
	LOW PRIORITY
40	Dredging between Landging Lane and Route 18 - engineering
41	Dredging of Canal Between Lambertville and Route 1
42	Dredging of Canal Between Amwell Road and 10 Mile
43	Construction Bedload Stone Trap @ Wickecheoke Creek
44	Cutoff Wall in Shipetaukin Creek Guard Bank
45	Wickecheoke Creek Gates Abandonment
46	Rehab of Waste Gate ds of 10 Mile - woodwork on façade
47	Rebuild Stone Embankment at the 10 Mile Waste Gate
48	Rehab of Gold Run Spillway
49	Rehab of 6-Mile Run Culvert Headwall
50	Carnegie Lake Culverts Investigation / Isolation
51	Raven Rock retaining wall downcanal of Lock
52	Refurbishment of the Main Pumps & Motors 4 & 8
53	Refurbishment of the Main Pumps & Motors 3 & 9
54	Refurbishment of the Main Pumps & Motors 2 & 10
55	Canal Culvert Rehabilitation 2249+79 (Suydam)
56	Canal Culvert Rehabilitation 2661+86 (Randolph Brook)
57	Canal Culvert Rehabilitation 2992+34 (Mile Run Culvert)
58	Concrete Repairs at the Sullivan Way Aqueduct
59	Rehab of Spillway u/s of Griggstown Lock
60	Rehab of the Four Mile Spillway
61	Pipeline Evaluation - Whitehouse Release Pipeline
62	Pipeline Evaluation - RV Force Main

<u>Item #1 – Refurbishment of Main Pumps and Motors at SBPS</u> <u>& Item #2 – Asset Management Plan for SBPS</u>

The South Branch Pumping Station (SBPS) was constructed in the 1960's to pump water into Round Valley Reservoir. The main pumps, motors and associated equipment at the station are infrequently operated (usually one month a year to maintain the pool elevation, as required). Maintenance pumping is done periodically to maintain the equipment. As the demand on Round Valley Reservoir increases, so will the need to pump water through the station. There may also be the need on the horizon to be able to reliably refill the reservoir following a period of sustained drawdown.

Approximately 1.9 billion gallons of water were pumped into Round Valley Reservoir during the April – May 2009 pumping program. Lessons learned from the program demonstrated the need to repair the baseplates under the pumps and motors to prevent movement and maintain alignment between the pumps and motors.

The Authority retained Hatch Mott MacDonald (HMM) to prepare an asset management plan for the SBPS and prepare specifications for the refurbishment of the pump units. All ten pumps have similar baseplate and alignment problems, but only two (pump assemblies 1 & 6) of the ten are being refurbished at the present time under the current contract.

Inspections of the motors also showed the deterioration of the stator winding insulation. Deterioration of the insulation of the stator windings is attributed to the age of the units and the humidity in the building. The extent of the deterioration in each unit is unknown because the entire stator cannot be inspected without full disassembly of the motors at an authorized shop. Other service requirements to the units can only be ascertained when the units are removed and disassembled.

Refurbishment of the first two pump and motor assemblies was awarded to Longo Electrical-Mechanical, Inc. of Wharton, NJ in 2013 for an amount not to exceed \$1,239,700. Approval was authorized for allowance items specified in the bid documents for an amount not to exceed \$445,200. These allowance items are for parts needed for the pump refurbishment that cannot be determined until the units are undergoing refurbishment. To date only \$33,381.60 for the purchase of two casing rings was authorized from the allowance items.

It is anticipated that units 1 and 6 will be reinstalled and reconnected in the fall of 2015. Refurbishment of the next two units, units 5 and 7, is planned for FY 2017 and 2018. Pump assemblies 5 & 7 are slated to be the next pair of pumps refurbished by the Authority, once pumps 1 & 6 are reinstalled and successfully tested by the Contractor in the fall of 2015. An analysis of this refurbishment work will be conducted to formulate a "lessons learned" report and modify the scope and technical specifications as necessary to try to address some of the delays experienced by the Contractor while refurbishing units 1 & 6. With the foreseen sustained pumping periods on the horizon (due to anticipated reservoir drawdown and refilling in the near future), the demands on these pumps will increase, necessitating the continued refurbishment of the remaining pumps and motors.

Prior to start-up of the refurbished pumps, an electrical testing program of the primary power feeding the pumps must be completed. Staff is preparing a solicitation to retain an electrical testing firm to perform the testing as close to running the pumps as possible.

<u>Item #3 Dredging between Kingston and Amwell Road – Design Engineering</u> <u>Item #4 Dredging between Kingston and Amwell Road – Rt 202 Stockpile Site</u> <u>Item #5 Dredging between Kingston and Amwell Road – Construction Engineering (bond)</u> <u>Item #6 Dredging between Kingston and Amwell Road – Construction \$35M (bond)</u>

Flow in the 10.5-mile reach of the Canal between Lincoln Highway (Route 27 just east of Kingston) and Amwell Road in Franklin Township, Somerset County is being hindered by accumulated sediment. The flow restriction is aggravated by weed growth during the summer months. To compensate for these flow restrictions, the Canal is operated at a level that is higher than desirable and causes water to overtop normally dry spillways. Five major water purveyors divert water from the Canal, downstream of this area, including North Brunswick Township, NJ American Water, Middlesex Water Company, East Brunswick Township and the City of New Brunswick.

Staff took cross-sections in this reach during 2007 and 2008 to estimate the quantity of accumulated sediment. Analysis of the cross-sections indicated that an estimated 250,000 cubic yards of sediment have accumulated in the Canal and must be removed and properly disposed.

Additionally, the US Route 202 sediment stockpile site in Delaware Township, Hunterdon County (just north of Lambertville) is reaching capacity. Removal and disposal of 45,000 cubic yards of sediment is included as part of the dredging project.

Urban Dredging Consultants Joint Venture was selected to plan the dredging program including development and execution of a proactive public participation program. A bathymetric survey was conducted to confirm the quantity of sediment to be removed. The bathymetric survey confirmed the estimated quantity to be removed. Sediment cores were taken to determine the characterization of the material to be removed.

Urban Dredging considered the following four methodologies for the proposed dredging project mechanical excavation (in dry), mechanical dredging (in wet), hydraulic dredging with Geobags and hydraulic dredging with mechanical dewatering. All four considered methodologies have environmental concerns but hydraulic dredging methodologies reduce these concerns since the slurry would be conveyed in a pipe floating in the Canal that will carry the material to a temporary staging area for dewatering.

An Environmental Impact Assessment and the necessary public information meetings were held between 2010 and 2013. While not finalized, five access points and the staging area have been selected and the completion of the design documents is proceeding. The one major remaining factor to be decided is the disposal (final destination) of the dredged material.

Removal of sediment from this reach is planned for FY 2018 - 2020. The application for funding through the NJ Environmental Infrastructure Trust (NJEIT) will be resubmitted and formulated to cover the full estimated construction cost of the dredging and other allowable expenses currently estimated at \$40,000,000. The costs shown in the CIP include design costs and cultural resource services incurred before the loan is authorized. The Authority also solicited a preliminary cost proposal from the Engineer for full-time inspection and construction management (for the 3 years of construction), which can also be bonded with the Construction cost.

Removal and disposal of 45,000 cubic yards of sediment from the US Route 202 stockpile site cannot be funded through the NJEIT and is also included in this CIP. The estimated cost for removal and disposal of this sediment is \$1,500,000.

Item #7 - Lambertville Multi-Use Trail

A 36 foot section of the multi-use trail between Coryell and Bridge Streets in the City of Lambertville, Hunterdon County collapsed into the Canal in 2012. The multi-use trail is on the east side of the Canal and is a well-traveled path in the City. The area was temporarily stabilized and was covered with a tarpaulin to prevent further erosion. Repair of this section of the Canal embankment was a joint effort between the Authority and the State Park Service.

Repair of the embankment consisted of the installation of cantilevered steel sheeting driven from a parking lot across the Canal. All approvals required for this project were obtained and the bulk of the construction was completed in December 2014, with site restoration continuing into 2015.

Item #8 - Rehabilitation of the Western Embankment, Stockton Borough

The mile long reach of the Western Embankment between the Prallsville Lock at Station 155+00 and the railroad bridge crossing over the Canal at Station 205+00 is a narrow embankment that separates the Canal from the Delaware River. During extreme flooding events of the Delaware River, the embankment is threatened by the extreme floodwaters from the river. It was overtopped during major storm events in 2005 and again in 2006 where the embankment breached. In 2011, Tropical Storms Irene and Lee caused severe flooding of the Delaware River. While the embankment did not breach, over 1,000 linear feet of the embankment experienced slope failure on the Canal side due to the saturation of the embankment from the river, and significant amounts of material slid into the Canal compromising the cross-sectional area of the embankment.

Emergency actions were taken to prevent a breach of the embankment. These emergency actions included a quarry processed blend which was placed via conveyor belt from the opposite side of the Canal due to the unsafe nature of the embankment. The quarry processed blend was put in with varying levels of compaction. While a breach was prevented, additional long-term repair / reinforcement work on the embankment is required to reinforce the repairs. The embankment is compromised by extreme flooding events in the Delaware River resulting in the continued potential of further breaches. The embankment needs improvements to increase the factor of safety for resisting sliding due to erosion caused by the saturation that occurs when the river

approaches the top of the embankment, or the threatens to overtop the entire embankment. The possibility of installing sheeting along the entire length of this stretch is being considered. Other alternatives to be considered include adding fill to the embankment or improvement of the stone armor of the embankment.

A professional engineering services contract was awarded in March 2014 to a team led by TranSystems. Hunter Research was selected as the Cultural Resource consultant for the project. To date, borings were taken through the embankment and preliminary meetings were held with the permitting agencies. The Authority is eagerly awaiting the submittal of a Schematic Design Report from the consultant, including a cost-benefit analysis outlining the options and recommendations of the consulting engineering team. At this time, an estimated construction cost of \$3M is included in the CIP, and is projected in FY 2017 & FY 2018.

Item #9 - Rehabilitation of the Swan Creek Culvert & Aqueduct

The Swan Creek Aqueduct and culvert is located at approximate Station 363+00 on the Canal in the City of Lambertville, Hunterdon County. The aqueduct structure was erected to carry the Canal over Swan Creek with the secondary function of acting as a spillway for the Canal. An adjacent culvert also contributes to the conveyance of Swan Creek under the Canal, the towpath, and the former Belvedere-Delaware Railroad. The aqueduct is a concrete and masonry structure that was partially rehabilitated in 1989. The waste gates were replaced, some of the masonry was reconstructed, and some of the existing concrete was repaired with shotcrete.

Repairs were made to the structure in 2006 following major flooding events on the Delaware River. Significant leakage occurred through the masonry wall on the southeast part of the structure where Swan Creek enters the opening under the aqueduct. A contractor was hired on an emergency basis to pump pressure grout behind the wall where a sinkhole had formed resulting from the seepage. The grout significantly slowed the leakage, but did not stop it completely. The voids left by the fallen stones still remain.

A jet grout seepage cutoff wall was constructed in April 2009 to eliminate seepage through the wingwall. Most of the seepage was stopped with the jet grout seepage cutoff wall. An additional phase of repairs was conducted in 2014, which included rehabilitation of masonry and concrete and replacement of the bent stem for one of the two waste gates.

The scope of work for the 2014 repair project was reduced significantly during construction due to dewatering concerns, as well as safety concerns. The corrugated metal liner in the North culvert shows signs of being corroded which limits the amount of work that could be conducted safely in the culvert.

A Scope of Services is being developed to retain a new consulting engineer to design a new structural liner to guard against further deterioration and concrete spalling. The new design engineer will have to address all of the concerns developed during the 2014 construction, as well as consider design options for the culvert rehabilitation and reinforcement which will not significantly reduce the volumetric flow rate capacities of the culverts.

Item #10 - Rehabilitation of the Cherry Tree Lane Spillway

The Cherry Tree Lane Spillway is located at Station 1269+65 of the Canal approximately 650 feet upstream of the intersection of Whitehead Road and the Canal in Lawrence Township. The spillway structure is located along the Canal right bank with a longitudinal centerline oriented in a northeast direction. The spillway consists of a 201-foot long concrete control overflow weir at elevation 55.5 with a central spillway crest, approximately 82 feet long, at elevation 55. The spillway discharges to a concrete apron that conveys the flow to an arched culvert under the Route 1 Highway (Trenton Freeway Section).

In general, the spillway was found to be in poor condition. The concrete is spalled and cracked, rebar is exposed, and there are significant sections that exhibit mortar loss and exposed concrete aggregate. The crest is eroded, spalling and crumbling. The downstream concrete outlet apron has large voids, is cracked and shows exposed rebar and concrete aggregate. In 2013, a large sinkhole downstream of the spillway was backfilled by Canal maintenance crews.

The Authority proposed rehabilitation of the spillway and the outlet discharge apron to eliminate the current Canal unwanted water spillage and the unsafe structural conditions. The spillway is still functional, but the progressive deterioration threatens its structural integrity. Failure of the spillway would adversely affect the water supply function of the Canal.

In 2014, a professional services contract was made with JMT, who developed a schematic design report for full repair of the structure and presented the report to the DRCC. Following their initial inspections which revealed that the foundation material under the spillway structure was eroded and undermined, an emergency repair was conducted on the spillway in December 2014. The project is receiving all of the required approvals from the DRCC, SHPO, and the NJDEP Parks Department prior to moving into construction in FY 2016 / FY 2017.

Item #11 - Improvements at the Canal Office

The Canal Office was constructed in 1992 in Ewing Township, Mercer County. It was identified that this facility required rehabilitation of the roofing system; the access driveway and parking areas; and the fuel dispensing system. The roofing system had developed numerous leaks that had been patched but a reroofing project was warranted to address the compounding problems. The asphalt driveway and parking area has settled in many places and drainage was a problem. The fuel dispensing system was deteriorated and needed to be replaced. The tanks for the diesel and unleaded gas storage were not affected by this situation, only the gas dispensing island and equipment.

A professional services contract was awarded to Hatch Mott MacDonald in July 2011. Plans and specifications were prepared and permit applications were submitted to the Department of Community Affairs (DCA). Construction has been ongoing and the building improvement construction project is nearing conclusion as of August 2015.

Item #12 RV Dam Improvements as recommended by TRB (preliminary engineering only) Item #13 Engineering for RV Dike post 2015 TRB Item #14 Design improvements to RV dams - Design engineering only Item #15 Round Valley Dam Improvements - Construction \$60M (bond) Item #16 Construction engineering management for RV dam improvements (bond) Item #17 QA/QC for design of RV dam improvements Item #18 QA/QC for construction of RV dam improvements (bond)

In connection with the 2013 Formal Dam Inspection, the Authority convened a Technical Review Board (TRB) composed of experts in the field of dam construction on limestone formations; evaluation of critical dam construction features; and geology as they relate to dam construction. This was the first TRB assembled to review information about the construction and operation of the Round Valley Reservoir (dams were constructed in the 1960's) and the first one in 20 years to look at operations data at Spruce Run Reservoir. The TRB recommended additional information gathering on the construction of the dams and the installation of piezometers at the three embankments at Round Valley Reservoir and additional piezometers to be installed at Spruce Run Dam. The TRB recommended that the Side Scan Sonar conducted in the mid-1980s at the Spruce Run Reservoir be repeated and that the drainage pipes at the toe of the SR Dam be visually inspected by remotely operated cameras.

The contract with Gannett Fleming was amended to oversee the performance of the work recommended by the TRB including subcontracting the specialty drillers for the installation of the piezometers at all four dams and separately subcontracting for the performance of the Side Scan Sonar.

The Authority was tasked with compiling and digitizing all available records of the Round Valley Dams. A searchable database was constructed to assist the Board in the analysis of all of the available data pertaining to Round Valley.

A second meeting of the TRB was conducted in July which was specifically slated to conduct a Potential Failure Mode Analysis on the three Round Valley Embankments (RV South, RV North, and RV Dike).

The final reports pertaining to this July 2015 PFMA / TRB meeting are pending as of the writing of this CIP document; however, the Authority has already begun planning for a large construction project to eliminate many of the concerns raised in the PFMA, which are endorsed by the Authority to ensure the long-term stability and reliability of the structures.

Improvements would be made to all three of the Round Valley embankments. The cost of these improvements will have to be bonded by the Authority, with preliminary cost estimations (with contingencies) in excess of \$60M.

The construction and planning of this project is beyond the scope of this CIP document, and is well documented in the existing draft reports. In an effort to separate the cost of this overall project into categories, Items #12 through #18 represent various costs associated with the continuing engineering work, some of which will have to be funded through the CIP, while all

costs directly associated with construction project engineering management and inspection will be bonded with the construction cost.

Item #19 - Rehabilitate hydraulic valve on RV South Dam low level release

The existing Round Valley low level release valve was last serviced in 1992 when a hydraulic valve actuator and hydraulic control system were installed at the Round Valley South Tower. This hydraulic system, with hoses reaching down to 180 feet below the water surface to the low water release valve, replaced the out-of-service original control system. The existing hydraulic lines are showing signs of leakage while under operating pressures, and must be replaced if the leak cannot be located.

The replacement of this hydraulic line to the underwater actuator must be done with commercial divers due to the extreme depths. A consulting engineer will be procured to analyze the entire system and determine if any additional repairs are required. They will also make recommendations regarding the selection of a more modern synthetic oil to replace the existing mineral oil, which is not ideal for this application and may have exceeded its useful service life. The existing low-level outlet valve has been verified to be closed by opening other downstream valves in the vault.

Item #20 - Rehab 10-inch cast iron pipe connect RV-S dam vault to Forcemain

The existing 10-inch cast iron pipe connection from the 108-inch RV Force Main to the RV South Dam Vault was installed as part of the original construction of the Force Main. Authority staff have confirmed that an underground leak exists somewhere in this 10-inch cast iron pipe, through the use of dye testing. This pipe is installed underground with flange connections which are prone to leak in buried applications. The pipe is also subject to internal corrosion. It must be determined if the best course of action will be to line the pipe with a CIP lining material or to replace it by direct burial. Since the pipe is currently dewatered and valved off at the Force Main, there is not a great urgency to complete the project.

Item #21 - Rehabilitation of Carnegie Lake Creek Aqueduct

The Carnegie Lake Aqueduct comprises a concrete structure that crosses over the Millstone River at Station 1739+00 of the D & R Canal.

Previous inspections indicated that the aqueduct structure is not structurally deficient with the exception of minor cracking and concrete spalling at isolated locations that may not compromise the structure's integrity. A small leak was observed at the northerly wing-wall of the aqueduct near the lake's staff gauge.

It is the intention to follow up on the development of the Canal leak into the lake, and to repair concrete cracking and spalling. It is difficult to determine the overall condition of the aqueduct structure as well as the supporting piles because the river level is often so high that it submerges the majority of the concrete aqueduct (approximately 1 foot below the top of the aqueduct walls during high river flows). Since it is difficult to assess the structure due to the water level, the

Authority is first conducting an analysis of the structure by procuring a diving services contractor to analyze the condition. It is anticipated that repairs will have to be made during the next three (3) years.

<u>Item #22 - New 2-dimensional (2-D) Inundation mapping for Round Valley and Spruce</u> <u>Run Reservoir</u>

In 2014 and 2015 the Authority upgraded all of the inundation mapping (Emergency Action Plan attachments) for all four (4) of the high hazard dams and the Spruce Run and Round Valley Reservoir Complex in Clinton. This mapping upgrade constituted taking the old inundation model hatched area data (one dimensional, 1-D) which was originally drawn onto high scale USGS mapping and transferring it into a GIS overlay of modern NJ State aerial images. The result of this work produced maps which were overwhelmingly more detailed than the previous mapping, and shows the location of residential and commercial structures which may be affected by flooding during a dam breach. As of August 2015 these maps have been copied and the mapping and EAP documents are being prepared for shipment to the County and Municipal OEM offices.

The remaining drawback regarding these maps is that the hatched inundation areas are still dependent upon the 1-D computational data from 1980. The 1-D mapping is based on empirical calculations based on cross-sections taken at large increments along the rivers. It is uncertain how accurate this modeling would be in the event of an actual emergency (currently, OEM's are instructed to evacuate an area larger than is shown on the mapping).

The Authority feels that it is prudent to invest in a new study where computers model the flows based on 2-D topographic squares in the flood zones. The degree of accuracy far surpasses the existing 1-D studies. Modern deliverables will also include animations as well as color coded mapping layers depicting depth of water in any particular area in a time sequenced video. It is also possible in this modern era to better simulate the effect of tidal fluctuations on the inundation area, which was not possible to analyze at the time of the initial models.

The Authority has been researching computer program options and deliverables, and planning the anticipated scope of work for several months to procure a consultant engineering firm to construct this inundation mapping model. This modeling effort is projected for FY 2016, and may stretch into FY 2017, at which time updated EAP inundation maps will be redistributed to municipal and county OEM's.

Item #23 - Rehabilitation of the Ten Mile Waste Gate

The Ten Mile Waste Gate is located just upcanal of the Ten Mile Lock. It is a concrete structure with two sluice gates that are routinely opened and closed to adjust discharge flow from the Canal to the Millstone River near its confluence with the Raritan River. Canal flow in excess of that required by downcanal water purveyors is used to augment flow in the Raritan River. The existing waste gates were installed in 1958 and are in need of replacement. One of the two gates is inoperable and the second gate is difficult to operate.

The Authority is considering the option of constructing a redundant additional stop log or sluice gate system on the downstream side of the culvert to facilitate the replacement of these gates by divers. Replacement of the gates is scheduled for FY 2016.

