

NEW JERSEY WATER SUPPLY AUTHORITY

HEARING OFFICER'S REPORT

Fiscal Year 2017 Proposed Amendments to the Schedule of
Rates, Charges and Debt Service Assessments
for the Sale of Water from the
Manasquan Reservoir Water Supply System
N.J.A.C. 7:11-4.1 et seq.

ADJUSTMENT OF OPERATIONS AND MAINTENANCE EXPENSE COMPONENT TO
REFLECT CHANGE IN SALES BASE AND OPERATING EXPENSE
FOR FISCAL YEAR 2017

ADJUSTMENT OF SOURCE WATER PROTECTION FUND COMPONENT TO
REFLECT NO CHANGE IN COMPONENT RATE
FOR FISCAL YEAR 2017

ADJUSTMENT OF DEBT SERVICE COST COMPONENT TO
REFLECT BOND YEAR PAYMENTS DUE AND REQUIRED
FOR FISCAL YEAR 2017 AND CHANGE IN SALES BASE

ADJUSTMENT OF NJEIFP DEBT COMPONENT TO
REFLECT BOND YEAR PAYMENTS DUE AND REQUIRED
FOR FISCAL YEAR 2017

Effective Date: July 1, 2016

Hearing Officer: Louis C. Mai

TABLE OF CONTENTS

	<u>Page</u>
I. Introduction	1
II. Discussion	5
III. Findings and Conclusions	9
IV. Recommendations	10

Appendices

<u>Resolution Proposing Rate Adjustments</u>	Exhibit A
<u>Basis and Background Document in Support of Rate Adjustment Proposal</u>	Exhibit B
<u>Advertisement and Certification</u>	Exhibit C
<u>New Jersey Register Notice</u>	Exhibit D
<u>Minutes of Pre-Public Hearing Meeting</u>	Exhibit E
<u>Transcript of Public Hearing</u>	Exhibit F
<u>Correspondence and Testimony</u>	Exhibit G
<u>Staff Memorandum to Hearing Officer (4/25/16)</u>	Exhibit H
<u>Draft Resolution Adopting Rate Adjustments</u>	Exhibit I
<u>Draft Resolution Adopting FY2017 Budget</u>	Exhibit J

I. INTRODUCTION

Summary:

Staff has proposed amendments to the Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Manasquan Reservoir Water Supply System N.J.A.C. 7:11-4.1 et seq., (the "Rules") for Fiscal Year (FY) 2017 (Final Proposal). As set forth more fully below, I recommend approval of staff's Final Proposal.

Background:

The New Jersey Water Supply Authority (Authority) has proposed amendments to its Rules to ensure it maintains an adequate revenue structure for the Authority's FY2017 operations and to adjust the Debt Service Assessment on the Manasquan Reservoir Water Supply System loans to reflect the bond year payments due.

The Authority operates and maintains the Manasquan Reservoir Water Supply System including the intake facilities located in Wall Township on Hospital Road, the Manasquan Reservoir located in Howell Township and 5¼ miles of 66-inch diameter pipeline, which connects the Intake Facilities to the Manasquan Reservoir. Thirteen publicly owned and investor owned water utilities purchase 19.443 million gallons per day (mgd) of untreated water effective July 1, 2015 from the Manasquan Reservoir Water Supply System.

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 new system and the existing Raritan Basin System, the Authority also commenced operating a water treatment plant and transmission system for the Monmouth County Improvement Authority (MCIA) on July 1, 1990. Brielle, Spring Lake, Spring Lake Heights, Sea Girt and Wall Township entered into agreements with the MCIA for this treatment/transmission system, which treats and conveys their portion of the supply from the Manasquan Reservoir System. On September 2, 2009, the Southeast Monmouth Municipal Utilities Authority (SMMUA) purchased the system from the MCIA on behalf of the member municipalities. The Authority continues to operate the treatment/transmission system for SMMUA and as a result, operates, maintains and manages 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, procurement, contract administration, risk management and overall management.

In order to equitably assess each of the three Systems, the Authority retained the services of a recognized public accounting 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 Auditor provides the Authority with its findings as to the adjustment of the allocation factors, if any, and the actual audited expenditures for the fiscal year.

The audit report is available in October (for the previous fiscal year ending on the preceding June 30). At that time 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 budget being prepared each September for the upcoming fiscal year starting on July 1.

The Authority's FY2015 audit was performed by an independent auditor and included a review of allocation factors and actual 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 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. Each rate proposal package includes a summary table showing the proposed insurance budget amounts and the portions allocated to each of the three Systems.

Detailed budgets have been prepared for the Manasquan Reservoir Water Supply System and the Water Treatment Plant/Transmission System. Each System's budget has three main categories of annual operational expenses in addition to the allocation of headquarters overhead. The three categories include salaries and fringe benefits, direct operations and maintenance (O&M) expenses, and general and administrative expenses. The Basis

and Background document supplied to contractual water customers and other interested parties provides detailed information including a summary of the projected line item budget figures for general and administrative expenses and O&M expenses for FY2017.

The total charge for the water supply consists of an O&M rate, a Debt Service Cost Component, a Source Water Protection Component, and the New Jersey Environmental Infrastructure Financing Program (NJEIFP) Component. The O&M Rate is the amount of revenue necessary to fund the net budget requirement (operating expenses, headquarters, general and administrative expenses, capital equipment, reserve contributions, and salary & fringe adjustments) less miscellaneous and unanticipated revenues, and the previous fiscal year's final quarterly O&M payment received during the budgeted fiscal year. The NJEIFP Component will be used to retire loans to the State and the New Jersey Environmental Infrastructure Trust for funds borrowed to construct a building over the Intake Pump Station.

The General Rate Schedule for O&M was last adjusted effective July 1, 2015 to cover the operating expenses of the System for FY2016. The FY2016 sales base was 20.158 mgd, and was projected to decrease to 19.443 mgd in FY2017 in the December 2015 Basis and Background Statement.

The Debt Service Cost Component of the total rate is calculated each year to cover the payments due on the outstanding debt for the System. The Debt Service Cost Component was established effective July 1, 1990 to cover the Bond year payments on the initial loan of \$63,600,000 at a set interest rate of 7.15 percent and the payment for the interim completion loan of \$7,416,000 at an interest rate of 7.16 percent.

During FY1992 the State of New Jersey issued bonds for the \$7,416,000 completion loan at an interest rate of 6.24 percent and the Debt Service Cost Component was adjusted to reflect the lower interest rate on the completion loan bonds.

During FY1997, the Authority negotiated an agreement with the State of New Jersey, which reduced the interest rate on the \$63,600,000 in original State loan notes from 7.15 percent to 5.93 percent effective for the payments due on or after August, 1998.

In August 2005, the Authority refunded the current portion of the State Loan Notes and the Completion Notes at an average coupon of 4.83 percent and net present value savings of \$6.187 million. The term of the bonds is 25 years. The bond proceeds also fully

funded the Debt Service Reserve Account and the debt service coverage must remain at 120 percent through the life of the bonds.

In July of 2006, the Authority issued \$90,147.57 and \$9,505.40 Current State Loan Notes and Completion Loan Notes respectively for a delayed water purchase contract for .028 million gallons per day. The debt service for the notes associated with this water purchase contract is paid in part, through the Debt Service Cost Component of the initial rate, and funds held in escrow by the Authority, contributed by the water purchase customer for this purpose.

The Authority is required by bond covenants to raise sufficient funds so that cash available for debt service is 120% of the net debt service expense.

The 2005 Bonds were eligible for a current refunding after August 1, 2015 and on April 26, 2016 the Authority accepted bids to refund the 2005 Bonds and the 2006 State Loan and Completion Loan Notes. The closing on the 2016 Refunding Bonds is scheduled for May 12, 2016. The Debt Service Cost Component of the rate for the Initial Water Purchase Contracts will be \$636.61/mg in FY2017 and \$770.07/mg for Delayed Water Purchase (DWP) Contracts. This reflects a decrease relative to the December 2015 Initial Proposal from \$669.79/mg for Initial Water Purchasers and \$772.99/mg for Delayed Water Purchasers.

The rate component for FY2017 of \$25.10/mg for repayment of debt to the NJEIFP will not change relative to staff's December 2015 proposal.

Rate Setting Procedure:

The formal rate adjustment proposal was authorized at the Authority's December 7, 2015 monthly meeting (Initial Proposal). The Resolution is set forth in Exhibit A.

As a component of the formal rate adjustment procedure, the Authority provides official notice and an explanation outlining the need for the proposed rate adjustment 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 proposal's effective date (N.J.A.C. 7:11-4.13(a)1). Staff's December 2015 proposal (included in Exhibit B) was available for review on the Authority's web site.

Official notice of the Initial Proposal was made through advertisement in the Times (Trenton), The Star Ledger, and the Asbury Park Press. 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).

The 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. 7:11-4.13(a)(4), that was conducted by the Executive Director on January 7, 2016. No members of the public attended. Minutes of the pre-public hearing meeting are set forth in Exhibit E.

A public hearing was conducted on February 4, 2016 at 11:00 a.m., at the Authority's Manasquan Reservoir System Administration Building Meeting Room, Hospital Road, Wall, New Jersey. No members of the public were in attendance. A stenographic record of the proceedings was made and is attached in Exhibit F.

No items of correspondence were received during the rate process and prior to the close of the Public Comment Period. This is reflected in Exhibit G.

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

A draft resolution by the Authority's Board approving the Rule proposal is set forth in Exhibit I for 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

Staff proposes various adjustments to the Rules, which are generally discussed herein and more particularly set forth in the attachments hereto.

A. Initial Water Purchase Rate.

In staff's Final Proposal, staff recommends a total rate of \$1,104.58/mg effective July 1, 2016. This reflects an increase of \$47.18/mg relative to FY2016 and a decrease of \$33.18 relative to staff's Initial Proposal. The sales base for the Initial Water Purchase Contracts decreases from 15.723 mgd in FY2016 to 15.008 mgd in FY2017, and is no change from the Initial Proposal.

The O&M Component for FY2017, \$432.87/mg, is an increase over the FY2016 rate of \$386.00/mg and there is no change from the Initial Proposal. In FY2017, Headquarters General and Administrative charges to the Manasquan System are unchanged and Unanticipated Revenue to offset the Operations and Maintenance Component of the rate is increased. The FY2017 Operations and Maintenance Component will continue to be subsidized to the extent of 20 percent excess debt service raised as a requirement of the Authority's bond resolutions, in the prior fiscal year. The amount used to subsidize the rate, \$600,000 in FY2017, is in line with the actual amount of excess debt service raised; therefore it is prudent to use this level of funding as long as debt is outstanding. The FY2017 Operations and Maintenance Component of the rate will also be subsidized by net year-end balances available from FY2015 of approximately \$327,740. This is a reduction from the Initial Proposal of \$52,260. Insurance expense was reduced by the same amount. The March 2016 insurance program remarketing generated savings; therefore it was prudent to reduce the use of non-recurring revenue commensurately.

The proposed operating expense budget for FY2017 is \$57,810 more than FY2016 because of higher salary and benefits expenses. The proposed Capital Equipment Budget is \$24,500 lower than FY2017. There is a \$10,000 contribution to the Sediment Reserve, a \$15,000 contribution to the High Voltage Testing Reserve, a \$5,000 contribution to the Formal Dam Inspection Reserve and a \$120,000 contribution to the Renewal and Replacement Fund. There is also a \$35,000 contribution to fund Other Post-Employment Benefits Reserve to pay out accumulated sick leave for retirees. Finally there is a supplemental appropriation of \$350,000 to the Renewal and Replacement Reserve to address additional capital expenditures. Interest income is expected to remain the same in FY2017 relative to FY2016. Staff anticipates an overall increase of \$183,880 in the net budget requirement for the O&M Component during FY2017, no change from the Initial Proposal.

With the allocation of appropriate Headquarters General and Administrative costs to the System, the projected operating costs

for FY2017 indicate that an O&M rate component of \$432.87/mg is required commencing July 1, 2016. This reflects an increase of 12.14 percent relative to FY2016 and no increase relative to the Initial Proposal.

The proposed FY2017 Debt Service Assessment of \$636.61/mg commencing July 1, 2016, reflects no increase in the rate over FY2016, and a decrease of \$33.18/mg in the rate relative to the Initial Proposal. The debt service schedule will be adjusted to reflect savings from refunding the 2005 Manasquan Reservoir System Revenue Bonds. The savings is offset by a further reduction in the sales base applied to the Debt Service Assessment for Initial customers of 715,000 gallons per day from 15.723 million gallons per day in FY2016 to 15.008 million gallons per day in FY2017, no change from the Initial Proposal.

The Source Water Protection Assessment was established at \$15.00/mg on July 1, 2003, to protect the quality and quantity of water in the Manasquan Water Supply System. The fund is used for three purposes in cooperation with State, local and nonprofit partners: (1) administrative assistance in the preservation of those properties in the Manasquan River Basin that are critical to the long-term protection of water quality and quantity in the Manasquan Reservoir Water Supply System as they may affect Authority customers; (2) improved management of land development by municipal, county and State government to protect both water quality and flows to and within Authority facilities; and (3) remedial projects to improve water quality from existing conditions. This rate component was decreased to \$10.00/mg in FY2016. There will be no change in the Source Water Protection Assessment in FY2017, and no change from the Initial Proposal.

The New Jersey Environmental Infrastructure Trust Financing Program (NJEIFP) Debt Component was established in FY2012 at a level of \$35.42/mg to repay debt to the NJEIFP for a loan issued to construct a building structure over the intake pump station at the Manasquan Reservoir Water Supply System to protect the pumps and water travel screens from deterioration due to exposure to the elements and extend the useful life of the equipment. The Bonds were sold in May of 2012 at terms more favorable than originally anticipated. Staff is recommending an increase from \$24.79/mg in FY2016 to \$25.10/mg in FY2017, no change from the Initial Proposal.

Staff recommends amending the Rules to reflect a total rate including the O&M Component, Debt Service Cost Component, NJEIFP Debt Component and Source Water Protection Assessment of \$432.87/mg, \$636.61/mg, \$25.10/mg and \$10.00/mg respectively

equaling a total rate of \$1,104.58/mg, a 4.46 percent increase relative to FY2016 and a decrease of \$33.18/mg from the Initial Proposal.

B. Delayed Water Purchase Rate.

Pursuant to the Authority's Bond Resolution, contracts executed subsequent to 1993 (Delayed Water Purchase Contracts) are subject to a rate equal to the O&M Component plus a Source Water Protection Fund Component, a Debt Service Cost Component associated with the accreted bond interest for the period of 1990 through 1993, and any other debt service requirements such as the NJEIFP Debt Component. New Jersey American Water executed delayed water purchase contracts for the purchase of 1.000 mgd, effective July 1, 2001, 1.935 mgd, effective October 1, 2002, and 1.500 mgd effective January 1, 2005.

Staff's Final Proposal makes no change to the sales base for Delayed Water Purchase Contract effective July 1, 2001, October 1, 2002, and January 1, 2005. Staff recommends an increase in the FY2017 combined rate from \$1,190.86/mg to \$1,238.04/mg, an increase of \$47.18 relative to FY2016, and a decrease of \$2.92/mg from the Initial Proposal.

The proposed FY2017 Debt Service Assessment of \$770.07/mg commencing July 1, 2016, reflects no change in the rate compared to FY2016, and a decrease of \$2.92 relative to the Initial Proposal.

Staff recommends amending the Rules to reflect a total rate including the O&M Component, Debt Service Cost Component, NJEIFP Debt Component and Source Water Protection Assessment of \$432.87/mg, \$770.07/mg, \$25.10/mg and \$10.00/mg respectively for a total rate of \$1,238.04/mg, which represents a decrease of \$2.92/mg from the Initial Proposal and an increase over FY2016 of 3.96 percent.

C. Other Amendments.

There are no other amendments to the Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Manasquan Reservoir System, no change from the Initial Proposal.

D. Comment by Interested Parties / Members of the Public.

The Authority Staff conducted a pre-public hearing meeting on January 7, 2016. No members of the public attended.

The Authority held a public hearing on February 4, 2016. No members of the public were in attendance.

No items of communication or correspondence were received.

I present my findings below.

III. FINDINGS AND CONCLUSIONS

1. The public record does not contain any specific adverse comments concerning Staff's justification for the sales base and proposed Operations and Maintenance Expense Component of the Rate. The Manasquan Reservoir System rate was last increased on July 1, 2015 to address expected losses in the sales base and a growing reliance on the use of non-recurring revenue. Prior to that adjustment, the Manasquan Reservoir System rate had not been increased since July 1, 2011. 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. The Authority participates in the State's power cooperative purchasing and benefited from a 10 percent reduction in power costs. An insurance program remarketing generated 7 percent savings in insurance premiums. Salary and fringe benefits expense continue to increase. The Operations and Maintenance Expense Component of the rate is impacted in FY2017 by a further decrease in the sales base. Twelve of the Authority's 13 water purchase contracts were renewed effective July 1, 2015. Customers were oversubscribed and the sales base at contract renewal totaled 19.446/mgd, or a loss of 1.117/mgd. The reduction in sales base has the effect of increasing the rate. I find that the FY2017 Operations and Maintenance Expense Component of the rate and sales base to be appropriate.
2. The public record does not contain any adverse comments concerning Staff's justification for the sales base and proposed rate adjustment to the Debt Service Cost Component of the Rate Assessment. The Authority is required by its bond resolutions to adopt rates that fully cover its Debt Service payments including an additional 20 percent coverage. I find the FY2017 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 Source Water

Protection Fund Component of the Rate. I find the proposed FY2017 Source Water Protection Fund Component to be appropriate.

4. The public record does not contain any adverse comments concerning Staff's justification for the NJEIFP Debt Component of the Rate for FY2017 for repayment of debt to the NJEIFP. I find the FY2017 NJEIFP Debt Component to be appropriate.
5. The Authority's proposed rate adjustments in Section IV below reflect the assessment of reasonable total rates for the preservation of the reliability of this vital supply of water for a vital portion of the State's population and to assure that the System is adequately maintained.

IV. RECOMMENDATIONS

1. Resolution No. 2210 dated 12/7/15 authorized \$1,013,300 in unanticipated revenues to be appropriated into the Rate Stabilization Fund, all of which would be used in the FY2017 MRS budget.¹ The resolution adopting the final rates will authorize \$995,300 in unanticipated revenues to be appropriated into the Rate Stabilization Fund for use in FY2017.
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 Authority should adopt a FY2017 total Original Water Purchase rate of \$1,104.58/mg and total Delayed Water Purchase Rate of \$1,238.04/mg. This is a decrease from the originally proposed rates and as such no further Rule change is necessary.
4. The Authority should adopt a FY2017 O&M rate component of \$432.87/mg for Initial Water Purchase Contracts, Delayed Water Purchase Contracts dated July 1, 2001, October 1, 2002, January 1, 2005 and July 1, 2006. This is consistent with the Initial Proposal and as such no further Rule change is necessary.

¹ It should be noted that this credit has the effect of obscuring the full O&M Component increase otherwise needed, and the Authority's customers are cautioned that a greater increase in the O&M Component may likely result at a future date.

5. The Authority should adopt a FY2017 Debt Service Assessment Rate of \$636.61/mg for the Initial Water Purchase Contracts and the Shorelands Water Company Delayed Water Purchase Contract dated July 1, 2006. This is a decrease from the Initial Proposal and as such no further Rule change is necessary.
6. The Authority should adopt a FY2017 Debt Service Assessment Rate for the Delayed Water Purchase Contracts dated July 1, 2001, October 1, 2002, and January 1, 2005 of \$770.07/mg. This is a decrease from the Initial Proposal and as such no further Rule change is necessary.
7. The Authority should adopt a FY2016 NJEIFP Debt Component Rate of \$25.10/mg. This is consistent with the Initial Proposal and as such no further Rule change is necessary.
8. The Authority should adopt a FY2017 rate of \$10.00/mg for the Source Water Protection Fund Component, which is unchanged from the Initial Proposal. As such no further Rule change is necessary.
9. There is no change from the Initial Proposal to the FY2017 total O&M Component Sales Base of 19.443/mgd, the Initial Water Purchase Contract Sales Base of 15.008/mgd and the Delayed Water Purchase Contract Sales Base of 4.435/mgd.
10. The Authority's proposed rate adjustments reflect the assessment of reasonable total rates for the preservation of the reliability of this vital source of water for the region served by this facility.

SUMMARY OF RECOMMENDED RATE ADJUSTMENTS

Initial Water Purchase Contracts

Dated July 1, 2015 and Delayed Water Purchase Contract Dated July 1, 2006

Component	Current Rates Per MG 7/1/14-6/30/15	Initial Proposed Rates Per MG 7/1/15-6/30/16	Recommended Rates Per MG 7/1/15-6/30/16
Operations & Maintenance Expense Component	\$ 386.00	\$ 432.87	\$ 432.87
Source Water Protection Fund Component	\$ 10.00	\$ 10.00	\$ 10.00
Debt Service Cost Component	\$ 636.61	\$ 669.79	\$ 636.61
NJEIFP Debt Component	\$ 24.79	\$ 25.10	\$ 25.10
Total Rate	\$1,057.40/mg	\$1,137.76/mg	\$1,104.58/mg

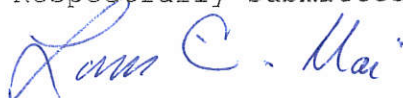
Delayed Water Purchase Contracts

Dated July 1, 2001, October 1, 2002, and January 1, 2005

Component	Current Rates Per MG 7/1/14-6/30/15	Initial Proposed Rates Per MG 7/1/15-6/30/16	Recommended Rates Per MG 7/1/15-6/30/16
Operations & Maintenance Expense Component	\$ 386.00	\$ 432.87	\$ 432.87
Source Water Protection Fund Component	\$ 10.00	\$ 10.00	\$ 10.00
Debt Service Cost Component	\$ 770.07	\$ 772.99	\$ 770.07
NJEIFP Debt Component	\$ 24.79	\$ 25.10	\$ 25.10
Total Rate	\$1,190.86/mg	\$1,240.96/mg	\$1,238.04/mg

The proposed Adjustments to the "Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Manasquan Reservoir Water Supply System", with an effective date of July 1, 2016 are hereby recommended for adoption by the Authority.

Respectfully submitted,



Louis C. Mai
Hearing Officer
April 26, 2016

Resolution Proposing Rate Adjustments

Exhibit A

RESOLUTION OF THE NEW JERSEY WATER SUPPLY AUTHORITY

NO.: 2210

DATE OF ADOPTION: 12/07/15

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 Manasquan Reservoir 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 fiscal year beginning on July 1, 2016; and

WHEREAS, the sales base for the Operations and Maintenance Expense Component and Source Water Protection Fund Component has decreased to 19.443 million gallons per day since these components were last determined; and

WHEREAS, the sales base for the Debt Service Cost Component for the initial water purchasers has decreased to 15.008 million gallons per day since this component was last determined; and

WHEREAS, the sales base for the Debt Service Cost Component for the delayed water purchasers has remained at 4.435 million gallons per day since this component was last determined; and

WHEREAS, the sales base for the proposed NJEIFP Debt Component is 19.443 million gallons per day; 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 Manasquan Reservoir System in the existing regulations found at N.J.A.C. 7:11-4.1 et seq. dealing with primarily the following proposed changes:

1. Amend N.J.A.C. 7:11-4.3(c) of the Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Manasquan Reservoir System to reduce the sales base to 19.443 million gallons per day and increase the Operations and Maintenance Expense Component Rate to \$432.87 per million gallons consistent with the Initial Proposal, for the period of July 1, 2016 through June 30, 2017; and
2. Amend N.J.A.C. 7:11-4.4(b) and (c) of the Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Manasquan Reservoir System to reduce the sales base to 15.008 million gallons per day, and increase the Debt Service Assessment Rate for water purchasers who entered into water purchase contracts effective July 1, 1990 (Initial Water Purchase Contract) to \$669.79 per million gallons, and increase the Debt Service Assessment Rate for water purchasers who entered into water purchase contracts effective July 1, 2001, October 1, 2002, and January 1, 2005 (Delayed Water Purchase Contract) to \$772.99 per million gallons consistent with the Initial Proposal for the period of July 1, 2016 to June 30, 2017; and

3. Amend N.J.A.C. 7:11-4.5(b) of the Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Manasquan Reservoir System to maintain the Source Water Protection Fund Component at \$10.00 per million gallons consistent with the Initial Proposal for the period July 1, 2016 to June 30, 2017; and

4. Amend N.J.A.C. 7:11-4.6 of the Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Manasquan Reservoir System to increase the New Jersey Environmental Infrastructure Financing Program (NJEIFP) debt component of the rate to \$25.10 per million gallons consistent with the Initial Proposal for the period July 1, 2016 to June 30, 2017;

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

1. Appropriate \$1,013,300 in undesignated fund balance from the Fiscal Year ending June 30, 2015 into the General Fund (Rate Stabilization).
2. Transfer \$40,000 from the Source Water Protection Fund into the General Fund (Rate Stabilization).
3. Apply \$668,300 appropriated into the General Fund (Rate Stabilization) to the Operating Fund for Fiscal Year 2017.
4. Apply an additional \$350,000 to Renewal and Replacement Fund for FY2017.
5. Create an Other Post-Employment Benefits Reserve and apply \$35,000 for FY2017.

**Basis and Background Document in
Support of Rate Adjustment Proposal**

Exhibit B

NEW JERSEY WATER SUPPLY AUTHORITY

BASIS AND BACKGROUND STATEMENT

**PROPOSED AMENDMENTS TO N.J.A.C. 7:11-4.1, et seq. IN THE SCHEDULE OF
RATES, CHARGES AND DEBT SERVICE ASSESSMENTS
FOR THE SALE OF WATER FROM THE
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM**

**ADJUSTMENT OF OPERATIONS AND MAINTENANCE EXPENSE COMPONENT
TO REFLECT CHANGE IN SALES BASE AND OPERATING EXPENSE
FOR FISCAL YEAR 2017**

**ADJUSTMENT OF SOURCE WATER PROTECTION FUND COMPONENT TO
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**ADJUSTMENT OF DEBT SERVICE COST COMPONENTS TO
REFLECT BOND YEAR PAYMENTS DUE AND REQUIRED
FOR FISCAL YEAR 2017 AND CHANGE IN SALES BASE**

**ADJUSTMENT OF NJEIFP DEBT COMPONENT TO
REFLECT BOND YEAR PAYMENTS DUE AND REQUIRED
FOR FISCAL YEAR 2017 AND CHANGE IN SALES BASE**

Proposed Effective Date: July 1, 2016

Approved by the Board: 12/7/2015

Contents

PART I – EXPLANATION OF PROPOSED REVISED RATE STRUCTURE.....	4
Overview of Rate Proposal for Fiscal Year 2017	4
Summary of Proposed Adjustments.....	4
Initial Water Purchase Contracts	4
New Jersey American Water Delayed Water Purchase Contracts.....	5
Schedule of Events.....	7
Distribution of Headquarters General and Administrative Costs and Insurance Costs to all Operating Systems	8
Distribution of Costs Between the Manasquan Reservoir System and the Treatment Plant/Transmission System.....	9
Analysis of Significant Changes in Operations and Maintenance Expenses and Sales Base - Manasquan Reservoir System.....	9
Insurance Program	11
Fees and Permits	11
Headquarters General and Administrative Expenses.....	12
Interest Income and Miscellaneous Revenue.....	12
Reserve Contributions.....	12
Review of Reserve Accounts	12
Source Water Protection Fund Rate Component	13
Optional Water Use Schedule.....	14
Overdraft Service	14
Other Rule Amendments.....	14
PART II – DETAILED SUPPORTING INFORMATION	15
Table 1 - Summary Of Proposed Fiscal Year 2017 Adjustments.....	15
Table 2 - Rate History of Water Charges per Million Gallons of Raw Water - Initial.....	16
Table 3 - Rate History of Water Charges per Million Gallons of Raw Water - Delayed.....	17
Schedule of Events.....	18
Proposed Fiscal Year 2017 Budget Summary	19
Schedule 1 - Total Operations & Maintenance Budget	20
Schedule 2 - Labor Projection	21
Schedule 3 - Reservoir System Operations and Maintenance Direct Expense Budget.....	22
Schedule 4 - Treatment Plant/Transmission System Operations and Maintenance Direct Expense Budget	23
Schedule 5 - Reservoir System General and Administrative Operations and Maintenance Direct Expense Budget	24
Schedule 6 - List Of Category 5340 Items Recommended Service & Maintenance Contracts For Reservoir (40).....	25
Schedule 7 - List Of Category 5340 Items Recommended Service & Maintenance Contracts For WTP/TS (50)	26
Schedule 8 - List Of Category 5340 Items Recommended Service & Maintenance Contracts For G & A (60)	27
Schedule 9 - List Of Category 5380 Items Recommended Special & Professional Service For Reservoir (40)	28
Schedule 10 - List Of Category 5380 Items Recommended Special & Professional Services	

For WTP/TS (50)	29
Schedule 11 - List Of Category 5380 Items Recommended Special & Professional Services For G & A (60)	30
Schedule 12 - Projected FY 2017 New Jersey Water Supply Authority Insurance Program...	31
Schedule 13 - Recap Of Allocation Of Headquarters General And Administrative Expenses Charged To The Manasquan Reservoir Water Supply System	32
Schedule 14 - Proposed Capital Equipment Budget	33
Schedule 15 - July, 2014 – June, 2015 Fiscal Year 2015 G&A Expenses Split.....	34
Schedule 16 - Estimate Of Interest Income	37
Schedule 17 - Unanticipated Revenue	38
Schedule 18 - Fund Balances as of 6/30/15	39
Schedule 19 - Operations & Maintenance Expense Component and Debt Service Cost Component Sales Base.....	40
Schedule 20 - Operations And Maintenance Rate Component (19.443mgd).....	41
Schedule 21 - Computation Of Base Debt Service Rates	42
Schedule 22 - Computation Of Delayed Water Purchase Debt Service Rates	43
Schedule 23 - Computation Of Base Debt Service Rates	44
Schedule 24 - 2005 Bond Debt Service Coverage.....	45
Schedule 25 - Rehabilitation Reserve and Capital Improvement Program	46
PART III – PROPOSED RULE AMENDMENTS	55
Appendix I. Report of CLA PC – Allocation of Headquarters General and Administrative Expenses – FY 2017	i
Appendix II. Report of CLA PC – Allocation of Headquarters General and Administrative Expenses – Audited FY 2015 Expenditures	ii

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 Manasquan Reservoir Water Supply System (System), to cover expenses for the Fiscal Year (FY) starting on July 1, 2016.

The Authority operates and maintains the System including the Intake Facilities located in Wall Township adjacent to Hospital Road, the Manasquan Reservoir located in Howell Township and 5 1/4 miles of 66-inch diameter pipeline which connects the Intake Facilities to the Reservoir. The Authority also operates and maintains a water treatment plant located on the same site as the Reservoir Intake Facilities and approximately 39,000 feet of transmission piping. This treatment plant/transmission system was constructed and is being operated by the Authority for the Southeast Monmouth Municipal Utilities Authority (SMMUA) on behalf of the Boroughs of Brielle, Spring Lake, Spring Lake Heights, Sea Girt and Wall Township, which have entered into agreements with SMMUA for the treatment/transmission of their portion of the supply from the System.

Summary of Proposed Adjustments

Initial Water Purchase Contracts of 15.008mgd (15.695mgd at July 1, 1990 and 14.980mgd at July 1, 2015) and Shorelands (.028mgd) delayed water contract effective July 1, 2006:

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 Component	\$386.00	\$432.87
Source Water Protection Fund Component	10.00	10.00
Debt Service Cost Component	636.61	669.79
NJEIFP Debt Component	24.79	25.10
TOTAL RATE	\$1,057.40/mg	\$1,137.76/mg

New Jersey American Water Delayed Water Purchase Contracts Effective July 1, 2001, October 1, 2002 and January 1, 2005 (4.435mgd):

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 Component	\$386.00	\$432.87
Source Water Protection Fund Component	10.00	10.00
Debt Service Cost Component	770.07	772.99
NJEIFP Debt Component	24.79	25.10
TOTAL RATE	\$1,190.86/mg	\$1,240.96/mg

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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 FY2015 sales base was 20.158 million gallons per day (mgd). The Authority anticipates that the applicable raw water O&M sales base for FY2017 will decrease to approximately 19.443 mgd, a reduction of 715,000 gallons per day. The Authority estimates the initial sales base will decrease from 15.723 mgd to 15.008mgd. The delayed sales base will remain at 4.435mgd.

After the allocation of appropriate Headquarters General and Administrative costs to the System, the Authority anticipates \$2,986,938 in O&M component revenue required during FY2017 with an O&M rate component of \$432.87 per million gallons, an increase of \$46.87 per million gallons from FY2016, starting on July 1, 2016 (Schedule 20, page 41). The proposed operating expense budget for FY2017 is \$110,100 more than FY2016 and the proposed Capital Equipment Budget, net of depreciation reserve, is \$24,500 less than FY2016. In FY2017 there will be a \$10,000 contribution to the Sediment Reserve Fund, a \$120,000 contribution to the Renewal and Replacement Fund, a \$5,000 contribution to the Formal Dam Inspection Reserve, and a \$15,000 contribution to the High Voltage Testing Reserve Fund, the same as in FY2016. Now in FY2017 there will be a \$35,000 contribution to the Other Post Employment Benefits Reserve and a \$350,000 contribution to the Supplemental Renewal and Replacement Fund. See Budget Summary on page 19.

A credit of \$69,577.72 is owed from the Manasquan Reservoir System to the SMMUA Water Treatment Plant and Transmission System for actual FY2015 salaries and fringe expenses and will be applied to the CY2016 SMMUA budget (Schedule 15, pages 34-36).

Miscellaneous revenue and interest income in FY2017 is projected to increase by \$407,600

relative to FY2016 reflecting stable interest earnings (Schedule 16, page 37) and an increase in the use of year end surplus available from FY2015 (Schedule 17, page 38). Additionally, overdraft revenue of \$27,609 is available from the summer of 2015.

The System was financed with loans from the State of New Jersey and a Debt Service Assessment for contracts, effective as of July 1, 1990, was established to cover debt service payments on the initial loan of \$63,600,000 at a set interest rate of 7.15 percent and payment of the interim completion loan of \$7,416,000 at an interest rate of 7.16 percent. During FY1992 the State of New Jersey reduced the interest rate on the completion loan to 6.24 percent. During FY1997, the Authority negotiated an agreement with the State of New Jersey, which reduced the interest rate on the \$63,600,000 original State Loan Notes from 7.15 percent to 5.93 percent effective for the payments due on or after August 1998. The Debt Service component of the rate has been adjusted in the past to reflect the revised debt service schedules.

In August of 2005, the Authority refunded the current portion of the State Loan Notes and the Completion Notes at an average coupon of 4.83 percent and net present value savings of \$6.187 million. The terms of the bonds are 15 and 25 years respectively. The bond proceeds also fully funded the Debt Service Reserve Account and debt service coverage must remain at 120 percent through the life of the bonds.

The Debt Service component of the rate for the Initial Water Purchase Contracts will be \$669.79 (an increase of \$33.18) and \$772.99 (an increase of \$2.92) for the Delayed Water Purchase (DWP) Contracts in FY2017. These changes reflect 120 percent real debt service coverage.

The Authority established a Source Water Protection Fund Component in FY2004 dedicating \$15.00 per million gallons to protect the quality and quantity of water in the Manasquan Water Supply System. The Authority decreased the rate component by \$5.00 per million gallons from \$15.00 to \$10.00 for this fund in FY2016 and recommends no change in FY2017.

The Authority closed on a loan to the New Jersey Environmental Infrastructure Financing Program (NJEIFP) on May 3, 2012 to finance the construction of a building structure over the Intake Pump Station and traveling water screens to protect the infrastructure from degradation by the elements. The final interest on the loan is based on 75 percent at zero interest and 25 percent market rate with coupons up to 5 percent for an effective interest rate of .8 percent over the twenty year life of the loans. The rate component of \$25.10 per million gallons in FY2017) is required to cover debt service payments in accordance with the schedule and is an increase of \$.31 over the FY2016 rate of \$24.79 per million gallons.

The base contract O&M Rate (\$432.87), Source Water Protection Program Rate (\$10.00), Debt Service Rate (\$669.79) and NJEIFP Debt Rate (\$25.10) comprise the total base contract rate for raw water of \$1,137.76 per million gallons, and represent an increase of \$80.36 per million gallons relative to FY2016. This base contract rate is charged to all uninterruptible service contracts executed prior to July 1, 1990 (and renewed at July 1, 2015), the commencement date of Manasquan Reservoir System operations, and one Delayed Water Purchase contract with Shorelands Water Company executed on July 1, 2006. In order for its customers to be assessed the base contract rate

on the .028mgd delayed contract, Shorelands Water Company prepaid the net present value of the difference between the initial water purchase contracts debt service schedule and the delayed water purchase contracts debt service schedule.

The total rate for delayed water purchase contracts in FY2017 is \$1,240.96 per million gallons representing an increase of \$50.10 per million gallons relative to the FY2016 delayed water purchase rate. The O&M Component (\$432.87), the Source Water Protection Fund Component (\$10.00), the Debt Service Rate Component (\$772.99) and NJEIFP Debt Rate (\$25.10) comprise the total rate.

Table 1 (page 15) contains a summary of the proposed base contract rate and delayed water purchase contract rate components. The proposed rates shown in Table 1 are effective July 1, 2016 through June 30, 2017. These rates are based upon the projected operating costs and reflect an estimated contracted sales base of 19.443mgd.

Table 2 (page 16) is a twenty-year history of the total initial water purchase contract annual water rate.

Table 3 (page 17) is a fifteen-year history of the combined delayed water purchase contract annual water rates.

Water use payments are to be made quarterly with due dates of October 10, 2015, January 10, 2016, April 10, 2016 and July 10, 2016.

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 adjustment.

Schedule of Events

A pre-public hearing on the proposed rate adjustment is scheduled at 11:00 a.m. on Thursday, January 7, 2016, at the Authority's Manasquan Administration Building, Hospital Road, Wall, New Jersey.

A public hearing on the proposed rate adjustment is scheduled at 11:00 a.m. on Thursday, **February 4, 2016, also at the Authority's Manasquan Administration Building in Wall, New Jersey.** The public hearing record is scheduled to close on March 14, 2016.

The Authority will take final action on the proposed rate adjustment at its June 6, 2016 meeting at the Authority's Administration Building in Clinton, New Jersey.

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, which treats and conveys their portion of the supply from the Manasquan Reservoir Water Supply 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 also operates the Spruce Run/Round Valley Reservoirs Complex and the Delaware and Raritan Canal Water Supply Transmission Complex comprising the Raritan Basin System, headquartered in Clinton, New Jersey. As a result, 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 the customers of 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 current Auditors provide the Authority with their findings as to the adjustment, if any, of 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 auditor performed the Authority's fiscal year 2015 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 additional information.

Distribution of Costs Between the Manasquan Reservoir System and the Treatment Plant/Transmission System

A common staff operates the System and the Treatment Plant/Transmission System. Salaries are allocated between the two Systems based upon time records that were kept during the fiscal year ending on June 30, 2015. The percentages used to provide the basis for the salary allocation for FY2017, were established from the time records from FY2012 through FY2015. A listing of all positions and the percentage of each position's time assigned to each of the two Systems appear on Schedule 2 (page 21).

Detailed budgets have been prepared for the Manasquan Reservoir System and the Treatment Plant/Transmission System. Each System's budget has three main categories of annual operational expenses in addition to the allocation of headquarters overhead. The three categories include (a) salaries and fringes (b) direct operation and maintenance expenses and (c) general and administrative expenses. Part 2 of this document provides more information on both Systems including detailed summaries of the projected line item budget figures for General and Administrative expenses and Operations and Maintenance expenses for FY2017.

Analysis of Significant Changes in Operations and Maintenance Expenses and Sales Base - Manasquan Reservoir System

Overview of Sales Base

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. Twelve of the 13 original water purchase contracts expired after a 25-year term, on June 30, 2015 and were renewed effective July 1, 2015. Five are two-party contracts with the New Jersey Water Supply Authority. These are the five treated water customers (Wall Township and the Boroughs of Brielle, Sea Girt, Spring Lake and Spring Lake Heights) of the Southeast Monmouth Municipal Utilities Authority's water treatment plant operated by the New Jersey Water Supply Authority. One is a three party contract (Keyport Borough) among the Authority, the customer and Shorelands Water Company for the delivery of water through Shorelands' distribution system. Six contracts (the Boroughs of Avon, Belmar, Matawan, Red Bank and Lake Como, and Shorelands Water Company) are three party contracts among the Authority, the customers and New Jersey American for the provision of treated water from New Jersey American. The final customer contract, New Jersey American, consolidated the initial water purchase and delayed water purchases for a total of 12.5mgd and has an expiration date of June 30, 2031. The total sales base through FY2015 was 20.560mgd, was expected to drop to 20.158mgd as reflected in the FY2016 Basis and Background Document and is actually 19.443mgd at renewal effective July 1, 2015.

Overview of Projected Operational Expenses

The Authority's proposed FY2017 Manasquan Reservoir Operating Expense budget is \$110,100 more than the current FY2016 budget. The allocation of Authority Headquarters General and Administrative Expenses in FY2017 remains the same as in FY2016 and the Capital Equipment budget for FY2017 is \$24,500 less than FY2016. There will be no FY2017 contribution to the Depreciation Reserve account, Insurance Reserve, or Pumping Reserve. There will be a \$10,000 contribution to the Sediment Reserve, a \$5,000 contribution to the Formal Dam Inspection Reserve, and a \$15,000 contribution to the Reserve for High Voltage Testing. Formal Dam Inspections and High Voltage Testing are performed every three years and rather than raising the entire amount every third year, budget stability is created by raising one third of the cost every year. There will be a normal contribution to the Renewal and Replacement Fund of \$120,000 and an extra contribution to the Renewal and Replacement Fund of \$350,000 funded by a one-time infusion of operating surplus. There will be a contribution of \$35,000 to a newly created reserve for other post-employment benefits (accrued sick leave payments for retirees). Miscellaneous revenue and interest income increases by \$413,300. These factors contribute to a \$183,870 increase in the total FY2017 O&M Component requirement relative to FY2016 (\$2,803,068 vs. \$2,986,938). (Budget Summary on page 19)

Total O&M Direct Expenses are decreasing by \$1,732 from FY2016. The largest contributor is a decrease in electricity offsetting minor increases in other expense categories. The Authority is again funding a water quality gaging station upstream at Squankum which will be operated by the USGS and will be useful to the Authority in attempting to determine the root cause of changes to water quality and color in the Manasquan River Basin over the past several years. The Authority will transfer \$40,000 per year from the Source Water Protection Fund to cover the cost of this gaging station. General and Administrative Expenses allocated to the Reservoir System are decreasing by \$13,070 from FY2016.

Salaries, Overtime 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 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.

Salary and fringe is increasing by a total of \$122,561 for FY2017, however the portion allocated to the Reservoir System is increasing by \$124,900 reflecting that the four-year averaging of allocation between the Reservoir System and the Treatment Plant projects the movement of more salary dollars to the Reservoir System from the Treatment Plant. The number of budgeted positions in FY2017 is 27, which is the same as FY2016. (Schedule 2, page 21) The Authority is budgeting 69 percent of the salary budget for fringe benefits in FY2017 which is inclusive of retiree medical.

In FY2017, 49 percent of total salary and fringe is allocated to the Reservoir System which is a slight increase from FY2016 (47 percent). This gradual shift in salary time (manager, facilities mechanics, and equipment operators) allocable from the Reservoir System to the Treatment Plant is due to the completion of construction of major water treatment plant upgrades including the ground level finished water storage, the caustic system and the lagoons during 2014 and 2015.

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, a co-payment is required. The Authority retiree health benefits expense item is decreasing in FY2017 from \$201,500 to \$194,800. The original retirement estimates for FY2016 were not realized and unless there are an unusually high number of retirements in FY2017, the line item should be adequate. Because there are only four retirees at present in the Manasquan System, each additional retiree will drive a large increase on a percentage basis. The FY2017 budget plans for three additional retirees, the same number that was budgeted for FY2016 but not realized.

Insurance Program

The Authority is recommending a \$5,482 decrease in insurance expenses for FY2017 reflecting general market conditions based on the advice of the Authority's insurance broker and consultant. As always, the Authority will review the rate projection for FY2017 in February 2016 to determine if adjustments are necessary.

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.

Fees and Permits

Staff proposes a FY2017 budgetary line item of \$33,900 for fees and permits reflecting only a slight increase over FY2016.

Headquarters General and Administrative Expenses

Budgeted Headquarters General and Administrative Expenses in FY2017 total \$823,329 of which, \$709,165 is charged to the Manasquan Reservoir System and \$114,164 is charged to the Manasquan Water Treatment Plant (Schedule 13, page 32). Because actual audited Headquarters Expenses were lower than the budget for FY2015 by \$79,269 that difference must be credited in FY2017 resulting in an adjusted charge to the Reservoir System of \$640,000. Headquarters charges are driven primarily by salary and fringe.

Interest Income and Miscellaneous Revenue

The projected interest earnings on reserve funds for FY2017 are \$11,200. This reflects no change relative to FY2016 and is based upon an interest rate of .25 percent for short-term investments and a rate of 1.30 percent on long-term investments (See Schedule 16, page 37).

Reserve Contributions

Consistent with FY2016, there will be no FY2017 contribution to the Depreciation Reserve account, the Insurance Reserve or the Pumping Reserve. There will be a \$10,000 contribution to the Sediment Reserve. There will be a regular \$120,000 contribution to the Renewal and Replacement Fund, a \$5,000 contribution to the Reserve for Formal Dam Inspections and a \$15,000 contribution to the Reserve for High Voltage Testing. Formal Dam Inspections and High Voltage Testing are performed every three years and rather than raising the entire amount every third year, budget stability is created by raising one third of the cost every year. There are two new reserve fund contributions in FY2017. There will be a supplemental contribution of \$350,000 to the Renewal and Replacement Fund. The Authority requires a minimum balance of \$2 million in the fund to cover dam emergencies, and pipeline and pump emergent repairs. Because the system is aging, there are normal maintenance expenditures included in the five year plan that will draw the fund down below the \$2 million requirement. Finally, the Authority will fund a reserve for other post-employment benefits (accrued sick leave) in order to assure that sufficient funds are available to pay out sick benefits as this number is not regularly budgeted in salary and fringe.

Review of Reserve Accounts

Depreciation Reserve Account

This reserve is intended to provide for the replacement of Authority machinery and equipment with a value of \$1,000 or more and a useful life in a range from three to ten years and to cushion the impact of replacement equipment purchases in order to provide more stable rates. Depreciation Reserve should equal accumulated depreciation for this class of assets. At June 30, 2015, the balance in Depreciation Reserve of \$448,000 is equal to accumulated depreciation. Therefore, no contribution is required in FY2017.

Self Insurance Reserve

The Self Insurance Fund (\$275,118 balance at August 31, 2015) was established for the System to allow the Authority to make choices between underwritten risk and self-insurance risk in the face of increased prices in the insurance market. No contribution is being made to the fund in FY2017.

Reserve for Operations and Maintenance

A working cash reserve must be maintained at a level, which reflects the amount of the regular annual operating costs plus an allowance for possible extraordinary requirements. The level of this reserve must equal 25 percent of the Annual O&M Budget. An initial contribution of \$125,000 was budgeted in FY1991. A contribution of \$125,000 was budgeted in FY1992. The contribution for FY1993 was \$50,000 because of the availability of additional revenue from FY1991.

An additional \$100,000 was added during FY1993 from the receipt of delinquent revenue and resulted in full funding of this reserve. The Reserve for Operations and Maintenance Fund is fully funded as of June 30, 2015 and as a result, no contribution will be needed in FY2017.

Renewal & Replacement Reserve

The Renewal & Replacement Reserve is to be used for costs of capital improvements including repairs to facilities not covered by insurance and payment of extraordinary O&M costs. As per the terms of the project financing, this Reserve is to be funded by the excess debt service coverage revenue after the Debt Service Reserve requirement has been accumulated. An initial deposit of \$24,287 had been made into this account from overdue revenue received during FY1993. Excess annual debt service coverage amounts were later transferred into this fund. The balance in the Fund as of August 31, 2015 is \$2,217,362. Excess interest earnings on the Debt Service Reserve and Debt Service Funds and excess debt service coverage revenue as well as a direct deposit of \$120,000 provide the source of funds for this reserve account. A supplemental deposit of \$350,000 will fund the capital plan for the Manasquan System through FY17 and allow \$2 million to remain in the account to assure funds are available for the dam, pipeline, and pumps in the event that emergent repairs are needed.

Source Water Protection Fund Rate Component

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 an extension of that program during the period of FY2004, the Authority began the Manasquan Watershed Protection Initiative, and established the Source Water Protection Fund for

the purpose of protecting the quality and quantity of water in the Manasquan Reservoir Water Supply System. The fund is used for three purposes in cooperation with State, local and nonprofit partners: (1) administrative assistance in the preservation of those properties in the Manasquan River Basin that are critical to the long-term protection of water quality and quantity in the Manasquan Reservoir Water Supply System as they may affect Authority customers; (2) improved management of land development by municipal, county, and State government to protect both water quality and flow to and within Authority facilities; and (3) remedial projects to improve water quality from existing conditions.

Whenever possible, the Authority will seek to obtain funding from other sources to augment or match its expenditures from the Source Water Protection Fund. The balance in the Source Water Protection Fund at August 31, 2015 is \$1,499,928. Because of this level of funding the Authority is reducing the Source Water Protection Fund Component from \$15.00 per million gallons to \$10.00 per million gallons in FY2016 and proposes a rate of \$10.00 per million gallons again in FY2017.

Optional Water Use Schedule

The Authority continues allowing the use of an Optional Water Use Schedule when the total of all uninterruptible supply contract diversions is equal to or less than 25mgd, the Purchaser may operate pursuant to an optional water use schedule wherein the Purchaser may divert up to 20 percent in excess of the total contracted amount for any given month.

Overdraft Service

The Authority continues to charge an Overdraft Service Rate by recognizing that daily overdraft service rates apply to all uninterruptible service contract customers, and by recognizing that the daily overdraft service rate is a multiple of the initial water purchase rate.

Other Rule Amendments

There are no other rule amendments for FY2017.