Item #24 - Dredging of Intake Pond at the South Branch Pumping Station

The intake pond at the South Branch Pumping Station (SBPS) was designed with a capacity of 21,000,000 gallons during low flow pumping periods. Sediment has accumulated in the pond reducing its capacity and thereby reducing the efficiency of the pumping operation of the SBPS. Sediment was last removed from the pond in 1986 at a cost of \$265,000. Accounting for inflation, the estimated cost to remove the stone and sediment is \$600,000.

In 1986, material was removed from the pond in the dry and was stockpiled in a temporary stockpile site at the station where it is removed and used as needed. With the current flood hazard area restrictions, this stockpile site cannot be used for the proposed project.

Item #25 - Rehabilitation of the Upper Canal Embankment - Raven Rock and Prallsville

Four major flood events in the Delaware River since September 2004 have overtopped the Canal embankment between the Raven Rock and Prallsville where the Canal and the River become one body of water during floods. The embankment that separates the Canal from the River in that stretch is very narrow and is inaccessible by vehicles, making maintenance a challenge (by boat). Several areas in this stretch have experienced deterioration, typically initiated by fallen trees, which is exacerbated by high water events where, at times, the River and the Canal become one body of water.

Following the storms of 2011, these areas were attended to by Authority forces utilizing emergency measures to prevent furtherance of the ongoing erosion. Since all of the work had to be done by hand, using barges to supply materials, riprap and cement bags were used to close openings in the embankment. These temporary repairs require replacement with more substantial and historically appropriate materials.

The Authority identified eight primary locations in this reach that required investigation, design and repair. In addition to these primary locations, the consultant was charged with inspecting the entire embankment from Raven Rock to Prallsville and identifying any other additional locations that should be considered for repair.

A professional services contract was awarded to a team led by GZA GeoEnvironmental as the engineers for the repairs of the embankment. PS&S was selected as the Cultural Resource consultant for the project.

A Final Schematic Design Report was submitted on July 2, 2014. The GZA team identified and prioritized seventeen additional areas that warrant attention. Conceptual approval has been received from the State Historic Preservation Office and the Delaware and Raritan Canal Commission.

GZA's preliminary conceptual construction cost estimate for the eight primary damaged embankment repairs is approximately \$2.52 million. However, the budget has been increased due the expectation that new repair areas will need to be addressed based on recent inspections. Staff will need to prioritize repairs of the eight originally noted sites and the 17 additional areas. Construction of this project is anticipated to take place over several years due to access, environmental, and wildlife constraints).

Item #26 - Rehabilitation of Canal Flow Structures at the Griggstown and Ten Mile Locks

The Canal was converted into a water supply source in the 1940s and 1950s. This included conversion of the original locks into flow control structures with sluice gates to regulate the flow. There are nine flow control structures located along the length of the Canal that were inspected and evaluated by Schnabel Associates in 2001 to determine the required rehabilitation. The structures include Raven Rock Lock, Prallsville Lock, Lambertville Lock, Kingston Lock, Griggstown Lock, Ten Mile Lock, South Bound Brook Lock, Five Mile Lock and the Ten Mile Waste Gate (up Canal).

In addition to the replacement of many of the flow control gates, there are a variety of repairs needed at each of the sites. The deficiencies range from minor cracking and spalling of the concrete to repair of undermining of the locks.

The Authority plans to phase in gate replacement and structural rehabilitation based on operational priorities. Replacement of the flow control gates and other repairs at the Griggstown and Ten Mile Locks are forecasted for construction in FY 2019.

Item #27 – Refurbishment of Main Pumps and Motors No. 5 & 7

The South Branch Pumping Station (SBPS) was constructed in the 1960's to pump water into Round Valley Reservoir. The main pumps, motors, and associated equipment at the station are infrequently operated (usually one month a year to maintain the pool elevation, as required). Maintenance pumping is done periodically to maintain the equipment.

Approximately 1.9 billion gallons of water were pumped into Round Valley Reservoir during the April – May 2009 pumping program. Lessons learned from the program demonstrated the need to repair the baseplates under the pumps and motors to prevent movement and maintain alignment between the pumps and motors.

The Authority retained Hatch Mott MacDonald (HMM) to prepare an asset management plan for the SBPS and prepare specifications for the refurbishment of the pump units. All ten pumps have similar baseplate and alignment problems, but only two (pump assemblies 1 & 6) of the ten are being refurbished at the present time under the current public contract.

Inspections of the motors also showed the deterioration of the stator winding insulation. Deterioration of the insulation of the stator windings is attributed to the age of the units and the humidity in the building. The extent of the deterioration in each unit is unknown because the entire stator cannot be inspected without full disassembly of the motors at an authorized shop.

Other service requirements to the units can only be ascertained when the units are removed and disassembled.

Refurbishment of the first two pump and motor assemblies was awarded to Longo Electrical-Mechanical, Inc. of Wharton, NJ in 2013 for an amount not to exceed \$1,239,700. Approval was authorized for allowance items specified in the bid documents for an amount not to exceed \$445,200. These allowance items are for parts needed for the pump refurbishment that cannot be determined until the units are undergoing refurbishment. To date only \$33,381.60 for the purchase of two casing rings was authorized from the allowance items.

It is anticipated that units 1 and 6 will be reinstalled and reconnected in fall of 2015. Refurbishment of the next two units, units 5 and 7, is planned for FY 2017 and 2018. Once completed, an analysis of the refurbishment work will be conducted to formulate a "lessons learned" report and modify the scope and technical specifications for future pump and motor refurbishments.

Item #28 - Removal of Sediment from Route 1 Conduit

The US Route 1 Conduit is a twin-barrel, 13' x 8' concrete box culvert constructed in the 1950s. It is approximately 6050 feet long carrying the Canal water under U.S. Route 1 from Southard Street to the north of Mulberry Street, in Trenton, NJ. This section of roadway is locally named the "Trenton Freeway."

In addition to carrying the Canal water, this conduit serves as the storm drainage outlet for the highway directly above and the 300 +/- acre area immediately west of the conduit in the City of Trenton. As a result of highway storm drains and local storm drainage pipes discharging into the westerly barrel of this enclosed section of the Canal, sediment accumulates in the conduit and interferes with its flow carrying capacity. This is a recurring problem necessitating removal of the sediment. Approximately 6,000 cubic yards of sediment were removed from the west barrel in the 1980's.

Currently, the flow carrying capacity of the conduit is again being impacted by accumulated sediment. The Authority is working with the NJDOT to develop an approach to removing the sediment that is acceptable to all involved parties.

Item #29 - Replacement of Ice Deflectors at the SBPS

There are 12 steel wide flange beams set in a grout bed that function as an ice deflector at the release works of the channel of the South Branch Raritan River at the South Branch Pumping Station. The ice deflectors protect the structure and the flow gates from damage from ice and trees floating down the river. They are deteriorating and need to be replaced.

Replacement of the beams is planned for FY 2016 or FY 2017.

Item #30 - Rehabilitation of the Landing Lane Spillway

The Landing Lane Spillway is located immediately upcanal of the Landing Lane Bridge in the City Of New Brunswick, Middlesex County. This spillway was rehabilitated in 1991 with the construction of a concrete cutoff wall in the Canal to control leakage from the Canal. Timber planks were installed on the concrete wall for historical appearance. The spillway was finished with hand-placed stones across the crest and the river side slope. The stones were laid in a sand bed without the benefit of mortar. The stones are being dislodged and the spillway crest needs to be stabilized. The planned rehabilitation will be to remove all stone from the crest, pour a concrete slab and reset the stones with ties to the concrete slab, similar to recently completed Canal spillways.

Item #31 - Repair of Pipe at Whitehead Road

A sinkhole developed in the towpath 1,600 feet upcanal from Whitehead Road in Lawrence Township. This location is 3,600 feet downcanal of the outlet of the Trenton Conduit. The sinkhole developed over a failed storm drainage pipe that goes under the Canal and US Route 1 and discharges into the Assunpink Creek. The sinkhole caused erosion in the Canal slope and the Canal path. Staff filled the sinkhole with 6-inch riprap and regraded the area.

The pipe was not repaired at this time and will necessitate additional planning and action. The initial step in repairing the pipe is the need to determine who is responsible for the pipe and assess the condition of the entire pipe length.

Item #32 - Rehabilitation Work at the Washington Crossing Spillway

The Delaware River Joint Toll Bridge Commission advised the Authority on June 6, 2013 of clear seepage coming from their historic stone bridge abutment at the Washington's Crossing Bridge. The Authority had been operating the Canal at raised levels in that vicinity to address a flow problem in the Trenton area. The higher than normal levels of the Canal caused the Washington Crossing spillway, which is directly adjacent to the abutment, to operate (overflow).

The concrete spillway structure has two motor operated waste gates that can be operated on site or remotely from the Canal Office. The spillway and associated waste gates were designed to help regulate the amount of water in the Canal and to provide a controlled discharge in periods of high water. The concrete spillway is approximately $152' \pm \log$ and $37' \pm wide$, consisting of two (2) concrete spillway boxes with twenty (20) 36''x40'' vertical elliptical reinforced concrete pipes, and one (1) 68''x75'' reinforced concrete pipe. A concrete apron in front of the 68''x 75'' concrete pipe handles the flow of water coming through the pipe and the stone apron in front of the rest of the pipes protect the embankment from erosion. Hand placed stonewalls border the aprons.

As a temporary measure, staff opened the waste gate associated with the spillway and was able to draw the Canal level down sufficiently to stop discharge over the spillway. The abutment seepage stopped. At that time, it was unknown if the seepage was a result of the elevated Canal levels causing increased pressure or simply the presence of the water discharging over the spillway through the pipes below and hitting the abutment. Authority staff placed sandbags on the spillway crest and is controlling the water level in the Canal by operating the waste gates. This temporary stopgap measure is working to eliminate the seepage. Experience from the earlier trials has shown that the seepage returns if the sandbags are removed or washed off and flow discharges from the northern most pipes. Seepage may cause damage to the spillway structure, the bridge tenders house or the bridge abutment as a result of removal of fines by piping or undermining.

Staff is continuing to monitor the situation and to investigate alternatives for controlling the flowing water.

Item #33 - Washington Crossing Waste Gate Repair / Replacement

One of the waste gates at Washington Crossing spillway, which were replaced in 2000, will not seal properly after being opened. The Authority is procuring a diving services contractor to perform an underwater investigation to determine if the problem is mechanical, with the seal, or if the gate is obstructed by sediment buildup around the gates.

Item #34 - Security System Upgrade

A vulnerability assessment of the Authority's facilities was completed in 2003. This project includes continuing implementation of improvements recommended in the vulnerability assessment. Buoys were installed around the tower at the Spruce Run Reservoir in 2015.

Other protective measures are also being considered as recommended in the vulnerability assessment.

Item #35 – Alexauken Creek Aqueduct

Paralleling the western side of the Alexauken Creek Aqueduct is the former Belvidere-Delaware Railroad concrete bridge, which passes over the creek immediately adjacent to the 1940's concrete aqueduct trunk.

The Aqueduct's northeast, center and southeast 1834's historic stone abutments were rehabilitated in 1989-1990. Recent inspections revealed that all the abutments have missing mortar on the lower areas, which are continuously exposed to the water line action. In addition, the northeast abutment shows vegetation covering the structure on the creek's face.

It is noted that a new Canal leak was detected below the northeast abutment's masonry. A further investigation on May 10, 2007 revealed that water is percolating between the joint of the concrete aqueduct northeast flap wall and the stone masonry abutment. This erosive process will lead to a progressive failure of the stone masonry structure as it has been observed for the southwest Canal embankment. The aqueduct's embankments are in fair condition with the exception made of the southwest Canal embankment, which is leaking water from the Canal into the creek.

It is recommended to set up a corrective action on the new detected leak at the north east end of the aqueduct.

Item #36 - Roofing Replacement at the North & South Towers

The built-up roofing at the North and South Towers at Round Valley Reservoir are approaching 30 years old, they were replaced in 1984. There are also some masonry crack repairs required in the brick work around the sides of the towers, which should be added to the scope of work for this project, as there is no safe way for Authority personnel to conduct these repairs.

Item #37 - Replacement of the through the wall HVAC units at the Administration Building

The 26 through the wall HVAC units at the Administration Building are reaching the end of their useful life. They were installed in 1994. Replacement parts are becoming difficult to get and the units are constantly in need of service. Replacement of the units is planned for FY 2017.

Item #38 - Rehabilitation of Culvert at Station 2550+90 (1 mile upstream of 10-mile)

The unnamed culvert at Station 2550+90 is located in Franklin Township, Somerset County approximately one mile east of Weston Causeway and ¼ mile east of School House Road. Boswell Underwater Engineering inspected the culvert in September 2007. The inspection identified numerous areas exhibiting missing mortar pointing and stone along both the walls and crown of the structure. Missing stone were also identified on both the upstream and downstream headwalls. They classified the culvert as being in fair condition and recommended repairs be made to the culvert barrel as well as both headwalls.

Item #39 - Rehabilitation of the Traprock Quarry Spillway

The Traprock Quarry Spillway between Station 1925+90 and Station 1929+20 of the Canal in Franklin Township, Somerset County located approximately ³/₄ mile upcanal from Route 518 is in poor condition and warrants rehabilitation. The 330-foot long spillway was built as part of the original Canal construction in the 1830's and is part of the Canal's flood control system into the Millstone River. Engineering services are required in order to inspect the structure, prepare a schematic design, prepare a design of the approved rehabilitation alternative and provide construction management services during the rehabilitation of the structure. A cultural resource consultant is also required to perform a cultural resource investigation for the rehabilitation of the spillway and to provide observation during rehabilitation. Rehabilitation and Amwell Road is complete so the reconstructed spillway does not get damaged by the heavy equipment used to haul the sediment from the site.

Item #40 - Dredging of the Canal between Landing Lane and Route 18

Approximately 70 percent of water diverted from the Canal is taken by purveyors at the Canal terminus near Route 18 in New Brunswick, Middlesex County. Sediment bars have formed just

upstream of the two primary intakes from the Canal wherein the normal Canal operating level is only 18 inches above the sediment level. A decrease in the Canal operating level by more than 12 inches makes it difficult for the water purveyors to divert water. Removal of this accumulation is essential to ensure delivery to these water purveyors.

Removal of the accumulation must be carefully coordinated with the water purveyors in this reach. Development of a program will be modeled after the dredging program currently being developed for the Canal reach between Kinston and Amwell Road.

Item #41 - Dredging between Lambertville Lock and Trenton

Sediment was removed from this reach in the mid-1980's. Breach of the embankment at the Workhouse Spillway in 2011, drained the Canal between the Lambertville Lock and the Kingston Lock exposing sediment that has accumulated since the 1980's. While the Canal was drained, Authority staff removed sediment mounds that were the most pronounced but was unable to remove all of the mounds. Long term planning needs to focus on the removal of sediment from this reach.

Item #42 - Dredging between Amwell Road and Ten Mile Lock

Currently plans are being developed to dredge a 10.5 mile stretch of the Canal between Kingston and Amwell Road. Flow in the stretch of the Canal between Amwell Road and Ten Mile Lock is also being impeded by the accumulation of sediment. Long term planning needs to focus on the removal of sediment from this reach.

Item #43 - Construction of a Bedload Stone Trap at the Wickecheoke Creek

Wickecheoke Creek enters the Canal just upstream of the Prallsville Lock Control Structure in Delaware Township, Hunterdon County. Excess flow from the Canal and the Creek are discharged over the Wickecheoke Creek spillway into the Delaware River. Investigations in the early 1990's recommended the construction of a bedload stone trap in the creek upstream of its confluence with the Canal to improve the ability to remove the bedload without disrupting the flow in the Canal.

The Authority desires to pursue construction of the structure because of the escalating need to remove bedload from the Canal at this location and the difficulty of removing the material from the Canal at this location. However, this project is currently on hold and has been moved to low priority.

Item #44 - Cutoff Wall in the Shipetaukin Creek Guard Bank

The Shipetaukin Creek Guard Bank, located in Lawrence Township, Mercer County, was constructed along the western side of the Canal to separate the Canal from the Lawrence Meadows and Shipetaukin Creek. The Guard Bank breached during Hurricane Floyd in September 1999 because of high water levels in the Lawrence Meadows. Typically the water level in the Lawrence Meadows, between Provinceline Road and the Route 295 Interchange is higher than the water levels in the Delaware and Raritan Canal so the breach did not cause a loss of Canal water supply.

Leakage is visible through the guard bank from the Lawrence Meadows towards the Canal. Currently, the seepage is clear; however, the seepage is getting progressively worse and a program is necessary to control the leakage and prevent piping and a potential failure of the embankment. This section of towpath is approximately 7,000 feet long but most of the leakage occurs in a 3,200-foot long section between Station 1477+00 and Station 1509+00. Depth of the cutoff wall will range between 8 and 18.5 feet.

It is planned that a cutoff wall will be constructed in this reach of the embankment. The cutoff wall will be either slurry concrete mix or a clay mix. The slurry concrete mix has the advantage for ease of installation but may cause permit problems.

It will be necessary to retain a consultant to obtain boring information through the guard bank to determine the recommended depth of the cutoff wall. Funding for this project is not included in this five year program.

Item #45 - Wickecheoke Creek Gates Abandonment

Authority staff has been instructed to not operate these waste gates because they have been extensively damaged by wood debris which accumulates at this area during flooding. The gates will need to be abandoned in the future. Funding for this project is not included in this five year program.

Item #46 - Rehabilitation of the Waste Gate downstream of Ten Mile Lock

The waste gate is located at Canal Station 2599+50, approximately 600 feet downstream of the Ten Mile Lock in Franklin Township, Somerset County. The existing non-operational waste gate consists of a wooden gate structure set between guides attached to the recessed portion of a concrete inlet headwall. A 60-inch diameter concrete pipe links the gate and inlet headwall to the outlet headwall. The outlet headwall and wingwalls are constructed of stone masonry.

The outlet pipe was permanently sealed with concrete in 2014. Woodwork is planned for the waste gate façade. Funding for this project is not included in this five year program.

Item #47 - Rebuild Stone Embankment at the 10 Mile Waste Gate

This project encompasses reconstruction of the deteriorated stonework on the downstream side of the structure. Funding for this project is not included in this five year program.

Item #48 - Rehabilitation of the Gold Run Spillway

The Gold Run Spillway is located at Station 955+00 approximately 500 feet upstream of Lower Ferry Road in Ewing Township, Mercer County. The Gold Run Spillway is a concrete structure built in 1913. The concrete spillway box is approximately \pm 98 feet long and \pm 4 feet wide. The elevation of the spillway crest is 56.70 ft.

Fourteen (14) - 36-inch diameter concrete pipes handle the flow of water coming through the spillway. The pipes discharge on a downstream concrete apron that protects the embankment from erosion. The spillway box is leaking and needs to be replaced. Funding for this project is not included in this five year program.

Item #49 - Rehabilitation of the Six Mile Run Culvert Headwall

The Six Mile Run Culvert was rehabilitated in the mid-1980s. Stone-faced concrete headwalls were constructed at the inlet and outlet ends of the culverts and minor stone repair was performed in the culvert barrels. A portion of the stone facing of the downstream headwall has dislodged from the concrete headwall during the winter of 2005 - 2006. The stone armoring above the downstream headwall needs to be restored.

Funding for this project is not included in this five year program.

Item #50 - Carnegie Lake Culverts Investigation / Isolation

There are two (2) submerged culverts located adjacent to Carnegie Lake which the Authority must locate and investigate. Funding for this project is not included in this five year program.

Item #51 - Raven Rock retaining wall downcanal of Lock

The control structure at Raven Rock Lock is located at the canal station 0+00 at Bulls Island State Park in Delaware Township, Hunterdon County. The concrete lock structure consists of four metal sluice gates and operators. Adjacent and downcanal from the locks there is a stone wall. Several stones are missing from the wall. Funding for this project is not included in this five year program.

<u>Item #52 – Refurbishment of Main Pumps and Motors No. 4 & 8</u> <u>& Item #53 – Refurbishment of Main Pumps and Motors No. 3 & 9</u> <u>& Item #54 – Refurbishment of Main Pumps and Motors No. 2 & 10</u>

See description above for Refurbishment of Main Pumps and Motors No. 5 & 7. The remaining six pumps would be refurbished in the order stated above. Funding for this project is not included in this five year program.

Item #55 - Canal Culvert Rehabilitation 2249+79 (Suydam)

The Culvert near Suydam Road is a single barrel drop style culvert located at Station 2249+79 of the D & R Canal. During the April 2006 inspection the condition appeared very much the same as its condition in October 2003 when it was dewatered and surveyed. On the inlet side, there

are a few stones missing at the base of the inlet structure and there is some shifting of some of the capstones.

On the outlet side, the entire dry-laid headwall has the appearance that it is bowed inward. Additional inspection is required to determine the priority of repairs. Funding for this project is not included in this five year program.

Item #56 - Canal Culvert Rehabilitation 2661+86 (Randolph Brook)

The Randolph Brook culvert structure consists of three distinct sections. Looking downstream from the inlet, the culvert has a semicircular corrugated steel section, 63 feet long, 13 feet wide and 8 feet high, which runs beneath Weston Canal Road. The pipe abuts a 6 feet long transition box or access chamber, where the alignment of the structure shifts slightly to the left. A double barrel stone arched structure carries the brook under the D & R Canal into the Raritan River. The barrels measures approximately 139.5 feet long, 5 feet wide and 4.5 feet high.

The culvert was rehabilitated in 1990. The rehabilitation entailed the installation of a sleeve of steel liner plates within the arches of the main culvert barrels. Support for the liner plates was provided by newly poured concrete walls. The outlet headwall and timber apron were restored preserving their historic appearance. Additional inspection is required to determine the priority of repairs. Funding for this project is not included in this five year program.