PART II – DETAILED SUPPORTING INFORMATION

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Table 1 - Summary Of Proposed Fiscal Year 2017 Adjustments

BASED ON PRESENT USAGE

The rates, charges and debt service assessments listed below shall be paid for raw water allocated by contract from the Manasquan Reservoir System for the **base contracts effective as of July 1, 2015 (14.980mgd), and Shorelands (.028mgd) delayed water contract effective July 1, 2006:**

I. July 1, 2016 to June 30, 2017

Rate Component	Current	Original Proposal 12/07/15	Difference	Percentage Increase (Decrease)
Operations & Maintenance Expense Component	\$386.00	\$432.87	↑ \$46.87	12.14%
Source Water Protection Fund Component	\$10.00	\$10.00	→ \$0.00	0.00%
Debt Service Cost Component	\$636.61	\$669.79	↑ \$33.18	5.21%
NJEIFP Debt Component	\$24.79	\$25.10	↑ \$0.31	1.24%
Total Rate	\$1,057.40/mg	\$1,137.76/mg	↑ \$80.36	7.60%

The rates, charges and debt service assessments listed below shall be paid for raw water allocated by contract from the Manasquan Reservoir System for all **New Jersey American Water delayed water purchase contracts effective: July 1, 2001 (1mgd), October 1, 2002 (1.935mgd), January 1, 2005 (1.500mgd):**

II. July 1, 2016 to June 30, 2017

Rate Component	Current	Original Proposal 12/07/15	Difference	Percentage Increase (Decrease)
Operations & Maintenance Expense Component	\$386.00	\$432.87	↑ \$46.87	12.14%
Source Water Protection Fund Component	\$10.00	\$10.00	→ \$0.00	0.00%
Debt Service Cost Component	\$770.07	\$772.99	↑ \$2.92	0.38%
NJEIFP Debt Component	\$24.79	\$25.10	↑ \$0.31	1.24%
Total Rate	\$1,190.86/mg	\$1,240.96/mg	↑ \$50.10	4.21%

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Table 2 - Rate History of Water Charges per Million Gallons of Raw Water - Initial
FY1997-FY2017

Initial Water Purchaser 14.980 mgd July 1, 2015
Shorelands .028 mgd July 1, 2006

<u>Effective Date</u>	<u>O&M Charge</u>	<u>Source Water Protection</u>	<u>Debt Repayment 2/1/91-8/01/20</u>	<u>NJEIFP Debt Component</u>	<u>Total Charge per MG</u>	<u>Percent Increase (Decrease)</u>
July 1, 1996	316.58		748.57		\$1,065.15	-3.65%
July 1, 1997	284.09		654.83		\$938.92	-11.85%
July 1, 1998	263.56		569.36		\$832.92	-11.29%
July 1, 1999	114.13		581.18		\$695.31	-16.52%
July 1, 2000	145.81		583		\$728.81	4.82%
July 1, 2001	212.29		585.63		\$797.92	9.48%
July 1, 2002	212.35		582.62		\$794.97	-0.37%
July 1, 2003	201.14	15	578.83		\$794.97	0.00%
July 1, 2004	321.69	15	584.95		\$921.64	15.93%
July 1, 2005	295.41	15	584.6		\$895.01	-2.89%
July 1, 2006	295.41	15	522.86		\$833.27	-6.90%
July 1, 2007	302.52	15	528.54		\$846.06	1.53%
July 1, 2008	302.52	15	566.59		\$884.11	4.50%
July 1, 2009	396.79	15	568.26		\$980.05	10.85%
July 1, 2010	396.79	15	568.69		\$980.48	0.04%
July 1, 2011	347.39	15	618.09	35.42	\$1,015.90	3.61%
July 1, 2012	345.95	15	619.53	35.42	\$1,015.90	0.00%
July 1, 2013	356.61	15	619.87	24.42	\$1,015.90	0.00%
July 1, 2014	356.61	15	619.87	24.42	\$1,015.90	0.00%
July 1, 2015	386.00	10.00	636.61	24.79	\$1,057.40	4.09%
July 1, 2016	432.87	10.00	669.79	25.10	\$1,137.76	7.60%

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Table 3 - Rate History of Water Charges per Million Gallons of Raw Water - Delayed
FY2002-FY2017

Delayed Water Purchaser NJ-American 1 mgd July 1, 2001
1.935 mgd October 1, 2002
1.500 mgd January 1, 2005

Effective Date	O&M Charge	Source Water Protection	Debt Repayment <u>2/1/02-8/01/31</u>	NJEIFP Debt Component	Total Charge per MG	Percent Increase (Decrease)
July 1, 2001	199.88		835.62		\$1,035.50	
July 1, 2002	212.35		835.61		\$1,047.96	1.20%
July 1, 2003	201.14	15.00	849.31		\$1,065.45	1.67%
July 1, 2004	321.69	15.00	849.31		\$1,186.00	11.31%
July 1, 2005	295.41	15.00	853.85		\$1,164.26	-1.83%
July 1, 2006	295.41	15.00	763.61		\$1,074.02	-7.75%
July 1, 2007	302.52	15.00	764.44		\$1,081.96	0.74%
July 1, 2008	302.52	15.00	762.28		\$1,079.80	-0.20%
July 1, 2009	396.79	15.00	763.24		\$1,175.03	8.82%
July 1, 2010	396.79	15.00	756.19		\$1,167.98	-0.60%
July 1, 2011	347.39	15.00	770.90	35.42	\$1,168.71	0.06%
July 1, 2012	345.95	15.00	772.12	35.42	\$1,168.49	-0.02%
July 1, 2013	356.61	15.00	772.46	24.42	\$1,168.49	0.00%
July 1, 2014	356.61	15.00	772.46	24.42	\$1,168.49	0.00%
July 1, 2015	386.00	10.00	770.07	24.79	\$1,190.86	1.91%
July 1, 2016	432.87	10.00	772.99	25.10	\$1,240.96	4.21%

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule of Events

(N.J.A.C. 7:11-4.1 et.seq.)

To become effective July 1, 2016

2015

- SEPTEMBER 18 Advise Water Users of informal meeting.
- NOVEMBER 5 Informal meeting with Water Users – 11:00 AM.
- DECEMBER 7 Board reviews and approves proposed Rates.
- 17 Mail Official Notice to water customers, Rate Payer Advocate, interested parties and advertise in newspapers.

2016

- JANUARY 4 Publication in the New Jersey Register.
- 7 Pre-Public Hearing – 11:00 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 4 Public Hearing Meeting. (SR Administration Building) – 11:00 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.

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Proposed Fiscal Year 2017 Budget Summary

(07/01/16-06/30/17)

	ADOPTED F/Y2016 <u>Reservoir Budget</u>	PROPOSED F/Y2017 <u>Reservoir Budget</u>
Proposed Operating Expense Budget (Schedule 1)	\$ 2,619,460	\$ 2,729,560
Allocation of Headquarters General & Administrative Expenses to the Manasquan Reservoir System (Schedule 13)	<u>\$ 640,000</u>	<u>\$ 640,000</u>
Proposed Total Expense Budget	\$ 3,259,460	\$ 3,369,560
Proposed Capital Equipment Budget (Schedule 14)	\$ 96,100	\$ 71,600
Contribution to Reserve Funds		
- Sediment Reserve	\$ 10,000	\$ 10,000
- Formal Dam Inspection Reserve	\$ 5,000	\$ 5,000
- Renewal & Replacement Fund	\$ 120,000	\$ 120,000
- High Voltage Testing Reserve	\$ 15,000	\$ 15,000
- Other Post Employment Benefits Reserve	\$ -	\$ 35,000
- Supplemental Renewal & Replacement	\$ -	\$ 350,000
Adjustment for F/Y15 Salary and Fringe Expenses to be paid (from)/to WTP/TS Account (Schedule 15)	\$ -	\$ 69,578
Adjustment for F/Y14 Salary and Fringe Expenses to be paid (from)/to WTP/TS Account	<u>\$ (51,292)</u>	<u> </u>
Total Budget Requirements	<u>\$ 3,454,268</u>	<u>\$ 4,045,738</u>
Interest Earnings on Funds (Except Renewal and Replacement and Depreciation Reserve Fund) (Schedule 16)	\$ (11,200)	\$ (11,200)
Unanticipated Revenue (Schedule 17)	<u>\$ (640,000)</u>	<u>\$ (1,047,600)</u>
Total Miscellaneous Revenue & Interest Income	<u>\$ (651,200)</u>	<u>\$ (1,058,800)</u>
Net Amount to be paid for O & M Component	<u>\$ 2,803,068</u>	<u>\$ 2,986,938</u>

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 1 - Total Operations & Maintenance Budget

Fiscal Year 2017

	F/Y2015 Reservoir Actual	F/Y2016 Reservoir Adopted	F/Y2017 Reservoir Proposed
Salaries & Fringe Benefits (Schedule 2)	\$1,317,662	\$1,432,000	\$1,556,900
O & M Direct Expense (Schedule 3)	902,749	1,072,500	1,070,768
G&A Expenses (Schedule 5)	<u>109,267</u>	<u>114,960</u>	<u>101,890</u>
Total Operations & Maintenance Budget	<u>\$2,329,678</u>	<u>\$2,619,460</u>	<u>\$2,729,558</u>
Estimate		<u>\$2,619,460</u>	<u>\$2,729,560</u>

Summary of O & M Expenses for Reservoir and Treatment Plant/Transmission System

	F/Y2015 Actual		F/Y2016 Adopted		F/Y2017 Proposed	
	Reservoir	WTP/TS	Reservoir	WTP/TS	Reservoir	WTP/TS
Salaries/Fringe	\$1,317,662	\$1,363,539	\$1,432,000	\$1,604,350	\$1,556,900	\$1,602,011
O & M Direct Expense	902,749	878,791	1,072,500	1,094,200	1,070,768	1,059,546
G & A Expense	<u>109,267</u>	<u>80,008</u>	<u>114,960</u>	<u>85,540</u>	<u>101,890</u>	<u>87,360</u>
Total	\$2,329,678	\$2,322,338	\$2,619,460	\$2,784,090	\$2,729,558	\$2,748,917

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 2 - Labor Projection
Fiscal Year 2017 (7/01/16-6/30/17)

TITLES	RANGE	SALARY	FRINGE BENEFITS	OVERTIME	CLOTHING ALLOWANCE	SHIFT DIFFERENTIAL	TOTAL	ALLOCATION RESERVOIR %	AMOUNT RESERVOIR	ALLOCATION WTP/TS %	AMOUNT WTP/TS
Manager	34	117,000.00	75,281.00	0.00	0.00	0.00	192,281.00	60%	115,400.00	40%	76,881.00
Project Engineer II	26	92,500.00	59,517.00	0.00	0.00	0.00	152,017.00	50%	76,100.00	50%	75,917.00
Water Supply Tech.	14	51,800.00	33,986.00	470.00	550.00	0.00	86,806.00	58%	50,400.00	42%	36,406.00
Administrative Assistant	18	65,300.00	42,016.00	0.00	0.00	0.00	107,316.00	54%	58,000.00	46%	49,316.00
Supervisor Technical Facilities Maint	23	82,200.00	63,614.00	16,117.00	550.00	0.00	162,481.00	42%	68,300.00	58%	94,181.00
Sr. Water Supply Tech.	20	71,600.00	47,613.00	1,849.00	550.00	0.00	121,612.00	48%	58,400.00	52%	63,212.00
Maintenance Worker I	10	45,000.00	29,308.00	0.00	550.00	0.00	74,858.00	94%	70,300.00	6%	4,558.00
Supervisor Operations	28	94,000.00	60,482.00	0.00	0.00	0.00	154,482.00	25%	38,600.00	75%	115,882.00
Equipment Operator	12	49,200.00	32,010.00	0.00	550.00	0.00	81,760.00	90%	73,600.00	10%	8,160.00
Foreman Bldg & Grounds Maint	19	68,400.00	45,408.00	1,622.00	550.00	0.00	115,980.00	89%	103,200.00	11%	12,780.00
Foreman Facilities Maintenance	20	68,100.00	44,497.00	507.00	550.00	0.00	113,654.00	47%	53,400.00	53%	60,254.00
Facilities Mechanic (3 Positions)	18	193,500.00	126,414.00	1,321.00	1,650.00	0.00	322,885.00	47%	151,700.00	53%	171,185.00
Supervisor Plant Operator	22	78,500.00	53,903.00	4,655.00	550.00	70.00	137,678.00	36%	49,600.00	64%	88,078.00
Maintenance Worker I Operations	10		29,640.00	516.00	550.00	0.00	75,706.00	92%	69,700.00	8%	6,006.00
Reservoir System Operator (5 Positions)	15	267,500.00	194,614.00	30,385.00	2,750.00	1,830.00	497,079.00	97%	482,200.00	3%	14,879.00
Plant Operator (2 Positions)	20	141,600.00	102,419.00	16,477.00	1,100.00	0.00	261,596.00	5%	13,000.00	95%	248,596.00
Plant Operator (4 Positions)	19	270,400.00	196,039.00	32,081.00	2,200.00	0.00	500,720.00	5%	25,000.00	95%	475,720.00
TOTAL:		<u>1,801,600.00</u>	<u>1,236,760.00</u>	<u>106,000.00</u>	<u>12,650.00</u>	<u>1,900.00</u>	<u>3,158,911.00</u>		<u>1,556,900.00</u>		<u>1,602,011.00</u>
TOTAL = 27 Positions		1,803,500.00	1,249,410.00	0.6928							

NOTE: A. PERCENTAGES ARE FROM THE AVERAGE OF FISCAL YEARS 2012 THROUGH 2015 BASED ON ACTUAL TIME RECORDS.
B. PLANT OPERATOR TIME STUDY PERCENTAGES WERE ADJUSTED TO ACCOUNT FOR THE VALUE OF THE SHIFT DIFFERENTIAL PROVIDED TO THE RESERVOIR

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 3 - Reservoir System Operations and Maintenance Direct Expense Budget

Proposed F/Y 2017, Adopted F/Y 2016, and Actual F/Y 2013-2015

Cost Center: Reservoir Direct
(40)

MANASQUAN WATER SUPPLY SYSTEM
RESERVOIR SYSTEM
O & M DIRECT EXPENSE BUDGET

CODE	ACCOUNT	FY '13 ACTUAL	FY '14 ACTUAL	FY '15 ACTUAL	FY '16 ADOPTED	FY '17 PROPOSED
5110	Regular Salaries & Wages					
5120	Overtime-Salaries & Wages					
5130	New positions-Salaries & Wages					
5140	Seasonal Help-Salaries & Wages					
5150	Fringe Benefits					
5160	Retiree Health Benefits					
	Total Salary, Wages & Fringe					
5200	Residences					
5211	Heating Fuel					
5220	Utilities -Electrical Service	65,558	94,189	113,344	80,500	90,500
5230	-Gas Service	5,032	5,586	6,629	8,000	8,000
5240	-Propane					
5250	Electricity for Pumping Station	267,525	260,176	258,651	346,900	336,300
5260	Fuel - Vehicular					
5270	Oil & Grease					
5280	Tires					
5290	Maintenance Supplies	105	114	1,750	2,000	2,000
5300	Maint. Supplies - Vehicular					
5310	Major Vehicle Service & Repair					
5320	Agricultural Supplies					
5330	Maintenance Equipment	67,724	17,426	43,693	45,500	51,500
5340	Serv. & Maintenance Contracts	6,001	32,021	49,225	33,000	39,750
5350	Equipment Rental	664	1,789	5,700	6,500	6,500
5360	Household - Safety Supplies	460		692	500	500
5370	Uniforms					
5380	Special & Professional Services	67,009	56,293	84,861	124,900	112,700
5390	Protective Services	228,063	249,353	257,277	285,300	279,818
5400	Telephone	5,689	6,020	6,571	5,000	5,000
5410	Postage & Freight Out					
5420	Data Processing					
5430	Printing & Office Supplies	710	882	1,662	1,500	1,500
5440	Scientific & Photographic	5,060	2,171	1,615	5,000	5,000
5450	Dues & Subscriptions					
5460	Advertising & Promotional	506	321	1,330	1,500	2,000
5470	Travel & Subsistence					
5480	Staff Training & Tuition Aid					
5490	Fees & Permits	31,696	31,255	32,618	33,600	33,900
5500	In - Lieu Taxes	36,756	36,755	36,756	36,800	36,800
5510	Sediment Removal	23,947	36,102	375	56,000	59,000
5520	Chemicals					
5525	Carbon Filter Replacement					
	Total Other Expenses	\$812,505	\$830,453	\$902,749	\$1,072,500	\$1,070,768
	Total Operating Expenses	\$812,505	\$830,453	\$902,749	\$1,072,500	\$1,070,768
	ANNUAL BUDGET	\$946,400	\$934,700	\$963,900	\$1,072,500	\$1,070,768

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 4 - Treatment Plant/Transmission System Operations and Maintenance Direct

Expense Budget

Proposed F/Y 2017, Adopted F/Y 2016, and Actual F/Y 2013-2015

Cost Center: Treat/Trans Direct
(50)

MANASQUAN WATER SUPPLY SYSTEM
WATER TREATMENT PLANT/TRANSMISSION SYSTEM
O & M DIRECT EXPENSE BUDGET

CODE	ACCOUNT	FY '13 ACTUAL	FY '14 ACTUAL	FY '15 ACTUAL	FY '16 ADOPTED	FY '17 PROPOSED
5110	Regular Salaries & Wages					
5120	Overtime-Salaries & Wages					
5130	New positions-Salaries & Wages					
5140	Seasonal Help-Salaries & Wages					
5150	Fringe Benefits					
5160	Retiree Health Benefits					
	Total Salary, Wages & Fringe					
5200	Residences					
5211	Heating Fuel	26,041	1,298	3,971	11,500	9,540
5220	Utilities -Electrical Service	403,869	383,124	369,880	520,500	476,500
5230	-Gas Service	34,998	42,188	31,655	40,000	40,000
5240	-Propane					
5250	Electricity for Pumping Station					
5260	Fuel - Vehicular					
5270	Oil & Grease		204			
5280	Tires					
5290	Maintenance Supplies	0	819	4,696	5,000	6,000
5300	Maint. Supplies - Vehicular					
5310	Major Vehicle Service & Repair		57			
5320	Agricultural Supplies					
5330	Maintenance Equipment	96,290	56,385	80,783	90,500	90,500
5340	Serv. & Maintenance Contracts	20,028	12,941	34,602	28,800	31,300
5350	Equipment Rental	9,250	4,203	1,389	4,800	4,800
5360	Household - Safety Supplies	585	209	794	1,000	1,000
5370	Uniforms					
5380	Special & Professional Services	27,942	44,950	28,409	34,100	45,600
5390	Protective Services	74,207	79,708	84,013	77,300	91,406
5400	Telephone	358	403	405	1,000	1,000
5410	Postage & Freight Out					
5420	Data Processing					
5430	Printing & Office Supplies	4,235	1,729	2,654	6,800	6,800
5440	Scientific & Photographic	11,087	10,120	13,930	14,500	14,500
5450	Dues & Subscriptions					
5460	Advertising & Promotional	750	1,531	1,675	1,000	1,000
5470	Travel & Subsistence					
5480	Staff Training & Tuition Aid			0	4,000	5,200
5490	Fees & Permits	6,533	5,726	11,220	8,000	8,000
5500	In - Lieu Taxes	140	140	140	400	400
5510	Residual Removal	23,884	23,226	19,205	41,000	41,000
5520	Water Treatment Chemicals	126,551	120,475	112,523	145,000	126,000
5525	GAC Replacement	49,700	461	50,621	59,000	59,000
5528	Reimb of O&M Capital Expenditures	10,025	31,004	26,226		
	Total Other Expenses	\$926,473	\$820,901	\$878,791	\$1,094,200	\$1,059,546
	Total Operating Expenses	\$926,473	\$820,901	\$878,791	\$1,094,200	\$1,059,546
	ANNUAL BUDGET	\$1,103,300	\$1,070,800	\$1,086,600	\$1,094,200	\$1,059,546

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 5 - Reservoir System General and Administrative Operations and Maintenance

Direct Expense Budget

Proposed F/Y 2017, Adopted F/Y 2016, and Actual F/Y 2013-2015

Cost Center: G & A
(60)

MANASQUAN WATER SUPPLY SYSTEM
GENERAL & ADMINISTRATIVE
EXPENSE BUDGET

CODE	ACCOUNT	FY '13 ACTUAL	FY '14 ACTUAL	FY '15 ACTUAL	FY '16 ADOPTED	FY '17 PROPOSED
5110	Regular Salaries & Wages	\$1,516,318	\$1,580,123	\$1,611,361	\$1,720,850	\$1,816,150
5120	Overtime-Salaries & Wages	104,865	88,137	78,338	106,000	106,000
5130	New positions-Salaries & Wages					
5140	Seasonal Help-Salaries & Wages					
5150	Fringe Benefits	790,546	813,180	798,599	1,003,000	1,036,961
5160	Retiree Health Benefits	95,307	100,479	105,824	201,500	194,800
5168	Workers Comp. (Self-Insured)	1,544	730	1,015	5,000	5,000
	Total Salary, Wages & Fringe	\$2,508,580	\$2,582,649	\$2,595,137	\$3,036,350	\$3,158,911
	Budget - salary and fringe					
5200	Residences					
5211	Heating Fuel					
5220	Utilities -Electrical Service					
5230	-Gas Service					
5240	-Propane					
5250	Electricity for Pumping Station					
5260	Fuel - Vehicular	35,036	32,447	23,159	35,000	22,450
5270	Oil & Grease	3,971	484	6,965	5,900	6,900
5280	Tires	7,442	2,500	4,490	6,000	6,000
5290	Maintenance Supplies	12,783	14,597	34,978	27,300	27,300
5300	Maint. Supplies - Vehicular	5,045	3,505	6,598	7,100	8,800
5310	Major Vehicle Service & Repair	26,761	28,487	45,077	29,000	29,000
5320	Agricultural Supplies	2,244	4,889	5,002	5,200	6,200
5330	Maintenance Equipment	5,641	2,566	5,441	10,000	7,500
5340	Serv. & Maintenance Contracts	11,871	9,308	8,787	12,500	13,100
5350	Equipment Rental	1,726	2,122	2,087	3,400	3,000
5360	Household - Safety Supplies	9,110	4,423	7,592	8,500	7,500
5370	Uniforms					
5380	Special & Professional Services	1,668	2,035	1,928	3,600	3,600
5390	Protective Services					
5400	Telephone	5,302	5,613	5,775	6,500	7,000
5410	Postage & Freight Out	708	311	449	1,000	500
5420	Data Processing	8,793	8,639	8,363	9,000	8,500
5430	Printing & Office Supplies	5,681	3,182	12,382	7,300	7,300
5440	Scientific & Photographic	1,080		0	300	300
5450	Dues & Subscriptions		229	83	2,500	3,000
5460	Advertising & Promotional	163	108	3,091	1,500	1,500
5470	Travel & Subsistence	345	648	240	500	700
5480	Staff Training & Tuition Aid	5,479	3,989	3,435	11,400	11,400
5490	Fees & Permits	2,566	8,041	3,354	7,000	7,700
5500	In - Lieu Taxes					
5510	Residual Removal					
5520	Water Treatment Chemicals					
5525	GAC Replacement					
	Total Other Expenses	\$153,415	\$138,123	\$189,275	\$200,500	\$189,250
	Total Operating Expenses	\$2,661,995	\$2,720,772	\$2,784,412	\$3,236,850	\$3,348,161
	Budget- other expenses	\$182,500				
	TOTAL ANNUAL BUDGET	\$2,761,900				
	Reservoir System	\$89,732	\$79,995	\$109,267	\$114,960	\$101,890
	Treatment/Transmission System	\$63,683	\$58,128	\$80,008	\$85,540	\$87,360

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 6 - List Of Category 5340 Items Recommended Service & Maintenance Contracts

For Reservoir (40)

Fiscal Year 2017

	Adopted F/Y16	Proposed F/Y17
1 HVAC/Dehumidifier Service	\$ 500.00	\$ 500
2 Instrumentation & Control System Service/Upgrade	2,000	3,000
3 Electrical Upgrade & Repair	12,000	14,000
4 overhead Crane Service & Inspection	2,000	2,000
5 Fire & Intrusion Alarm Service	1,500	1,500
6 Potable Well/Septic Service	1,500	1,500
7 Fertilization-Dam Dike	3,000	3,750
8 Roadway Crack Sealing	1,500	1,500
9 Wood Debris Removal	2,500	2,500
10 Access Roadway Repairs	2,500	2,500
11 Roofing System Maintenance & Repair	4,000	4,000
12 Reservoir Transmission Line Clearing	-	3,000
	<u>\$ 33,000</u>	<u>\$ 39,750</u>
Total Service & Maintenance Contracts	<u>\$ 33,000</u>	<u>\$ 39,750</u>

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 7 - List Of Category 5340 Items Recommended Service & Maintenance Contracts

For WTP/TS (50)

Fiscal Year 2017

		<u>Adopted</u> <u>F/Y16</u>	<u>Proposed</u> <u>F/Y17</u>
1	HVAC Service	\$1,000.00	\$ 1,000
2	Electrical Service Contract	1,000	1,000
3	Instrumentation & Control System Service & Upgrade	1,000	8,000
4	Electrical Upgrade & Repair	2,000	4,000
5	Overhead Crane Service	1,000	1,000
6	UST Monitors Service and Upgrade	1,000	1,000
7	Fire & Intrusion Alarm Service	1,200	1,200
8	Air Compressor Service	1,200	1,200
9	Boiler Service	1,500	1,500
10	Auxiliary Generator Service	2,500	3,000
11	Lab Equipment Service	2,000	2,000
12	Backflow Preventor Service	500	500
13	Gas-Fired Hot Water Heater Service	500	500
14	Instrumentation & Control System Service & Upgrade (Transmission System)	5,000	-
15	Electrical Upgrade & Repair (Transmission System)	2,000	-
16	Meter Vault Internet Service (Transmission System)	5,400	5,400
Total Service & Maintenance Contracts		<u>\$ 28,800</u>	<u>\$ 31,300</u>

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 8 - List Of Category 5340 Items Recommended Service & Maintenance Contracts

For G & A (60)

Fiscal Year 2017

		Adopted <u>F/Y16</u>	Proposed <u>F/Y17</u>
1	Refuse & Waste Disposal	\$ 1,700.00	\$ 2,000
2	Office Equipment/Computers	1,600	1,800
3	Waste Oil Disposal	1,100	200
4	Fire Extinguisher Service	1,100	1,100
5	UST Monitor Service	750	750
6	Building Maintenance	750	750
7	Internet Service	2,000	2,000
8	Janitorial Service	2,100	2,100
9	Vehicle Lift Inspection	400	400
10	Generator Service & Maintenance	<u>1,000</u>	<u>2,000</u>
	Total Service & Maintenance Contracts	<u>\$ 12,500</u>	<u>\$ 13,100</u>

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 9 - List Of Category 5380 Items Recommended Special & Professional Service

For Reservoir (40)

Fiscal Year 2017

		<u>Adopted F/Y15</u>	<u>Proposed F/Y16</u>
1	Laboratory Services - Water Quality Sampling	\$ 2,000.00	\$ 2,000
2	Consultant Services	15,000	15,000
3	Services-USGS Cooperative Agreement	31,700	31,700
4	Annual Trustee Fund	9,500	9,500
5	Dam Management-Surveying	2,500	2,500
6	Wetland Monitoring Management	1,200	4,000
7	Lake Management Consultants	19,500	19,500
8	Engineering Services	2,500	2,500
9	Financial Advisory Services	1,000	1,000
11	USGS Gaging Station Squankum	<u>40,000</u>	<u>25,000</u>
	Total Special & Professional Services	<u><u>\$ 124,900</u></u>	<u><u>\$ 112,700</u></u>

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 10 - List Of Category 5380 Items Recommended Special & Professional Services
For WTP/TS (50)
Fiscal Year 2017

		Adopted F/Y16	Proposed F/Y17
1	Water Quality Sampling	\$ 17,200.00	\$ 17,200
2	Residual Quality Analysis	800	800
3	Consultant Services	4,000	4,000
4	USGA Allenwood Gage-Parameters	10,500	11,000
5	Underground Markout Service (Transmission System)	1,600	1,600
6	Water Quality Sampling and Analysis for LT2	-	11,000
	Total Special & Professional Services	\$ 34,100	\$ 45,600

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 11 - List Of Category 5380 Items Recommended Special & Professional Services

For G & A (60)

Fiscal Year 2017

	<u>Adopted</u> <u>F/Y16</u>	<u>Proposed</u> <u>F/Y17</u>
1 Pulmonary Testing	\$ 1,500.00	\$ 1,500
2 CDL Medical Testing	500	500
3 EAS Service	1,200	1,200
4 Pre-Employment Physicals	<u>400</u>	<u>400</u>
Total Special & Professional Services	<u>\$ 3,600</u>	<u>\$ 3,600</u>

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 12 - Projected FY 2017 New Jersey Water Supply Authority Insurance Program

<u>Policy</u>	<u>Raritan Basin System</u>	<u>Manasquan Reservoir System</u>	<u>Manasquan Water Treatment Plant and Transmission System</u>	<u>Total Premium</u>
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	\$55,705
	\$50,053	\$4,680	\$3,408 \$4,380	\$3,408 \$59,113
Travel Accident Limit \$2 million	\$876	\$82	\$17	\$975
TOTAL:	\$1,300,000	\$279,818	\$91,407	\$1,671,225

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

**Schedule 13 - Recap Of Allocation Of Headquarters General And Administrative Expenses
Charged To The Manasquan Reservoir Water Supply System**

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

	<u>Total Headquarters Charge</u>	<u>Manasquan Reservoir System</u>	<u>Manasquan WTP/TS</u>
Budgeted-Appendix I, amount to be charged to 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
Actual allocation based upon audited expenditures F/Y15 (7/1/14-6/30/15) - Appendix II	<u>\$702,080</u>	<u>\$609,319</u>	<u>\$92,761</u>
Adjustments F/Y15	<u>(\$79,269)</u>	<u>(\$68,795)</u>	<u>(\$10,474)</u>
Net Allocation for F/Y2017 Budget	<u><u>\$744,060</u></u>	<u><u>\$640,370</u></u>	<u><u>\$103,690</u></u>
Estimate	<u>\$744,000</u>	<u>\$640,000</u>	<u>\$104,000</u>

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 14 - Proposed Capital Equipment Budget

Fiscal Year 2017

Description	(A)Addition (R)Replacement	Year of Purchase Vehicle/Equipment	Dollar Value	%	Manasquan Reservoir	Manasquan WTP/TS	Reservoir Depreciation Reserve	WTP/TS Depreciation Reserve
(I) REPLACE ELECTRIC GATE OPERATOR ADMIN BLDG	(R)	Original	4,000	100/0	4,000	0		
(I) REPLACE HEAT PUMP WITH AC UNIT FRONT AREA OF ADM	(R)	Original	20,000	100/0	20,000	0		
(I) REPLACE HEAT PUMP WITH AC UNIT SHOP AREA OF ADMIN	(R)	Original	15,000	100/0	15,000	0		
(I) REPLACE MOHAWK VEHICLE LIFT W/8 TON UNIT	(R) PE287	1994	18,000	100/0	18,000	0	7,889	
(I) NJWA29 - RSO VEHICLE	(R) TR516	2013	35,000	95/5	33,250	1,750	5,869	309
(I) 4-INCH TRASH PUMP - (#454)	(R) EQ454	2007	4,000	44/56	1,760	2,240	1,705	1,705
(I) POWERTRAC SLOPE TRACTOR - (#332)	(R) PE332	1997	46,000	100/0	46,000	0	35,429	
TOTAL			142,000		138,010	3,990		
*Per Resolution #861, dated 7/12/93 Asset Definition minimum is \$1,000.						0		
Less Amount charged to Reservoir Depreciation Reserve						50,892		
Less Amount charged to WTP/TS Depreciation Reserve							2,014	
Total						87,118	1,976	
Additional Depreciation Reserve						(15,551)	0	
Estimate						\$71,600	\$1,976	

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 15 - July, 2014 – June, 2015 Fiscal Year 2015 G&A Expenses Split

EMPLOYEE NUMBER	TOTAL	BUDGETED %		ACTUAL % (Timesheets)		VARIANCE UNDER (OVER)		
		(40)	(50)	(40)	(50)	(40)	(50)	
		RESERVOIR	WTP/TS	RESERVOIR	WTP/TS	RESERVOIR	WTP/TS	
4 6738 PLANT OPERATOR	TIME SPLIT		5%	95%	5%	95%		
	REGULAR	65,982.24	3,299.12	62,683.12	3,299.11	62,683.13	0.01	(0.01)
	CLOTH.	550.00	27.50	522.50	27.50	522.50	0.00	0.00
	O.T.	4,659.53	232.99	4,426.54	232.98	4,426.55	0.01	(0.01)
	FRINGE	37,918.42	1,895.92	36,022.50	1,895.92	36,022.50	0.00	0.00
21 7335 RESERVOIR SYSTEM OPERATOR	TIME SPLIT		96%	4%	100%	0%		
	REGULAR	52,678.80	50,571.66	2,107.14	52,678.80	0.00	(2,107.14)	2,107.14
	CLOTH.	550.00	528.00	22.00	550.00	0.00	(22.00)	22.00
	O.T.	5,594.82	5,371.01	223.81	5,594.82	0.00	(223.81)	223.81
	FRINGE	31,844.80	30,571.00	1,273.80	31,844.80	0.00	(1,273.80)	1,273.80
20 7933 PLANT OPERATOR	TIME SPLIT		5%	95%	6%	94%		
	REGULAR	67,185.44	3,359.28	63,826.16	4,031.13	63,154.31	(671.85)	671.85
	CLOTH.	550.00	27.50	522.50	33.00	517.00	(5.50)	5.50
	O.T.	4,649.57	232.49	4,417.08	278.97	4,370.60	(46.48)	46.48
	FRINGE	38,953.59	1,947.69	37,005.90	2,337.22	36,616.37	(389.53)	389.53
7 8172 RESERVOIR SYSTEM OPERATOR	TIME SPLIT		96%	4%	96%	4%		
	REGULAR	54,952.00	52,753.92	2,198.08	52,753.92	2,198.08	0.00	0.00
	CLOTH.	550.00	528.00	22.00	528.00	22.00	0.00	0.00
	O.T.	2,807.83	2,695.52	112.31	2,695.52	112.31	0.00	0.00
	FRINGE	30,997.38	29,757.49	1,239.89	29,757.48	1,239.90	0.01	(0.01)
9 12976 FAC MECHANIC II	TIME SPLIT		47%	53%	47%	53%		
	REGULAR	60,764.80	28,559.45	32,205.35	28,559.46	32,205.34	(0.01)	0.01
	CLOTH.	550.00	258.50	291.50	258.50	291.50	0.00	0.00
	O.T.	748.55	351.83	396.72	351.82	396.73	0.01	(0.01)
	FRINGE	33,296.64	15,649.42	17,647.22	15,649.42	17,647.22	0.00	0.00
16 16220 FOREMAN BLDG. & GROUNDS MAINT.	TIME SPLIT		77%	23%	95%	5%		
	REGULAR	65,160.56	50,173.64	14,986.92	61,902.53	3,258.03	(11,728.89)	11,728.89
	CLOTH.	550.00	423.50	126.50	522.50	27.50	(99.00)	99.00
	O.T.	1,198.76	923.04	275.72	1,138.82	59.94	(215.78)	215.78
	FRINGE	35,934.24	27,669.35	8,264.89	34,137.53	1,796.71	(6,468.18)	6,468.18
12 23959 FAC. MECHANIC II	TIME SPLIT		47%	53%	47%	53%		
	REGULAR	60,764.80	28,559.45	32,205.35	28,559.46	32,205.34	(0.01)	0.01
	CLOTH.	550.00	258.50	291.50	258.50	291.50	0.00	0.00
	O.T.	374.51	176.03	198.48	176.02	198.49	0.01	(0.01)
	FRINGE	33,083.49	15,549.24	17,534.25	15,549.24	17,534.25	0.00	0.00
8 23970 RESERVOIR SYS OPERATOR	TIME SPLIT		96%	4%	94%	6%		
	REGULAR	51,120.60	49,075.77	2,044.83	48,053.36	3,067.24	1,022.41	(1,022.41)
	CLOTH.	550.00	528.00	22.00	517.00	33.00	11.00	(11.00)
	O.T.	6,314.94	6,062.36	252.58	5,936.04	378.90	126.32	(126.32)
	FRINGE	30,995.08	29,755.27	1,239.81	29,135.38	1,859.70	619.89	(619.89)
14 26529 FOREMAN FACILITIES MAINT.	TIME SPLIT		46%	54%	48%	52%		
	REGULAR	67,358.24	30,984.81	36,373.43	32,331.96	35,026.28	(1,347.15)	1,347.15
	CLOTH.	550.00	253.00	297.00	264.00	286.00	(11.00)	11.00
	O.T.	1,366.49	628.59	737.90	655.92	710.57	(27.33)	27.33
	FRINGE	37,107.18	17,069.31	20,037.87	17,811.45	19,295.73	(742.14)	742.14

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 15 (Continued) July, 2014 – June, 2015 Fiscal Year 2015 G&A Expenses Split

EMPLOYEE NUMBER	TOTAL	BUDGETED %		ACTUAL % (Timesheets)		VARIANCE UNDER (OVER)		
		(40)	(50)	(40)	(50)	(40)	(50)	
		RESERVOIR	WTP/TS	RESERVOIR	WTP/TS	RESERVOIR	WTP/TS	
5 36810 MAINT. WORKER I			89%	11%	94%	6%		
REGULAR	38,695.04	34,438.59	4,256.45	36,373.34	2,321.70	(1,934.75)	1,934.75	
CLOTH.	550.00	489.50	60.50	517.00	33.00	(27.50)	27.50	
O.T.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
FRINGE	21,782.26	19,386.20	2,396.06	20,475.32	1,306.94	(1,089.12)	1,089.12	
17 41950 PLANT OPERATOR			5%	95%	5%	95%		
REGULAR	65,235.84	3,261.79	61,974.05	3,261.79	61,974.05	0.00	0.00	
CLOTH.	550.00	27.50	522.50	27.50	522.50	0.00	0.00	
O.T.	5,186.87	259.35	4,927.52	259.34	4,927.53	0.01	(0.01)	
FRINGE	37,645.33	1,882.28	35,763.05	1,882.27	35,763.06	0.01	(0.01)	
18 47397 SUPERVISOR			39%	61%	44%	56%		
TECHINICAL ASST.								
FACILITIES MAINT.								
REGULAR	80,005.90	31,202.32	48,803.58	35,202.60	44,803.30	(4,000.28)	4,000.28	
CLOTH.	550.00	214.50	335.50	242.00	308.00	(27.50)	27.50	
O.T.	11,910.82	4,645.23	7,265.59	5,240.76	6,670.06	(595.53)	595.53	
FRINGE	50,328.89	19,628.27	30,700.62	22,144.71	28,184.18	(2,516.44)	2,516.44	
11 50121 SUPERVISING PLANT OPERATOR			35%	65%	25%	75%		
REGULAR	93,605.79	32,762.03	60,843.76	23,401.45	70,204.34	9,360.58	(9,360.58)	
CLOTH.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
O.T.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
FRINGE	49,981.86	17,493.65	32,488.21	12,495.47	37,486.39	4,998.18	(4,998.18)	
1 50461 MANAGER, MWSS			55%	45%	69%	31%		
REGULAR	111,067.00	61,086.85	49,980.15	76,636.23	34,430.77	(15,549.38)	15,549.38	
CLOTH.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
O.T.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
FRINGE	60,155.19	33,085.35	27,069.84	41,507.08	18,648.11	(8,421.73)	8,421.73	
2 50802 ADMIN. ASSISTANT			55%	45%	69%	31%		
REGULAR	59,882.73	32,935.50	26,947.23	41,319.08	18,563.65	(8,383.58)	8,383.58	
CLOTH.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
O.T.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
FRINGE	32,286.62	17,757.64	14,528.98	22,277.77	10,008.85	(4,520.13)	4,520.13	
10 51483 EQUIP OPERATOR			80%	20%	93%	7%		
REGULAR	47,085.28	37,668.22	9,417.06	43,789.31	3,295.97	(6,121.09)	6,121.09	
CLOTH.	550.00	440.00	110.00	511.50	38.50	(71.50)	71.50	
O.T.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
FRINGE	25,570.45	20,456.37	5,114.08	23,780.52	1,789.93	(3,324.15)	3,324.15	
19 63738 PLANT OPERATOR			5%	95%	5%	95%		
REGULAR	64,988.16	3,249.40	61,738.76	3,249.41	61,738.75	(0.01)	0.01	
CLOTH.	550.00	27.50	522.50	27.50	522.50	0.00	0.00	
O.T.	5,598.32	279.92	5,318.40	279.92	5,318.40	0.00	0.00	
FRINGE	37,625.33	1,881.26	35,744.07	1,881.27	35,744.06	(0.01)	0.01	
6 69555 MAINT WORKER I - OPERATIONS			89%	11%	90%	10%		
REGULAR	43,779.04	38,963.35	4,815.69	39,401.14	4,377.90	(437.79)	437.79	
CLOTH.	550.00	489.50	60.50	495.00	55.00	(5.50)	5.50	
O.T.	381.16	339.23	41.93	343.04	38.12	(3.81)	3.81	
FRINGE	23,892.32	21,264.17	2,628.15	21,503.09	2,389.23	(238.92)	238.92	

**NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM**

Schedule 15 (Continued) July, 2014 – June, 2015 Fiscal Year 2015 G&A Expenses Split

EMPLOYEE NUMBER	TOTAL	BUDGETED %		ACTUAL % (Timesheets)		VARIANCE UNDER (OVER)		
		(40)	(50)	(40)	(50)	(40)	(50)	
		RESERVOIR	WIP/TS	RESERVOIR	WIP/TS	RESERVOIR	WIP/TS	
22 75370 FAC MECHANIC -WSA	TIME SPLIT		47%	53%	48%	52%		
	REGULAR	62,789.44	29,511.05	33,278.39	30,138.93	32,650.51	(627.88)	627.88
	CLOTH.	550.00	258.50	291.50	264.00	286.00	(5.50)	5.50
	O.T.	227.68	107.00	120.68	109.29	118.39	(2.29)	2.29
	FRINGE	34,152.89	16,051.86	18,101.03	16,393.39	17,759.50	(341.53)	341.53
28 81185 RESERVOIR SYSTEM OPERATIONS	TIME SPLIT		96%	4%	97%	3%		
	REGULAR	39,571.62	37,988.78	1,582.84	38,384.47	1,187.15	(395.69)	395.69
	CLOTH.	550.00	528.00	22.00	533.50	16.50	(5.50)	5.50
	O.T.	2,829.11	2,715.95	113.16	2,744.24	84.87	(28.29)	28.29
	FRINGE	22,923.76	22,006.82	916.94	22,236.05	687.71	(229.23)	229.23
23 87000 PLANT OPERATOR	TIME SPLIT		5%	95%	5%	95%		
	REGULAR	66,233.28	3,311.67	62,921.61	3,311.66	62,921.62	0.01	(0.01)
	CLOTH.	550.00	27.50	522.50	27.50	522.50	0.00	0.00
	O.T.	7,527.98	376.40	7,151.58	376.40	7,151.58	0.00	0.00
	FRINGE	39,354.09	1,967.71	37,386.38	1,967.70	37,386.39	0.01	(0.01)
24 87750 RESERVOIR SYSTEM OPERATOR	TIME SPLIT		96%	4%	100%	0%		
	REGULAR	55,588.40	53,364.87	2,223.53	55,588.40	0.00	(2,223.53)	2,223.53
	CLOTH.	550.00	528.00	22.00	550.00	0.00	(22.00)	22.00
	O.T.	4,909.06	4,712.70	196.36	4,909.06	0.00	(196.36)	196.36
	FRINGE	32,612.92	31,308.40	1,304.52	32,612.92	0.00	(1,304.52)	1,304.52
27 72463 PROJECT ENGINEER II	TIME SPLIT		50%	50%	39%	61%		
	REGULAR	40,811.44	20,405.72	20,405.72	15,916.46	24,894.98	4,489.26	(4,489.26)
	CLOTH.	550.00	275.00	275.00	214.50	335.50	60.50	(60.50)
	O.T.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	FRINGE	21,236.26	10,618.15	10,618.11	8,282.14	12,954.12	2,336.01	(2,336.01)
15 88875 WATER SUPPLY TECH OPERATOR	TIME SPLIT		58%	42%	61%	39%		
	REGULAR	47,617.36	27,618.06	19,999.30	29,046.59	18,570.77	(1,428.53)	1,428.53
	CLOTH.	550.00	319.00	231.00	335.50	214.50	(16.50)	16.50
	O.T.	347.70	201.66	146.04	212.10	135.60	(10.44)	10.44
	FRINGE	26,004.43	15,082.58	10,921.85	15,862.70	10,141.73	(780.12)	780.12
25 90000 SUPERVISING PLANT OPERATOR	TIME SPLIT		35%	65%	37%	63%		
	REGULAR	71,950.24	25,182.58	46,767.66	26,621.59	45,328.65	(1,439.01)	1,439.01
	CLOTH.	550.00	192.50	357.50	203.50	346.50	(11.00)	11.00
	O.T.	3,440.33	1,204.10	2,236.23	1,272.92	2,167.41	(68.82)	68.82
	FRINGE	40,845.83	14,296.04	26,549.79	15,112.96	25,732.87	(816.92)	816.92
26 93000 PLANT OPERATOR	TIME SPLIT		5%	95%	5%	95%		
	REGULAR	63,837.00	3,191.85	60,645.15	3,191.85	60,645.15	0.00	0.00
	CLOTH.	550.00	27.50	522.50	27.50	522.50	0.00	0.00
	O.T.	8,264.45	413.24	7,851.21	413.22	7,851.23	0.02	(0.02)
	FRINGE	39,341.14	1,967.06	37,374.08	1,967.06	37,374.08	0.00	0.00
VACANT WATER SUPPLY TECH	TIME SPLIT		58%	42%	58%	42%		
	REGULAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CLOTH.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	O.T.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	FRINGE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		(60)	(40)	(50)	(40)	(50)	(40)	(50)
	REGULAR	1,598,711.04	773,479.73	825,231.31	817,004.03	781,707.01	(43,524.30)	43,524.30
	CLOTH.	12,650.00	6,677.00	5,973.00	6,935.50	5,714.50	(258.50)	258.50
	O.T.	78,338.48	31,928.64	46,409.84	33,221.20	45,117.28	(1,292.56)	1,292.56
	FRINGE	905,870.39	435,998.50	469,871.89	460,500.86	445,369.53	(24,502.36)	24,502.36
	GRAND TOTAL	<u>2,595,569.91</u>	<u>1,248,083.87</u>	<u>1,347,486.04</u>	<u>1,317,661.59</u>	<u>1,277,908.32</u>	<u>(69,577.72)</u>	<u>69,577.72</u>

*PLANT OPERATORS ADJUSTED TO ACTUAL %'S OF 5%/95%
ORIGINAL %'S AS FOLLOWS:
C. BENNETT 2%/98%
R. KARECKY 1%/99%
J. TESTA 2%/98%
C. ZIEGLER 3%/97%

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 16 - Estimate Of Interest Income

Fiscal Year 2017 Budget

Fund/Reserve	TD Bank Funds	Long-Term Investments
Operating	\$300,000	\$0
Reserve for O & M	\$400,000	\$400,000
General Reserve (Rate Stabilization Fund)	\$250,000	\$0
Pumping Reserve	\$125,000	\$35,000
Self-Insurance Reserve	\$50,000	\$200,000
Sediment Reserve	\$60,000	\$0
 Estimated Total	 \$1,185,000	 \$635,000
	 \$1,185,000 x .25% =	 \$2,963
	\$635,000 x 1.30% =	\$8,255
	Total	\$11,218
	Estimate	\$11,200

Short-Investments

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

Long-Term Investments

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

NEW JERSEY WATER SUPPLY AUTHORITY
 MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 17 - Unanticipated Revenue

Funds to be Appropriated into Rate Stabilization fund for Fiscal Year 2017

	<u>Amount</u>								
F/Y2015 Net Year-End Balance	\$380,000.00								
Excess D/S Coverage FY2016	\$600,000.00								
<table style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 25%; border-bottom: 1px solid black;"><u>Overdraft</u></th> <th style="width: 25%; border-bottom: 1px solid black;"><u>Invoice No.</u></th> <th style="width: 25%; border-bottom: 1px solid black;"><u>Received</u></th> <th style="width: 25%; border-bottom: 1px solid black;"><u>Amount</u></th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	<u>Overdraft</u>	<u>Invoice No.</u>	<u>Received</u>	<u>Amount</u>					
<u>Overdraft</u>	<u>Invoice No.</u>	<u>Received</u>	<u>Amount</u>						

Additional Sources

Source Water Protection Fund	\$40,000.00
New Jersey American Overdrafts April-August 2015	\$27,609.00
Total Available	<u>\$1,047,609.00</u>
Estimate for FY/17	<u><u>\$1,047,600.00</u></u>

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 18 - Fund Balances as of 6/30/15

Final

	REVENUE FUND	OPERATING ACCOUNT	OPERATING FUND	O & M RESERVE	INVESTMENTS O & M RESERVE	TOTAL
BALANCE 6/30/15 (Does not include Debt Service payment)	\$171,096	\$312,836	\$3,610,830	\$1,244,939	\$469,908	\$5,809,609
Add: Adjustment for uncollected water revenues at 6/30/15			0			0
Add: NJ-American, JCP&L expenses for June 2015			33400			33,400
Deduct: Accrued expenses to be paid as of 6/30/15			-168271			(168,271)
Deduct: June 10th billing, received			-252331.78			(252,332)
Adjusted Balances 6/30/15	\$171,096	\$312,836	\$3,223,627	\$1,244,939	\$469,908	\$5,422,406
INCOME						
Operating Transfer	-100000		100,000			0
Receipt of WTP/TS G&A expenses for the month of June 2015, 7/31/15 billing			163335.8			163,336
						0
						0
						0
EXPENSES						
O & M Expenses - (A/P-6/30/15) includes accrued payroll and pension thru 6/30/15			-295458			(295,458)
Capital items to be purchased by 6/30/15			-11377			(11,377)
Payment of Headquarters overhead expenses - to be paid 7/01			(169,000)			(169,000)
Contributions to Various Reserves- 7/15			(37,000)			(37,000)
ADJUSTED BALANCE AT 6/30/15	\$171,096	\$312,836	\$2,974,128	\$1,244,939	\$469,908	\$5,072,907

Less: O & M Reserve Balance (Goal is 3 months O & M Expenses as dictated by Bond Resolution) -838890

Balance of projected funds available \$4,234,017

Use of Available Funds

Unanticipated revenues (overdrafts in FY15 to be available to the General Fund for FY17)
NJ American Water -3840

Appropriate FY16 net fund balance into the General Fund (Rate Stabilization) to be used for rate stabilization -640000

Balance of fund to be used for future years \$3,590,177

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 19 - Operations & Maintenance Expense Component and Debt Service Cost
Component Sales Base
Projected Fiscal Year 2017

USER	ALLOCATION (mgd)
Avon, Borough of	0.126
Belmar, Borough of	0.288
Brielle, Borough of	0.450
Keyport, Borough of	0.356
Matawan, Borough of	0.332
New Jersey American Water	12.500
Red Bank, Borough of	0.548
Sea Girt, Borough of	0.040
Shorelands Water Company	2.007
Lake Como, Borough of	0.100
Spring Lake, Borough of	0.310
Spring Lake Heights, Borough of	0.386
Wall Township	2.000
OPERATIONS & MAINTENANCE/DEBT SERVICE SALES BASE	19.443 mgd

NEW JERSEY WATER SUPPLY AUTHORITY
 MANASQUAN RESERVOIR WATER SUPPLY AUTHORITY

Schedule 20 - Operations And Maintenance Rate Component (19.443mgd)

Fiscal Year 2017

Funds Required for F/Y2017 Budget

Total Budget Requirements		\$4,045,738
Miscellaneous Revenues		<u>(\$1,058,800)</u>
Net Budget Requirement		\$2,986,938
Less - Quarterly O&M payment on July 10, 2016 (cash received in July for water used in April, May and June of 2016 based on \$386.00/mg)		(\$682,955)
Additional Revenue required from last three (3) Quarterly payments in F/Y2017 to cover Operations & Maintenance expenses through 6/30/17		<u>\$2,303,983</u>

Computation of Operations & Maintenance Rate for Fiscal Year 2017

Required Operations & Maintenance Rate F/Y2017	<u>\$2,303,983</u>	=	\$432.87/mg
	5,322.52*		

* Four (4) Quarters Sales =

	19.443 mgd x 365	=	7,096.70mg/yr
--	------------------	---	---------------

Rate Calculation for Required revenues due for payment on
10/10/16, 1/10/17 and 4/10/17:

Sales Base =

	7,096.70 x 3/4	=	5,322.52/mg
--	----------------	---	-------------

The same rate will apply to the payment due 7/10/17 and this
payment will be reflected in the calculation of the F/Y2018 rate.