Item #57 - Canal Culvert Rehabilitation 2992+34 (Mile Run Culvert)

The Mile Run culvert consists of two semi-circular barrels approximately 129 feet long, which appear to be founded on natural rock. The culverts convey Mile Run Creek under the Canal and discharge into the Raritan River in the City of New Brunswick. The barrels are approximately 12 feet wide and 6 feet high. The culvert barrels were constructed of stone masonry and at some time, a brick liner was installed in the east barrel and a "shotcrete" coating was installed in the west barrel.

The culvert was rehabilitated in 1994. The rehabilitation comprised the restoration of headwalls and deteriorated barrels. A structural steel liner was installed in the east barrel, set back 15 feet from the upstream end and 25 feet from downstream end. The shotcrete liner in the west barrel was patched as needed.

A previous inspection revealed that the east barrel's first 25-foot brick liner section has minor spalls and the remaining metal liner section looks in good condition. On the west barrel it was observed that the gunite layer has spalled away at several locations at the mid length of the barrel, above the footing.

Additional inspection is required to determine the priority of repairs. Funding for this project is not included in this five year program.

Item #58 - Concrete Repairs at the Sullivan Way Aqueduct

The Sullivan Way Aqueduct is located in Trenton, Mercer County. The structure was constructed in the early 1900s and has been waterproofed and patched several times. The superstructure is a concrete encased steel structure constructed to carry the Canal over Sullivan Way. The concrete on the abutments is spalling and needs attention. Funding for this project is not included in this five year program.

Item #59 - Rehabilitation of the Spillway upstream of the Griggstown Lock

The spillway upstream of the Griggstown Lock between Station 2060+40 and Station 2064+20 of the Canal in Franklin Township, Somerset County is in poor condition and warrants rehabilitation. The 380-foot long spillway was built as part of the original Canal construction in the 1830's and is part of the Canal's flood control system into the Millstone River. Engineering services are required in order to inspect the structure, prepare a schematic design, prepare a design of the approved rehabilitation alternative and provide construction management services during the rehabilitation of the structure. A cultural resource consultant is also required to perform a cultural resource investigation for the rehabilitation of the spillway and to provide observation during rehabilitation.

Rehabilitation of the spillway will be scheduled after the dredging program between the Kingston and Amwell Road is complete so the reconstructed spillway does not get damaged by the heavy equipment used to haul the sediment from the site. Funding for this project is not included in this five year program.

Item #60 - Rehabilitation of the Four Mile Spillway

The Four Mile Spillway is located in the Five Mile Lock to the Route 18 section of the Canal in Franklin Township, Somerset County opposite the Rutgers Preparatory School on Easton Avenue. This 600-foot spillway was rehabilitated in 1999 with the installation of a tremie concrete cutoff wall to eliminate leakage from the Canal. The spillway was finished with hand placed stones across the crest, the river side slope and the Canal side slope of the rehabilitated structure. The stones were laid in a mortar bed with a recess in the pointing finish.

Recent flooding events washed the cement from the mortar leaving the stones sitting in a loose sand bed. The stones have the potential to become dislodged and the spillway crest needs to be stabilized. The planned rehabilitation will be to remove all stone from the crest, pour a concrete slab and rest the stones with ties to the concrete slab similar to the recently completed rehabilitation of the Colonial Park Spillway. Recent inspections, however, show the spillway to appear stable, with grass growing between the stones. Funding for this project is not included in this five year program.

Item #61 - Pipeline Evaluation – Whitehouse Release Pipeline

The Round Valley Release Pipeline (RVRP) conveys water from the Round Valley North Vault to the Whitehouse Release. The pipeline was also intended to convey water pumped from the planned Confluence Pumping Station back to the Reservoir. One pipe section of the 108-inch diameter prestressed concrete cylinder pipe ruptured in 1988 and numerous other sections were

found to have broken prestressing wire that may lead to additional ruptures of the pipe sections. The RVRP was converted into a gravity release pipeline in 1996 with the installation of pressure reducing valves in the North Vault. The reduced pressure design assumes that all the prestressing wire has failed and relies on the strength of the embedded steel cylinder. It was recommended that the pipeline continue to be monitored on a regular basis. The manufacturing and installation dates of the specific pipe sections used in this release line fall within the range of dates where there were faulty materials being manufactured in the industry, which have resulted in failures of similarly dated pipelines.

Funding for this project is not included in this five year program; however, the Authority continues to execute scheduled internal inspection of the release piping. Staff will continue its periodic inspection of the pipeline and take action accordingly.

Item #62 – Pipeline Evaluation - RV Force Main

The Round Valley Force Main is a 3.5-mile long 108-inch diameter prestressed concrete cylinder pipe (PCCP) that conveys water from the South Branch Pumping Station to the South Dam Tower at Round Valley Reservoir. The Force Main is also able to be used for releases from the reservoir to the South Branch Raritan River.

Non-destructive testing of the Force Main was conducted in 1999. The non-destructive testing identified that the majority of the pipe sections were in very good condition. Approximately 5% of the 1,062 pipe sections exhibited anomalous readings that give rise to varying degrees of concern. One section of pipe, pipe section 42, located within the South Branch Pumping Station property, was excavated and further examined externally and internally. The examinations confirmed the results of the non-destructive testing. Instead of instituting a program to immediately replace pipe section 42 and other sections of pipe that were of concern, the Authority embarked on a program to develop a management plan to estimate the anticipated longevity of various pipe sections and prioritize pipe replacement.

Pipe section 42 was replaced in 2005 and was dismantled and tested in January 2006. Pipe section 42 was "designed" to have a double wrap of pre-stressing wire. The outer level of pre-stressing was missing and the pipe section was considered to be "severely structurally compromised." A large portion of the prestressing wire had significantly lower than the specified stress as determined by the strain gauge testing.

Additionally, the management plan developed in 2003 identified 4 other sections that warrant increased monitoring, pipe sections 33, 43, 48 and 617. The consultants recommended additional non-destructive testing of the entire length of the Force Main with particular emphasis on the noted sections. Continued monitoring of the Force Main is warranted before any additional pipe sections are excavated or replaced.

Funding for this project is not included in this five year program; however, the Authority continues to execute scheduled internal inspection of the force main piping. Staff will continue its periodic inspection of the pipeline and take action accordingly.

PART III - PROPOSED RULE AMENDMENT

NEW JERSEY WATER SUPPLY AUTHORITY

Amendments To The Schedule Of Rates, Charges And Debt Service Assessments For The Sale Of Water From The Raritan Basin System

To Become Effective July 1, 2016

The following rules and regulations can be found in the New Jersey Administrative Code under <u>N.J.A.C.</u> 7:11-2.1, et. seq.

7:11-2.3 General Rate Schedule for Operations and Maintenance

(a) The General Rate Schedule for Operations and Maintenance per million gallons listed at (b) below is based on estimated annual operations and maintenance expense consisting of all current costs, obligations and expenses of, or arising in connection with, the operation, maintenance and administration of the System, and minor additions or improvements thereof or thereto, or the performance of any water purchase contract, including, but not limited to, all of the following:

1-7 (No change.)

8. Any other current costs, expenses or obligations required to be paid by the Authority under the provision of any agreement or instrument relating to bonds, other indebtedness of the Authority or by law. The current sales base of 182.339 million gallons per day has been used in setting the rate listed in (b) below.

(b) General rate schedule for operations and maintenance:

Period	Allocation	Rate/Million Gallons
(State Fiscal year or		
otherwise indicated)		
State fiscal year	Million Gallons	\$171.00
[2016] 2017	per Day (MGD)	

- 7:11-2.4 Debt Service Assessments
 - (a) (No change.)

(b)	The following Debt Service Assessment rate for the New Jersey Environmental Infrastructure Financing Program loans, based on a sales base of 182.339 million gallons per day will be applied to all customers.				
Period (State Fiscal otherwise ind		Allocation	Rate/Million Gallons		
State fiscal year [2016] 2	017	Million Gallons per Day (MGD)	\$25.00		
7:11-2.5 Capital Fund Component					
(a)-(b	(a)-(b) (No change.)				
(c)	Capital Fund	Assessment			
Period		Allocation	Rate/Million Gallons		
(State Fiscal Year or otherwise indicated)					
State Fiscal Year [2016] 2	2017	Million Gallons per Day (MGD)	\$33.00		
7:11-2.6	7:11-2.6 Source Water Protection Fund Component				
(a)	(No change.)				
(b)	Source Water	Protection Fund Assessment			
Period		Allocation	Rate/Million Gallons		
(State Fiscal Year or otherwise indicated)					
State Fiscal Year [2016] 2017 Milli		Million Gallons per Day (MGD)	\$24.00		

APPENDICES

I. <u>Report of CLA PC – Allocation of Headquarters General and Administrative</u> <u>Expenses – FY2017</u>

NEW JERSEY WATER SUPPLY AUTHORITY

(A Component Unit of the State of New Jersey)

FORECASTED COST ALLOCATION SCHEDULES

YEAR ENDED JUNE 30, 2017

NEW JERSEY WATER SUPPLY AUTHORITY

(A Component Unit of the State of New Jersey)

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June 30, 2015

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INDEPENDENT ACCOUNTANTS' REPORT

Commissioners New Jersey Water Supply Authority

At your request, we have performed certain agreed-upon procedures, as enumerated below, with respect to the accompanying forecasted cost allocation schedules of the New Jersey Water Supply Authority (the "Authority"), a component unit of the State of New Jersey for the fiscal year ending June 30, 2017. These procedures, which were agreed to by the Commissioners and Authority management, were performed solely to assist you in evaluating the forecasted cost allocation schedules in connection with the setting of water rates for each of the three operating systems (Raritan, Manasquan Reservoir and Manasquan Treatment Plant/Transmission). The Authority's management is responsible for the schedules. This agreed-upon procedures engagement was performed in accordance with attestation standards established by the American Institute of Certified Public Accountants. The sufficiency of these procedures is solely the responsibility of the Authority's management. Consequently, we make no representation regarding the sufficiency of the procedures described below either for the purpose for which this report has been requested or for any other purpose. The procedures that we performed are as follows:

- We were provided with the fiscal year 2017 budgeted expenses for each of the three operating systems by the Authority's director of finance and administration, who advised us that the fiscal year 2017 budgeted expenses are based upon preliminary budgets that are subject to approval by the Authority's Commissioners. We performed no procedures in regard to these fiscal year 2017 budgeted expenses.
- 2. We recalculated the allocated costs on the schedules. We found no exceptions as a result of these procedures.
- 3. We compared the methodologies used for cost allocation on the forecasted schedules to the methodologies used in the Authority's cost allocation schedules for the year ended June 30, 2015 and found them to be consistent.

We were not engaged to and did not conduct an examination, the objective of which would be the expression of an opinion on the accompanying forecasted cost allocation schedules. Accordingly, we do not express such an opinion. Had we performed additional procedures, other matters might have come to our attention that would have been reported to you. Furthermore, there will usually be differences between the forecasted and actual results, because events and circumstances frequently do not occur as expected, and those differences may be material. We have no responsibility to update this report for events and circumstances occurring after the date of this report.



Commissioners New Jersey Water Supply Authority

This report is intended solely for the information and use of the Commissioners and management of the Authority and should not be used by those who have not agreed to the procedures and taken responsibility for the sufficiency of the procedures for their purposes.

Clifton Larson Allen LLP

CliftonLarsonAllen LLP

Plymouth Meeting, Pennsylvania December 7, 2015

NEW JERSEY WATER SUPPLY AUTHORITY SCHEDULE OF FORECASTED COST CENTER EXPENSE RECLASSIFICATION YEAR ENDED JUNE 30, 2017 (See Independent Accountants' Report)

			RECLASSIFICATIONS									
DEPT. #	DEPT/COST CENTER	COST CENTER COSTS	1 HEATING/ ELECTRIC	2 VEHICULAR FUEL	3 PROFESSIONAL FEES	4 INSURANCE	5 TELEPHONE	6 PERMITS	7 WORKERS' COMP.	8 IN LIEU TAXES	9 CHIEF ENGINEER SALARY & FRINGE	REVISED COST CENTER COSTS
	BUILDING HQ	\$ -	\$130,100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$130,100
	TELEPHONE HQ						75,000					75,000
36	SAFETY	214,500			(5,000)							209,500
37	SECURITY	955,150										955,150
14	HUMAN RESOURCES	433,000			(4,100)				(10,000)			418,900
16	PURCHASING	571,750		(134,075)			(75,000)	(16,000)				346,675
17	INFORMATION SYSTEMS	155,900										155,900
15	CONTRACTS & RISK MGMT.	1,787,800			(29,000)	(1,300,000)		(96,100)		(18,700)		344,000
13	FINANCIAL MGMT.	1,021,324			(2,730)							1,018,594
34	AUTO SHOP	229,000		134,075				16,000				379,075
35	AUTO SHOP-CANAL	217,900										217,900
10	EXEC OFFICE	251,600	4,757									256,357
20 30 31 32 33	WATERSHED, ENGINEERING & O&M (RARITAN SYSTEM)	7,848,200	(134,857)		40,830	1,300,000		96,100	10,000	18,700	(18,041)	9,160,932
	(RARITAN STSTEM)	13,686,124	0	0	0	0	0	0	0	0	(18,041)	13,668,083
40-60	MANASQUAN SYSTEM	5,478,478									18,041	5,496,519
		\$19,164,602	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$19,164,602

NEW JERSEY WATER SUPPLY AUTHORITY SCHEDULE OF FORECASTED SYSTEM-WIDE ALLOCATION COSTS YEAR ENDED JUNE 30, 2017 (See Independent Accountants' Report)

		[ALLOCATION BASIS											
DEPT. #	DEPT/COST CENTER	REVISED COST CENTER COSTS	SQ. FT. #	# OF TELEPHONES	# OF EMPLOYEES	100 % RARITAN O&M	# OF EMPLOYEES	# OF P.O.s	# OF COMPUTERS (MGD CONTRACTS	O&M BUDGET	# OF VEHICLES	# OF VEHICLES	TIME ESTIMATE	ALLOCATED COST CENTER COSTS
	BUILDING HQ	\$130,100 _	(\$130,100)												
	TELEPHONE HQ	\$75,000	0 _	(\$75,000)											
36	SAFETY	\$209,500	976	824	(\$211,300)										
37	SECURITY	\$955,150	4,998	3,297	16,979 _	(\$980,424)									
14	HUMAN RESOURCES	\$418,900	6,018	3,297	5,660	0	(\$433,875)								
16	PURCHASING	\$346,675	6,640	2,473	3,773	0	8,678 _	(\$368,239)	-						
17	INFORMATION SYSTEMS	\$155,900	1,385	824	1,887	0	4,339	10,361	(\$174,696)						
15	CONTRACTS & RISK MGMT.	\$344,000	4,323	1,648	3,773	0	8,678	5,842	5,635	(\$373,899)					
13	FINANCIAL MGMT.	\$1,018,594	12,596	5,769	13,206	0	30,371	9,809	25,359	0 _	(\$1,115,704)				
34	AUTO SHOP	\$379,075	20,514	1,648	1,887	0	4,339	17,194	8,453	0	27,267	(\$460,377)			
35	AUTO SHOP-CANAL	\$217,900	0	1,648	1,887	0	4,339	12,896	5,635	0	15,674	0	(\$259,979)		
10	EXEC OFFICE	\$256,357	17,456	5,769	1,887	0	4,339	2,425	5,635	0	18,440	0	0 _	(\$312,308)	
20 30 31 32 33	WATERSHED, ENGINEERING & O&M (RARITAN SYSTEM)	\$9,160,932	55,194	47,803	111,309	980,424	255,984	160,697	92,985	337,861	658,954	460,377	259,979	280,296	\$12,862,795
40-60	MANASQUAN SYSTEM	\$5,496,519	0	0	49,052	0	112,808	149,015	30,994	36,038	395,369	0	0	32,012	6,301,807
		\$19,164,602	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$19,164,602

NEW JERSEY WATER SUPPLY AUTHORITY SCHEDULE OF FORECASTED COST ALLOCATION FACTORS YEAR ENDED JUNE 30, 2017 (See Independent Accountants' Report)

			REQUIRED STATISTICS									
	ALLOCATION OF: ALLOCATION BASIS:	BUILDING HQ SQ. FT. #	TELEPHONES # OF TELEPHONES	SAFETY # OF EMPLOYEES	HUMAN RESOURCES # OF EMPLOYEES	PURCHASING # OF P.O.'S	INFORMATION SYSTEMS # OF COMPUTERS	RISK MGMT MGD	FINANCE O&M FUNCTIONAL COST	AUTO SHOP # OF VEHICLES	AUTO SHOP CANAL # OF VEHICLES	EXEC. OFF TIME ESTIMATE
DEPT. #	DEPT./COST CENTER											
	TELEPHONE HQ											
36	SAFETY	110	1									
37	SECURITY	563	4	9								
14	HUMAN RESOURCES	678	4	3								
16	PURCHASING	748	3	2	2							
17	INFORMATION SYSTEMS	156	1	1	1	94						
15	CONTRACTS & RISK MGMT.	487	2	2	2	53	2					
13	FINANCIAL MGMT.	1,419	7	7	7	89	9	0				
34	AUTO SHOP	2,311	2	1	1	156	3	0	\$379,075			
35	AUTO SHOP-CANAL	0	2	1	1	117	2	0	217,900			
10	EXEC OFFICE	1,967	7	1	1	22	2	0	256,357	0		
20 30 31 32 33	WATERSHED, ENGINEERING & O&M (RARITAN SYSTEM)	6,218	58	59	59	1,458	33	182	9,160,932	40	40	89.75
40-60	MANASQUAN SYSTEM			26	26	1,352	11	19	5,496,519			10.25
		14,657	91	112	100	3,341	62	202	\$15,510,783	40	40	100 %

NEW JERSEY WATER SUPPLY AUTHORITY SCHEDULE OF FORECASTED MANASQUAN SYSTEM ALLOCATION COSTS YEAR ENDED JUNE 30, 2017 (See Independent Accountants' Report)

			ALLOCATION BASIS									
	COSTS	l TIME STUDY	2 \$ VALUE OF VEHICLES	3 \$ VALUE OF EQUIPMENT	4 TIME STUDY	5 VALUE OF WATER CONTRACTS	ALLOCATED COSTS					
GENERAL & ADMINISTRATIVE	-											
SALARIES & FRINGES	\$3,158,911	(\$3,158,911)										
VEHICLE RELATED	73,150		(\$73,150)									
MAINT. SUPPLIES & RELATED	64,600			(\$64,600)								
OFFICE & MISC.	51,500				(\$51,500)							
H.Q. OVERHEAD	823,329					(\$823,329)						
RESERVOIR (40)	1,070,768	1,556,900	48,784	28,385	25,382	709,165	\$3,439,384					
TREAT./TRANS. (50)	1,059,546	1,602,011	24,366	36,215	26,118	114,164	2,862,420					
	\$6,301,804	\$0	\$0	\$0	\$0	(\$0)	\$6,301,804					

NEW JERSEY WATER SUPPLY AUTHORITY NOTES TO FINANCIAL SCHEDULES JUNE 30, 2017 (See Independent Accountants' Report)

NOTE 1 GENERAL

The New Jersey Water Supply Authority as part of its annual budget and rate making process performs a two-step cost allocation calculation. During the first step, the Authority forecasts its actual expenses by Cost Center. For purposes of this calculation the Authority uses the following Cost Centers:

Raritan System

- Building Headquarters
- Telephone Headquarters
- Safety
- Security
- Human Resources
- Purchasing
- Information Systems
- Contracts & Risk Management
- Financial Management
- -Auto Shop
- Auto Shop Canal
- Executive Office

- Engineering, Watershed Management, Operations and Maintenance (Raritan System)

Manasquan System

In deriving expenses by Cost Center several expense reclassifications are made on the Schedule of Forecasted Cost Center Expense Reclassification as follows:

- 1. Heating and electricity expenses related to Building Headquarters ("HQ") and Executive Office are reclassified from Engineering and Operations & Maintenance ("O & M").
- 2. Vehicular fuel expense related to Auto Shop is reclassified from Purchasing.
- 3. Professional fees related to O & M are reclassified from the various departments to which they have been charged.
- 4. Insurance premium expense related to the Raritan System is reclassified from Contracts and Risk Management.
- 5. Telephone expense is reclassified from Purchasing to a separate Telephone HQ Cost Center.
- 6. Permit expense related to the Raritan System is reclassified from Contracts and Risk Management and Purchasing.

NEW JERSEY WATER SUPPLY AUTHORITY NOTES TO FINANCIAL SCHEDULES JUNE 30, 2017 (See Independent Accountants' Report)

NOTE 1 GENERAL (CONTINUED)

- 7. Workers' compensation expense related to the Raritan System is reclassified from Contracts and Risk Management.
- 8. In-lieu taxes related to the Raritan System are reclassified from Contracts and Risk Management.
- 9. Chief Engineer Salary & Fringe Expenses related to the Manasquan System are reclassified from the Engineering Department.

The second step entails a step-down allocation of eleven of the Authority's Cost Centers to the Raritan and Manasquan System Cost Centers. In making this step-down allocation the Authority allocates cost as follows:

- 1. Building HQ is allocated to each of the Cost Centers based on the amount of space utilized.
- 2. Telephone HQ is allocated to each of the Cost Centers based on the number of telephones utilized.
- 3. Safety is allocated to each of the Cost Centers based on the number of employees.
- 4. Security is allocated entirely to the Raritan System.
- 5. Human Resources is allocated to each of the Cost Centers based on the number of employees.
- 6. Purchasing is allocated to each of the respective Cost Centers based on the number of purchase orders issued.
- 7. Information Systems is allocated to each of the Cost Centers based on the number of computers.
- 8. Contracts and Risk Management is allocated to each of the Cost Centers based on the number of employees.
- 9. Financial Management is allocated based on a percentage of the four remaining Cost Centers' budgets.
- 10. Auto Shop and Auto Shop-Canal are allocated based on the number of vehicles used.
- 11. Executive Office is allocated based on the amount of executive time utilized in managing each of the Systems.

NEW JERSEY WATER SUPPLY AUTHORITY NOTES TO FINANCIAL SCHEDULES JUNE 30, 2017 (See Independent Accountants' Report)

NOTE 2 MANASQUAN SYSTEM ALLOCATED COST

The Manasquan Water Supply System's direct and allocated costs are then allocated between the Reservoir System and the Water Treatment Plant/Transmission System. In making this allocation the Authority adds to each System's direct expenses, the indirect costs allocated as follows:

- 1. Salaries and Fringe Benefits are allocated based on actual time studies performed by each employee throughout Fiscal Year 2015.
- 2. Vehicle related expenses are allocated based on the dollar value of vehicles held by each System.
- 3. Maintenance Supplies and related expenses are allocated based on the dollar value of capital equipment held by each System.
- 4. Office and miscellaneous expenses are allocated based on the time studies performed by each employee throughout Fiscal Year 2015.
- 5. Headquarters Overhead expenses are allocated based on the value of water contracts for each System.

II.Report of CLA PC – Allocation of Headquarters General and AdministrativeExpenses – Audited FY2015 Expenditures

NEW JERSEY WATER SUPPLY AUTHORITY (A Component Unit of the State of New Jersey)

COST ALLOCATION SCHEDULES

YEAR ENDED JUNE 30, 2015

NEW JERSEY WATER SUPPLY AUTHORITY TABLE OF CONTENTS YEAR ENDED JUNE 30, 2015

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CliftonLarsonAllen LLP CLAconnect.com

INDEPENDENT ACCOUNTANTS' REPORT

Commissioners New Jersey Water Supply Authority

We have examined management's assertion that the accompanying financial schedules of New Jersey Water Supply Authority (the "Authority"), a component unit of the State of New Jersey, for the year ended June 30, 2015, listed in the foregoing table of contents are presented in accordance with the cost allocation criteria set forth in Notes 1 and 2. The Authority's management is responsible for the assertion. Our responsibility is to express an opinion based on our examination.

Our examination was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants and, accordingly, included examining, on a test basis, evidence supporting the financial schedules and performing such procedures as we considered necessary under the circumstances. We believe that our examination provides a reasonable basis for our opinion.

In our opinion, the financial schedules referred to above present, in all material respects, the Authority's allocation of costs to the Raritan and Manasquan Systems based on the cost allocation criteria set forth in Notes 1 and 2.

This report is intended for the information and use of the Commissioners and management of the Authority and is not intended to be and should not be used by anyone other than these specified parties.

Clifton Larson Allen LLP

CliftonLarsonAllen LLP

Plymouth Meeting, Pennsylvania December 7, 2015



NEW JERSEY WATER SUPPLY AUTHORITY SCHEDULE OF COST CENTER EXPENSE RECLASSIFICATION YEAR ENDED JUNE 30, 2015 (See Independent Accountants' Report)

				RECLASSIFICATIONS								
DEPT. #	DEPT./COST CENTER	COST CENTER COSTS	1 HEATING/ ELECTRIC	2 VEHICULAR FUEL	3 PROFESSIONAL FEES	4 INSURANCE	5 TELEPHONE	6 PERMITS	7 WORKERS' COMP.	8 IN LIEU TAXES	9 CHIEF ENGINEER SALARY & FRINGE	REVISED COST CENTER COSTS
	BUILDING HQ		\$69,507									69,507
	TELEPHONE HQ						\$83,797					83,797
36	SAFETY	180,947										180,947
37	SECURITY	862,198										862,198
14	HUMAN RESOURCES	390,286			(\$2,754)				(\$5,707)			381,825
16	PURCHASING	521,756		(\$143,557)			(83,797)	(\$16,587)				277,816
17	INFORMATION SYSTEMS	136,317										136,317
15	CONTRACTS & RISK MGMT.	1,606,491			(28,046)	(\$1,203,981)		(88,471)		(\$18,700)		267,293
13	FINANCIAL MGMT	878,365			(2,418)							875,947
34	AUTO SHOP	214,354		143,557				16,587				374,498
35	AUTO SHOP-CANAL	176,405										176,405
10	EXEC OFFICE	236,247	4,224									240,471
20 30 31 32 33	WATERSHED, ENGINEERING & O&M	6,526,475	(73,730)		33,219	1,203,981		88,471	5,707	18,700	(18,325)	7,784,497
	(RARITAN SYSTEM)	11,729,842	0	0	0	0	0	0	0	0	(18,325)	11,711,517
40-60	MANASQUAN SYSTEM	4,565,954									18,325	4,584,279
		\$16,295,795	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,295,795

NEW JERSEY WATER SUPPLY AUTHORITY SCHEDULE OF SYSTEM-WIDE ALLOCATION COSTS YEAR ENDED JUNE 30, 2015 (See Independent Accountants' Report)

				ALLOCATION BASIS											
DEPT. #	DEPT./COST CENTER	REVISED COST CENTER COSTS	SQ. FT. #	# OF TELEPHONES	# OF EMPLOYEES	100 % RARITAN O&M	# OF EMPLOYEES	# OF P.O.s	# OF COMPUTERS	MGD CONTRACTS	O&M BUDGET	# OF VEHICLES	# OF VEHICLES	TIME ESTIMATE	ALLOCATED COST CENTER COSTS
	BUILDING HQ	\$69,507	(\$69,507)												
	TELEPHONE HQ	\$83,797	0	(\$83,797)											
36	SAFETY	\$180,947	522	921	(\$182,390)										
37	SECURITY	\$862,198	2,670	3,683	14,656	(\$883,207)	-								
14	HUMAN RESOURCES	\$381,825	3,215	3,683	4,885	0	(\$393,608)								
16	PURCHASING	\$277,816	3,547	2,763	3,257	0	7,872	(\$295,255)	-						
17	INFORMATION SYSTEMS	\$136,317	740	921	1,628	0	3,936	8,307	(\$151,849)						
15	CONTRACTS & RISK MGMT.	\$267,293	2,310	1,842	3,257	0	7,872	4,684	4,898	(\$292,156)					
13	FINANCIAL MGMT	\$875,947	6,729	6,446	11,399	0	27,553	7,865	22,043	0 _	(\$957,982)				
34	AUTO SHOP	\$374,498	10,960	1,842	1,628	0	3,936	13,786	7,348	0	27,261	(\$441,259)			
35	AUTO SHOP-CANAL	\$176,405	0	1,842	1,628	0	3,936	10,340	4,898	0	12,841	0	(\$211,890)		
10	EXEC OFFICE	\$240,471	9,326	6,446	1,628	0	3,936	1,944	4,898	0	17,505	0	0 _	(\$286,154)	
20 30 31 32 33	WATERSHED, ENGINEERING & O&M (RARITAN SYSTEM)	\$7,784,497	29,488	53,408	96,083	883,207	232,229	128,848	80,823	262,542	566,666	441,259	211,890	256,823	\$11,027,763
40-60	MANASQUAN SYSTEM	\$4,584,279	0	0	42,341	0	102,338	119,481	26,941	29,614	333,709	0	0	29,331	5,268,034
		\$16,295,795	\$0	\$0	(\$0)	\$0	\$0	\$0	\$0	(\$0)	\$0	\$0	(\$0)	\$0	\$16,295,797

NEW JERSEY WATER SUPPLY AUTHORITY SCHEDULE OF COST ALLOCATION FACTORS YEAR ENDED JUNE 30, 2015 (See Independent Accountants' Report)

						REQU	IRED STATI	STICS				
	ALLOCATION OF: ALLOCATION BASIS:	BUILDING HQ SQ. FT. #	TELEPHONES # OF TELEPHONES	# OF	HUMAN RESOURCES # OF EMPLOYEES	PURCHASING # OF P.O.'S	INFORMATION SYSTEMS # OF COMPUTERS	RISK MGMT MGD CONTRACTS	FINANCE O&M FUNCTIONAL COST	AUTO SHOP # OF VEHICLES	AUTO SHOP CANAL # OF VEHICLES	EXEC. OFF TIME ESTIMATE
D <u>EPT. #</u>	DEPT./COST CENTER											
	BUILDING HQ											
	TELEPHONE HQ											
36	SAFETY	110	1									
37	SECURITY	563	4	9								
14	HUMAN RESOURCES	678	4	3								
16	PURCHASING	748	3	2	2							
17	INFORMATION SYSTEMS	156	1	1	1	94						
15	CONTRACTS & RISK MGMT.	487	2	2	2	53	2					
13	FINANCIAL MGMT	1,419	7	7	7	89	9	0				
34	AUTO SHOP	2,311	2	1	1	156	3	0	\$374,498			
35	AUTO SHOP-CANAL	0	2	1	1	117	2	0	\$176,405			
10	EXEC OFFICE	1,967	7	1	1	22	2	0	240,471	0		
20 30 31 32 33	WATERSHED, ENGINEERING & O&M	6,218	58	59	59	1,458	33	182	7,784,497	40	40	89.75
40-60	(RARITAN SYSTEM) MANASQUAN SYSTEM			26	26	1,352	11	21	4,584,279			10.25
		14,657	91	112	100	3,341	62	203	\$13,160,149	40	40	100

NEW JERSEY WATER SUPPLY AUTHORITY SCHEDULE OF MANASQUAN SYSTEM ALLOCATION COSTS YEAR ENDED JUNE 30, 2015 (See Independent Accountants' Report)

			ALLOCATION BASIS										
	COSTS	l TIME STUDY	2 \$ VALUE OF VEHICLES	3 \$ VALUE OF EQUIPMENT	4 TIME STUDY	5 VALUE OF WATER CONTRACTS	ALLOCATED COSTS						
GENERAL & ADMINISTRATIVE	-												
SALARIES & FRINGES	\$2,595,138	(\$2,595,138)											
VEHICLE RELATED	86,289		(\$86,289)										
MAINT. SUPPLIES & RELATED	63,887			(\$63,887)									
OFFICE & MISC.	39,100				(\$39,100)								
H.Q. OVERHEAD	702,080					(\$702,080)							
RESERVOIR	902,749	1,317,446	57,546	28,072	18,801	609,319	\$2,933,933						
TREAT./TRANS.	878,791	1,277,692	28,743	35,815	20,299	92,761	2,334,101						
	\$5,268,034	\$0	\$0	\$0	\$0	(\$0)	\$5,268,034						

NEW JERSEY WATER SUPPLY AUTHORITY NOTES TO FINANCIAL SCHEDULES JUNE 30, 2015 (See Independent Accountants' Report)

NOTE 1 GENERAL

The New Jersey Water Supply Authority as part of its annual budget and rate making process performs a two-step cost allocation calculation. During the first step, the Authority calculates its actual expenses by Cost Center. For purposes of this calculation the Authority uses the following Cost Centers:

Raritan System

- Building Headquarters
- Telephone Headquarters
- Safety
- Security
- Human Resources
- Purchasing
- Information Systems
- Contracts & Risk Management
- Financial Management
- -Auto Shop
- Auto Shop Canal
- Executive Office

- Engineering, Watershed Management, Operations and Maintenance (Raritan System)

Manasquan System

In deriving expenses by Cost Center several expense reclassifications are made on the Schedule of Forecasted Cost Center Expense Reclassification as follows:

- 1. Heating and electricity expenses related to Building Headquarters ("HQ") and Executive Office are reclassified from Engineering and Operations & Maintenance ("O & M").
- 2. Vehicular fuel expense related to Auto Shop is reclassified from Purchasing.
- 3. Professional fees related to O & M are reclassified from the various departments to which they have been charged.
- 4. Insurance premium expense related to the Raritan System is reclassified from Contracts and Risk Management.
- 5. Telephone expense is reclassified from Purchasing to a separate Telephone HQ Cost Center.
- 6. Permit expense related to the Raritan System is reclassified from Contracts and Risk Management and Purchasing.

NEW JERSEY WATER SUPPLY AUTHORITY NOTES TO FINANCIAL SCHEDULES JUNE 30, 2015 (See Independent Accountants' Report)

NOTE 1 GENERAL (CONTINUED)

- 7. Workers' compensation expense related to the Raritan System is reclassified from Contracts and Risk Management.
- 8. In-lieu taxes related to the Raritan System are reclassified from Contracts and Risk Management.
- 9. Chief Engineer Salary & Fringe Expenses related to the Manasquan System are reclassified from the Engineering Department.

The second step entails a step-down allocation of eleven of the Authority's Cost Centers to the Raritan and Manasquan System Cost Centers. In making this step-down allocation the Authority allocates cost as follows:

- 1. Building HQ is allocated to each of the Cost Centers based on the amount of space utilized.
- 2. Telephone HQ is allocated to each of the Cost Centers based on the number of telephones utilized.
- 3. Safety is allocated to each of the Cost Centers based on the number of employees.
- 4. Security is allocated entirely to the Raritan System.
- 5. Human Resources is allocated to each of the Cost Centers based on the number of employees.
- 6. Purchasing is allocated to each of the respective Cost Centers based on the number of purchase orders issued.
- 7. Information Systems is allocated to each of the Cost Centers based on the number of computers.
- 8. Contracts and Risk Management is allocated to each of the Cost Centers based on the number of employees.
- 9. Financial Management is allocated based on a percentage of the four remaining Cost Centers' budgets.
- 10. Auto Shop and Auto Shop-Canal are allocated based on the number of vehicles used.
- 11. Executive Office is allocated based on the amount of executive time utilized in managing each of the Systems.

NEW JERSEY WATER SUPPLY AUTHORITY NOTES TO FINANCIAL SCHEDULES JUNE 30, 2015 (See Independent Accountants' Report)

NOTE 2 MANASQUAN SYSTEM ALLOCATED COST

The Manasquan Water Supply System's direct and allocated costs are then allocated between the Reservoir System and the Water Treatment Plant/Transmission System. In making this allocation the Authority adds to each System's direct expenses, the indirect costs allocated as follows:

- 1. Salaries and Fringe Benefits are allocated based on actual time studies performed by each employee throughout Fiscal Year 2015.
- 2. Vehicle related expenses are allocated based on the dollar value of vehicles held by each System.
- 3. Maintenance Supplies and related expenses are allocated based on the dollar value of capital equipment held by each System.
- 4. Office and miscellaneous expenses are allocated based on the time studies performed by each employee throughout Fiscal Year 2015.
- 5. Headquarters Overhead expenses are allocated based on the value of water contracts for each System.

Advertisement and Certification

Exhibit C

NEW JERSEY WATER SUPPLY AUTHORITY



P.O. BOX 5196 • CLINTON, N.J. 08809 • (908) 638-6121 • (908) 638-5241 (FAX)

PROOFS OF PUBLICATION - CERTIFICATION

NEW JERSEY WATER SUPPLY AUTHORITY

PUBLIC HEARING

FRIDAY, FEBRUARY 5, 2016

ON PROPOSED AMENDMENTS TO THE SCHEDULE OF RATES, CHARGES AND DEBT SERVICE ASSESSMENTS FOR THE SALE OF WATER FROM THE RARITAN BASIN SYSTEM

TO BECOME EFFECTIVE JULY 1, 2016

THIS IS TO CERTIFY that the attached notice of public hearing in the above matter was mailed to the Secretary of State, the Division of the Ratepayer Advocate, the news media maintaining a press office at the State House Complex, the Board of Public Utilities and the Authority's Contractual Water Purchasers on December 21, 2015. Notice was also advertised in the following newspapers:

Hunterdon County Democrat	December 24, 2015	5
The Star-Ledger	December 24, 2015	5
The Times (Trenton)	December 24, 2015	5

The notice of public hearing also appeared in the January 4, 2016 issue of the New Jersey Register along with the text of the proposed amendments.

Beth Gates Director Finance & Administration February 5, 2016

NEW JERSEY WATER SUPPLY AUTHORITY

Notice of Rate Proposal - Raritan Basin System

Take notice pursuant to the provisions of Chapter 293 of the Laws of 1981 (N.J.S.A. 58:1B-1 et. seq.) the New Jersey Water Supply Authority has proposed revisions to its Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System to cover the Authority's Operational and Debt Service expenses for the Authority's fiscal year which commences on July 1, 2016.

These revisions propose to amend existing regulations found at N.J.A.C. 7:11-2.1 et seq. as follows: no change in the sales base of 182.339 million gallons per day; no change in the Operations and Maintenance Rate Component of \$171.00 per million gallons in FY2017; no change in the Debt Service Rate Component of \$25.00 per million gallons for the New Jersey Environmental Infrastructure Financing Program in FY2017; no change in the Source Water Protection Fund Component of \$24.00 per million gallons in FY2017; and no change in the Capital Fund Component from of \$33.00 per million gallons in FY2017.

The proposal is scheduled to be published in the New Jersey Register dated January 4, 2016. A final version of the Basis and Background (B&B) document containing the full text of the proposed revisions to the Rate Schedule, together with supporting information is available from the New Jersey Water Supply Authority's website at http: <u>www.njwsa.org</u> or individual requests for the full text of the proposed rate adjustments should be sent to the New Jersey Water Supply Authority.

The Authority will conduct a Pre-public Hearing meeting with its contractual water users and any interested parties at 10:00 a.m. on Friday, January 8, 2016 in the Authority's Executive Office Conference Room located at 1851 Highway 31, Clinton, New Jersey, to present and explain the rate adjustment proposal, answer questions, and provide any additional data requested in accordance with the rate making procedure specified in N.J.A.C. 7:11-2.14.

Notice is hereby given that the Authority will hold a Public Hearing on Friday, February 5, 2016 at 10:00 a.m. in the Authority's Executive Office Conference Room located at 1851 Highway 31, Clinton, New Jersey, to provide the opportunity for public comments and statements on the proposed revisions. Interested persons may present statements orally or in writing relevant to the proposed action.

Written comments may be submitted until March 14, 2016 at which time the public record will be closed.

All comments should be addressed to:

Henry S. Patterson, Executive Director New Jersey Water Supply Authority 1851 Highway 31 Post Office Box 5196 Clinton, New Jersey 08809 info@njwsa.org

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Lenona Puć

COMMENTS:

Pursuant to the requirements of the Administrative Procedure Act, N.J.S.A. 52:14B-1 et seq., administrative agencies are required to distribute notice of proposed rulemaking activities to the news media maintaining a press office at the State House Complex. In satisfaction of this requirement, the New Jersey Water Supply Authority is forwarding to you the attached notice of a rule proposel

NEW JERSEY WATER SUPPLY AUTHORITY



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Zenona Puć

COMMENTS:

Pursuant to the requirements of the Administrative Procedure Act, N.J.S.A. 52:14B-1 et seq., administrative agencies are required to distribute notice of proposed rulemaking activities to the news media maintaining a press office at the State House Complex. In satisfaction of this requirement, the New Jersey Water Supply Authority is forwarding to you the attached notice of a rule proposal.