NEW JERSEY WATER SUPPLY AUTHORITY
 MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 21 - Computation Of Base Debt Service Rates

Initial Water Purchasers (14.980MGD) – 7/01/15
 Shorelands Delayed Purchase Contract (.028MGD) – 7/01/06

Debt Service for Fiscal Year 2017	\$3,207,552	
Debt Service Fund Interest Income and Other Available Resources	<u>(\$150,000)</u>	
Net Debt Service Obligation	\$3,057,552	
Coverage Requirement = Net Debt Service Obligation x 20%	<u>\$611,510</u>	
Total to be Recovered by Rates	\$3,669,062	
Debt Service Rate Effective 7/01/16 365 x 15.008/mgd = 5,477.92mg	<u>\$3,669,062</u> 5,477.92mg	= \$669.79mg

NEW JERSEY WATER SUPPLY AUTHORITY
 MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 22 - Computation Of Delayed Water Purchase Debt Service Rates

NJAW – 1.000MGD CONTRACT - 07/01/01
 1.935MGD CONTRACT – 10/01/02
 1.500MGD CONTRACT – 01/01/05

Debt Service for Fiscal Year 2017	\$1,046,652	
Debt Service Fund Interest Income and Other Available Resources	<u>(\$3,910)</u>	
Net Debt Service Obligation	\$1,042,742	
Coverage Requirement = Net Debt Service Obligation x 20%	<u>\$208,548</u>	
Total to be Recovered by Rates	\$1,251,290	
Debt Service Rate Effective 7/01/16 365 x 4.435/mgd =1,618.78mg	<u>\$1,251,290</u> 1,618.78mg	= \$772.99mg

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 23 - Computation Of Base Debt Service Rates

INTAKE PUMP STATION BUILDING

Initial Water Purchasers (14.980 MGD) – 7/01/15
Shorelands Delayed Purchase Contract (.028MGD) – 7/01/06
NJ American Delayed Purchase Contract (4.435MGD)*

NJEIFP Debt Service for Fiscal Year 2017 \$178,117

Debt Service Rate Effective 7/01/16
365 x 19.443/mgd = 7,096.70mg

$$\frac{\$178,117}{7,096.70\text{mg}} = \$25.10/\text{mg}$$

*Delayed Water Purchase Contracts

NJ American 1.000mgd 07/01/01
1.935mgd 10/01/02
1.500mgd 01/01/05

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR SYSTEM

Schedule 24 - 2005 Bond Debt Service Coverage

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

	<u>Budgeted F/Y2017</u>
<u>Revenues</u>	
Uninterruptible Water Sales	\$8,241,414
Interest Income	<u>\$11,200</u>
Total Revenues	<u><u>\$8,252,614</u></u>
Prior Years Surplus/Other	<u>\$1,047,600</u>
<u>Expenses</u>	
O&M Costs	\$2,729,560
Overhead Allocation	<u>\$640,000</u>
Total O&M	<u><u>\$3,369,560</u></u>
Cash Available for Debt Service - A	\$5,930,654
Net Debt Service Expense	\$4,100,294
Debt Service Coverage Calculation - A/B	1.45
Cash After Debt Service A-B	\$1,830,360

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR SYSTEM

Schedule 25 - Rehabilitation Reserve and Capital Improvement Program

Manasquan Reservoir Project Description	Renewal & Repl. Reserve	FY2016	FY2017	FY2018	FY2019	FY2020+
Dam Emergency Contingency	\$400,000					
Pipeline Replacement Under I-195	\$950,000					
Pumping Equipment Replacement	\$650,000					
Portable Generator, Hookup and Transfer Switch for Reservoir I/O Tower		\$140,000				
Resize Intake - Motor/Pump/VFD			\$50,000		\$250,000	
Fueling System Upgrade		\$60,000				
Rehabilitation Pump and Motors at Reservoir & Intake Pumping Stations			\$60,000		\$60,000	\$50,000
Security System Upgrades		\$50,000		\$100,000		\$50,000
Replacement Capacitors				\$20,000	\$20,000	
Replace Rubber Seats on 36" Ball Valve that Controls Water Flow from Reservoir to Manasquan		\$65,000				
Replace Rubber Seats on 36" Guardian Valve that Controls Water Flow from Reservoir to Manasquan		\$10,000				
Install a 36" Vport Style Control Valve at FMVC		\$60,000				
Replace Control Panel at Reservoir IO building				\$80,000		
Resurface Floor in Hall and Bathrooms RPS Building			\$40,000			
Replace Incoming Electrical Power Breakers and Replace One Cable Set		\$115,000				
Renovation of Traveling Water Screens				\$50,000	\$50,000	
Variable Frequency Drive Control Conversion Reservoir Pumps			\$120,000			
Sealcoat Driveway and Parking Areas			\$25,000			
Replace Valve Operator on 36" Intake Pool Return from Oil to Electric Operated		\$20,000				
Evaluation of Condition of Reservoir PCCP pipeline						\$250,000
Total	2,000,000.00*	\$520,000	\$295,000	\$250,000	\$380,000	\$350,000
Renewal and Replacement Balance June 30, 2015	\$2,300,477					
Projected Balance End of Fiscal Year with annual regular deposit		\$1,900,477	\$1,725,477	\$1,595,477	\$1,335,477	\$1,105,477
*Minimum Balance Requirement		\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000
Revised Balance		-\$99,523	-\$274,523	-\$404,523	-\$664,523	-\$894,523
Additional Deposit Requirements			\$374,046	\$404,523	\$664,523	\$894,523

**New Jersey Water Supply Authority
Manasquan Water Supply System**

Update of the Renewal and Replacement Reserve and Capital Improvement Program

Prepared by

Paul McKeon, P.E., Manasquan System Manager

**MANASQUAN WATER SUPPLY SYSTEM
RENEWAL/REPLACEMENT RESERVE & CAPITAL IMPROVEMENT PROGRAM
Fiscal Years 2016-2020
Updated July 2015**

Introduction

The New Jersey Water Supply Authority (Authority) operates and maintains the Manasquan Water Supply System including the Intake Facilities located in Wall Township, the Manasquan Reservoir located in Howell Township and 5-1/4 miles of 66-inch diameter pipeline which connects the Intake Facilities to the Reservoir. The Manasquan Water Supply System was constructed between 1987 and 1990 and commenced operation on July 1, 1990.

Construction of this system was financed by the issuance of Bonds under the authorization of Authority Bond Resolution No. 295 dated April 16, 1987. The Bond Resolution provides for rates for water use to include an excess payment of 20% (effective February 1, 1994) of the annual debt service, identified as 120% debt service coverage. During the initial years, this excess payment flowed into the debt service reserve account until an amount equal to 50% of the annual debt service had been accumulated. Thereafter, the 20% excess debt service is to be used to establish a Renewal & Replacement Reserve and to fund a Capital Improvement Program (CIP) for the facilities.

A Capital Improvement Program funded by the Renewal and Replacement Reserve was first recommended in September 1996. This is an update of the CIP.

The Renewal and Replacement Reserve for Extraordinary Operations and Maintenance Costs is fully funded as recommended.

Renewal and Replacement Reserve for Extraordinary Operations and Maintenance Costs

Problems with the Earthen Dam Embankments

The Manasquan Reservoir dam and dikes are inspected by the Authority's operations and engineering staff to provide early detection of situations which, if uncorrected, could lead to serious problems. There are no indications of problems with any of the embankments at the present time. It is unlikely that a major catastrophic dam failure will occur as a result of the weather. A more common occurrence would be surface erosion especially in areas where good turf is not established. The periodic inspection of the embankments shows good establishment of turf. On-site maintenance staff has implemented various measures to improve the grass cover on the dams. Continued long-term success of these measures is dependent on continued maintenance and weather.

The Reserve includes funds that can be used to repair any surface erosion that cannot be repaired by Authority maintenance forces.

Replacement of Pipe under Interstate Route 195

The Manasquan Reservoir pipeline is a 5-1/4 mile long, 66-inch diameter prestressed concrete cylinder pipeline (PCCP) constructed in the 1980s. A 380-foot long section of 72-inch diameter PCCP was installed beneath Interstate Route 195 during its construction for use in connection with the pipeline between the reservoir pumping station and the reservoir. This section of pipe was manufactured by Interpace in the late 1970's. This vintage PCCP is suspect because of the type of prestressing wire used in its manufacture and the “inadequate” quality control used in the application of the mortar coating.

A rupture of this section of pipe could be catastrophic and result in major disruptions to Route 195. Repair costs could easily amount to several million dollars. Therefore, the section of pipe under Route 195 is dewatered and inspected bi-annually to monitor its condition.

The entire length of the pipeline was inspected in December 2009. The interior concrete lining was sounded with a 57-inch piece of black iron pipe with caps welded to the ends. The lining was continuously sounded for hollow regions that may be indicative of a loss of prestress and therefore exterior pipe distress. Sounding was carried out on both sides of the pipe approximately in the 2-4 o'clock range and the 8-10 o'clock range at approximately 6 to 12-inch intervals. Other features such as spalled concrete linings were noted throughout the inspection. The Manasquan Reservoir 66-inch pipeline is in good condition. The items noted during the internal inspection were minor in nature and are not indicative of pipeline distress.

The pipes under Route 195 were inspected in 2011 and October 2014 and found to be sound. The pipe under Route 195 will be inspected in the fall of 2017. The entire pipeline will be inspected in March of 2016.

A sum of \$950,000 is included in the Renewal and Replacement Reserve to insert a 66-inch diameter steel pipe into the PCCP under Route 195 or to replace other sections of pipe as needed

Replacement of Pumps or Equipment

Five (5) 600-horsepower pumps are used at the Intake Pumping Station to pump water from the Manasquan River to the presedimentation pond at the Reservoir Pumping Station. Five (5) 900-horsepower pumps are used at the Reservoir Pumping Station to pump water from the presedimentation pond to the Reservoir. The estimated replacement cost for each unit, including a variable frequency drive, is \$650,000. Replacement costs for the units would be dependent on the problem but would be limited to the cost of replacement.

All pumps and motors have been physically inspected, vibration tested, and pump efficiency tested in 2013. All are within acceptable performance tolerances. Although testing and inspection has determined that no units are needing replacement at this time, it is appropriate to include funds in a Renewal & Replacement Reserve to rehabilitate or replace a single unit in case of an unforeseen failure or damage from lightning.

Furthermore, these funds could be used to rehabilitate or replace other major equipment such as a large 500kva electrical transformer or cables as well. The combined construction cost for the Intake Pumping Station and the Reservoir Pumping Station was approximately \$30,000,000 (1990 dollars). The recommended reserve of \$650,000 represents 2% of the total construction cost.

Planned Capital Improvements - Fiscal Years 2016 – 2020

Portable generator, hookup and transfer switch for I/O tower

A standby power generator is needed at the Reservoir Inlet and Outlet tower to enable staff to operate the reservoir emergency dump valve in case of a dam emergency at the time of a power outage. Also other inlet and outlet valves will remain operable under all conditions and the dam instrumentation will be able to send readings on the condition of the drainage system and piezometers during times of prolonged power outages as was experienced after super storm Sandy. This project will go out to bid in the fall of 2015.

Resize Intake - Motor/Pump/VFD

A recent safe yield review has determined that replacing one of the 600-hp motors and pump at the intake with a 300-hp motor and pump that can deliver up to 15 MGD and a new variable frequency drive will improve the reliable safe yield of the system. This project will likely be designed in calendar year 2017 and constructed in 2019. This will allow a closer match between the anticipated average customer sales from the intake pool and the intake pump capacities. The motor and variable frequency drive will be 480V as opposed to the existing 2400V system. Although this will require the addition of a transformer, it will also allow for powering the pump from a portable generator. This will allow for some use of the intake during an extended power outage. This will also result in the rehabilitation of one of the pumps and motors.

Fueling System Upgrade

Current regulations regarding underground storage tanks require leak monitoring in the tank and piping and recording of the data on a prescribed basis. We have leak monitoring but recording inventory is presently manual so an electronic system for recording daily inventory in the tanks is needed. A determination was made that the 1000-gallon underground storage tanks have 5 or more years of useful life so they will not be replaced under this project.

The original fuel dispensing pumps need to be replaced with modern units that electronically track usage. We plan to replace the dispensing units and usage system with identical equipment utilized at other Authority locations.

Rehabilitation of Pumps and Motors at the Intake Pumping Station and Reservoir Pumping Station

There are five main vertical turbine pumps with 600-horsepower motors at the Intake Pumping Station (IPS). There are five main vertical turbine pumps with 900-horsepower motors at the Reservoir Pumping Station (RPS).

The Authority has undertaken a multi-faceted, multi-year program to service all ten pumps and motors. The first phase, began in 2003, includes the servicing of a pump at the RPS and a motor at the IPS each year. All pumps and motors were physically inspected, vibration tested, and pump efficiency tested in 2013 and 2014. All are within acceptable performance tolerances. Motor rehabilitation on one unit was completed in FY13 and one motor for FY14. It is anticipated that no pump rehabilitation will be needed until FY2017 when pump 1 at the intake will be rehabilitated, including a new bowl assembly.

Security System Upgrade

In response to the Public Health Security and Bioterrorism Response Act of 2002 and an Executive Order issued on July 18, 2002 by the State of New Jersey identifying critical facilities that require vulnerability assessments, the Authority contracted with a consultant to develop a comprehensive security vulnerability assessment (VA) and implement recommendations of the VA. Recommendations were provided for changes in security policies and procedures, minimum and additional upgrades to the physical protection systems (PPS) and processes. Estimates of probable capital costs were developed for the minimum and additional PPS for system facilities.

Improvements recommended in the schematic design report for implementing the security measures and improvements are being phased in. A camera system and DVR has been designed for the reservoir IO tower area and is tentatively scheduled to be installed in early 2016.

Replacement of Capacitors

Electrical capacitors are component parts in the variable speed electrical drive units at both the Intake Pumping Station and the Reservoir Pumping Station. During a prior visit by the field service technician from ASI Robicon Corporation, several capacitors were identified as failed parts. All fifty-three existing capacitors are reaching the end of their useful life and are recommended for replacement. Seven of the fifty-three were replaced prior to 2011 and the remaining 46 will be replaced during upcoming years. The cost to replace the remaining capacitors is approximately \$40,000. No failures were experienced in 2013 and 2014 and a number of capacitors are on hand so the replacement has been moved back several years.

Equipment Storage Building

There was a need to provide secure under cover storage for equipment at the facility. A 120' by 50' structure, providing 6000 square feet of added storage was determined to be needed. A contract in the amount of \$375,750 was awarded to 3R Painting & Contracting in October 2013. All work is now complete.

Replace rubber seats on 36-inch ball valve that controls water flow from Reservoir to Manasquan

The valve is 25 years old and the seats are worn from controlling flow. Therefore, the valve passes excessive flow even in the closed position. With the pipeline dewatered, the seats are replaceable in the field with some large piping dismantled to obtain access to the seats inside the valve. The main shaft bearing on the valve will also be replaced. This work is planned for March of 2016.

Replace rubber seats on 36-inch guardian valve that controls water flow from Reservoir to Manasquan

This valve is also 25 years old and it will be out of service during the period when the 36-inch ball valve seats are being replaced. It is recommended to replace the seats in this valve given the opportunity that will exist with the piping disconnected and the seat accessible.

Install a 36-inch V-port Style Control Valve Upstream of the 36-inch ball valve that controls flow from the reservoir to Manasquan.

As stated above, the 36-inch reservoir return control valve passed water through the seats far sooner than was expected based on years of service. The manufacturer has stated that this premature degradation resulted from the utilization of the valve being that the valve is typically utilized in the nearly closed position at all times. Installing this adjustable v-port valve will allow the reservoir return valve to operate in its design range and extend the life of the valve seats.

Replace Control Panel at Reservoir I/O Building

The control panel at the reservoir I/O tower is 25 years old and only the reservoir dam indicators report automatically. The system should be upgraded to maintain reliability.

Resurface floor in hall and bathrooms in the RPS Building

The existing epoxy/sand finish on the concrete floor is discolored and not uniform. The surface is breaking free from the concrete in some areas and cannot be repaired. Replacement is desired to improve the appearance of the facility.

Replacing the incoming electrical power breakers and one set of cables from one breaker to Transformer T2

Electrical surges and cable failures in 2012 and 2013, as a result of several storms, brought to light the need to investigate replacing the 24 year old breakers in the incoming power substation. Staff investigation determined that the breakers could be refurbished to like new condition at half the cost of purchasing new breakers. This was undertaken in calendar year 2015. In addition, one set of cables that the breakers protect will be replaced in the fall of 2015 as they are past their expected life expectancy in regards to insulation integrity.

Renovation of Traveling Water Screens

The eight traveling water screens at the Intake Pumping Station are in need of service over time. A 2013 inspection found all units to be in good condition. Funding is included to install new reducers, drive sprockets, screen sections, chain guard assemblies and adapter bases on all eight units. Another inspection is planned for the fall of 2015.

Variable Frequency Drive Control Conversion

Staff has been working with ASI Robicon Corporation to develop a conversion package for the operation of the variable frequency drives (VFD's). The conversion package would consist of revising the sequencer operation of both the Intake and Reservoir Pumping Stations from the current card rack computerized system to a programmable logic controller. With the current logic system, the Authority has been experiencing logic card failures with expensive computer board repairs or parts that are no longer available. This is the main purpose of changing the control logic operation. It would also include replacing one of the 4 VFD's at the Reservoir pump station with a new VFD. The project is under development at this time.

Valve Operator Replacement on 36-inch Intake Pool Return Line

The existing system to operate the valve is 25 years old and relies on an oil reserve tank and compressors to drive a piston to operate the valve. Replacement of the operator with an electrically driven operator is preferred in keeping with similar valve operators at the reservoir system.

Evaluation of Condition of Reservoir PCCP pipeline

In light of difficulties with pre-stressed concrete cylinder pipe and the fact that this 5-mile pipeline will have 30 years of use in year 2020, it is advisable at this time to have the interior and wrapped wire condition evaluated. Authority staff has performed in-house inspections of the pipeline in 2003 and again in 2009. The staff inspection sounds the pipe interior using capped black iron rods for hollow areas which may be indicative of external distress. It is recommended that the pipeline be evaluated by an outside engineering firm using more modern technology that is now available. The price in the table for this work is based on an estimate given in year 2015 by a New Jersey firm that evaluates this size pipe using

electromagnetic technology. Their budget number of \$225,000 was marked up for future years.

Driveway Sealcoating

The driveways and parking areas at the Manasquan Reservoir System Administration Building were repaired a few years ago by trenching out and resurfacing the large cracks and holes and filling in the cracks with hot tar. Those repairs have reached the end of their useful life. It is recommended that these areas be addressed by cleaning and sealcoating the roads and all blacktop areas around the buildings, intake pool and parking areas, using coal tar sealer with additive and black beauty sand additive. This endeavor is exclusive of the intake road. The cost estimate is \$25,000 and this work is expected to be performed in FY2017.

PART III – PROPOSED RULE AMENDMENTS

NEW JERSEY WATER SUPPLY AUTHORITY

AMENDMENTS TO THE SCHEDULE OF RATES, CHARGES AND
DEBT SERVICE ASSESSMENTS FOR THE SALE OF WATER FROM THE
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

To Become Effective July 1, 2016

The following rules and regulations can be found in the New Jersey Administrative Code under N.J.A.C. 7:11-4.1, et seq. Full text of the proposal follows (additions indicated in boldface **thus**; deletions indicated in brackets [thus]):

7:11-4.3 Operations and Maintenance Expense Component

(a) – (b) (No change.)

(c) Operations and Maintenance Expense Component:

<u>Effective Date</u>	<u>Rate/Million Gallons</u> (based upon a [20.158] 19.443 per day sales base)
July 1, [2015] 2016	[\$386.00] \$432.87

7:11-4.4 Debt Service Cost Component

(a) (No change.)

(b) The following Debt Service rates based on a sales base of [15.723]**15.008** million gallons per day, apply to all initial water purchase contract customers, and all delayed water purchase contract customers, who fully satisfied their contractual delayed water purchase surcharge obligations at the commencement of their contract terms:

<u>Period</u>	<u>Rate/Million Gallons</u>
7/1/[2015] 2016 to 6/30/[2016] 2017	(Coverage 120%) [\$636.61] \$669.79

(c) Delayed Water Purchase Surcharge will be assessed to all water purchasers who entered into a Water Purchase Contract for an uninterruptible service commencing subsequent to the System Operation Date (Delayed Water Purchase Contract). This includes a purchaser under an Initial Water Purchase Contract, which provides for an increase in the amount of uninterruptible service effective subsequent to the System Operation Date.

1. The following Debt Service rate based on a sales base of 4.435 million gallons per day, applies to the Delayed Water Purchase Contracts commencing July 1, 2001, October 1, 2002, and January 1, 2005 in lieu of the Debt Service rate set forth in (b)above.

<u>Period</u>	<u>Rate/Million Gallons</u>
7/1/[2015] 2016 to 6/30/[2016] 2017	(Coverage 120%) [\$770.07] \$772.99

(d) (No change.)

7:11-4.5 Source water protection fund component

(a) (No change.)

(b) The source water protection fund component is as follows:

<u>Period</u>	<u>Rate/Million Gallons</u>
7/1/[2015] 2016 to 6/30/[2016] 2017	\$10.00

7:11-4.6 NJEIFP debt component

(a) (No change.)

(b) The NJEIFP debt component is as follows:

<u>Period</u>	<u>Rate/Million Gallons</u>
7/1/[2015] 2016 to 6/30/[2016] 2017	[\$24.79] \$25.10

Appendix I. Report of CLA PC – Allocation of Headquarters General and Administrative Expenses – FY 2017

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)

Table of Contents

June 30, 2015

INDEPENDENT ACCOUNTANTS' REPORT	1
FINANCIAL SCHEDULES	
SCHEDULE OF FORECASTED COST CENTER EXPENSE RECLASSIFICATION	3
SCHEDULE OF FORECASTED SYTEM-WIDE ALLOCATION COSTS	4
SCHEDULE OF FORCASTED COST ALLOCATION FACTORS	5
SCHEDULE OF FORECASTED MANASQUAN SYSTEM ALLOCATED COSTS	6
NOTES TO FINANCIAL STATEMENTS	7

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:

1. 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.

CliftonLarsonAllen 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)

DEPT. #	DEPT./COST CENTER	COST CENTER COSTS	RECLASSIFICATIONS									REVISED 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	
	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
		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
		<u>\$19,164,602</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$19,164,602</u>

See accompanying notes to Financial Schedules.

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	<u>(\$130,100)</u>												
	TELEPHONE HQ	\$75,000	0	<u>(\$75,000)</u>											
36	SAFETY	\$209,500	976	824	<u>(\$211,300)</u>										
37	SECURITY	\$955,150	4,998	3,297	16,979	<u>(\$980,424)</u>									
14	HUMAN RESOURCES	\$418,900	6,018	3,297	5,660	0	<u>(\$433,875)</u>								
16	PURCHASING	\$346,675	6,640	2,473	3,773	0	8,678	<u>(\$368,239)</u>							
17	INFORMATION SYSTEMS	\$155,900	1,385	824	1,887	0	4,339	10,361	<u>(\$174,696)</u>						
15	CONTRACTS & RISK MGMT.	\$344,000	4,323	1,648	3,773	0	8,678	5,842	5,635	<u>(\$373,899)</u>					
13	FINANCIAL MGMT.	\$1,018,594	12,596	5,769	13,206	0	30,371	9,809	25,359	0	<u>(\$1,115,704)</u>				
34	AUTO SHOP	\$379,075	20,514	1,648	1,887	0	4,339	17,194	8,453	0	27,267	<u>(\$460,377)</u>			
35	AUTO SHOP-CANAL	\$217,900	0	1,648	1,887	0	4,339	12,896	5,635	0	15,674	0	<u>(\$259,979)</u>		
10	EXEC OFFICE	\$256,357	17,456	5,769	1,887	0	4,339	2,425	5,635	0	18,440	0	0	<u>(\$312,308)</u>	
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
		<u>\$19,164,602</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$19,164,602</u>

See accompanying notes to Financial Schedules.