Mr. Kevin B. Bannon Executive Director Mercer Cty Pk Commission P. O. Box 8068 Trenton, NJ 08650

Mr. Timothy M. Bakels Hamilton Farm Golf Club 1040 Pottersville Road Gladstone, New Jersey 07934

Mr. Justin Dorman Roxiticus Golf Club P. O. Box 278 & Bliss Road Mendham, NJ 07945

Mr. L. Mason Neely Chief Financial Officer Township of East Brunswick P.O. Box 1081 East Brunswick, NJ 08816

Mr. John Alexander Golf Course Superintendent Royce Brook Golf Course 201 Hamilton Road Hillsborough, New Jersey 08844

Mr. Michael Catania Executive Director Duke Farms Foundation 80 Route 206 Hillsborough, NJ 08844

Toby R. Shor, President Village Grande @ Bear Creek 100 Grande Boulevard West Windsor Twp., NJ 08550

Ms. Susan McClure Div. of Ratepayer Advocate 140 E. Front St., PO Box 003 Trenton, NJ 08625

Mr. Robert Schaefer New Jersey American Water P. O. Box 102 Bound Brook, NJ 08805

Mr. Richard Brand East Windsor MUA 7 Wiltshire Drive East Windsor, NJ 08520 Mr. Richard M. Risoldi Vice President Middlesex Water Company P.O. Box 1500 Iselin, NJ 08830

Ms. Helen Wojtenko Plasma Physics Laboratory Princeton University P.O. Box 451 Princeton, NJ 08543

Mr. Douglas A. Petix Chief Financial Officer City of New Brunswick City Hall - 78 Bayard Street New Brunswick, NJ 08903

Mr. Robert Lombard Business Administrator No. Brunswick Mun. Complex 710 Hermann Road North Brunswick, NJ 08902

Mr. Daniel Berardinelli Plant Manager No. Brunswick Mun. Complex 782 Canal Road Somerset, NJ 08873

Mr. Bruce O'Conner Vice President & Controller Middlesex Water Company P.O. Box 1500 Iselin, NJ 08830

Ms. Stephanie A. Brand, Director Div. of Ratepayer Advocate 140 E. Front St., PO Box 003 Trenton, NJ 08625

Mr. John F. Hosking Vice President Roxbury Water Company 79 Sunset Strip Succasunna, New Jersey 07876

Mr. Oleg Kostin New Jersey American Water P. O. Box 102 Bound Brook, NJ 08805

Mr. Tom Pepe Director of Grounds Trump National/Lamington Farm Club 567 Lamington Road Bedminster, NJ 07921 Andre W. Zinkevich, P.E. Applied Water Management 2 Clerico Lane Hillsborough, NJ 08822

Mr. John Stevens, Superintendent United Water Lambertville P.O. Box 126 Lambertville, NJ 08530

Mr. Thomas Tuttle Trenton Country Club 201 Sullivan Way West Trenton, NJ 08628

Mr. Dennis Doll, President Middlesex Water Company P.O. Box 1500 Iselin, NJ 08830

Alexei Walus Director of Water Utility City of New Brunswick City Hall - 78 Bayard Street New Brunswick, NJ 08903

Mr. Joel D. Moore Owner/General Manager The Ridge at Back Brook 211 Wertsville Road Ringoes, NJ 08551

Mr. David Gartenberg State of New Jersey, BPU 44 S. Clinton Avenue P. O. Box 350 Trenton, NJ 08625-0350

Mr. Christopher White Stonebridge Community Assoc. 1 Cobblestone Blvd. Monroe, NJ 08831

Mr. Raymond A. Brown Somerset County Park Commission P. O. Box 3000 Somerville, NJ 08876

Mr. Alexander Mueller General Manager Raritan Valley Country Club 747 State Route 28 Bridgewater, New Jersey 08807-2409 Mr. Robert Osborne General Manager Raritan Valley Country Club 747 State Route 28 Bridgewater, New Jersey 08807-2409

Mr. Michael Guida Eastern Concrete Materials 475 Market Street Elmwood Park, NJ 07407

Ms. Alana Wallibillick Edna Mahan Corrections Facility P. O. Box E Clinton, NJ 08809

Mr. Kevin Breuer Springdale Golf Club 1895 Club House Drive Princeton, NJ 08540

Ms. Debra Robinson Manager of Water Division Div. of Ratepayer Advocate 140 E. Front St., PO Box 003 Trenton, NJ 08625

Interested Party:

Michael J. Broncatello Comptroller NJDWSC One F.A. Orechio Drive Wanaque, NJ 07465 Mr. Glen Schweizer Executive Director Morris County MUA P.O. Box 370–300 Mendham Road Mendham, NJ 07945-0370

Stanley S. Kovach, Mayor The Borough of Glen Gardner 83 Main St., P. O. Box 307 Glen Gardner, NJ 08826

Claude Bertrand Director of Facilities Hunterdon Medical Center 2100 Wescott Drive Flemington, New Jersey 08822

Hamilton Farm Golf Club Attn: Timothy M. Bakels 1040 Pottersville Road Gladstone, NJ 07934

Robert T. Ortego, PE Manager Environmental Compliance Princeton University–Facility Operations 100 Elm Drive Princeton, New Jersey 08543

Edwin G. Walker East Brunswick Township Do Electronic after the Veto Period Mr. Frank Falco Director of Production Middlesex Water Company P.O. Box 1500 Iselin, NJ 08830

Ms. Valerie Pierse Heron Glen Golf Course Hunterdon County Finance Dept. 110 State Hwy. 202/31 Ringoes, NJ 08551

Mr. Paul Costic Washington Township, MUA P.O. Box 226, 46 E. Mill Road Long Valley, NJ 07853

Mr. David Shope P. O. Box 651 Long Valley, NJ 07853

Guy R. Weisser, President Village Grande @ Bear Creek 100 Grande Boulevard West Windsor, NJ 08550

STATE OF NEW JERSEY HUNTERDON COUNTY

Jeanette Kryzymalski, of full age, being duly sworn upon her oath,

saith: that she is connected with THE HUNTERDON

COUNTY DEMOCRAT, a newspaper published in

Hunterdon County, New Jersey; that a notice of which the

was

annexed is a true copy,

published on the

24th of December A.D. 2015,

in said newspaper and once a week thereafter successively,

week(s), viz.: upon in all

Sworn and subscribed before me this

28th day of December

December A.D. 2015

Notary Public My Commission Expires:



NEW JERSEY WATER SUPPLY AUTHORITY Notice of Rate Proposal - Raritan Basin System

Take notice pursuant to the provisions of Chapter 293 of the Laws of 1981 (N.J.S.A. 58:1B-1 et. seq.) the New Jersey Water Supply Authority has proposed revisions to its Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System to cover the Authority's Operational and Debt Service expenses for the Authority's fiscal year which commences on July 1, 2016.

These revisions propose to amend existing regulations found at N.J.A.C. 7:11-2.1 et seq. as follows: no change in the sales base of 182.339 million gallons per day; no change in the Operations and Maintenance Rate Component of \$171.00 per million gallons in FY2017; no change in the Debt Service Rate Component of \$25.00 per million gallons for the New Jersey Environmental Infrastructure Financing Program in FY2017; no change in the Source Water Protection Fund Component of \$24.00 per million gallons in FY2017; and no change in the Capital Fund Component from of \$33.00 per million gallons in FY2017.

The proposal is scheduled to be published in the New Jersey Register dated January 4, 2016. A final version of the Basis and Background (B&B) document containing the full text of the proposed revisions to the Rate Schedule, together with supporting information is available from the New Jersey Water Supply Authority's website at http: <u>Www.nijwsa.org</u> or individual requests for the full text of the proposed rate adjustments should be sent to the New Jersey Water Supply Authority.

The Authority will conduct a Pre-public Hearing meeting with its contractual water users and any interested parties at 10:00 a.m. on Friday, January 8, 2016 in the Authority's Executive Office Conference Room located at 1851 Highway 31, Clinton, New Jersey, to present and explain the rate adjustment proposal, answer questions, and provide any additional data requested in accordance with the rate making procedure specified in N.J.A.C. 7:11-2.14.

Notice is hereby given that the Authority will hold a Public Hearing on Friday, February 5, 2016 at 10:00 a.m. in the Authority's Executive Office Conference Room located at 1851 Highway 31, Clinton, New Jersey, to provide the opportunity for public comments and statements on the proposed revisions. Interested persons may present statements orally or in writing relevant to the proposed action.

Written comments may be submitted until March 14, 2016 at which time the public record will be closed.

All comments should be addressed to:

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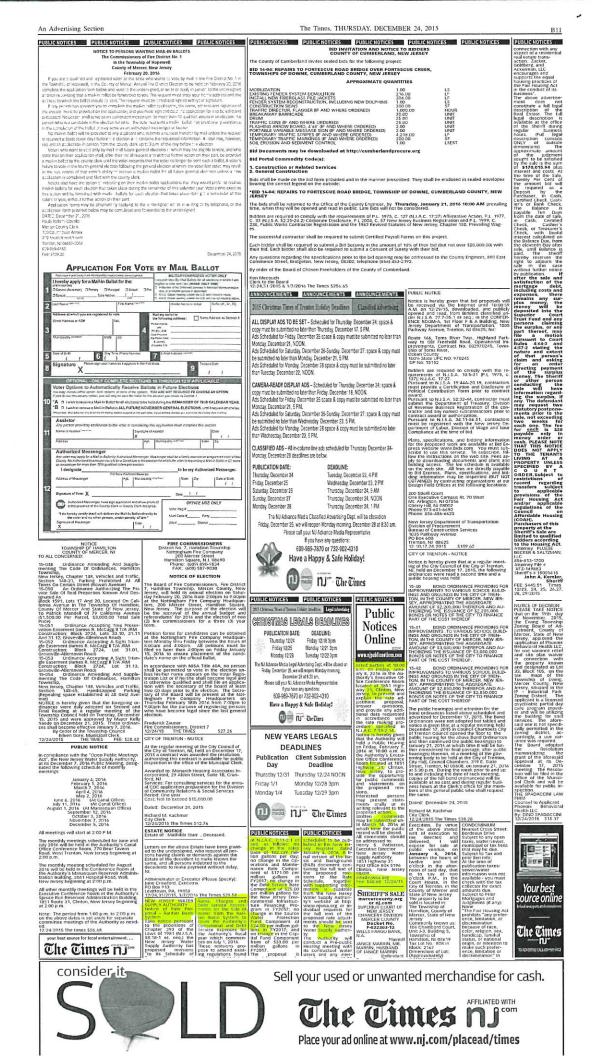
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	New Jersey Water Supply Authority		
	1851 Highway 31		
	Post Office Box 5196		
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STATE OF NEW JERSEY SS COUNTY OF ESSEX SS COUNTY OF ESSEX SS COUNTY OF ESSEX SS Being duly sworn, according to law, on his/her oath Being duly sworn, according to law, on his/her oath sayeth that he/she is	MUNJOUNDE WEDCH
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NEW JERSEY WATER SUPPLY AU-Notice of Rate Proposal - Raritan Ba-Take notice pursuant to the provisions of Chapter 293 of the Laws of 1981 (N.J.S.A. 58:18-1 et. seq.) the Vew Jersey Water Supply Authority has proposed revisions "to its Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin erational and Debt Service expenses These revisions propose to amend System to cover the Authority's Opfor the Authority's fiscal year which existing regulations found at N.J.A.C. 7:11-2.1 et seq. as follows: no change in the sales base of 182.339 million gallons per day; no \$171.00 per million gallons in FY2017; no change in the Debt Servchange in the Operations and Maintenance Rate Component of ice Rate Component of \$25.00 per Environmental Infrastructure Fimillion gallons for the New Jersey nancing Program in FY2017; no change in the Source Water Protecmillion gallons in FY2017; and no tion Fund Component of \$24.00 per change in the Capital Fund Component from of \$33.00 per million gal-The proposal is scheduled to be published in the New Jersey Register dated January 4, 2016. A final version of the Basis and Background text of the proposed revisions to the (B&B) document containing the full porting information is available Authority's website at http: Rate Schedule, together with supfrom the New Jersey Water Supply www.njwsa.org or individual re-quests for the full text of the proposed rate adjustments should be sent to the New Jersey Water Supply January 8, 2016 in the Authority's Executive Office Conference Room located at 1851 Highway 31, Clin-The Authority will conduct a Prepublic Hearing meeting with its contractual water users and any interested parties at 10:00 a.m. on Friday, ton, New Jersey, to present and explain the rate adjustment proposal, answer questions, and provide any additional data requested in accordance with the rate making proce-Notice is hereby given that the Authority will hold a Public Hearing on Friday, February 5, 2016 at 10:00 a.m. in the Authority's Executive Ofdure specified in N.J.A.C. 7:11-2.14. commences on July 1, 2016. lons in FY2017. sin System *IHORITY* Authority.



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Zenona Puc

From: Sent:	Gabrielle Sennon-NJAM Legal Advertising <legalads@njadvancemedia.com> Thursday, December 17, 2015 1:16 PM</legalads@njadvancemedia.com>
To: Subject:	Zenona Puc; Henry Patterson III; Susan Buckley; Marc Brooks; Beth Gates Re: [NJAM - I #922-27-885] (0004062316-SL & 0004062327-TT)12/24 SL New Jersey Water Supply Authority NOTICE OF AUTHORITY BOARD MEETING DATES
Attachments:	0004062316.pdf; 0004062327.pdf

ATTN: Zenona Puc

As per your request, your Legal ad will run in the Star Ledger & Times of Trenton on 12/24/2015.

For your reference the ad number is: (0004062316-SL & 0004062327-TT)

Your affidavit will be mailed to you within 10 business days of your Legal ad's last publication date.

Please confirm receipt of this email, you will receive the bill in your MONTH cycle in the amount of (0004062316-SL-\$170.60 & 0004062327-TT-\$51.68). (AD COPY & AFFIDAVIT)

Please call 732-902-4318 with any questions.

Thanks for choosing the Star Ledger & Times of Trenton.

Gabrielle Sennon

AD COPIES ATTACHED

Thanks!

Gabrielle Sennon NJ Advance Media Call Center Coordinator

On Tue, 15 Dec 2015, zpuc@njwsa.org wrote:

> Kindly publish the attached NOTICE OF 2016 AUTHORITY BOARD MEETING

> DATES in your paper on THURSDAY, DECEMBER 24 , 2015 IN THE STAR LEDGER

> (ACCOUNT # XNJWA6121585) ASBURY PARK PRESS (ACCOUNT #027378) TRENTON

> TIMES (ACCOUNT #1073207) HUNTERDON DEMOCRAT (ACCOUNT #L901409)

>

> We are advised by the Attorney General's Office that the laws of the

> State of New Jersey (R. S. 35:2-3) provide that it is mandatory that

> there be published on every official advertisement a statement of the

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> information is included on this advertisement. Proof of publication,

> AFFIDAVIT REQUIRED, with the bill, should be promptly submitted to the

> Procurement Officer upon completion of publication. Payment will be

> made at the legal rate based on counted lines rather than measure.

> Please call me at (908)

> 638-6121 extension 262, if you have any questions. Thank you.

>

State of New Jersey }ss. Mercer County

Maryanne Uldneh

being duly sworn according to law, on his/her oath says that he/ she is a representative from the Legal Advertising Department for The Times Newspapers, a newspaper circulated in the City of Trenton, in the County and State aforesaid, and the deponent states he/she further has personal knowledge that an advertisement, of which the annexed is a true copy, was published in the issue of

20 15

Sworn and subscribed before me BHAday of Trun 20.110 this for N. MEDINAH Y. JONES Public, State of New Jer My Commission Expires January 18, 2018

New Jersey Register Notice

Exhibit D

1. Employees notified of their separation from service due to layoff shall be informed of vacancies in other State departments or agencies, to which an employee, if qualified and if rated [Commendable or above] **a** two (Successful) or above in a three-level rating scale or a three (Successful) or above in a five-level rating scale in the most recent final PAR rating (or equivalent), shall have a right to accept an appointment in lieu of separation. Should an employee accept an appointment to such a vacancy in lieu of separation, the employee shall forfeit any special reemployment rights that he or she would have had.

SUBCHAPTER 2. EMPLOYEE LAYOFF RIGHTS

4A:8-2.1 Types of layoff rights

(a) A lateral title right means the right of a permanent employee to exercise displacement rights as set forth in N.J.A.C. 4A:8-2.2 against an employee in the layoff unit holding a title determined to be the same or comparable to the affected title of the employee. For a probationary employee, a lateral title right means the right to fill a vacant position or displace a provisional or probationary employee in the same title. Title comparability shall be determined by the [Department of Personnel] Chairperson or designee based on the following criteria:

1.-4. (No change.)

(b) A demotional title right means the right of a permanent employee to exercise displacement rights as set forth in N.J.A.C. 4A:8-2.2 against an employee in the layoff unit holding a title determined to be lower than, but related to the affected title of the employee. Demotional title rights shall be determined by the [Department of Personnel] Chairperson or designee based on the following criteria:

1.-4. (No change.)

(c) A special reemployment right means the right of a permanent employee, based on his or her permanent title at the time of the layoff action, to be certified for reappointment after the layoff action to the same, lateral, and lower related titles. Special reemployment rights shall be determined by the [Department of Personnel] Chairperson or designee in the same manner as lateral and demotional rights.

1. (No change.)

(d) Employees serving in a specialized credential variant title shall have title rights based upon the special credentialing, provided that the employees are serving in a specialized credential variant title on or before submission of the layoff plan, see N.J.A.C. 4A:8-1.4. Specialized credentialing shall be based upon at least one of the following, upon approval by the [Department of Personnel] **Chairperson or designee**:

1.-4. (No change.)

(e)-(f) (No change.)

4A:8-2.3 Exercise of special reemployment rights

(a) A permanent employee shall be granted special reemployment rights based on the permanent title from which [or] he or she has been laid off, demoted, or displaced by job location. In addition, the employee shall be entitled to special reemployment rights to his or her previously held lateral or demotional title (see N.J.A.C. 4A:8-2.2(f)). These rights are subject to the following limitations:

1. (No change.)

2. An employee who is displaced by job location in a layoff action, but remains in his or her permanent title, or is reappointed to his or her permanent title from a special reemployment list, shall have special reemployment rights only to his or her original job location at the time of layoff. In cases where no facility or office remains in the original job location, the employee shall be provided the choice of another job location. As permitted by the [Department of Personnel] **Chairperson or designee** for other good cause, and upon written request by the employee with notice to the appointing authority, the employee may substitute another job location for the original job location.

3. An employee who exercises a lateral title right or who is reappointed to a lateral title from a special reemployment list shall retain special reemployment rights only to his or her original permanent title and job location at the time of the layoff. In cases where no facility or office remains in the original job location, the employee shall be provided the choice of another job location. As permitted by the [Department of Personnel] Chairperson or designee for other good cause, and upon written request by the employee with notice to the appointing authority, the employee may substitute another job location for the original job location.

(b)-(g) (No change.)

4A:8-2.5 Reassignments

(a) For a period of 12 months after the service of the layoff notice required by N.J.A.C. 4A:8-1.6(a), no permanent or probationary employee in the layoff unit in a title actually affected by layoff procedures shall be subject to the following types of involuntary reassignments, except as permitted by the [Commissioner] Chairperson or designee for good cause:

1.-3. (No change.)

(b)-(c) (No change.)

4A:8-2.6 Appeals

(a) Permanent employees and employees in their working test period may file the following types of appeals:

1. Good faith appeals, based on a claim that the appointing authority laid off or demoted the employee in lieu of layoff for reasons other than economy, efficiency, or other related reasons. Such appeals shall be subject to hearing and final administrative determination by the [Merit System Board] Civil Service Commission (see N.J.A.C. 4A:2-2.9 [et seq.]); and/or

2. Determination of rights appeals, based on a claim that an employee's layoff rights or seniority were determined and/or applied incorrectly. Such appeals shall be subject to a review of the written record by the [Department of Personnel, with a right to further appeal to the Commissioner] Civil Service Commission (see N.J.A.C. 4A:2-1.1(d)).

(b) Good faith and determination of rights appeals shall be filed within 20 days of receipt of the final notice of status required by N.J.A.C. 4A:8-1.6(f). Appeals must specify what determination is being appealed, the reason(s) for the appeal, and the relief requested. Appeals not specifying the required information may be dismissed after notice of and a reasonable opportunity to provide the missing information.

(c) (No change.)

ENVIRONMENTAL PROTECTION

(a)

NEW JERSEY WATER SUPPLY AUTHORITY

Schedule of Rates, Charges, and Debt Service Assessments for the Sale of Water from the Raritan Basin System

Proposed Amendments: N.J.A.C. 7:11-2.3, 2.4, 2.5, and 2.6

Authorized By: New Jersey Water Supply Authority, Bob Martin, Chair, and Commissioner, Department of Environmental Protection.

Authority: N.J.S.A. 58:1B-7.

Calendar Reference: See Summary below for explanation of the exception to the calendar requirement.

DEP Docket Number: 13-15-12.

Proposal Number: PRN 2016-007.

In accordance with N.J.A.C. 7:11-2.14(a)4, a **pre-public hearing** meeting concerning this proposal will be held on:

Friday, January 8, 2016, at 10:00 A.M.

New Jersey Water Supply Authority Administration Building 1851 Route 31

Clinton, New Jersey

A public hearing concerning this proposal will be held on:

Friday, February 5, 2016, at 10:00 A.M. to close of comments New Jersey Water Supply Authority Administration Building Executive Conference Room 1851 Route 31

Clinton, New Jersey

Submit comments by March 4, 2016, electronically to the New Jersey Water Supply Authority (Authority) at <u>info@njwsa.org</u>.

The Authority encourages electronic submittal of comments. In the alternative, comments may be submitted on paper to:

Henry S. Patterson Executive Director New Jersey Water Supply Authority Attn: DEP Docket No. 13-15-12 1851 Route 31 P.O. Box 5196 Clinton, NJ 08809

The Basis and Background document, which is available at the Authority's website <u>http://www.njwsa.org/rbs.htm</u>, explains in further detail the financial justification for the proposed rate schedule. The rules can also be viewed or downloaded from the Authority's website. The agency proposal follows:

Summary

As the Authority has provided a 60-day comment period on this notice of proposal, this notice is excepted from the rulemaking calendar requirement pursuant to N.J.A.C. 1:30-3.3(a)5.

The Authority is proposing to amend its Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System (System), to cover expenses for Fiscal Year (FY) 2017. The Authority operates on a July 1 to June 30 Fiscal Year. The only proposed amendments update references to the fiscal year from FY 2016 to FY 2017. No change to the overall rate of \$253.00 per million gallons (MG) is proposed. The Authority anticipates the rates will be adopted operative July 1, 2016.

The general rate schedule for operations and maintenance (O&M) covers the operation expenses of the System. This component, set forth at N.J.A.C. 7:11-2.3 and incorporated by reference in the stand-by charge at N.J.A.C. 7:11-2.12, was last adjusted operative July 1, 2015, when the amount was increased from \$167.00 to \$171.00 per MG. See 47 N.J.R. 248(a) and 1316(b).

The O&M rate component sales base is set forth at N.J.A.C. 7:11-2.3(a)8. The O&M rate component sales base for FY 2016 was 182.339 million gallons per day (MGD). The Authority anticipates that the sales base will remain the same at 182.339 MGD. Projected operating costs for FY 2017 indicate that no change is necessary in the O&M rate component of \$171.00.

At N.J.A.C. 7:11-2.4(b), the debt service assessment rate for FY 2016 was based on a sales base of 182.339 MGD. The Authority anticipates that the applicable sales base for FY 2017 will remain the same at 182.339 MGD. For FY 2017, no change is necessary in the debt service assessment rate of \$25.00 per MG to repay New Jersey Environmental Infrastructure Financing Program (NJEIFP) loans issued to cover the cost of dredging a 10.5 mile stretch of the Delaware and Raritan Canal because the bonds have not been issued yet. When the bonds are issued, the rate will be adjusted to reflect the final debt service schedule.

The Authority established a Capital Fund Assessment (N.J.A.C. 7:11-2.5(c)) starting July 1, 1994. This component is used to fund the Authority's annual Capital Improvement Program, which includes projects to rehabilitate various culverts, canal embankments, and flow control structures, without incurring long-term debt. Projected capital costs for FY 2017 indicate that no change is necessary in the Capital Fund Assessment of \$33.00 per MG.

The Authority established a Source Water Protection Fund Assessment (N.J.A.C. 7:11-2.6(b)) starting July 1, 2002. This component is based on the annual source water protection expenses to acquire and otherwise protect parcels of land critical to the preservation of system water quality and quantity. Projected costs for FY 2017 indicate that no change is necessary in the Source Water Protection Fund Assessment of \$24.00 per MG.

Social Impact

The proposed amendments will continue for FY 2017 the overall rate of \$253.00 per million gallons and will ensure that the rates for raw water withdrawn, diverted, or allocated from the Raritan Basin System are

equitably assessed and sufficient to provide the revenues required by the Authority.

The Raritan Basin System, comprising an area of 800 square miles and including the 11 billion gallon capacity Spruce Run Reservoir in Hunterdon County, the 55 billion gallon capacity Round Valley Reservoir in Hunterdon County, and the 60-mile long Delaware and Raritan Canal in Hunterdon, Mercer, Somerset, and Middlesex Counties, provides both active and passive recreational opportunities to the public in addition to a basic raw water supply for approximately two million individuals living in central New Jersey.

Economic Impact

There are no proposed adjustments to the rate schedule other than the amendment modifying the fiscal year reference to FY 2017. Consequently there is no change in the total charge for the uninterruptible untreated water supply from the System of \$253.00 per MG. There will therefore be no effect per household in the billing area. The rate will continue to ensure that necessary insurance coverage is maintained for all aspects of the Authority's operations while also sustaining operations to meet and enhance the Authority's mission of managing water supply. The regulatory amendments to the Schedule of Rates and Charges are in accordance with the Authority's statutory jurisdiction over System diversions that impact safe yield.

Environmental Impact

The adequate financing of the Raritan River Basin System's upkeep and operation, which is provided by the proposed amendments, will result in a positive environmental impact. A properly maintained Raritan Basin System and its operations protect the water users in the Raritan River Basin.

The Raritan Basin System also provides habitat for many species of waterfowl and wildlife in an increasingly urbanized region of the State.

The Raritan Basin System is capable of supplying a dependable water supply of 241 million gallons per day throughout a re-occurrence of the worst drought on record while still maintaining adequate river flows through release of stored waters to support the ecological systems and wildlife that are dependent upon adequate stream flows in the River Basin.

The Source Water Protection Fund has a positive environmental impact by providing greater protection to water quality and quantity in the Raritan River Basin through real estate acquisitions, coordinated government land management practices, and remedial projects.

The Capital Fund Component has a positive environmental impact by assuring that sufficient funds are available to maintain the system of water delivery. Proper maintenance of the reservoirs and the Delaware and Raritan Canal ensure that statutory passing flows are maintained in the Raritan River Basin, and that the Delaware and Raritan Canal is capable of passing 100 million gallons of water daily from the Delaware River at Bulls Island to the Raritan River at Landing Lane in New Brunswick.

Federal Standards Statement

Executive Order No. 27 (1994) and N.J.S.A. 52:14B-1 et seq. require administrative agencies which adopt, readopt, or amend any rule or regulation to which the Order and statutes apply to provide a comparison with Federal law, and to provide further discussion and analysis (including a cost-benefit analysis) if the standards or requirements by the agency exceed standards or requirements imposed by Federal law.

These amendments are promulgated under the procedures of the Authority. The Authority is an instrumentality of the State of New Jersey in, but not of, the Department of Environmental Protection. The Authority is charged with the operation and management of the Stateowned raw water supply facilities within the State of New Jersey.

These amendments are not proposed under the authority of or in order to implement, comply with, or participate in any program established under Federal law. In addition, the proposed amendments are not under the authority of a State statute that incorporates or refers to Federal law, Federal standards, or Federal requirements. Therefore, no Federal standards analysis is required.

Jobs Impact

The proposed amendments only update references to the fiscal year. The implementation of these amendments is not anticipated to result in the generation or loss of jobs.

Agriculture Industry Impact

In accordance with P.L. 1998, c. 48, which amends the Right to Farm Act, and in accordance with N.J.S.A. 52:14B-4(a)(2), which requires that an Agriculture Industry Impact statement be included in the rule proposal, the Authority has evaluated this rulemaking to determine the nature and extent of the impact of the proposed amendments on the agriculture industry. Agriculture is impacted to the extent that farms and other agricultural users receive water allocations from the Department of Environmental Protection and contracts with the New Jersey Water Supply Authority for the purchase of water as a condition of the water allocation permit.

Regulatory Flexibility Statement

In accordance with the New Jersey Regulatory Flexibility Act, N.J.S.A. 52:14B-16 et seq., the Authority has determined that the proposed amendments will not impose reporting, recordkeeping, or other compliance requirements on small businesses because they affect only the rates charged to users for water purchased from the Authority. The water companies that contract to purchase water from the Authority and are impacted by these rules do not qualify as "small businesses" pursuant to N.J.S.A. 52:14B-16 et seq., because all employ more than 100 full-time employees.

Housing Affordability Impact Analysis

In accordance with N.J.S.A. 52:14B-4, as amended effective July 17, 2008, by P.L. 2008, c. 46, the Authority has evaluated the proposed amendments for the purposes of determining their impact, if any, on the affordability of housing. The Authority has determined that the proposed amendments will impose no impact because there is no likelihood that the rules will evoke a change in the average costs associated with housing. The Authority finds that the proposed amendments do not change land use policies or the nature and scope of the rules.

Smart Growth Development Impact Analysis

In accordance with N.J.S.A. 52:14B-4, as amended effective July 17, 2008, by P.L. 2008, c. 46, the Authority has evaluated the proposed amendments for purposes of determining their impact, if any, on smart growth development. The Authority has determined that the proposed amendments will impose no impact because it is not likely that the rules will evoke a change in housing production within Planning Areas 1 or 2, or within designated centers, under the State Development and Redevelopment Plan. The Authority finds that the proposed amendments do not change land use policies or the nature and scope of the rules.

Full text of the proposal follows (additions indicated in boldface thus; deletions indicated in brackets [thus]):

7:11-2.3 General rate schedule for operations and maintenance (a) (No change.)

(b) General rate schedule for operations and maintenance:

Period	Allocation	<u>Rate/Million</u> <u>Gallons</u>
(State fiscal year unless otherwise indicated)		
State fiscal year [2016] 2017	Million Gallons per Day (MGD)	\$171.00
a 11 0 4 15 14 1	,	

7:11-2.4 Debt service assessments

(a) (No change.)

(b) The following debt service assessment rate for the New Jersey Environmental Infrastructure Financing Program loans, based on a sales base of 182.339 million gallons per day, will be applied to all customers.

Period	Allocation	<u>Rate/Million</u> Gallons
(State fiscal year u otherwise indicate		<u>Ounons</u>

State fiscal year [2016] 2017	Million Gallons per Day (MGD)	\$25.00
 7:11-2.5 Capital Fund Comp (a)-(b) (No change.) (c) Capital Fund Assessmen 		
Period.	Allocation	<u>Rate/Million</u> Gallons
(State fiscal year unless otherwise indicated)	-	
State fiscal year [2016] 2017	Million Gallons per Day (MGD)	\$33.00
 7:11-2.6 Source Water Protect (a) (No change.) (b) Source Water Protection 		
Period	Allocation #	<u>Rate/Million</u> <u>Gallons</u>
(State fiscal year unless otherwise indicated)		
State fiscal year [2016] 2017	Million Gallons per Day (MGD)	\$24.00

(a)

NEW JERSEY WATER SUPPLY AUTHORITY Schedule of Rates, Charges and Debt Service

Assessments for the Sale of Water from the Manasquan Reservoir Water Supply System

Proposed Amendments: N.J.A.C. 7:11-4.3, 4.4, 4.5, and 4.6

Authorized By: New Jersey Water Supply Authority, Bob Martin, Chair, and Commissioner, Department of Environmental Protection.

Authority: N.J.S.A. 58:1B-7.

Calendar Reference: See Summary below for explanation of the exception to the calendar requirement.

DEP Docket Number: 12-15-12.

Proposal Number: PRN 2016-006.

In accordance with N.J.A.C. 7:11-4.17(a)4, a pre-public hearing meeting concerning this proposal will be held on:

Thursday, January 7, 2016, at 11:00 A.M.

New Jersey Water Supply Authority

Manasquan Reservoir System Administration Building Hospital Road

Wall, New Jersey

A public hearing concerning this proposal will be held on:

Thursday, February 4, 2016, at 11:00 A.M. to close of comments

New Jersey Water Supply Authority Manasquan Reservoir System Administration Building Hospital Road

Wall, New Jersey

Submit comments by March 4, 2016, electronically to the New Jersey Water Supply Authority (Authority) at <u>info@njwsa.org</u>.

The Authority encourages electronic submittal of comments. In the alternative, comments may be submitted on paper to:

Henry S. Patterson Executive Director New Jersey Water Supply Authority Attention: DEP Docket No. 12-15-12 1851 State Highway 31 P.O. Box 5196 Clinton, NJ 08809

<u>Minutes of Pre-Public Hearing</u> <u>Meeting</u>

Exhibit E

MINUTES

Pre-Public Hearing Meeting - January 8, 2016

Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System to become effective July 1, 2016

The Pre-Public Hearing Meeting was called to order by Beth Gates, Director Finance and Administration, at 10:00 a.m. in the Clinton Administration Building Conference Room.

Authority staff members present were Marc Brooks, Chief Engineer, Beth Gates, Director of Finance and Administration, and Susan Buckley, Controller.

No members of the public were in attendance.

After and appropriate period of time, Ms. Gates adjourned the meeting at 10:20 a.m.

AGENDA

Pre-Public Hearing Meeting

January 8, 2016

Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System

To become effective July 1, 2016

REGISTRATION - 9:30 - 10:00 a.m.

- 1. Greeting/Introduction
- 2. Correspondence and Communications
- 3. Review of Process and Future Events
- 4. Review of Proposed Adjustments to the Rate Schedule Proposed Fiscal Year 2017 Budget

5. Capital Improvement Program

6. Additional questions and answers

Beth Gates

Beth Gates

Beth Gates

Staff

Marc Brooks

Staff

10:20 Nomembers of public

<u>REGISTRATION</u>

Pre Public Hearing Meeting – January 8, 2016

Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System

NAME	AFFILIATION - EMAIL ADDRESS
Marc Brook	NJWSA.
Marc Brook Susan Buckley Beth Gates	NJUSA.
Beth Cates	NJUSA.
/	
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Transcript of Public Hearing

Exhibit F

1 NEW JERSEY WATER SUPPLY AUTHORITY. 2 IN RE: 3 PROPOSED ADJUSTMENTS TO THE SCHEDULE OF RATES, 4 CHARGES OF DEBT SERVICE ASSESSMENTS FOR THE SALE OF WATER FROM THE 5 RARITAN BASIN SYSTEM (N.J.A.C. 7:11-2.14) 6 TO BECOME EFFECTIVE JULY 1, 2016 7 HELD AT: 8 NEW JERSEY WATER SUPPLY AUTHORITY CONFERENCE ROOM 9 1851 STATE HIGHWAY 31 CLINTON, N.J., 10 10:00 A.M., FEBRUARY 5, 2016 11 BEFORE: 12 ELLSWORTH HAVENS, HEARING OFFICER 13 14 APPEARANCES: 15EXECUTIVE DIRECTOR HENRY PATTERSON, 16 BETH GATES, DIRECTOR OF FINANCE & ADMINISTRATION 17 SUSAN BUCKLEY, CONTROLLER MARC BROOKS, CHIEF ENGINEER 1819 ALSO PRESENT: 20 FRANK A. FALCO MIDDLESEX WATER COMPANY & EAST BRUNSWICK TOWNSHIP 21 22 JOHN F. TRAINOR, INC. 23 INGRID BENNETT CERTIFIED SHORTHAND REPORTER 24 LICENSE NO: 30X100212500 25

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JOHN F. TRAINOR, INC., HAMILTON, NEW JERSEY 609-581-1330

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3	WITNESS	PAGE
4		
5	OPENING STATEMENT	
6	BY MS. BUCKLEY:	6
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8		
9	<u>EXHIBIT</u>	
10	NUMBER DESCRIPTION	PAGE
11	P-1 Pre-public Hearing Minutes were received and	TAGE
12	marked into evidence.	5
13	P-2 Certification, was received and marked into evidence,	5
14	S-1, Basis and Background Document dated December 7, 2015, was received and entered into	5
15	evidence. S-2, email and the Authority's response to Ms.	12
16	Public, was received and marked into evidence.	15
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1 MR. HAVENS: On behalf of the New Jersey 2 Water Supply Authority, I would like to welcome you 3 here this morning. My name is Ellsworth Havens. I am 4 Chairman of the Authority's Capital Projects Committee 5 and a member of the Personnel, Finance and Public 6 Participation Committees. I am serving as 7 Hearing Officer for purposes of this public hearing. 8 Several members of the Authority's staff 9 are present today and I would like to introduce them. 10 Mr. Henry Patterson, is the Executive 11 Director. 12 Ms. Beth Gates, is Director of Finance & 13 Administration. 14 Ms. Susan Buckley, is the Controller. 15 Mr. Marc Brooks, Chief Engineer. 16 I would like to note for the record that 17 Mr. Frank Falso is present today representing Middlesex 18 Water Company and the Township of East Brunswick. 19 It is requested that everyone present sign 20 the roster. If you would like to make a statement 21 today, please print your name on one of the roster 22 slips and submit it to me. 23 The Authority has adopted extensive rate 24 adjustment procedures found in the New Jersey 25 Administrative Code at N.J.A.C. 7:11-2.13 and 2.14,

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JOHN F. TRAINOR, INC., TRENTON, NEW JERSEY 1-609-890-7033 which provide for close contact with our water customers, the State Division of the Ratepayer Advocate and other interested parties for the proposal of any rate adjustment. These procedures demonstrate the Authority's commitment to maintaining an active dialogue with the public, welcoming the input of interested parties and providing a forum for that input.

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9. Official notice of the proposed rate adjustments for Fiscal Year 2017 was mailed to the 10 11 water users and all interested parties on 12 December 21, 2015, and published in the New Jersey 13 Register on January 4, 2016. On January 8, 2016 the 14 required pre-public hearing meeting with our 15 contractual water customers and interested parties was 16 conducted. No members of the public were in 17 attendance at the January 8, 2016 meeting. 18 Ms. Gates, do we have minutes from the 19 pre-public hearing meeting of January 8, 2016? 20 MS. GATES: Yes, Mr. Chairman, and I would 21 like to enter the January 8, 2016 pre-public hearing minutes into the record as Exhibit P-1. 22 23 MR. HAVENS: Thank you, Ms. Gates. Please 24 mark the pre-public hearing minutes as Exhibit P-1. 25

> JOHN F. TRAINOR, INC., TRENTON, NEW JERSEY 1-609-890-7033

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1 (At which time, P-1 Pre-public Hearing 2 Minutes were received and marked into evidence.) 3 4 MR. HAVENS: At this time, I will ask 5 Ms. Gates if we have proof of publication and mailing 6 of the notice of this public hearing to present for the 7 record. 8 MS. GATES: Yes, Mr. Chairman, we have 9 certification that Notice of this public hearing was 10 mailed to the Secretary of State, the Division of the 11 Ratepayer Advocate, the news media maintaining a press office at the State House Complex, the Board of Public 12 13 Utilities, the Authority's Contractual Water Purchasers 14 and other interested parties on December 21, 2015 and 15 advertised in the Star Ledger, The Times (Trenton) and 16 the Hunterdon Democrat on December 24, 2015. I would like to enter this Certification into the record as 17 18 Exhibit P-2. 19 MR. HAVENS: Please mark this 20 Certification as Exhibit P-2. 21 22 (At which time, P-2 Certification, was 23 received and marked into evidence.) 24 25 MR. HAVENS: Thank you, Ms. Gates.

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JOHN F. TRAINOR, INC., TRENTON, NEW JERSEY 1-609-890-7033

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1	Ms. Buckley, the Authority's Controller,
2	will now present an opening statement.
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4	OPENING STATEMENT
5	BY MS. BUCKLEY:
6	
7	MS. BUCKLEY: Good Morning.
8	The New Jersey Water Supply Authority has
9	proposed amendments to its "Schedule of Rates, Charges
10	and Debt Service Assessments for the Sale of Water from
11	the Raritan Basin System" to raise sufficient revenue
12	for the Authority's Fiscal Year 2017 operations and to
13	adjust the rate component for the operations and
14	maintenance and debt service assessments in the
15	Schedule of Rates.
16	The General Rate Schedule for Operations
17	and Maintenance was last adjusted effective
18	July 1, 2015 to cover the operating expenses of the
19	System for the Authority's current Fiscal Year 2016.
20	Although operational expenses have
21	continued to increase during recent fiscal years, the
22	actual Operations and Maintenance Component adjustments
23	have been minimized because of eliminating funding from
24	vacancies and use of one time revenue either from
25	unanticipated revenues from the sale of water in excess

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1 of contractual allocations during the preceding fiscal 2 years or use of other surplus funds. These credits have had the effect of obscuring the full Operations 3 4 and Maintenance Component otherwise needed and these 5 funds were not available as a sufficient source of 6 revenue for fiscal year 2015, thereby necessitating a 7 \$15.00 per million gallon increase in the O&M Component 8 of the rate and an additional increase of \$4.00 per 9 million gallons in the current fiscal year, FY2016. 10 The Authority did receive unanticipated 11 revenue from the sale of excess water in the summer of 12 2015 which it can apply as an offset to FY2017 rates. 13 This overdraft revenue will stabilize rates for FY2017 14 and the Authority is recommending no change in the 15 total rate. 16 The New Jersey Water Supply Authority is 17 operating, maintaining and managing three distinct 18 systems each with its own budget, cost accountability 19 and revenue stream; the Raritan Basin System, the 20 Manasquan Reservoir Water Supply System both untreated 21 water supply systems, and a Water Treatment Plant and 22 Transmission System for the Southeast Monmouth 23 Municipal Utilities Authority, which plant was 24 constructed on Authority owned property. 25 The Authority's headquarters staff located

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1 in Clinton provides general and administrative support 2 service for all three systems. In order to equitably З assess each system, an outside auditing firm developed a methodology for the allocation of the headquarters 4 5 general and administrative costs to each operating 6 system. After the close of each fiscal year, the 7 Authority's current Auditors provide their findings as 8 to the need to adjust any of the allocation factors and 9 the actual audited expenditures for the fiscal year. 10 Independent auditors have performed the 11 Authority's Fiscal Year 2015 audit and they have 12provided necessary information on the adjustment of the Fiscal Year 2015 allocation as a credit or debit to be 13 14 netted against the Fiscal Year 2017 budgeted 15 allocation. A copy of the Auditor's report on the 16 allocation of the headquarters' general and 17 administrative costs is included in the rate proposal 18 package for each system. 19 Insurance costs are also allocated to each 20 system based upon the recommendations of the 21 Authority's risk management consultant. Each rate 22 proposal package includes a summary table showing the 23 proposed insurance budget amounts and the portions allocated to each of the three systems. 24 25 After all appropriate allocations to the

1 Manasquan Water Supply System, the projected operating 2 costs for the Raritan System for Fiscal Year 2017 3 indicate that an Operations and Maintenance Component 4 of \$171.00 per million gallons would be required starting on July 1, 2016. The sales base remains flat 5 at 182.339 million gallons per day in Fiscal Year 2017. 6 7 Operations and maintenance expenses are increasing, 8 principally in salary and fringe benefits; however, 9 these costs are offset by a decrease in capital equipment purchases, overdraft sales and the use of 10 11 FY2015 ending surplus. 12 The Authority established a "Capital Fund 13 Component" commencing on July 1, 1994. This component 14 is used to fund the Authority's current 15 Capital Improvement Program without incurring long-term 16 debt. The Capital Fund Component assessment of \$33.00 17 per million gallons in Fiscal Year 2016 will not change 18 in Fiscal Year 2017 based on funding needs with respect 19 to the five year Capital Improvement Program. 20 The Authority established the "Source 21 Water Protection Fund" in Fiscal Year 2003 to protect 22 the quality and quantity of waters in the Raritan Basin 23 System, and dedicated \$5.00 per million gallons for

critical watershed parcels and watershed planning

administrative costs associated with acquisition of

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1 programs in the Spruce Run Watershed. That component 2 was increased to \$10.00 per million gallons in 3 Fiscal Year 2004, to \$13.00 per million gallons in 4 Fiscal Year 2006, to \$15.00 per million gallons in 5 Fiscal Year 2008 and to \$24.00 per million gallons in 6 FY2014. Seventeen (\$17.00) dollars of the Source Water 7 Protection Fund component is used exclusively for payment of debt service on the direct acquisition of 8 9 critical watershed parcels in the Raritan Basin by the 10 Authority and for contributions toward acquisition soft 11 costs by other entities. The Source Water Protection 12 Fund Component will remain at \$24.00 per million 13 gallons for Fiscal Year 2017. 14 The Authority has submitted an application 15 to the New Jersey Environmental Infrastructure 16 Financing Program (NJEIFP) to finance the dredging of 17 300,000 cubic yards from a 10.5 mile segment of the 18 Delaware and Raritan Canal (D&R Canal) between Kingston 19 at Lincoln Highway to Amwell Road in Franklin Township, 20 Somerset County, New Jersey. This project is expected 21 to cost approximately \$35,000,000 and last in duration 22 up to three years. Funding through the NJEIFP would 23 allow a portion of the loan to be at zero interest and a portion of the loan to be at market rate with the 24 25 blended rate at favorable terms. The project has been

1 deferred and just as the debt service raised in FY2014 2 was used to support the O&M Component rate in FY2015, and again for FY2016, the debt service raised in FY2016 3 will be used to support the O&M Component rate in 4 This rate component will no longer be 5 FY2017. available to support operations in FY2018, at which 6 7 point the Authority will have filed an updated 8 application to the NJEIFP to finance the project. The 9 Authority continues to update the project and has made 10 significant progress on siting and permitting issues 11 with respect to the dredge spoils. 12 The component changes result in no change 13 in the overall rate of \$253.00 per million gallons in 14FY2017. 15 The Authority's procedure for rate 16 adjustment is found in the New Jersey Administrative 17 Code at N.J.A.C. 7:11-2.14 ("The Regulations"). This 18 procedure became effective on April 2, 1984. The rate 19 adjustment procedures require the Authority to give 20 official notice and an explanation outlining the need 21 for proposed rate adjustments pursuant to the 22 Regulations at least six (6) months prior to the 23 proposed effective date. 24 The Authority's Commissioners formally 25 proposed the publication of the rate adjustment for

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1	Fiscal Year 2017 at their regular monthly business
2	meeting on December 7, 2015. The final Basis and
3	Background Statement was posted on the Authority's
4	Website on December 23, 2015.
5	Mr. Havens, I request that this Basis and
6	Background Document be entered into the record as
7	Exhibit S-1.
8	MR. HAVENS: Please enter the Basis and
9	Background Document dated December 7, 2015 into the
10	records as Exhibit S-1.
11	
12	(At which time, S-1, Basis and Background
13	Document dated December 7, 2015, was received and
14	entered into evidence.)
15	
16	MS. BUCKLEY: The Authority's rate
17	adjustment procedures provide that the contractual
18	water customers and interested parties be provided the
19	opportunity to meet with Authority staff at a
20	pre-public hearing meeting in order to be presented
21	with an explanation of the formal proposal. This
22	pre-public hearing meeting must be scheduled within
23	forty-five (45) days after the official notice of a
24	proposed rate adjustment is sent. A "Notice of Public
25	Hearing" was mailed on December 21, 2015 to contractual

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water customers and other interested parties informing them of the pre-public hearing and public hearing scheduled for January 8th and February 5, 2016, respectively at the Authority's Clinton Administration Building.