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

		REQUIRED STATISTICS										
ALLOCATION OF:		BUILDING HQ	TELEPHONES	SAFETY	HUMAN RESOURCES	PURCHASING	INFORMATION SYSTEMS	CONTRACTS & RISK MGMT	FINANCE O&M	AUTO SHOP	AUTO SHOP CANAL	EXEC. OFF
ALLOCATION BASIS:		SQ. FT. #	# OF TELEPHONES	# OF EMPLOYEES	# OF EMPLOYEES	# OF P.O.'S	# OF COMPUTERS	MGD CONTRACTS	FUNCTIONAL COST	# OF VEHICLES	# OF VEHICLES	TIME ESTIMATE
DEPT. #	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	\$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 %

See accompanying notes to Financial Schedules.

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

COSTS	ALLOCATION BASIS					ALLOCATED COSTS	
	1 TIME STUDY	2 \$ VALUE OF VEHICLES	3 \$ VALUE OF EQUIPMENT	4 TIME STUDY	5 VALUE OF WATER CONTRACTS		
<u>GENERAL & ADMINISTRATIVE</u>							
SALARIES & FRINGES	\$3,158,911	<u>(\$3,158,911)</u>					
VEHICLE RELATED	73,150	<u>(\$73,150)</u>					
MAINT. SUPPLIES & RELATED	64,600		<u>(\$64,600)</u>				
OFFICE & MISC.	51,500			<u>(\$51,500)</u>			
H.Q. OVERHEAD	823,329				<u>(\$823,329)</u>		
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
	<u>\$6,301,804</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>(\$0)</u>	<u>\$6,301,804</u>

See accompanying notes to Financial Schedules.

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.

Appendix II. Report of CLA PC – Allocation of Headquarters General and Administrative Expenses – Audited FY 2015 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**

INDEPENDENT ACCOUNTANTS' REPORT	1
FINANCIAL SCHEDULES	
SCHEDULE OF COST CENTER EXPENSE RECLASSIFICATION	2
SCHEDULE OF SYTEM-WIDE ALLOCATION COSTS	3
SCHEDULE OF COST ALLOCATION FACTORS	4
SCHEDULE OF MANASQUAN SYSTEM ALLOCATED COSTS	5
NOTES TO FINANCIAL STATEMENTS	6



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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.

CliftonLarsonAllen 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)

DEPT. #	DEPT./COST CENTER	COST CENTER COSTS	RECLASSIFICATIONS									REVISED 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				
	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 (RARITAN SYSTEM)	6,526,475	(73,730)		33,219		1,203,981			88,471		5,707	18,700	(18,325)	7,784,497
		11,729,842	0	0	0	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
		<u>\$16,295,795</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$16,295,795</u>

See accompanying Notes to Financial Schedules.

**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	<u>(\$69,507)</u>												
	TELEPHONE HQ	\$83,797	0	<u>(\$83,797)</u>											
36	SAFETY	\$180,947	522	921	<u>(\$182,390)</u>										
37	SECURITY	\$862,198	2,670	3,683	14,656	<u>(\$883,207)</u>									
14	HUMAN RESOURCES	\$381,825	3,215	3,683	4,885	0	<u>(\$393,608)</u>								
16	PURCHASING	\$277,816	3,547	2,763	3,257	0	7,872	<u>(\$295,255)</u>							
17	INFORMATION SYSTEMS	\$136,317	740	921	1,628	0	3,936	8,307	<u>(\$151,849)</u>						
15	CONTRACTS & RISK MGMT.	\$267,293	2,310	1,842	3,257	0	7,872	4,684	4,898	<u>(\$292,156)</u>					
13	FINANCIAL MGMT	\$875,947	6,729	6,446	11,399	0	27,553	7,865	22,043	0	<u>(\$957,982)</u>				
34	AUTO SHOP	\$374,498	10,960	1,842	1,628	0	3,936	13,786	7,348	0	27,261	<u>(\$441,259)</u>			
35	AUTO SHOP-CANAL	\$176,405	0	1,842	1,628	0	3,936	10,340	4,898	0	12,841	0	<u>(\$211,890)</u>		
10	EXEC OFFICE	\$240,471	9,326	6,446	1,628	0	3,936	1,944	4,898	0	17,505	0	0	<u>(\$286,154)</u>	
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
		<u>\$16,295,795</u>	<u>\$0</u>	<u>\$0</u>	<u>(\$0)</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>(\$0)</u>	<u>\$0</u>	<u>\$0</u>	<u>(\$0)</u>	<u>\$0</u>	<u>\$16,295,797</u>

See accompanying Notes Financial Schedules.

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

REQUIRED STATISTICS												
ALLOCATION OF:	BUILDING HQ	TELEPHONES	SAFETY	HUMAN RESOURCES	PURCHASING	INFORMATION SYSTEMS	RISK MGMT	FINANCE O&M	AUTO SHOP	AUTO SHOP CANAL	EXEC. OFF	
ALLOCATION BASIS:	SQ. FT.	# OF TELEPHONES	# OF EMPLOYEES	# OF EMPLOYEES	# OF P.O.'S	# OF COMPUTERS	MGD CONTRACTS	FUNCTIONAL COST	# OF VEHICLES	# OF VEHICLES	TIME ESTIMATE	
DEPT. #	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 (RARITAN SYSTEM)	6,218	58	59	59	1,458	33	182	7,784,497	40	40	89.75
40-60	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 %

See accompanying notes Financial Schedules.

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

COSTS	ALLOCATION BASIS					ALLOCATED COSTS	
	1 TIME STUDY	2 \$ VALUE OF VEHICLES	3 \$ VALUE OF EQUIPMENT	4 TIME STUDY	5 VALUE OF WATER CONTRACTS		
<u>GENERAL & ADMINISTRATIVE</u>							
SALARIES & FRINGES	\$2,595,138	<u>(\$2,595,138)</u>					
VEHICLE RELATED	86,289	<u>(\$86,289)</u>					
MAINT. SUPPLIES & RELATED	63,887		<u>(\$63,887)</u>				
OFFICE & MISC.	39,100			<u>(\$39,100)</u>			
H.Q. OVERHEAD	702,080				<u>(\$702,080)</u>		
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
	<u>\$5,268,034</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>(\$0)</u>	<u>\$5,268,034</u>

See accompanying notes Financial Schedules.

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-2

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

THURSDAY, FEBRUARY 4, 2016

ON PROPOSED AMENDMENTS TO THE
SCHEDULE OF RATES, CHARGES AND DEBT SERVICE ASSESSMENTS
FOR THE SALE OF WATER
FROM THE
MANASQUAN RESERVOIR WATER SUPPLY 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:

Asbury Park Press	December 24, 2015
The Star-Ledger	December 24, 2015
The Times (Trenton)	December 24, 2015

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 4, 2016

NEW JERSEY WATER SUPPLY AUTHORITY

Notice of Rate Proposal - Manasquan Reservoir System

Take notice that 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 adjustments to its Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Manasquan Reservoir System in Monmouth County, New Jersey to cover 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. 7:11-4.1 et seq. as follows: a decrease in the sales base from 20.158 to 19.443 million gallons per day applied to all contract customers in the calculation of the Operations and Maintenance Expense, the Source Water Protection and NJEIFP debt components of the rate; an increase in the Operations and Maintenance Expense Component from \$386.00 per million gallons to \$432.87 per million gallons; an increase in the NJEIFP debt component from \$24.79 per million gallons to \$25.10 per million gallons. The Source Water Protection Fund Component will remain at \$10.00 per million gallons. The Debt Service Component for all initial customers will increase from \$636.61 per million gallons to \$669.79 per million gallons, and the debt service sales base will decrease from 15.723 million gallons per day to 15.008 million gallons per day applied to the Debt Service Component for all initial water purchase contract customers. The Debt Service Component for all delayed water purchase contracts will increase from \$770.07 per million gallons to \$772.99 per million gallons and there is no change in the debt service sales base of 4.435 million gallons per day applied to all delayed water purchase contract customers.

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 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 11:00 a.m. on Thursday, January 7, 2016 in the Authority's Manasquan Reservoir System Administration Building Conference Room, 2041 Hospital Road, Wall, 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. 7:11-4.16.

Notice is hereby given that the Authority will hold a Public Hearing on Thursday, February 4, 2016 at 11:00 a.m. in the Authority's Manasquan Reservoir System Administration Building Conference Room, 2041 Hospital Road, Wall, 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:

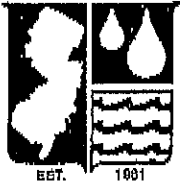
Henry S. Patterson, Executive Director
New Jersey Water Supply Authority
1851 Highway 31
Post Office Box 5196
Clinton, New Jersey 08809
info@njwsa.org

TRANSACTION REPORT

DEC/21/2015/MON 03:10 PM

FAX (TX)

#	DATE	START T.	RECEIVER	COM. TIME	PAGE	TYPE/NOTE	FILE
001	DEC/21	03:09PM	Associate Press	0:01:19	3	MEMORY OK	G3 4571



NEW JERSEY WATER SUPPLY AUTHORITY

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TELEFACSIMILE TRANSMITTAL FORM

TO: State House Media
Main Office Fax #

Atlantic City Press (609) 272-7224
Associated Press (609) 392-3525
Bergen Record (609) 656-5810

Gannett Newspapers
Asbury Park Press (732) 643-4014
Courier-Post (856) 663-2831

Gloucester County Times (856) 845-5480
NJN (609) 633-2927
N.J. Law Journal (973) 642-0920
New York Times (212) 556-3622
News 12 (732) 417-5155
Philadelphia Inquirer (215) 854-5099
Newark Star Ledger (973) 392-5845
The Trenton Times (609) 394-2819
Radio Reporter,
Kevin McArdle (609) 406-7956

DATE: 12/21/15

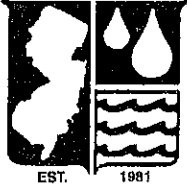
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If transmission is not complete, please call: 908-638-6121 X262

Zenona Pae

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.



NEW JERSEY WATER SUPPLY AUTHORITY

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

TELEFACSIMILE TRANSMITTAL FORM

TO: State House Media
Main Office Fax #

Atlantic City Press (609) 272-7224
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New York Times (212) 556-3622
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Newark Star Ledger (973) 392-5845
The Trenton Times (609) 394-2819
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Kevin McArdle (609) 406-7956

DATE: 12/21/15

NO. OF PAGES W/COVER: 2

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Zenona Puc

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Ms. Susan Schreck , CFO
Borough of Spring Lake
Fifth & Warren Avenues
Spring Lake, NJ 07762

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

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

Ms. Susan McClure
Division of Ratepayer Advocate
140 E. Front St., P.O. Box 46005
Trenton, NJ 08625

Edward Sampson, Director
Monmouth County Planning Board
One East Main Street
Freehold, NJ 07728

Ms. Stephanie A. Brand, Director
Division of Ratepayer Advocate
140 E. Front St., P.O. Box 46005
Trenton, NJ 08625

Mayor Robert Mahon
Borough of Avon-By-The-Sea
301 Main Street
Avon, NJ 07717

Timothy M. Gallagher, Clerk
Borough of Avon-By-The-Sea
301 Main Street
Avon, NJ 07717

Thomas Nolan, Administrator
Borough of Brielle
P. O. Box 445, 601 Union Lane
Brielle, NJ 08730

Mayor Matthew Doherty
Borough of Belmar
P.O. Box A, 601 Main Street
Belmar, NJ 07719

April Claudio, Clerk
Borough of Belmar
P.O. Box A, 601 Main Street
Belmar, NJ 07719

Mayor Thomas B. Nicol
Borough of Brielle
P. O. Box 445, 601 Union Lane
Brielle, NJ 08730

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

Louis Ferrara, Administrator
Borough of Matawan
201 Broad Street
Matawan, NJ 07747

Valerie Heilweil, Clerk
Borough of Keyport
18-20 Main Street, PO Box 70
Keyport, NJ 07735

Mr. Eric Olsen
Shorelands Water Company
1709 Union Avenue, PO Box 158
Hazlet, NJ 07730

Mayor Harry M. Aumack II
Borough of Keyport
70 W. Front Street, PO Box 70
Keyport, NJ 07735

Mayor Pasquale Menna
Borough of Red Bank
P.O. Box 868, 90 Monmouth Street
Red Bank, NJ 07701

Mayor Ken Farrell
Borough of Sea Girt
PO Box 296, 4th Avenue
Sea Girt, NJ 08750

Lorraine Carafa, Clerk
Borough of Sea Girt
PO Bx 296, 4th Avenue
Sea Girt, NJ 08750

Stanley J. Sickels, Administrator
Borough of Red Bank
90 Monmouth Street, P.O. Box 868
Red Bank, NJ 07701

New Jersey American Water
Swimming River Treatment Plant
310 Swimming River Road
Colts Neck, NJ 07722

Mayor Brian Wilton
Borough of Lake Como
PO Box 569
Lake Como, NJ 07719-0569

Mayor Jennifer Naughton
Borough of Spring Lake
Fifth & Warren Avenues
Spring Lake, NJ 07762

Louise A. Mekosh, Administrator/Clerk
Borough of Lake Como
P.O. Box 569
Lake Como, NJ 07717-0569

Jay Delaney, Borough Clerk
Borough of Spring Lake Heights
555 Brighton Avenue
Spring Lake Heights, NJ 07762

Mayor George K. Newberry
Township of Wall
2700 Allaire Road
Wall, NJ 07719

Jane L. Marban, Clerk
Borough of Spring Lake
Fifth & Warren Avenues
Spring Lake, NJ 07762

Mayor Gavino Maccanico
Borough of Spring Lake Heights
555 Brighton Avenue
Spring Lake Heights, NJ 07762

Jeffry Bertrand, Administrator
Township of Wall
2700 Allaire Road
Wall, NJ 07719

Department of State
Secretary of State
125 W. State Street, P.O. Box 300
Trenton, New Jersey 08625

Mayor Paul Buccellato
Borough of Matawan
201 Broad Street
Matawan, NJ 07747

Accounts Payable
NJ American Water
P. O. Box 5602
Cherry Hill, NJ 08034

Michael J. Broncatello
Comptroller
NJDWSC
One F.A. Orechio Drive
Wanaque, NJ 07465

AFFIDAVIT OF PUBLICATION

Publisher's Fee \$105.00 Affidavit \$35.00

State of New Jersey } SS.
Monmouth/Ocean Counties

Personally appeared Diana Figueroa

Of the **Asbury Park Press**, a newspaper printed in Freehold, New Jersey and published in Neptune, in said County and State, and of general circulation in said county, who being duly sworn, depose and saith that the advertisement of which the annexed is a true copy, has been published in the said newspaper 1 times, once in each issue as follows:

12/24/15 A.D 2015

Diana Fig

Ad Number: 0000944694

Melanie Calt
Sworn and subscribed before me, this 24 day of
December, 2015



2015 DEC 30 AM 9 53
11/23/15 10:13:11

NEW JERSEY WATER SUPPLY AUTHORITY

Notice of Rate Proposal – Manasquan Reservoir System

Take notice that 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 adjustments to its Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Manasquan Reservoir System in Monmouth County, New Jersey to cover 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. 7:11-4.1 et seq. as follows: a decrease in the sales base from 20.158 to 19.443 million gallons per day applied to all contract customers in the calculation of the Operations and Maintenance Expense, the Source Water Protection and NJEIFP debt components of the rate; an increase in the Operations and Maintenance Expense Component from \$386.00 per million gallons to \$432.87 per million gallons; an increase in the NJEIFP debt component from \$24.79 per million gallons to \$25.10 per million gallons. The Source Water Protection Fund Component will remain at \$10.00 per million gallons. The Debt Service Component for all initial customers will increase from \$636.61 per million gallons to \$669.79 per million gallons, and the debt service sales base will decrease from 15.723 million gallons per day to 15.008 million gallons per day applied to the Debt Service Component for all initial water purchase contract customers. The Debt Service Component for all delayed water purchase contracts will increase from \$770.07 per million gallons to \$772.99 per million gallons and there is no change in the debt service sales base of 4.435 million gallons per day applied to all delayed water purchase contract customers.

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 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 11:00 a.m. on Thursday, January 7, 2016 in the Authority's Manasquan Reservoir System Administration Building Conference Room, 2041 Hospital Road, Wall, 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. 7:11-4.16.

Notice is hereby given that the Authority will hold a Public Hearing on Thursday, February 4, 2016 at 11:00 a.m. in the Authority's Manasquan Reservoir System Administration Building Conference Room, 2041 Hospital Road, Wall, 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
(\$105.00)

published in the New Jersey Register dated January 4, 2016. A final version of the Basis and Background (88B) document containing the full text of the proposed 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 11:00 a.m. on Thursday, January 7, 2016, in the Authority's Manasquan Reservoir System Administration Building Conference Room, 2041 Hospital Road, Wall, New Jersey, to present and explain any additional data requested in accordance with the rate making procedure specified in NJAC 7:11-4.16.

Notice is hereby given that the Authority will hold a Public Hearing on Thursday, February 4, 2016 at 10:00 a.m. in the Authority's Manasquan Reservoir System Administration Building Conference Room, 2041 Hospital Road, Wall, 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 51196
Clinton, New Jersey 08809
info@njwsa.org

\$1640

NEW JERSEY WATER SUPPLY AUTHORITY

Notice of Rate Proposal - Manasquan Reservoir System

Take notice that 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 adjustments to its Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Manasquan Reservoir System in Monmouth County, New Jersey to cover 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 NJAC 7:11-4.1 et seq. As follows: a decrease in the sales base from 20,158 to 19,443 million gallons per day applied to all Maintenance Expense, the Source Water Protection and NIEPP debt components of the rate; and increase in the Operations and Maintenance Expense Component from \$386.00 per million gallons to \$432.87 per million gallons; an increase in the NIEPP debt component from \$24.79 per million gallons to \$25.10 per million gallons. The Source Water Protection Component will remain at \$10.00 per million gallons. The Debt Service Component for all initial customers will increase from \$636.61 per million gallons to \$669.79 per million gallons, and the debt service sales base will decrease from 15,723 million gallons per day to 15,008 million gallons per day applied to the Debt Service Component for all initial water purchase contract customers. The Debt Service Component for all delayed water purchase contracts will increase from \$770.07 per million gallons to \$772.99 per million gallons and there is no change in the debt service sales base of 4,435 million gallons per day applied to all delayed water purchase contract customers. The proposal is scheduled to be

STATE OF NEW JERSEY }
COUNTY OF ESSEX } SS

Famelia Barney

Being duly sworn, according to law, on his/her oath
sayeth that he/she is _____ CLERK

of the Star-Ledger, in the County of Essex, and that the
notice, of which the attached is a copy, was published in
said paper on the 24
day of December 2015 and continued
therein for _____ successively,
at least once in each _____
for 1 day

[Signature]

Sworn to and subscribed
before me this 14
day of January, 20 15

[Signature]
NOTARY PUBLIC OF NEW JERSEY

State of New Jersey }
Mercer County } ss.

Maryanne Ulnich

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 further states he/she has personal knowledge that an advertisement, of which the annexed is a true copy, was published in the issue of

12/24 2015

Maryanne Ulnich

Sworn and subscribed before me
this 24th day of December 2015

[Signature]
Notary Public for N.J.

AD04659

MEDINAH Y. JONES
Notary Public, State of New Jersey
My Commission Expires
January 18, 2018

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The Times NJ

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FIRE COMMISSIONERS
District No. 7, Hamilton Township
Notice is hereby given that the proposed fire district budget for fiscal year 2016 will be presented to the fire commissioners on January 14, 2016.

NOTICE OF PUBLIC HEARING
The Board of Fire Commissioners, District No. 7, Hamilton Township, will hold a public hearing on the proposed fire district budget for fiscal year 2016 on January 14, 2016.

PUBLIC NOTICE
Notice is hereby given that bid proposals will be received via the internet until 10:00 AM on 1/27/16. The project is for the construction of a new fire station.

PUBLIC NOTICE
Notice is hereby given that bid proposals will be received via the internet until 10:00 AM on 1/27/16. The project is for the construction of a new fire station.

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Notice is hereby given that bid proposals will be received via the internet until 10:00 AM on 1/27/16. The project is for the construction of a new fire station.

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WANTED HOUSE TO RENT
Hamilton Twp. 2nd fl. 2 bed, 2 bath, 1.5 car garage. Call 609-688-7870.

OFFICES FOR RENT
Green Ridge office building. Call 609-688-7870.

WATER SUPPLY AUTHORITY
Notice is hereby given that the Water Supply Authority is seeking proposals for the construction of a new water treatment plant.

PUBLIC NOTICE
Notice is hereby given that the New Jersey Department of Transportation is seeking proposals for the construction of a new highway interchange.

PUBLIC NOTICE
Notice is hereby given that the New Jersey Department of Transportation is seeking proposals for the construction of a new highway interchange.

PUBLIC NOTICE
Notice is hereby given that the New Jersey Department of Transportation is seeking proposals for the construction of a new highway interchange.

PUBLIC NOTICE
Notice is hereby given that the New Jersey Department of Transportation is seeking proposals for the construction of a new highway interchange.

REAL ESTATE
New York City, Manhattan. Call 609-688-7870.

WATER SUPPLY AUTHORITY
Notice is hereby given that the Water Supply Authority is seeking proposals for the construction of a new water treatment plant.

PUBLIC NOTICE
Notice is hereby given that the New Jersey Department of Transportation is seeking proposals for the construction of a new highway interchange.

PUBLIC NOTICE
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PUBLIC NOTICE
Notice is hereby given that the New Jersey Department of Transportation is seeking proposals for the construction of a new highway interchange.

WATER SUPPLY AUTHORITY
Notice is hereby given that the Water Supply Authority is seeking proposals for the construction of a new water treatment plant.

PUBLIC NOTICE
Notice is hereby given that the New Jersey Department of Transportation is seeking proposals for the construction of a new highway interchange.

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Zenona Puc

From: Gabrielle Sennon-NJAM Legal Advertising <legalads@njadvancemedia.com>
Sent: Thursday, December 17, 2015 1:16 PM
To: Zenona Puc; Henry Patterson III; Susan Buckley; Marc Brooks; Beth Gates
Subject: 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
> price of the advertisement. Accordingly, please make sure that this
> 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.
>

New Jersey Register Notice

Exhibit D

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:

<u>Period</u>	<u>Allocation</u>	<u>Rate/Million Gallons</u>
(State fiscal year unless otherwise indicated)		
State fiscal year [2016] 2017	Million Gallons per Day (MGD)	\$171.00

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.

<u>Period</u>	<u>Allocation</u>	<u>Rate/Million Gallons</u>
(State fiscal year unless otherwise indicated)		

State fiscal year [2016] 2017	Million Gallons per Day (MGD)	\$25.00
-------------------------------	-------------------------------	---------

7:11-2.5 Capital Fund Component

(a)-(b) (No change.)

(c) Capital Fund Assessment

<u>Period</u>	<u>Allocation</u>	<u>Rate/Million Gallons</u>
(State fiscal year unless otherwise indicated)		

State fiscal year [2016] 2017	Million Gallons per Day (MGD)	\$33.00
-------------------------------	-------------------------------	---------

7:11-2.6 Source Water Protection Fund Component

(a) (No change.)

(b) Source Water Protection Fund Assessment

<u>Period</u>	<u>Allocation</u>	<u>Rate/Million 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 info@njwsa.org.

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

The Basis and Background document, which is available at the New Jersey Water Supply Authority's website at <http://www.njwsa.org/mrs.htm>, 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 Manasquan Reservoir System (System), to cover expenses for Fiscal Year (FY) 2017. The Authority operates on a July 1 to June 30 Fiscal Year. The amendments to specific aspects of the rate structure proposed in this rulemaking will result in an increase to the overall rate from \$1,057.40 per million gallons (MG) to \$1,137.76 per MG for initial customers and from \$1,190.86 per MG to \$1,240.96 per MG for delayed water purchase contracts. 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. 7:11-4.3, and incorporated by reference in the stand-by charge at N.J.A.C. 7:11-4.13, was last adjusted operative July 1, 2015 (FY 2016), when the amount was increased from \$356.61 to \$386.00 per MG. See 47 N.J.R. 250(a) and 1318(a).

The O&M expense component sales base is set forth at N.J.A.C. 7:11-4.3(c). The O&M expense component sales base for FY 2016 was 20.158 million gallons per day (MGD), which is expected to decrease to 19.443 MGD for FY 2017. Projected operating costs for FY 2017, along with a decrease in the sales base, indicate that an increase in the O&M expense component, from \$386.00 to \$432.87, will be needed for FY 2017. The Authority proposes to amend N.J.A.C. 7:11-4.3(c) to incorporate both these changes.