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6 Additionally, on December 24, 2015, notice 7 of the Pre-Public Hearing and this Public Hearing was 8 published in The Times (Trenton), the Star Ledger and 9 the Hunterdon Democrat. Notice of the proposed rate 10 adjustment and the public hearing schedule also 11 appeared in the January 4, 2016 issue of the 12 New Jersey Register. The Pre-Public hearing was 13 conducted on January 8, 2016, no one from the public 14 attended.

15 The Authority's regulations state that 16 interested parties may submit written questions for 17 inclusion in the hearing record, and if submitted no 18 later than 15 days prior to the public hearing, 19 Authority staff, at today's meeting, must provide 20 answers to the questions. The Authority will also 21 provide a complete response to any questions received 22 subsequent to the 15-day deadline and up to and 23 including March 14, 2016, the closing date for the 24 hearing record.

In addition, any party may direct

1 questions and follow-up to Authority staff at the 2 public hearing. In the event a response cannot be 3 immediately given today, a written response shall be prepared within ten (10) business days of this public 4 5 hearing, and a copy of that written response shall be 6 provided to all contractual water customers, the 7 Division of the Ratepayer Advocate, the Board of Public Utilities and attendees at the meeting requesting the 8 9 same and the response shall be made a part of the 10 hearing record. Comments before the close of the New 11 Jersey Register comment period on March 4, 2016, will 12 also be incorporated into the record. 13 Finally, within ten (10) working days 14 after receipt of the answer, contractual water 15 customers, the Division of the Ratepayer Advocate, the 16 Board of Public Utilities and attendees will be 17 permitted to respond in writing to the answers of the 18 staff for the record. 19 After the hearing record is closed and the 20 New Jersey Register comment period expires, a 21 Hearing Officer's report, which shall include findings of fact and specific responses to all issues and 22 23 questions raised during the public hearing proceedings, will be prepared and submitted to the entire Authority 24 25 prior to the Authority taking final action on the

1 proposal. 2 Mr. Havens, that concludes the Authority's 3 opening statement. 4 MR. HAVENS: Thank you, Ms. Buckley. 5 Ms. Gates, have we received any written or 6 verbal communications for inclusion in the public 7 hearing record? 8 MS. GATES: Yes, Mr. Chairman. The 9 Authority received an email through info@njwsa.org from 10 a Jean Public opposing the proposed rate increase. 11 Ms. Public asked for confirmation acknowledging receipt 12 of the email. I would like to enter the email and the 13 Authority's response to Ms. Public as Exhibit S-2 and I 14 would like to note for the record that there is no rate 15 increase proposed for FY2017. 16 MR. HAVENS: Please enter the noted 17 documents accordingly. 18 19 (At which time, S-2, email and the 20 Authority's response to Ms. Public, was received and 21 marked into evidence.) 22 23 MR. HAVENS: Ms. Gates, are there any 24 additional proposed Rule changes not associated with 25 the changes to existing Rates presented by Ms. Buckley?

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1 MS. GATES: No, Mr. Chairman, there are 2 not. 3 MR. HAVENS: Thank you, Ms. Gates. 4 Next on the agenda is Authority staff answers to questions raised prior to today's hearing. 5 6 Ms. Gates, has the Authority received any 7 questions prior to today's hearing? MS. GATES: No, Mr. Chairman, there are 8 9 not. 10 MR. HAVENS: Thank you, Ms. Gates. 11 We are now prepared to enter oral 12 statements, written statements and/or any other 13 supporting evidence by all interested parties into the 14 record. 15 First, let me call on anyone who has 16 filled out a roster indicating that they want to make 17 statements. 18 Let the record reflect that I have not 19 received any rosters from any member of the public. 20 We will now entertain questions and - if 21 possible today - hear the responses by Authority staff. 22 Does any member of the public have 23 questions for staff? 24 I would like to note for the record that 25 no members of the public have questions for Authority

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staff.

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2	After the New Jersey Register comment
3	period closes on March 4, 2016, and the hearing record
4	is closed on March 14, 2016, I, as the Hearing Officer,
5	will prepare a report of my findings based solely on
6	the record of the proceedings, which shall include
7	findings of fact and specific responses to all issues
8	and questions raised during these proceedings.
9	My Hearing Officer's report will be
10	submitted to the Authority and presented to the
11	Authority's Board for final action on the proposal.
12	Written comments may be submitted until the end of
13	hearing record period on March 14, 2016.
14	I anticipate that the Authority will take
15	final action on these proposed Rates at its regular
16	monthly business meeting on June 6, 2016.
17	The Authority appreciates your attendance
18	here today and the constructive comments which you have
19	offered in this proceeding.
20	This Public Hearing is adjourned.
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22	(Whereupon, the matter was concluded.)
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4	CERTIFICATE
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6	I, INGRID BENNETT, Certified Court
7	Reporter of the State of New Jersey, do hereby swear
8	that the foregoing is a true and accurate record of the
9	testimony taken stenographically by me; and I am
10	neither attorney nor counsel for nor related to or
11	employed by any of the parties to the action in which
12	this matter is taken; and further, that I am not a
13	relative or employee of any attorney or counsel
14	employed by the parties hereto, or financially
15	interested in the action.
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20	INGRID BENNETT
21	CERTIFIED COURT REPORTER LICENSE NUMBER: 30X100212500
22 23	
23 24	
24 25	
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JOHN F. TRAINOR, INC., HAMILTON, NEW JERSEY 609-581-1330

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REGISTRATION

Public Hearing - Friday, February 5, 2016

Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System

NAME	AFFILIATION – EMAIL ADDRESS
Frank FALO	MiDDITSKX WODTAC, MiDDISSYLWODELLON
- · · · · · · · · · · · · · · · · · · ·	

Correspondence and Testimony

Exhibit G

Beth Gates

From: To: Subject: info jean public RE: raritan basin water rate increase proposal - comment jan 4 2016 nj register

January 8, 2016 9:09 a.m.

Dear Jean Public,

I am acknowledging receipt of your email and confirming that it will be incorporated into the public record of this rate proceeding for the Raritan Basin System.

Beth Gates Director, Finance and Administration New Jersey Water Supply Authority

From: jean public [mailto:jeanpublic1@gmail.com]
Sent: Wednesday, January 06, 2016 6:35 PM
To: info; jungaro
Subject: Re: raritan basin water rate increase proposal - comment jan 4 2016 nj register

public comment on above nj register notice of january 4, 2016

this authroity spends too much on salaires and othe operational expense when such spending can be cut. its exectuvie rates are out of sight, jits operations are wasteful, i oppose such a rater increase, this comment is for the public record, please receipt, jean publee jeanpublic1/2gmail.com

On Wed, Jan 6, 2016 at 3:57 PM, Jean Public < jeanpublic1@yahoo.com > wrote:

NEW JERSEY WATER SUPPLY AUTHORITY

Notice of Rate Proposal - Raritan Basin System

Take notice pursuant to the provisions of Chapter 293 of the Laws of 1981 (N.J.S.A. 58:1B-1 et. seq.) the New Jersey Water Supply Authority has proposed revisions to its Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System to cover the Authority's Operational and Debt Service expenses for the Authority's fiscal year which commences on July 1, 2016.

These revisions propose to amend existing regulations found at N.J.A.C. 7:11-2.1 et seq. as follows: no change in the sales base of 182.339 million gallons per day; no change in the Operations and Maintenance Rate Component of \$171.00 per million gallons in FY2017; no change in the Debt Service Rate Component of \$25.00 per million gallons for the New Jersey Environmental Infrastructure Financing Program in FY2017; no change in the Source Water Protection Fund Component of \$24.00 per million gallons in FY2017; and no change in the Capital Fund Component from of \$33.00 per million gallons in FY2017.

The proposal is scheduled to be published in the New Jersey Register dated January 4, 2016. A final version of the Basis and Background (B&B) document containing the full text of the proposed revisions to the Rate Schedule, together with supporting information is available from the New Jersey Water Supply Authority's website at http: www.njwsa.org or individual requests for the full text of the proposed rate adjustments should be sent to the New Jersey Water Supply Authority.

The Authority will conduct a Pre-public Hearing meeting with its contractual water users and any interested parties at 10:00 a.m. on Friday, January 8, 2016 in the Authority's Executive Office Conference Room located at 1851 Highway 31, Clinton, New Jersey, to present and explain the rate adjustment proposal, answer questions, and provide any additional data requested in accordance with the rate making procedure specified in N.J.A.C. 7:11-2.14.

Notice is hereby given that the Authority will hold a Public Hearing on Friday, February 5, 2016 at 10:00 a.m. in the Authority's Executive Office Conference Room located at 1851 Highway 31, Clinton, New Jersey, to provide the opportunity for public comments and statements on the proposed revisions. Interested persons may present statements orally or in writing relevant to the proposed action.

Written comments may be submitted until March 14, 2016 at which time the public record will be closed. All comments should be addressed to: Henry S. Patterson, Executive Director New Jersey Water Supply Authority 1851 Highway 31 Post Office Box 5196 Clinton, New Jersey 08809 info@njwsa.org

Staff Memorandum to Hearing Officer

Exhibit H

NEW JERSEY WATER SUPPLY AUTHORITY



P.O. BOX 5196 · CLINTON, N.J. 08809 · (908) 638-6121 · (908) 638-5241 (FAX)

April 25, 2016

<u>MEMORANDUM</u>

- TO: Mr. Ellsworth Havens Hearing Officer
- FROM: Henry Patterson, Executive Director New Jersey Water Supply Authority
- SUBJECT: Proposed adjustments to the Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System (N.J.A.C. 7:11-2.1, et seq.)

Please be advised that no additional comments or inquiries on the Raritan Basin System FY2017 rate proposal were received by the Authority subsequent to the public hearing of February 5, 2016 so that the public comments noted for the record at the hearing represent a complete picture of public input.

Staff has analyzed the budget of the original rate package for any revisions that can be considered prior to final action of the Authority at the June 6, 2016 meeting. The attached exhibit (A) reflects two recommended revisions to the original proposed rate package as presented at the Authority meeting held on December 7, 2015, and adopted by resolution 2211, dated 12/7/15. Because of these revisions to the original rate package, there will be no change to the O&M rate component of the rates as proposed at the December 7, 2015 Authority meeting.

The total rate (O&M plus Debt Service, Capital Fund, and Source Water Protection Component) of \$253.00 per million gallons will apply to all customers in FY2017 (starting July 1, 2016) and results in no increase over FY2016.

EXHIBIT A

NEW JERSEY WATER SUPPLY AUTHORITY

RARITAN BASIN SYSTEM FISCAL YEAR 2017 (7/1/16-6/30/17)

REVISIONS TO ORIGINAL RATE PACKAGE

1.	Original Insurance Expense	\$1,300,000
	Revised Insurance Expense	\$1,105,215
2.	Original Unanticipated Revenue	\$2,124,150
	Revised Unanticipated Revenue	\$1,929,360

PART II – DETAILED SUPPORTING INFORMATION

NEW JERSEY WATER SUPPLY AUTHORITY RARITAN BASIN SYSTEM

Table 1 - Summary Of Proposed Fiscal Year 2017 AdjustmentsBased On Present Usage

The rates, charges and debt service assessments listed below shall be paid for raw water diverted, withdrawn or allocated from the Raritan Basin System:

		ORIGINAL		PERCENTAGE
		PROPOSAL		INCREASE
RATE COMPONENT	CURRENT	12/07/15	DIFFERENCE	(DECREASE)
O & M Assessment	\$171.00	\$171.00	➡ 0.00	0.00%
NJEIFP Debt Service				
Assessment	25.00	25.00	➡ 0.00	0.00%
Capital Fund Component	33.00	33.00	➡ 0.00	0.00%
Source Water Protection				
Component	24.00	24.00	➡ 0.00	0.00%
Total Rate	\$253.00/mg	\$253.00/mg	➡ 0.00	0.00%

Table 2 - Rate History of Water Charges per Million Gallons of Raw Water Daily

Fiscal Year 2003 – Fiscal Year 2017

Effective Date	O&M <u>Charge</u>	1981 Bond Charge 7/1/86-10/30/06	1998 Bond Charge <u>8/1/98-11/1/13</u>	NJEIFP Component <u>8/1/13-8/1/23</u>	Capital Fund <u>Component</u>	Source Water Protection <u>Component</u>	Total Charge per MG	Percent Increase -Decrease
July 1, 2002	105.46	31.73	49.28		13.53	5.00	\$205.00	0.00%
July 1, 2003	111.68	31.62	49.15		7.55	10.00	\$210.00	2.44%
July 1, 2004	122.75	28.31	41.71		12.23	10.00	\$215.00	2.38%
July 1, 2005	111.80	28.24	41.51		20.45	13.00	\$215.00	0.00%
July 1, 2006	133.13	19.55	41.32		21.00	13.00	\$228.00	6.05%
July 1, 2007	138.71		41.29		33.00	15.00	\$228.00	0.00%
July 1, 2008	142.34		40.66		33.00	15.00	\$231.00	1.32%
July 1, 2009	142.39		40.61		33.00	15.00	\$231.00	0.00%
July 1, 2010	142.55		40.45		33.00	15.00	\$231.00	0.00%
July 1, 2011	145.66		40.34		30.00	15.00	\$231.00	0.00%
July 1, 2012	145.84		40.16		30.00	15.00	\$231.00	0.00%
July 1, 2013	152.00			25.00	30.00	24.00	\$231.00	0.00%
July 1, 2014	167.00			25.00	30.00	24.00	\$246.00	6.49%
July 1, 2015	171.00			25.00	33.00	24.00	\$253.00	2.85%
July 1, 2016	171.00			25.00	33.00	24.00	\$253.00	0.00%

Schedule Of Events (NJAC 7:11-2.1 et. seq.) To become effective July 1, 2016

<u>2015</u>

SEPTEMBER	18	Advise Water Users of informal meeting.
NOVEMBER	6	Informal meeting with Water Users – 10:00 AM.
DECEMBER	7	Board reviews and approves proposed Rates.
		Mail Official Notice to water customers, Rate Payer Advocate, interested parties and advertise in newspapers.

<u>2016</u>

JANUARY	4	Publication in the New Jersey Register.
	8	Pre-Pubic Hearing – 10:00 AM (within 45 days of Official Notice). Deadline for responses to inquires received prior to pre-public hearing.
	25	Deadline for receipt of comments to be addressed at Public Hearing (15 days after pre-public hearing).
FEBRUARY	5	Public Hearing Meeting. (SR Administration Building) – 10:00 AM Deadline for responses to inquires received between pre-public and public hearing.
	22	Written responses to questions raised at Hearing (within 10 business days of the public hearing).
MARCH	4	NJ Register Comment Period Ends.
	14	Public Hearing record closes (25 business days after Public Hearing).
JUNE	6	Board approval of FY 2017 Rates and Budgets.
JULY	1	Effective date.

Proposed

Fiscal Year 2017 Budget Summary (7/1/16 - 6/30/17)

	ADOPTED F/Y16		P	ROPOSED F/Y17
Proposed Operating Expense Budget (Schedule 1)	\$	13,157,000	\$	13,491,339
Net Allocation of Headquarters General and Administrative Expenses to the Manasquan Water Supply System - (Schedule 5)	\$	(737,000)	\$	(744,000)
Proposed Total Expense Budget	\$	12,420,000	\$	12,747,339
Proposed Capital Equipment Budget (Schedule 6)	\$	298,900	\$	182,900
Total Operating Expense & Capital Equipment Budgets	\$	12,718,900	\$	12,930,239
Contribution to Reserve Funds			÷	
- Other Post Employment Benefits Reserve	\$	-	\$	181,000
- Reserve for Formal Dam Inspection	\$	10,000	\$	10,000
- Pumping Reserve	\$	150,000	\$	150,000
- Capital Equipment Reserve	\$	150,000	\$	150,000
Total Budget Requirements	\$	13,028,900	\$	13,421,239
MISCELLANEOUS REVENUES:				
Employee Housing/Land Rental	\$	(56,000)	\$	(47,200)
Receivable from the State of NJ and Other Reservoir Sites	\$	(5,000)	\$	(5,000)
Interest Earnings on Funds (Except Major Rehabilitation and				
Depreciation Reserve Fund) (Schedule 7)	\$	(35,300)	\$	(35,400)
	\$	(96,300)	\$	(87,600)
OTHER AVAILABLE FUNDS:				
Funds Appropriated to Rate Stabilization Fund for use in F/Y2016 (Resolution #2194, dated 06/01/15)	\$	(1,571,150)	\$	-
Unanticipated Revenue (Schedule 8)	\$		\$	(1,929,360)
Total Other Available Funds	\$	(1,571,150)	\$	(1,929,360)
Net Amount to be paid for O & M Component	\$	11,361,450	\$	11,404,279

Note 1. This amount is net of withdrawal from Depreciation Reserve.