The debt service cost component at N.J.A.C. 7:11-4.4 was last adjusted operative July 1, 2015 (see 47 N.J.R. 250(a) and 1318(a)). At N.J.A.C. 7:11-4.4(b), the debt service component for FY 2016 for initial customers was based on a sales base of 15.723 MGD. For FY 2017, the Authority anticipates that the applicable sales base will decrease to 15.008 MGD. Twelve water purchase contracts expired on June 30, 2015, after the adoption of the FY 2016 rates. The Authority estimated the reduction in the sales base for FY 2016. After the contracts were renewed, the actual sales base was lower than estimated and this further reduction is reflected in the FY 2017 rate proposal. Five customers will be withdrawing more water from their wells instead of purchasing surface water from the New Jersey Water Supply Authority. The debt service payment for initial System customers will increase by \$4,693 for FY 2017 relative to FY 2016. As a result of the reduction in the sales base and the increase in the debt service payment, an increase in the debt service component for initial System customers, from \$636.61 to \$669.79, will be needed for FY 2017. The increase in the rate component is necessary in order to meet coverage of 120 percent of debt service required by the Authority's bond resolution. This rate is charged to all customers who executed uninterruptible service contracts prior to July 1, 1990, which reflects commencement of System operations, and to those water purchasers entering delayed water purchase contracts that pre-paid the total delayed water purchase surcharge at the commencement of the contract rather than pay it over the contract term. The Authority proposes to amend N.J.A.C. 7:11-4.4(b) to incorporate both these changes.

The debt service component for FY 2016 for delayed water purchase System customers, set forth at N.J.A.C. 7:11-4.4(c), was based on a sales base of 4.435 MGD. There is no change in the delayed water purchase sales base for FY 2017. The Authority proposes an increase in the delayed water purchase debt service component, which is charged to all water purchasers who entered into a water purchase contract for uninterruptible service commencing subsequent to the System operation date, from \$770.07 to \$772.99 per MG, starting July 1, 2016. The debt service payment for delayed water purchase System customers will increase by \$1,082 in FY 2017 relative to FY 2016. The increase in the

rate component is necessary in order to meet coverage of 120 percent of debt service required by the Authority's bond resolution.

The Authority established a Source Water Protection Fund Component (N.J.A.C. 7:11-4.5) of \$15.00 per MG starting July 1, 2003. The Source Water Protection Fund Component provides administrative cost assistance for watershed planning and land acquisitions within the Manasquan Basin critical to the long-term protection of water quality and quantity in the System. The rate was decreased from \$15.00 per MG to \$10.00 per MG for FY 2016. The Authority proposes to maintain the existing rate of \$10.00 per MG. A rate of \$10.00 per MG and existing surplus are sufficient to cover program costs for FY 2017.

The Authority proposes an increase in the New Jersey Environmental Infrastructure Financing Program (NJEIFF) Debt Component, set forth at N.J.A.C. 7:11-4.6, from \$24.79 to \$25.10 per MG starting July 1, 2016. The NJEIFF Debt Component was established to repay debt service to the New Jersey Environmental Infrastructure Trust for construction costs associated with the installation of a structure over the Manasquan Reservoir Intake Pump Station. The debt service payment will decrease by \$4,754 in FY 2017 relative to FY 2016. The combination of the decrease in debt service and the decrease in the total sales base from 20.158 MGD to 19.443 MGD will cause an increase in the rate of \$31 per MG.

Social Impact

The proposed amendments will have a positive social impact. The proposed amendments represent the Authority's efforts to ensure that rates for the untreated water purchased from the System are equitably assessed to all purchasers and are sufficient to provide the revenues required by the Authority.

The four billion gallon capacity Manasquan Reservoir provides a needed water supply to keep pace with the continuing population growth in Monmouth County while reducing the dependence of water purveyors on the stressed ground water resources of the region.

Economic Impact

The proposed rate adjustments for initial System customers will result in a total charge for the uninterruptible untreated water supply from the System of \$1,137.76 per million gallons (\$432.87 for O&M plus \$669.79 for debt service plus \$10.00 for source water protection plus \$25.10 for NJEIFF debt component), for Fiscal Year 2017. This results in an increase of \$80.36 per million gallons relative to Fiscal Year 2016.

The proposed rate adjustments for contracts executed subsequent to the System operation date (delayed water purchase System customers) will result in a total charge for the uninterruptible untreated water supply from the System for contracts effective July 1, 2001, October 1, 2002, and January 1, 2005, of \$1,240.96 per million gallons (\$432.87.00 for O&M plus \$772.99 for debt service plus \$10.00 for source water protection plus \$25.10 for NJEIFF debt component) for Fiscal Year 2017. This results in an increase of \$50.10 per million gallons relative to Fiscal Year 2016.

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. The rate impact on the average New Jersey household is anticipated to be an increase of \$11.73 per year in the billing area of initial System customers and an increase of \$8.04 per year in the billing area of delayed System customers.

Environmental Impact

The adequate financing of upkeep and operation of the System, which is provided by the proposed rate amendments, will result in a positive environmental impact. Sixty percent of the water supply in Monmouth County was previously derived from stressed ground water resources. The System relieves the use of a portion of the existing ground water supply and meets the needs of a developing area. This water supply system has a very important and positive environmental impact since its operation reduces the stress on the valuable ground water resources of the region by providing an alternate surface water supply. By reducing the

pumping of ground water, saltwater intrusion will be limited and present ground water levels will not be further reduced.

The 30 million gallon per day water supply that the System can provide helps to protect the region's threatened ground water resources from further depletion. In addition, the 770-acre Manasquan Reservoir provides for the protection of waterfowl and wildlife in the region through several protected wetland sites for the rearing of waterfowl and wildlife.

The continued financing of the source water protection fund will have a positive environmental impact by providing greater protection to water quality and quantity in the Manasquan Basin through real estate acquisitions, coordinated government land management practices, and remedial projects.

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 rules 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 State-owned 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 amendments are not proposed 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 are an annual revision to the Authority's regulations covering rates for its water customers in the System. 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 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 only affect the rates charged to users for water purchased from the Authority. The municipalities and major water purveyors 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 an insignificant impact because it is unlikely 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 an insignificant impact because it is unlikely 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]):

- 7:11-4.3 Operations and maintenance expense component
 - (a)-(b) (No change.)
 - (c) Operations and maintenance expense component:

<u>Effective Date</u>	<u>Rate/Million Gallons</u> (based upon a [20,158] 19.443 mg per day sales base)
July 1, [2015] 2016	[386.00] \$432.87

- 7:11-4.4 Debt service cost component

- (a) (No change.)
- (b) The following debt service rates based on a sales base of [15.723] **15.008** million gallons per day, apply to all initial water purchase contract customers, and all delayed water purchase contract customers, who fully satisfied their contractual delayed water purchase surcharge obligations at the commencement of their contract terms:

<u>Period</u>	<u>Rate/Million Gallons</u> (Coverage 120 percent)
7/1/[2015] 2016 to 6/30/[2016] 2017	[636.61] \$669.79

(c) A delayed water purchase surcharge will be assessed to all water purchasers who entered into a water purchase contract for an uninterrupted service commencing subsequent to the system operation date (delayed water purchase contract). This includes a purchaser under an initial water purchase contract, which provides for an increase in the amount of uninterrupted service effective subsequent to the system operation date.

1. The following debt service rate based on a sales base of 4.435 million gallons per day, applies to the delayed water purchase contracts commencing July 1, 2001, October 1, 2002, and January 1, 2005, in lieu of the debt service rate set forth in (b) above.

<u>Period</u>	<u>Rate/Million Gallons</u> (Coverage 120 percent)
7/1/[2015] 2016 to 6/30/[2016] 2017	[770.07] \$772.99

- (d) (No change.)

- 7:11-4.5 Source water protection fund component

- (a) (No change.)
- (b) The source water protection fund component is as follows:

<u>Period</u>	<u>Rate/Million Gallons</u>
7/1/[2015] 2016 to 6/30/[2016] 2017	\$10.00

- 7:11-4.6 New Jersey Environmental Infrastructure Financing Program debt component

- (a) (No change.)
- (b) The New Jersey Environmental Infrastructure Financing Program debt component is as follows:

<u>Period</u>	<u>Rate/Million Gallons</u>
7/1/[2015] 2016 to 6/30/[2016] 2017	[24.79] \$25.10

Minutes of Pre-Public Hearing Meeting

Exhibit E

MINUTES

Pre-Public Hearing Meeting - January 7, 2016

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

The Pre-Public Hearing Meeting was called to order by Henry Patterson, Executive Director at 11:00 a.m. in the Manasquan Administration Building Conference Room.

Authority staff members present were Henry Patterson, Executive Director and Beth Gates, Director, Finance and Administration, Susan Buckley, Controller and Paul McKeon, Director, Manasquan System and D&R Canal Operations.

No members of the public were in attendance.

After an appropriate period of time, Mr. Patterson adjourned the meeting at 11:20 a.m.

AGENDA

Pre-Public Hearing Meeting

January 7, 2016

Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Manasquan Reservoir Water Supply System

To become effective July 1, 2016

REGISTRATION – 10:30 – 11:00 a.m.

- | | | |
|----|---|-------------|
| 1. | Greeting/Introduction | Staff |
| 2. | Correspondence and Communications | Beth Gates |
| 3. | Review of Process and Future Events | Beth Gates |
| 4. | Review of Proposed Adjustments to the Rate Schedule
Proposed Fiscal Year 2017 Budget | Beth Gates |
| 5. | Capital Improvement Program | Paul McKeon |
| 6. | Additional questions and answers | Staff |

Transcript of Public Hearing

Exhibit F

NEW JERSEY WATER SUPPLY AUTHORITY

IN RE:

PROPOSED ADJUSTMENTS TO THE SCHEDULE OF RATES,
CHARGES OF DEBT SERVICE ASSESSMENTS
FOR THE SALE OF WATER FROM THE
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM
(N.J.A.C. 7:11-4.1)
TO BECOME EFFECTIVE JULY 1, 2016

HELD AT:

MANASQUAN RESERVOIR SYSTEM
ADMINISTRATION BUILDING
CONFERENCE ROOM
2041 HOSPITAL ROAD
WALL, N.J.,
11:00 A.M.,
FEBRUARY 4, 2016

B E F O R E:

LOU MAI, HEARING OFFICER

A P P E A R A N C E S:

HENRY PATTERSON,	EXECUTIVE DIRECTOR
BETH GATES,	DIRECTOR OF FINANCE & ADMINISTRATION
SUSAN BUCKLEY,	CONTROLLER
PAUL MCKEON,	DIRECTOR OF MANASQUAN SYSTEM & DELAWARE & RARTAN CANAL OPERATIONS

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I N D E XWITNESSPAGE

OPENING STATEMENT
BY MS. BUCKLEY:

6

E X H I B I TNUMBERDESCRIPTIONPAGE

P-1 Pre-Public Hearing Meeting Minutes, were
received and marked into evidence

5

P-2, Certification, was received and marked into
evidence.

6

S-1 Basis and Background Document, dated
12/07/15, was received and marked into evidence.

13

1 MR. MAI: On behalf of the New Jersey Water
2 Supply Authority, I would like to welcome you here this
3 morning. My name is Lou Mai. I am the Chairman of the
4 New Jersey Water Supply Authority's Finance Committee
5 and a member of the Authority's Insurance and Capital
6 Projects Committees. I will be serving as Hearing
7 Officer for this public hearing for the Authority's
8 proposed adjustments to its Schedule of Rates, Charges
9 and Debt Service Assessments for the supply of water
10 from the Manasquan Water Supply System, which will take
11 effect on July 1, 2016.

12 Several members of the Authority's staff
13 are present today and I would like to introduce them.

14 Mr. Henry Patterson is the Executive
15 Director.

16 Ms. Susan Buckley is the Controller.

17 Ms. Beth Gates is the Director of Finance
18 and Administration.

19 Mr. Paul McKeon is the Director of the
20 Manasquan System and Delaware and Raritan Canal
21 Operations.

22 It is requested that any one present sign
23 the roster. If you would like to make a statement
24 today, please print your name on one of the rosters and
25 submit it to me.

1 The Authority has adopted extensive rate
2 adjustment procedures found in the New Jersey
3 Administrative Code at N.J.A.C. 7:11-4.16 and 4.17,
4 which provide for close contact with our water
5 customers, the State Division of the Ratepayer Advocate
6 and other interested parties for the proposal of any
7 rate adjustment. These procedures demonstrate the
8 Authority's commitment to maintaining an active
9 dialogue with the public, welcoming the input of
10 interested parties and providing a forum for that
11 input.

12 Official notice of the proposed rate
13 adjustments for Fiscal Year 2017 was mailed to the
14 water users and all interested parties on December 21,
15 2015 and published in the New Jersey Register on
16 January 4, 2016. On January 7, 2016 the required
17 pre-public hearing meeting with our contractual water
18 customers and interested parties was conducted. No
19 members of the public attended the pre-public hearing
20 meeting.

21 Ms. Gates, do we have minutes from the
22 pre-public hearing meeting of January 7, 2016?

23 MS. GATES: Yes, Mr. Chairman, and I would
24 like to enter the January 7, 2016 pre-public hearing
25 minutes into the record as Exhibit P-1.

1 MR. MAI: Please mark the Pre-Public
2 Hearing meeting minutes as Exhibit P-1.

3 -----

4 (At which time, P-1 Pre-Public Hearing
5 Meeting Minutes, were received and marked into
6 evidence.)

7 -----

8 MR. MAI: At this time, I will ask
9 Ms. Gates if we have a certification of the publication
10 and the mailing of notification of this public hearing
11 to present for the record.

12 MS. GATES: Yes, Mr. Chairman, we have
13 certification that Notice of this public hearing was
14 mailed to the Secretary of State, the Division of the
15 Ratepayer Advocate, the news media maintaining a press
16 office at the State House Complex, the Board of Public
17 Utilities, the Authority's Contractual Water Purchasers
18 and other interested parties on December 21, 2015 and
19 advertised in the Asbury Park Press, the Star Ledger,
20 and The Times (Trenton) on December 24, 2015. I would
21 like to enter this Certification into the record as
22 Exhibit P-2.

23 MR. MAI: Please mark this Certification
24 as Exhibit P-2.

25 -----

1 (At which time, P-2, Certification, was
2 received and marked into evidence.)

3 -----

4 MR. MAI: Thank you, Ms. Gates.

5 Ms. Buckley, will you now present the
6 Authority's opening statement.

7 -----

8 OPENING STATEMENT

9 BY MS. BUCKLEY:

10 -----

11 MS. BUCKLEY: Good Morning. The
12 New Jersey Water Supply Authority has proposed
13 amendments to its "Schedule of Rates, Charges and Debt
14 Service Assessments for the Sale of Water from the
15 Manasquan Reservoir Water Supply System" to raise
16 sufficient revenue for the Authority's Fiscal Year 2017
17 operations and to adjust the rate component for the
18 operations and maintenance and debt service assessments
19 in the Schedule of Rates.

20 The General Rate Schedule for Operations
21 and Maintenance was last adjusted effective
22 July 1, 2015, to cover the operating expenses of the
23 System for the Authority's current Fiscal Year 2016.
24 Operational expenses in the Manasquan Reservoir System
25 remained relatively stable from Fiscal Year 2010

1 through FY2015; with the use of miscellaneous revenue
2 items, the rate was held flat. For the current fiscal
3 year, there was a 4.09 percent increase in the overall
4 rate to offset both a shifting in costs from the
5 Water Treatment Plant back to the Reservoir System and
6 a loss in sales base based on the original estimate of
7 water purchase volumes associated with long term
8 contract renewals effective July 1, 2015.

9 In FY2017, the sales base drops further
10 based on the actual renewals and the shift in expense
11 back to the Reservoir System from the Treatment Plant
12 continues as a result of the completion of the large
13 Treatment Plant rehabilitation projects. The FY2017
14 Operations and Maintenance Component will be subsidized
15 to the extent of 20 percent excess debt service raised
16 as a requirement of the Authority's bond resolutions, a
17 yearend balance from FY2015, and overdraft sales from
18 the Summer of 2015. Despite those subsidies, the
19 Operations and Maintenance Component of the rate is
20 proposed to increase in part because of sales base
21 losses and in part because of expense increases. The
22 Debt Service components of the rate are increasing
23 solely because of loss in sales base.

24 The New Jersey Water Supply Authority is
25 operating, maintaining and managing three distinct

1 systems each with its own budget, cost accountability
2 and revenue stream; the Raritan Basin System, the
3 Manasquan Reservoir Water Supply System both untreated
4 water supply systems, and a Water Treatment Plant and
5 Transmission System for the Southeast Monmouth
6 Municipal Utilities Authority, which plant was
7 constructed on Authority owned property.

8 The Authority's headquarters staff located
9 in Clinton provides general and administrative support
10 service for all three systems. In order to equitably
11 assess each system, an outside auditing firm developed
12 a methodology for the allocation of the headquarters
13 general and administrative costs to each operating
14 system. After the close of each fiscal year, the
15 Authority's current Auditors provide their findings as
16 to the need to adjust any of the allocation factors and
17 the actual audited expenditures for the fiscal year.

18 Independent auditors have performed the
19 Authority's Fiscal Year 2015 audit and they have
20 provided necessary information on the adjustment of the
21 Fiscal Year 2015 allocation as a credit or debit to be
22 netted against the Fiscal Year 2017 budgeted
23 allocation. A copy of the Auditor's report on the
24 allocation of the headquarters' general and
25 administrative costs is included in the rate proposal

1 package for each system.

2 Insurance costs are also allocated to each
3 system based upon the recommendations of the
4 Authority's risk management consultant. Each rate
5 proposal package includes a summary table showing the
6 proposed insurance budget amounts and the portions
7 allocated to each of the three systems.

8 The total charge for the water supply
9 consists of a component to cover the costs of operating
10 and maintaining the System, a Debt Service Component,
11 an NJEIFP Debt Component and a Source Water Protection
12 Component.

13 After all appropriate allocations from the
14 Raritan Basin System and to the Water Treatment Plant
15 and Transmission System, the projected operating costs
16 for Fiscal Year 2017 indicate that an Operations and
17 Maintenance rate component of \$432.87 per million
18 gallons will be required starting July 1, 2016. This
19 represents an increase of \$46.87 per million gallons or
20 12.14 percent over the prior fiscal year. The
21 Operations and Maintenance component sales base will
22 decrease from 20.158 million gallons per day (expected
23 sales base leading up to contract renewal) to 19.443
24 million gallons per day which is the actual sales base
25 upon renewal of twelve water purchase contracts as of

1 July 1, 2015.

2 The Debt Service Component of the total
3 rate is calculated each year to cover the payments due
4 on the outstanding debt for the System. The Debt
5 Service Assessment was established effective
6 July 1, 1990 to cover debt service payments on the
7 initial loan of \$63,600,000 at an interest rate of 7.15
8 percent (subsequently reduced to 5.93 percent in Fiscal
9 Year 1997 for payments due August 1998 and after), and
10 the payment for the interim completion loan of
11 \$7,416,000 at an interest rate of 7.16 percent (which
12 was also later reduced to 6.24 percent in Fiscal Year
13 1992).

14 In August of 2005, the Authority refunded
15 the current portion of the State Loan Notes and the
16 Completion Notes at an average coupon of 4.83 percent
17 and the net present value savings of \$6.187 million.
18 The term of the bonds is 25 years. The bond proceeds
19 also fully funded the Debt Service Reserve Account and
20 debt service coverage must remain at 120 percent
21 through the life of the bonds.

22 In July of 2006, the Authority issued
23 \$90,147.57 and \$9,505.40 current State Loan Notes and
24 Completion Loan Notes respectively for a delayed water
25 purchase contract for .028 million gallons per day.

1 The debt service for the notes associated with this
2 water purchase contract is paid in part, through the
3 Debt Service Component of the initial rate, and funds
4 held in escrow by the Authority, contributed by the
5 water purchase customer for this purpose.

6 On July 1, 2016, the Debt Service
7 Component for contracts effective as of July 1, 1990
8 will be \$669.79 per million gallons, an increase of
9 \$33.18 over the prior year. This change results from a
10 decrease in the sales base for Initial water customers
11 from 15.723mgd to 15.008mgd and a minor change in the
12 debt service schedule. The Debt Service Component for
13 Delayed Water Purchase Contracts will be \$772.99 per
14 million gallons, a \$2.92 per million gallon increase
15 from the prior Fiscal Year. There is no change in the
16 sales base of 4.435mgd for Delayed customers and there
17 is a minor increase in debt service to be paid in
18 FY2017.

19 The Authority established a Source Water
20 Protection Fund Component in Fiscal Year 2004
21 dedicating \$15.00 per million gallons to protect the
22 quality and quantity of waters in the
23 Manasquan Reservoir Water Supply System. The Authority
24 reduced the Source Water Protection Component from
25 \$15.00 per million gallons to \$10.00 per million

1 gallons in Fiscal Year 2016. The revised rate will
2 provide a sufficient source of revenue for
3 Watershed program needs in the Manasquan River Basin.
4 The Authority is recommending no change in FY2017.

5 The Authority established the NJEIFP Debt
6 Component in FY2012 to pay debt service on bonds issued
7 in May of 2012 at 75 percent zero interest and
8 25 percent market interest by the New Jersey
9 Environmental Infrastructure Financing Program to build
10 a structure over the Intake Pumps and Traveling Water
11 Screens. The Authority proposes increasing the rate
12 component from \$24.79 per million gallons to \$25.10 per
13 million gallons in Fiscal Year 2017. The increase is a
14 result of the drop in sales base from 20.158 million
15 gallons per day to 19.443 million gallons per day.

16 The total proposed rate on July 1, 2016,
17 for contracts effective as of July 1, 1990, will
18 increase from \$1,057.40 per million gallons to
19 \$1,137.76 per million gallons. The total proposed rate
20 on July 1, 2016, for Delayed Water Purchase Contracts
21 will increase from \$1,190.86 per million gallons to
22 \$1,240.96 per million gallons.

23 The Authority's procedure for rate
24 adjustments is found in the New Jersey Administrative
25 Code at N.J.A.C. 7:11-4.13 thereafter ("The

1 Regulations".) These rate adjustment procedures
2 require the Authority to give official notice and an
3 explanation outlining the need for proposed rate
4 adjustments to various entities at least six (6) months
5 prior to the proposed effective date.

6 The Authority's Commissioners formally
7 proposed the publication of the rate adjustment for
8 Fiscal Year 2017 at their regular monthly business
9 meeting on December 7, 2015. The final Basis and
10 Background Statement was posted on the Authority's
11 Website on December 23, 2015.

12 Mr. Mai, I request that this Basis and
13 Background Document be entered into the record as
14 Exhibit S-1.

15 MR. MAI: Please mark the Basis and
16 Background Document dated 12/07/15 as Exhibit S-1.

17 ----

18 (At which time, S-1 Basis and Background
19 Document, dated 12/07/15, was received and marked into
20 evidence.)

21 ----

22 MS. BUCKLEY: The Authority's rate
23 adjustment procedures provide that the contractual
24 water customers and interested parties be provided the
25 opportunity to meet with Authority staff at a

1 pre-public hearing meeting in order to be presented
2 with an explanation of the formal proposal. This
3 pre-public hearing meeting must be scheduled within
4 forty-five (45) days after the official notice of a
5 proposed rate adjustment is sent. A "Notice of Public
6 Hearing" was mailed on December 21, 2015, to
7 contractual water customers and other interested
8 parties informing them of the pre-public and public
9 hearings scheduled for January 7th and February 4,
10 2016, respectively at the Authority's Manasquan
11 Reservoir Administration Building.

12 Additionally, on December 24, 2015, notice
13 of the Pre-Public Hearing and this Public Hearing was
14 published in the Asbury Park Press, in The Times
15 (Trenton) and the Star Ledger. Notice of the proposed
16 rate adjustment and the public hearing schedule also
17 appeared in the January 4, 2016 issue of the New Jersey
18 Register. The Pre-Public hearing was conducted on
19 January 7, 2016, and no members of the public attended.

20 The Authority's regulations state that
21 interested parties may submit written questions for
22 inclusion in the hearing record, and if submitted no
23 later than 15 days prior to the public hearing,
24 Authority staff, at today's meeting, must provide
25 answers to the questions. The Authority will also

1 provide a complete response to any questions received
2 subsequent to the 15-day deadline and up to and
3 including March 14, 2016, the closing date for the
4 hearing record. In addition, any party may direct
5 questions and follow-up to Authority staff at the
6 public hearing. In the event a response cannot be
7 immediately given today, a written response shall be
8 prepared within ten (10) business days of this public
9 hearing and a copy of that written response shall be
10 provided to all contractual water customers, the
11 Division of the Ratepayer Advocate, the Board of Public
12 Utilities and attendees at the meeting requesting the
13 same and the response shall be made a part of the
14 hearing record. Comments received before the close of
15 the New Jersey Register comment period on March 4 will
16 also be entered into the record.

17 Finally, within ten (10) working days
18 after receipt of the answer, contractual water
19 customers, the Division of the Ratepayer Advocate, the
20 Board of Public Utilities and attendees will be
21 permitted to respond in writing to the answers of the
22 staff for the record.

23 After the hearing record is closed and the
24 New Jersey Register comment period expires, a Hearing
25 Officer's report, which shall include findings of fact

1 and specific responses to all issues and questions
2 raised during the public hearing proceedings, will be
3 prepared and submitted to the entire Authority prior to
4 the Authority taking final action on the proposal.

5 Mr. Mai, that concludes the Authority's
6 opening statement.

7 Mr. Mai: Thank you, Ms. Buckley.

8 Ms. Gates, have we received any written or
9 verbal communications for inclusion in the public
10 hearing record?

11 MS. GATES: No, Mr. Chairman, we have not.

12 MR. MAI: Ms. Gates, are there any
13 additional proposed Rule changes not associated with
14 the changes to existing Rates?