Schedule 1 - Proposed Operating Expenses Budget – Fiscal Year 2017 Distributed by Cost Center Fiscal Year 2017

CODE	ACCOUNT	OFFICE EXECUTIVE DIRECTOR	FINANCIAL MANAGEMENT & ACCOUNTING	WATERSHED PROTECTION PROGRAMS	OPERATIONS MAINTENANCE & ENGINEERING	PROPOSED BUDGET FOR FY17
5110	Regular Salaries & Wages	\$121,900	\$1,781,050	\$572,900	\$3,410,800	\$5,886,650
5120	Overtime-Salaries & Wages	0	104,600	300	85,100	190,000
5130	New Positions-Salaries & Wages	0	0	0	0	
5140	Seasonal Help-Salaries & Wages	0	0	0	0	
5150	Fringe Benefits	35,800	834,300	234,600	2,066,800	3,171,500
5167	Retiree Health Benefits	51,900	268,200	36,700	688,700	1,045,500
5168	Workers Compensation (Self-Insured)	0	10,000	0	0	10,000
	Total Salary & Fringe Benefits	\$209,600	\$2,998,150	\$844,500	\$6,251,400	\$10,303,650
5200	On-Site Residences	0	\$0	0	\$35,600	\$35,600
5211	Heating Fuel	0	\$0	0	\$107,100	107,100
5220	Utilities - Electrical Service	0	\$0	0	\$112,500	112,500
5230	" -Gas Service & Water	0	\$0	0	\$5,000	5,000
5240	" -Propane	0	\$0	0	\$200	200
5250	Electricity for Pumping	0	\$0	0	\$92,000	92,000
5260	Vehicular Fuel	0	\$159,000	0	\$0	159,000
5270	Oil & Grease	0	\$0	0	\$8,700	8,700
5280	Tires	0	\$0	0	\$29,000	29,000
5290	Maintenance Supplies	0	\$8,100	0	\$186,200	194,300
5300	Maint. Supplies - Vehicular Equipment	0	\$0	0	\$48,000	48,000
5310	Major Special Vehicle Service & Repair	0	\$0	0	\$80,000	80,000
5320	Agricultural Supplies	0	\$1,000	0	\$4,000	5,000
5330	Maintenance of Equipment	0	\$22,200	3500	\$18,500	44,200
5340	Service & Maintenance Contracts	0	\$60,300	100	\$137,200	197,600
5350	Equipment Rental	0	\$24,850	0	\$13,200	38,050
5360	Household-Safety & Protective Supplies	100	\$27,400	0	\$4,100	31,600
5370	Uniforms	0	\$4,500	0	\$2,300	6,800
5380	Special & Professional Services	25,000	\$215,640	124600	\$132,900	498,140
5390	Protective Services	0	\$1,105,215	0	\$0	1,105,215
5400	Telephone	0	\$75,000	0	\$0	75,000
5410	Postage & Freight	0	\$7,500	0	\$100	7,600
5420	Data Processing	0	\$42,284	0	\$0	42,284
5430	Printing & Office Supplies	500	\$35,350	9000	\$7,300	52,150
5440	Scientific & Photographic	0	\$0	0	\$500	500
5450	Dues & Subscriptions	14,400	\$12,200	1000	\$13,000	40,600
5460	Advertising	0	\$3,500	0	\$0	3,500
5470	Travel & Subsistence	1,500	\$1,900	1500	\$1,600	6,500
5480	Staff Training & Tuition Aid	500	\$8,750	3500	\$6,300	19,050
5490	Fees & Permits	0	\$113,100	0	\$10,700	123,800
5500	In-Lieu Taxes	0	\$18,700	0	\$0	18,700
	Total Operating Expenses	\$42,000	\$1,946,489	\$143,200	\$1,056,000	\$3,187,689

GRAND TOTAL

\$251,600

\$4,944,639

\$987,700 \$7

\$7,307,400

\$13,491,339

Schedule 1A - Comparative Statement Fiscal Year 2017

CODE	ACCOUNT	FY'13 ACTUAL	FY'14 ACTUAL	FY'15 ACTUAL	FY'16 ADOPTED	FY'17 PROPOSED
5110	Regular Salaries & Wages	\$5,214,020	\$5,227,901	\$5,232,036	\$5,698,700	\$5,886,650
5120	Overtime-Salaries & Wages	211,797	186,907	176,438	190.600	190,000
5120	New positions-Salaries & Wages	0	0	0	190,000	0
5162	Retiree Unused Sick & Vacation	0	41,044	38,788	0	0
5150	Fringe Benefits	2,634,592	2,549,057	2,478,311	3,083,700	3,171,500
5167	Retiree Health Benefits	619,662	711,226	769,820	808,300	1,045,500
5168	Workers Comp. (Self Insured)	3,679	4,384	5,707	10,000	10,000
5100	Total Salary & Fringe	8,683,750	8,720,519	8,701,100	9,791,300	10,303,650
	Budget Salary & Fringe	\$8,982,500	\$9,700,250	6,701,100	9,791,500	10,505,050
	Budget Salary & Flinge	\$8,982,500	\$9,700,230			
5200	Residences	\$80,172	\$85,031	\$77,320	\$41,600	\$35,600
5211	Heating Fuel	112,576	99,709	71,915	106,400	107,100
5220	Utilities - Electrical Service	104,123	106,609	105,818	112,500	112,500
5230	-Gas Service	4,258	4,980	4,234	4,700	5,000
5240	-Propane	102	520	271	200	200
5250	Electricity for Pumping Station	75,400	77,401	79,790	90,000	92,000
5260	Fuel - Vehicular	153,547	144,641	143,557	157,800	159,000
5270	Oil & Grease	2,829	5,222	6,041	6,600	8,700
5280	Tires	14,855	31,557	23,157	26,000	29,000
5290	Maintenance Supplies	165,264	161,555	147,168	213,300	194,300
5300	Maint. Supplies - Vehicular	38,258	51,614	47,617	39,000	48,000
5310	Major Vehicle Service & Repair	100,424	102,034	72,802	85,000	80,000
5320	Agricultural Supplies	1,328	653	3,008	5,000	5,000
5330	Maintenance Equipment	14,574	35,808	26,502	37,800	44,200
5340	Serv. & Maintenance Contracts	179,019	167,202	184,660	181,200	197,600
5350	Equipment Rental	139,944	60,514	42,988	39,900	38,050
5360	Household - Safety Supplies	24,137	26,771	26,899	33,200	31,600
5370	Uniforms	5,706	3,266	4,828	6,300	6,800
5380	Special & Professional Services	467,728	411,176	436,850	477,600	498,140
5390	Protective Services	1,047,791	1,133,656	1,188,766	1,307,800	1,105,215
5400	Telephone	70,944	73,113	83,797	72,400	75,000
5410	Postage & Freight Out	9,808	3,464	6,157	11,100	7,600
5420	Data Processing	42,660	36,203	40,023	44,500	42,284
5430	Printing & Office Supplies	78,749	56,904	46,225	57,700	52,150
5440	Scientific & Photographic	43	0	995	500	500
5450	Dues & Subscriptions	34,603	33,520	34,206	39,100	40,600
5460	Advertising & Promotional	3,269	5,925	3,898	11,000	3,500
5470	Travel & Subsistence	2,035	2,939	2,274	6,500	6,500
5480	Staff Training & Tuition Aid	13,561	11,220	8,352	18,800	19,050
5490	Fees & Permits	113,468	114,616	113,970	113,500	123,800
5500	In - Lieu Taxes	18,689	18,689	18,689	18,700	18,700
	Total Other Expenses	\$3,119,864	\$3,066,512	\$3,052,777	\$3,365,700	\$3,187,689
	Total Operating Expenses	\$11,803,614	\$11,787,031	\$11,753,877	\$13,157,000	\$13,491,339
	Annual Increase (Decrease)	1.23%	-0.14%	-0.28%	11.94%	2.54%
	Budget -other expenses	3,090,900	3,077,600	3,290,600	3,365,700	2.2 . 70
	ANNUAL BUDGET	\$12,073,400	\$12,777,850	\$12,823,900	\$13,157,000	
		ψ12,07 <i>5</i> , 1 00	φ12,777,030	ψ12,02 <i>3</i> ,700	φ13,137,000	

Schedule 4 - Projected FY 2017 New Jersey Water Supply Authority Insurance Program

Policy	Raritan Basin System	Manasquan Reservoir System	Manasquan Water Treatment Plant and Transmission System	Total Premium
Property Limit \$150 million, Limit \$25m BI Deduct: \$100k all perils \$250k Deduct dams, dikes / \$1m Deduct Canal flood	\$479,976	\$161,354	\$39,487	\$680,817
General/Products Liability Limit \$1 million Deduct: \$150k	\$96,774	\$9,048	\$1,879	\$107,701
Environmental Impairment Liability Limit \$10 million Deduct: \$100k	\$22,730	\$2,125	\$441	\$25,296
Workers' Compensation Limit \$1 million	\$180,515	\$23,206	\$24,315	\$228,036
Employer Liability Limit \$1 million	Included in Workers' Comp	Included in Workers' Comp	Included in Workers' Comp	Included in Workers' Comp
Umbrella Liability Limit \$23 million	\$262,492	\$24,541	\$5,096	\$292,129
Business Automobile Limit: \$1 million G/L, \$0 pd Deduct: \$50k, G/L	\$16,528	\$2,934	\$672	\$20,134
Management Liability				
Public Officials Liability	\$40,232	\$3,761	\$781	\$44,774
Cyber Risk	\$5,092	\$476	\$99	\$5,667
Fidelity & Crime	<u> </u>	<u> </u>	\$3,531	\$3,531
Limit \$5 million/\$1 million/\$1 million Deduct: \$100k/\$10k/\$50k	\$45,324	\$4,237	\$4,411	\$53,972
Travel Accident Limit \$2 million	\$876	\$82	\$17	\$975
TOTAL:	\$1,105,215	\$227,527	\$76,318	\$1,409,060

<u>Schedule 5 - Recap Of Allocation Of Headquarters General And Administrative Expenses Charged</u> <u>To The Manasquan Water Supply System</u>

Fiscal Year 2017 (7/1/16-6/30/17)

	Total Headquarters Charge	Manasquan Reservoir System	Manasquan WTP/TS
Budgeted-Appendix I, amount to be charged to	C	-	
Manasquan System for F/Y17 (7/1/16-6/30/17)	\$823,329	\$709,165	\$114,164
F/Y15 Adjustment as per audited Expenditures:			
Budgeted as per rate schedule for F/Y15 (7/1/14-			
6/30/15). Amounts paid during F/Y15 to Raritan Basin System.	\$781,349	\$678,114	\$103,235
	<i><i>qio1,01y</i></i>	<i><i><i>vo,o,iii</i></i></i>	\$10 0,200
Actual allocation based upon audited expenditures F/Y15 (7/1/14-6/30/15) - Appendix II	\$702,080	\$609,319	\$92,761
		<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	ψ72,701
Adjustments F/Y15	(\$79,269)	(\$68,795)	(\$10,474)
Net Allocation for F/Y2017 Budget	\$744,060	\$640,370	\$103,690
Estimate	\$744,000	\$640,000	\$104,000

Schedule 6 - Proposed Capital Equipment Budget

Fiscal Year 2017

		(R) Replacement			Depreciatio
	Description	(A) Addition	Year of Purchase	Dollar Value	Reserve
INFORMATION SYSTEMS	(1) VIDEO SYSTEM - ANNEX	(A)		1,500	
	(1) VIDEO SYSTEM - CONF ROOM	(A)		1,500	
FACILITIES	(1) BOILER REPLACEMENT BUSHER RESIDENCE	(R) - original	1991	10.000	
	(3) DOOR REPLACEMENT - SINGLE	(R) - original		15.000	
	(1) DOOR REPLACEMENT - DOUBLE	(R) - original		9,000	
	SINGLE DOORS - COMPRESSOR ROOM, PAINT				
	ROOM AND CARPENTERS SHOP				
	DOUBLE DOORS - BOILER ROOM				
	DOUBLE DOORS - BOILLAROOM				
	(2) PORTABLE WATER TANKS	(R)		20,000	
	(1) BUMPER CRANE FOR VEHICLE NJWA 18	(A)		5,500	
GROUNDS	(1) TON HD DECK OVER TRAILER	(R) EQ1707	1999	20,000	12,
	(1) HYDRAULIC POLE SAW	(R) PE1613	1997	2,000	1,0
	(1) AIR COMPRESSOR RVMB	(R) PE742	1986	7,000	1,6
	(1) TOW BEHIND AIR COMPRESSOR	(R) PE1480	1994	15,000	11,:
	(1) TRACTOR TS100	(R) PE1751	2000	90,000	63,
CANAL	(1) NJWA-37 SMALL SUV	(R) TR2196	2011	30,000	22,
	(1) NJWA-38 SIX MAN PICKUP	(R) TR2135	2009	40,000	28,
	(1) NJWA-46 SIX MAN PICKUP	(R) TR2136	2009	40,000	28,
	(2) REPLACE RTU @ PERDICARIS & WASH. CROSSING	(R)		30,000	
	(1) REPLACE DUMP BODY ON NJWA -30	(R)		25,000	
	(2) 9.9 HP, 4 STROKE OUTBOARD BOAT MOTOR(S)	(R) 2209/2210		5,000	2,
AUTO SHOP	(1) TRUCK MOUNT AIR COMPRESSOR	(A)		3,500	
SAFETY	(2) REPLACE TWO AED UNITS	(R) EQ2203, 2204	2012	4,000	1,
ECURITY	(1) SECURITY VEHICLE - NJWA-13 FORD EXPLORER	(R) TR2216	2013	32,000	24,

	LESS AMOUNT CHARGED TO DEPRECIATION RESERVE	TOTAL COST	\$406,000 (198,879)	\$198,879
		NET TOTAL	\$207,121	
mc:a:capeqp.xlw	LESS AMOUNT CHARGED TO CAPITAL EQUIPMENT RESERVE		\$0	
19-Apr-16	LESS ADDITIONAL AMOUNT CHARGED TO DEPRECIATION RESER	VE	(\$24,218)	
19-491-10	TOTAL		\$182,903	
	AMOUNT FUNDED FOR FY2017		\$182,900	

Schedule 7 - Estimate Of Interest Income For Fiscal Year 2017 Budget

Fund/Reserve	TD Bank Funds	Long-Term Investments
Operating	\$600,0	\$0 \$0
Reserve for O & M	\$500,0	\$1,500,000
Pumping Reserve	\$600,0	\$0
Self-Insurance Reserve	\$1,0	\$700,000
Rate Stabilization Fund	\$1,000,0	\$0
Estimated Total	\$2,701,0	\$2,200,000
	\$2,701,000 x .25% =	\$6,753
	\$2,200,000 x 1.30% =	\$28,600
	Total	\$35,353
	Estimate	\$35,400

Short-Investments

TD Bank Managed Rate of .25% 95% of the 30 Day Libor After the Compensating Balance Has Been Satisfied

Long-Term Investments

JP Morgan New Jersey State G/O Bonds Due 07/15/2016 Yield to Maturity 1.30% Expect Similar Returns After Maturity

Schedule 8 - Unanticipated Revenue

Funds to be appropriated Into the Rate Stabilization Fund for Fiscal Year 2017

Amount \$146,214.00

F/Y2015 Net Year-End Balance

Overdrafts	Invoice No.	Billed	Amount	
East Windsor Municipal Utilities Authority	800	11/10/14	\$11.14	
	990	07/22/15	\$1,892.80	
Heron Glen	801	11/10/14	\$88.62	
	803	11/10/14	\$396.78	
	991	07/22/15	\$1,187.70	
Raritan Valley Country Club	802	11/10/14	\$2,999.06	
	992	07/22/15	\$37.54	
Somerset County Park Commission	804	11/10/14	\$948.54	
Trump National	805	11/10/14	\$484.06	
Village Grande	806	11/10/14	\$101.15	
		Total	\$8,147.39	
	Amount used in FY2016 -\$1,		-\$1,048.30	
		NET	<u>.</u>	\$7,099.09

Overdrafts Not Billed, Accrued through July, 2015

NJAW, Somerset County Park, Trump National, Roxiticus, Ra	aritan Valley CC,	
Washinton Township MUA, Royce Brook, Greenbriar Stoneb	ridge, Hamilton Farms Golf	
Club, East Brunswick		\$206,052
Other Sources of Funds		
Dredging Deferral		\$1,570,000.00
	Grand Total	\$1,929,364.86
	FY17 Budget	\$1,929,360.00

Schedule 10 - Projected Fiscal Year 2017 Operations & Maintenance Component Sales Base

New Jersey Environmental Infrastructure Financing Program Debt Service Assessment

USER	DAILY ALLOCATION (MGD)	DAYS PER YEAR	TOTAL MG/YR	ANNUALIZED SALES BASE (MGD)
Duke Farms	0.075	N/A		0.000
East Brunswick Twp	8.000	365	2,920.000	8.000
NJ American Water Company	126.600	365	46,209.000	126.600
Mercer County Park Commission – Golf	0.132	184	24.300	0.067
Middlesex Water Co.	27.000	365	9,855.000	27.000
New Brunswick, City of	10.500	365	3,832.500	10.500
North Brunswick Twp.	8.000	365	2,920.000	8.000
Princeton University	0.150	365	54.750	0.150
Trenton Country Club	0.126	365	46.000	0.126
United Water Lambertville	0.490	365	178.850	0.490
Ridge at Back Brook	0.111	365	40.510	0.111
Roxbury Water Company	0.041	365	15.000	0.041
Royce Brook Golf Club	0.165	365	60.230	0.165
Hunterdon County Golf (Heron Glen)	0.079	365	28.800	0.079
Raritan Valley Country Club	0.012	365	4.380	0.012
East Windsor Municipal Utilities Authority	0.011	365	4.000	0.011
Somerset County Park Commission (Neshanic Valley Golf Club)	0.142	365	51.750	0.142

Schedule 10 (Cont.) - Projected Fiscal Year 2017 Operations & Maintenance Component Sales Base

New Jersey Environmental Infrastructure Financing Program Debt Service Assessment

USER	DAILY ALLOCATION (MGD)	DAYS PER YEAR	TOTAL MG/YR	ANNUALIZED SALES BASE (MGD)
Lamington Farms LLC (Trump National Golf Club)	0.170	365	62.100	0.170
Morris County Municipal Utilities Authority	0.079	365	28.830	0.079
Applied Waste Water Management, Inc. (Mt. Olive Township)	0.010	365	3.554	0.010
Washington Township Municipal Utilities Authority	0.035	365	12.775	0.035
Borough of Glen Gardner	0.008	365	2.775	0.008
Roxiticus Golf Club	0.046	365	16.790	0.046
Hamilton Farm Golf Club	0.138	365	50.400	0.138
Springdale Golf Club	0.098	365	35.640	0.098
NJ Department of Corrections	0.025	365	9.250	0.025
Stonebridge Community Assoc.	0.081	365	29.565	0.081
Village Grande @ Bear Creek	0.074	365	27.010	0.074
Eastern Concrete Materials	0.023	365	8.500	0.023
Hunterdon Medical Center	0.031	365	11.000	0.031
Princeton University Operations	0.027	365	9.855	0.027
TOTAL SALES BASE			182.339	

Schedule 11 - Operations And Maintenance Rate Component

Fiscal Year 2017

Funds Required for F/Y2017 Budget

Proposed Operating Expense and Capital Budget Less Miscellaneous Revenues & Interest Income Other Available Funds Net Budget Requirement Less: 182.339 x 171.00 x 61Days (Cash received in July and August for water used in May and June based on \$171.00/mg)	\$13,421,239 (\$87,600) (\$1,929,360) \$11,404,279 (\$1,901,978)
Additional Revenue required to cover Operations and Maintenance Expense through 6/30/17 <u>Computation of Operations & Maintentance Rate for Fiscal Year 2017</u>	\$9,502,301
Sales Base Period 7/1/16 to 4/30/17 304 days x 182.339 mgd =	55,431.06 mg
Required Operations & Maintenance Rate F/Y2017 $\frac{\$9,502,301 \text{ mg}}{55,431.06 \text{ mg}} =$	\$171.00 mg

Draft Resolution Adopting Rate Adjustments

Exhibit I

RESOLUTION OF THE NEW JERSEY WATER SUPPLY AUTHORITY

No.:_____ DATE OF ADOPTION: _____

TITLE: Resolution adopting revisions to the Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System, to become effective July 1, 2016 (regulations found at N.J.A.C. 7:11-2.1 et seq.)

WHEREAS, N.J.S.A. 58:1B-7g and 58:1B-19 provide for the Authority to fix and revise from time to time its rates, fees and charges; and

WHEREAS, the Authority has estimated its revenue requirements for the fiscal year beginning on July 1, 2016; and

WHEREAS, by Resolution No. 2211 adopted on December 7, 2015 the Authority proposed certain revisions to the Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System, to become effective July 1, 2016 (regulations found at N.J.A.C. 7:11-2.1 et seq.); and

WHEREAS, the proposal was mailed to all contractual water purchasers in December 2015, and published in the Hunterdon County Democrat, the Times (Trenton) and the Star Ledger on December 24, 2015, and appeared in the New Jersey Register on January 4, 2016 with a 60 day comment period ending March 4, 2016; and

WHEREAS, a pre-public hearing meeting was conducted on the proposed amendments on January 8, 2016; and

WHEREAS, the Authority conducted a public hearing on the proposed amendments on February 5, 2016 with the hearing record remaining open through March 14, 2016; and

WHEREAS, the Authority's Hearing Officer, after having reviewed and considered the testimony received during the rate making process, did submit a Hearing Officer's Report to the Authority together with recommendations; and

WHEREAS, the Authority must provide for sufficient revenues and a rate structure to cover its costs.

NOW THEREFORE, be it resolved that the New Jersey Water Supply Authority adopts the Hearing Officer's Report entitled "Fiscal Year 2017 Proposed Amendments to the Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System, effective July 1, 2016;" and

BE IT FURTHER RESOLVED that the New Jersey Water Supply Authority adopts the following amendments to the Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System, found at N.J.A.C. 7:11-2.1 et seq. to become effective on July 1, 2016:

- 1. Amend N.J.A.C. 7:11-2.3 of the Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Raritan Basin System, to reflect no change in the sales base of 182.339 million gallons per day (mgd) for the Operations and Maintenance Expense Rate (O&M) Component and maintain the O&M rate of \$171.00 per million gallons (mg), consistent with the Initial Proposal, for the period July 1, 2016 through June 30, 2017; and
- 2. Amend N.J.A.C. 7:11-2.4(a), (b) and(c) of the Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from

the Raritan Basin System to reflect no change in the Sales Base for the Debt Service Assessment rate of 182.339 million gallons per day and maintain the Debt Service Assessment Component of the rate at \$25.00 per million gallons consistent with the Initial Proposal, for the period of July 1, 2016 through June 30, 2017; and

- 3. Amend N.J.A.C. 7:11-2.5, the Capital Fund Component, to maintain the rate at \$33.00 per million gallons effective July 1, 2016 through June 30, 2017, no change from the original FY2017 proposal of \$33.00 per million gallons; and
- 4. Amend N.J.A.C. 7:11-2.6, the Source Water Protection Fund Rate Component, to maintain the rate at \$24.00 per million gallons, effective July 1, 2016 through June 30, 2017, no change from the original FY2017 proposal of \$24.00 per million gallons; and

BE IT FURTHER RESOLVED, that the following actions are authorized:

- Appropriate \$146,214 in Fiscal Year 2016 and prior years, yearend fund balances from the Operating Fund into the Rate Stabilization Fund.
- Appropriate \$213,151 in unanticipated revenue from overdraft sales from the Operating Fund for Fiscal Years ending June 30, 2015 and June 30, 2016 into the Rate Stabilization Fund.
- Appropriate \$1,570,000 in surplus funds from the D&R Canal Dredging Fund from the Fiscal Year ending June 30, 2016 into the Rate Stabilization Fund.
- Apply \$1,929,360 appropriated into the Rate Stabilization Fund to the Operating Fund for Fiscal Year 2017.

Draft Resolution Adopting FY2017 Budget

Exhibit J

RESOLUTION OF THE NEW JERSEY WATER SUPPLY AUTHORITY

NO.: _____ DATE OF ADOPTION: _____

TITLE: Resolution approving the Authority's Raritan Basin System Budget for Fiscal Year 2017 (July 1, 2016 -June 30, 2017)

WHEREAS, the Executive Director proposed a budget for Fiscal Year 2017, that was provided to the Authority Members on June 1, 2016; and

WHEREAS, the Authority has previously considered the proposed budget as part of the Rate Adjustment procedure for Fiscal Year 2017, and the adopted rate schedule for Fiscal Year 2017 is based upon the proposed budget requirements in the amount of \$18,878,645.

NOW THEREORE, be it resolved that the Authority approves a budget of \$18,878,645 for the Fiscal Year beginning July 1, 2016 through June 30, 2017.