15 MS. GATES: No, Mr. Chairman, there are
16 not.

17 MR. MAI: Next on the agenda is Authority
18 staff answers to questions raised prior to today's
19 hearing.

20 Ms. Gates, has the Authority received any
21 questions prior to today's hearing?

22 MS. GATES: No, Mr. Chairman, we have not.

23 MR. MAI: Thank you, Ms. Gates.

24 We are now prepared to enter oral
25 statements, written statements and/or any other

1 supporting evidence by all interested parties into the
2 record.

3 Let the record reflect, that no members of
4 the public are in attendance at this public hearing
5 and, therefore, I have not received any rosters.

6 Let the record reflect, that there are no
7 participants from the public present to ask questions
8 of Authority staff.

9 After the New Jersey Register comment
10 period closes on March 4, 2016 and the hearing record
11 is closed on March 14, 2016, I, as the Hearing Officer
12 will prepare a report of my findings, based solely on
13 the record of the proceedings, which shall include
14 findings of fact and specific responses to all issues
15 and questions raised during these proceedings. My
16 Hearing Officer's report will be submitted to the
17 Authority and presented to the Authority's Board for
18 final action on the proposal. Written comments may be
19 submitted until the end of public comment period on
20 March 14, 2016.

21 I anticipate that the Authority will take
22 final action on these proposed Rates at its regular
23 monthly business meeting on June 6, 2016.

24 This Public Hearing is adjourned.

25 -----

(Whereupon, the matter was concluded.)

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C E R T I F I C A T E

I, INGRID BENNETT, Certified Court

Reporter of the State of New Jersey, do hereby swear
that the foregoing is a true and accurate record of the
testimony taken stenographically by me; and I am
neither attorney nor counsel for nor related to or
employed by any of the parties to the action in which
this matter is taken; and further, that I am not a
relative or employee of any attorney or counsel
employed by the parties hereto, or financially
interested in the action.



INGRID BENNETT
CERTIFIED COURT REPORTER
LICENSE NUMBER: 30X100212500

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<p>\$1,057.40 [1] - 12:18 \$1,137.76 [1] - 12:19 \$1,190.86 [1] - 12:21 \$1,240.96 [1] - 12:22 \$10.00 [1] - 11:25 \$15.00 [2] - 11:21, 11:25 \$2.92 [1] - 11:14 \$24.79 [1] - 12:12 \$25.10 [1] - 12:12 \$33.18 [1] - 11:9 \$432.87 [1] - 9:17 \$46.87 [1] - 9:19 \$6.187 [1] - 10:17 \$63,600,000 [1] - 10:7 \$669.79 [1] - 11:8 \$7,416,000 [1] - 10:11 \$772.99 [1] - 11:13 \$9,505.40 [1] - 10:23 \$90,147.57 [1] - 10:23</p>	<p>2004 [1] - 11:20 2005 [1] - 10:14 2006 [1] - 10:22 2010 [1] - 6:25 2012 [1] - 12:7 2015 [13] - 4:15, 5:18, 5:20, 6:22, 7:8, 7:18, 8:19, 8:21, 10:1, 13:9, 13:11, 14:6, 14:12 2016 [21] - 1:6, 1:11, 3:11, 4:16, 4:22, 4:24, 6:23, 9:18, 11:6, 12:1, 12:16, 12:20, 14:10, 14:17, 14:19, 15:3, 17:10, 17:11, 17:20, 17:23 2017 [6] - 4:13, 6:16, 8:22, 9:16, 12:13, 13:8 2041 [1] - 1:9 21 [3] - 4:14, 5:18, 14:6 23 [1] - 13:11 24 [2] - 5:20, 14:12 25 [2] - 10:18, 12:8</p>	<p>7 [5] - 4:16, 4:22, 4:24, 13:9, 14:19 7.15 [1] - 10:7 7.16 [1] - 10:11 75 [1] - 12:7 7:11-4.1 [1] - 1:5 7:11-4.13 [1] - 12:25 7:11-4.16 [1] - 4:3 7th [1] - 14:9</p>	<p>amounts [1] - 9:6 answer [1] - 15:18 answers [3] - 14:25, 15:21, 16:18 anticipate [1] - 17:21 appeared [1] - 14:17 appropriate [1] - 9:13 Asbury [2] - 5:19, 14:14 assess [1] - 8:11 Assessment [1] - 10:5 ASSESSMENTS [1] - 1:4 assessments [1] - 6:18 Assessments [2] - 3:9, 6:14 associated [3] - 7:7, 11:1, 16:13 AT [1] - 1:7 attendance [1] - 17:4 attended [2] - 4:19, 14:19 attendees [2] - 15:12, 15:20 attorney [2] - 19:7, 19:10 audit [1] - 8:19 audited [1] - 8:17 auditing [1] - 8:11 Auditor's [1] - 8:23 Auditors [1] - 8:15 auditors [1] - 8:18 August [2] - 10:9, 10:14 Authority [26] - 3:2, 4:1, 6:12, 7:24, 8:6, 8:7, 10:14, 10:22, 11:4, 11:19, 11:23, 12:4, 12:5, 12:11, 13:2, 13:25, 14:24, 14:25, 15:5, 16:3, 16:4, 16:17, 16:20, 17:8, 17:17, 17:21 AUTHORITY [1] - 1:1 Authority's [10] - 3:12, 4:8, 5:17, 6:16, 8:8, 9:4, 12:23, 13:10, 13:22, 17:17 Authority's [12] - 3:4, 3:5, 3:7, 6:6, 6:23, 7:16, 8:15, 8:19, 13:6, 14:10, 14:20, 16:5 average [1] - 10:16</p>	<p>Background [5] - 2:10, 13:10, 13:13, 13:16, 13:18 balance [1] - 7:17 base [10] - 7:6, 7:9, 7:20, 7:23, 9:21, 9:23, 9:24, 11:10, 11:16, 12:14 based [4] - 7:6, 7:10, 9:3, 17:12 Basin [3] - 8:2, 9:14, 12:3 Basis [5] - 2:10, 13:9, 13:12, 13:15, 13:18 BECOME [1] - 1:6 behalf [1] - 3:1 BENNETT [3] - 1:21, 19:3, 19:17 Beth [1] - 3:17 BETH [1] - 1:16 Board [4] - 5:16, 15:11, 15:20, 17:17 bond [2] - 7:16, 10:18 bonds [3] - 10:18, 10:21, 12:6 BUCKLEY [5] - 1:17, 2:4, 6:9, 6:11, 13:22 Buckley [3] - 3:16, 6:5, 16:7 budget [2] - 8:1, 9:6 budgeted [1] - 8:22 build [1] - 12:9 Building [1] - 14:11 BUILDING [1] - 1:8 business [3] - 13:8, 15:8, 17:23 BY [2] - 2:4, 6:9</p>
0		A		C
028 [1] - 10:25		<p>A.M [1] - 1:10 Account [1] - 10:19 accountability [1] - 8:1 accurate [1] - 19:5 action [5] - 16:4, 17:18, 17:22, 19:8, 19:12 active [1] - 4:8 actual [3] - 7:10, 8:17, 9:24 addition [1] - 15:4 additional [1] - 16:13 Additionally [1] - 14:12 adjourned [1] - 17:24 adjust [2] - 6:17, 8:16 adjusted [1] - 6:21 adjustment [8] - 4:2, 4:7, 8:20, 13:1, 13:7, 13:23, 14:5, 14:16 ADJUSTMENTS [1] - 1:3 adjustments [4] - 3:8, 4:13, 12:24, 13:4 ADMINISTRATION [2] - 1:8, 1:17 Administration [2] - 3:18, 14:11 administrative [3] - 8:9, 8:13, 8:25 Administrative [2] - 4:3, 12:24 adopted [1] - 4:1 advertised [1] - 5:19 Advocate [4] - 4:5, 5:15, 15:11, 15:19 agenda [1] - 16:17 allocated [2] - 9:2, 9:7 allocation [5] - 8:12, 8:16, 8:21, 8:23, 8:24 allocations [1] - 9:13 amendments [1] -</p>	<p>6:13 amounts [1] - 9:6 answer [1] - 15:18 answers [3] - 14:25, 15:21, 16:18 anticipate [1] - 17:21 appeared [1] - 14:17 appropriate [1] - 9:13 Asbury [2] - 5:19, 14:14 assess [1] - 8:11 Assessment [1] - 10:5 ASSESSMENTS [1] - 1:4 assessments [1] - 6:18 Assessments [2] - 3:9, 6:14 associated [3] - 7:7, 11:1, 16:13 AT [1] - 1:7 attendance [1] - 17:4 attended [2] - 4:19, 14:19 attendees [2] - 15:12, 15:20 attorney [2] - 19:7, 19:10 audit [1] - 8:19 audited [1] - 8:17 auditing [1] - 8:11 Auditor's [1] - 8:23 Auditors [1] - 8:15 auditors [1] - 8:18 August [2] - 10:9, 10:14 Authority [26] - 3:2, 4:1, 6:12, 7:24, 8:6, 8:7, 10:14, 10:22, 11:4, 11:19, 11:23, 12:4, 12:5, 12:11, 13:2, 13:25, 14:24, 14:25, 15:5, 16:3, 16:4, 16:17, 16:20, 17:8, 17:17, 17:21 AUTHORITY [1] - 1:1 Authority's [10] - 3:12, 4:8, 5:17, 6:16, 8:8, 9:4, 12:23, 13:10, 13:22, 17:17 Authority's [12] - 3:4, 3:5, 3:7, 6:6, 6:23, 7:16, 8:15, 8:19, 13:6, 14:10, 14:20, 16:5 average [1] - 10:16</p>	<p>calculated [1] - 10:3 Canal [1] - 3:20 CANAL [1] - 1:19 cannot [1] - 15:6 Capital [1] - 3:5 certification [2] - 5:9, 5:13 Certification [4] - 2:9, 5:21, 5:23, 6:1 Certified [1] - 19:3 CERTIFIED [2] - 1:22, 19:18 Chairman [6] - 3:3, 4:23, 5:12, 16:11, 16:15, 16:22 change [4] - 11:9,</p>
1	3			
<p>1 [12] - 1:6, 3:11, 6:22, 7:8, 9:18, 10:1, 10:6, 11:6, 11:7, 12:16, 12:17, 12:20 10 [2] - 15:8, 15:17 11:00 [1] - 1:10 12.14 [1] - 9:20 12/07/15 [3] - 2:11, 13:16, 13:19 120 [1] - 10:20 13 [1] - 2:11 14 [3] - 15:3, 17:11, 17:20 15 [1] - 14:23 15-day [1] - 15:2 15.008mgd [1] - 11:11 15.723mgd [1] - 11:11 19.443 [2] - 9:23, 12:15 1990 [3] - 10:6, 11:7, 12:17 1992 [1] - 10:13 1997 [1] - 10:9 1998 [1] - 10:9</p>	<p>30X100212500 [2] - 1:22, 19:18</p>			
2	4			
20 [1] - 7:15	<p>4 [6] - 1:11, 4:16, 14:9, 14:17, 15:15, 17:10 4.09 [1] - 7:3 4.17 [1] - 4:3 4.435mgd [1] - 11:16 4.83 [1] - 10:16 45 [1] - 14:4</p>			
	5			
	<p>5 [1] - 2:8 5.93 [1] - 10:8</p>			
	6			
	<p>6 [4] - 2:3, 2:9, 13:4, 17:23 6.24 [1] - 10:12</p>			

11:11, 11:15, 12:4
changes [2] - 16:13, 16:14
charge [1] - 9:8
Charges [2] - 3:8, 6:13
CHARGES [1] - 1:4
Clinton [1] - 8:9
close [3] - 4:4, 8:14, 15:14
closed [2] - 15:23, 17:11
closes [1] - 17:10
closing [1] - 15:3
Code [2] - 4:3, 12:25
comment [4] - 15:15, 15:24, 17:9, 17:19
Comments [1] - 15:14
comments [1] - 17:18
Commissioners [1] - 13:6
commitment [1] - 4:8
Committee [1] - 3:4
Committees [1] - 3:6
communications [1] - 16:9
complete [1] - 15:1
Completion [2] - 10:16, 10:24
completion [2] - 7:12, 10:10
Complex [1] - 5:16
component [5] - 6:17, 9:9, 9:17, 9:21, 12:12
Component [12] - 7:14, 7:19, 9:10, 9:11, 9:12, 10:2, 11:3, 11:7, 11:12, 11:20, 11:24, 12:6
components [1] - 7:22
concluded [1] - 18:1
concludes [1] - 16:5
conducted [2] - 4:18, 14:18
CONFERENCE [1] - 1:9
consists [1] - 9:9
constructed [1] - 8:7
consultant [1] - 9:4
contact [1] - 4:4
continues [1] - 7:12
contract [4] - 7:8, 9:23, 10:25, 11:2
contracts [3] - 9:25, 11:7, 12:17
Contracts [2] - 11:13, 12:20
contractual [5] - 4:17, 13:23, 14:7, 15:10, 15:18

Contractual [1] - 5:17
contributed [1] - 11:4
CONTROLLER [1] - 1:17
Controller [1] - 3:16
copy [2] - 8:23, 15:9
cost [1] - 8:1
costs [6] - 7:4, 8:13, 8:25, 9:2, 9:9, 9:15
counsel [2] - 19:7, 19:10
coupon [1] - 10:16
Court [1] - 19:3
COURT [1] - 19:18
cover [4] - 6:22, 9:9, 10:3, 10:6
coverage [1] - 10:20
credit [1] - 8:21
current [5] - 6:23, 7:2, 8:15, 10:15, 10:23
customer [1] - 11:5
customers [8] - 4:5, 4:18, 11:10, 11:16, 13:24, 14:7, 15:10, 15:19

D

date [2] - 13:5, 15:3
dated [3] - 2:10, 13:16, 13:19
days [4] - 14:4, 14:23, 15:8, 15:17
deadline [1] - 15:2
debit [1] - 8:21
debt [9] - 6:18, 7:15, 10:4, 10:6, 10:20, 11:1, 11:12, 11:17, 12:6
Debt [12] - 3:9, 6:13, 7:22, 9:10, 9:11, 10:2, 10:4, 10:19, 11:3, 11:6, 11:12, 12:5
DEBT [1] - 1:4
December [7] - 4:14, 5:18, 5:20, 13:9, 13:11, 14:6, 14:12
decrease [2] - 9:22, 11:10
dedicating [1] - 11:21
Delaware [1] - 3:20
DELAWARE [1] - 1:18
Delayed [3] - 11:13, 11:16, 12:20
delayed [1] - 10:24
demonstrate [1] - 4:7
DESCRIPTION [1] - 2:6

Despite [1] - 7:18
developed [1] - 8:11
dialogue [1] - 4:9
direct [1] - 15:4
Director [3] - 3:15, 3:17, 3:19
DIRECTOR [3] - 1:16, 1:16, 1:18
distinct [1] - 7:25
Division [4] - 4:5, 5:14, 15:11, 15:19
Document [4] - 2:10, 13:13, 13:16, 13:19
drop [1] - 12:14
drops [1] - 7:9
due [2] - 10:3, 10:9
during [2] - 16:2, 17:15

E

effect [1] - 3:11
EFFECTIVE [1] - 1:6
effective [6] - 6:21, 7:8, 10:5, 11:7, 12:17, 13:5
employed [2] - 19:8, 19:11
employee [1] - 19:10
end [1] - 17:19
enter [3] - 4:24, 5:21, 16:24
entered [2] - 13:13, 15:16
entire [1] - 16:3
entities [1] - 13:4
Environmental [1] - 12:9
equitably [1] - 8:10
escrow [1] - 11:4
established [3] - 10:5, 11:19, 12:5
estimate [1] - 7:6
event [1] - 15:6
evidence [7] - 2:8, 2:9, 2:11, 5:6, 6:2, 13:20, 17:1
excess [1] - 7:15
EXECUTIVE [1] - 1:16
Executive [1] - 3:14
Exhibit [6] - 4:25, 5:2, 5:22, 5:24, 13:14, 13:16
existing [1] - 16:14
expected [1] - 9:22
expenditures [1] - 8:17
expense [2] - 7:10, 7:21

expenses [2] - 6:22, 6:24
expires [1] - 15:24
explanation [2] - 13:3, 14:2
extensive [1] - 4:1
extent [1] - 7:15

F

fact [2] - 15:25, 17:14
factors [1] - 8:16
FEBRUARY [1] - 1:11
February [1] - 14:9
final [4] - 13:9, 16:4, 17:18, 17:22
Finally [1] - 15:17
Finance [2] - 3:4, 3:17
FINANCE [1] - 1:16
financially [1] - 19:11
Financing [1] - 12:9
findings [4] - 8:15, 15:25, 17:12, 17:14
firm [1] - 8:11
Fiscal [15] - 4:13, 6:16, 6:23, 6:25, 8:19, 8:21, 8:22, 9:16, 10:8, 10:12, 11:15, 11:20, 12:1, 12:13, 13:8
fiscal [4] - 7:2, 8:14, 8:17, 9:20
five [1] - 14:4
flat [1] - 7:2
follow [1] - 15:5
follow-up [1] - 15:5
FOR [1] - 1:4
foregoing [1] - 19:5
formal [1] - 14:2
formally [1] - 13:6
forty [1] - 14:4
forty-five [1] - 14:4
forum [1] - 4:10
FROM [1] - 1:4
fully [1] - 10:19
Fund [1] - 11:20
funded [1] - 10:19
funds [1] - 11:3
FY2012 [1] - 12:6
FY2015 [2] - 7:1, 7:17
FY2017 [4] - 7:9, 7:13, 11:18, 12:4

G

gallon [1] - 11:14
gallons [18] - 9:18, 9:19, 9:22, 9:24,

10:25, 11:8, 11:14, 11:21, 11:25, 12:1, 12:12, 12:13, 12:15, 12:18, 12:19, 12:21, 12:22
Gates [8] - 3:17, 4:21, 5:9, 6:4, 16:8, 16:12, 16:20, 16:23
GATES [6] - 1:16, 4:23, 5:12, 16:11, 16:15, 16:22
general [3] - 8:9, 8:13, 8:24
General [1] - 6:20
given [1] - 15:7

H

headquarters [2] - 8:8, 8:12
headquarters' [1] - 8:24
HEARING [1] - 1:12
hearing [24] - 3:7, 4:17, 4:19, 4:22, 4:24, 5:10, 5:13, 14:1, 14:3, 14:16, 14:18, 14:22, 14:23, 15:4, 15:6, 15:9, 15:14, 15:23, 16:2, 16:10, 16:19, 16:21, 17:4, 17:10
Hearing [10] - 2:7, 3:6, 5:2, 5:4, 14:13, 15:24, 17:11, 17:16, 17:24
hearings [1] - 14:9
Hearing' [1] - 14:6
held [2] - 7:2, 11:4
HELD [1] - 1:7
Henry [1] - 3:14
HENRY [1] - 1:16
hereby [1] - 19:4
hereto [1] - 19:11
HOSPITAL [1] - 1:9
House [1] - 5:16

I

immediately [1] - 15:7
IN [1] - 1:2
INC [1] - 1:21
include [2] - 15:25, 17:13
included [1] - 8:25
includes [1] - 9:5
including [1] - 15:3
inclusion [2] - 14:22, 16:9

increase [9] - 7:3, 7:20, 9:19, 11:8, 11:14, 11:17, 12:13, 12:18, 12:21
increases [1] - 7:21
increasing [2] - 7:22, 12:11
Independent [1] - 8:18
indicate [1] - 9:16
information [1] - 8:20
informing [1] - 14:8
Infrastructure [1] - 12:9
INGRID [3] - 1:21, 19:3, 19:17
initial [2] - 10:7, 11:3
Initial [1] - 11:10
input [2] - 4:9, 4:11
Insurance [2] - 3:5, 9:2
insurance [1] - 9:6
Intake [1] - 12:10
Interest [4] - 10:7, 10:11, 12:7, 12:8
interested [10] - 4:6, 4:10, 4:14, 4:18, 5:18, 13:24, 14:7, 14:21, 17:1, 19:12
interim [1] - 10:10
introduce [1] - 3:13
issue [1] - 14:17
issued [2] - 10:22, 12:6
issues [2] - 16:1, 17:14
items [1] - 7:2

J

January [7] - 4:16, 4:22, 4:24, 14:9, 14:17, 14:19
Jersey [13] - 3:1, 3:4, 4:2, 4:15, 6:12, 7:24, 12:8, 12:24, 14:17, 15:15, 15:24, 17:9, 19:4
JERSEY [1] - 1:1
JOHN [1] - 1:21
July [12] - 3:11, 6:22, 7:8, 9:18, 10:1, 10:6, 10:22, 11:6, 11:7, 12:16, 12:17, 12:20
JULY [1] - 1:6
June [1] - 17:23

L

large [1] - 7:12
last [1] - 6:21
leading [1] - 9:23
least [1] - 13:4
Ledger [2] - 5:19, 14:15
LICENSE [2] - 1:22, 19:18
life [1] - 10:21
loan [2] - 10:7, 10:10
Loan [3] - 10:15, 10:23, 10:24
located [1] - 8:8
loss [2] - 7:6, 7:23
losses [1] - 7:21
LOU [1] - 1:12
Lou [1] - 3:3

M

MAI [10] - 1:12, 3:1, 5:1, 5:8, 5:23, 6:4, 13:15, 16:12, 16:17, 16:23
Mai [4] - 3:3, 13:12, 16:5, 16:7
mailed [3] - 4:13, 5:14, 14:6
mailing [1] - 5:10
maintaining [4] - 4:8, 5:15, 7:25, 9:10
maintenance [1] - 6:18
Maintenance [5] - 6:21, 7:14, 7:19, 9:17, 9:21
management [1] - 9:4
managing [1] - 7:25
MANASQUAN [3] - 1:5, 1:8, 1:18
Manasquan [8] - 3:10, 3:20, 6:15, 6:24, 8:3, 11:23, 12:3, 14:10
March [5] - 15:3, 15:15, 17:10, 17:11, 17:20
mark [3] - 5:1, 5:23, 13:15
marked [6] - 2:8, 2:9, 2:11, 5:5, 6:2, 13:19
market [1] - 12:8
matter [2] - 18:1, 19:9
MCKEON [1] - 1:18
McKeon [1] - 3:19
media [1] - 5:15
meet [1] - 13:25

meeting [12] - 2:7, 4:17, 4:20, 4:22, 5:2, 5:5, 13:9, 14:1, 14:3, 14:24, 15:12, 17:23
member [1] - 3:5
members [4] - 3:12, 4:19, 14:19, 17:3
methodology [1] - 8:12
million [20] - 9:17, 9:19, 9:22, 9:24, 10:17, 10:25, 11:8, 11:14, 11:21, 11:25, 12:12, 12:13, 12:14, 12:15, 12:18, 12:19, 12:21, 12:22
minor [2] - 11:11, 11:17
minutes [5] - 2:7, 4:21, 4:25, 5:2, 5:5
miscellaneous [1] - 7:1
Monmouth [1] - 8:5
monthly [2] - 13:8, 17:23
months [1] - 13:4
morning [1] - 3:3
Morning [1] - 6:11
MR [8] - 3:1, 5:1, 5:8, 5:23, 6:4, 16:12, 16:17, 16:23
MS [8] - 2:4, 4:23, 5:12, 6:9, 13:22, 16:11, 16:15, 16:22
Municipal [1] - 8:6
must [3] - 10:20, 14:3, 14:24

N

N.J [1] - 1:10
N.J.A.C [2] - 1:5, 4:3, 12:25
name [2] - 3:3, 3:24
necessary [1] - 8:20
need [2] - 8:16, 13:3
needs [1] - 12:3
net [1] - 10:17
netted [1] - 8:22
New [13] - 3:1, 3:4, 4:2, 4:15, 6:12, 7:24, 12:8, 12:24, 14:17, 15:15, 15:24, 17:9, 19:4
NEW [1] - 1:1
news [1] - 5:15
Next [1] - 16:17
NJEIFF [2] - 9:11, 12:5

NO [1] - 1:22
Notes [4] - 10:15, 10:16, 10:23, 10:24
notes [1] - 11:1
notice [4] - 4:12, 13:2, 14:4, 14:12
Notice [2] - 5:13, 14:15
notification [1] - 5:10
NUMBER [2] - 2:6, 19:18

O

OF [5] - 1:3, 1:4, 1:4, 1:16, 1:18
office [1] - 5:16
Officer [2] - 3:7, 17:11
OFFICER [1] - 1:12
Officer's [1] - 17:16
Officer's [1] - 15:25
Official [1] - 4:12
official [2] - 13:2, 14:4
offset [1] - 7:4
one [2] - 3:22, 3:24
OPENING [2] - 2:3, 6:8
opening [2] - 6:6, 16:6
operating [5] - 6:22, 7:25, 8:13, 9:9, 9:15
Operational [1] - 6:24
Operations [6] - 3:21, 6:20, 7:14, 7:19, 9:16, 9:21
OPERATIONS [1] - 1:19
operations [2] - 6:17, 6:18
opportunity [1] - 13:25
oral [1] - 16:24
order [2] - 8:10, 14:1
original [1] - 7:6
outlining [1] - 13:3
outside [1] - 8:11
outstanding [1] - 10:4
overall [1] - 7:3
overdraft [1] - 7:17
own [1] - 8:1
owned [1] - 8:7

P

P-1 [4] - 2:7, 4:25, 5:2, 5:4
P-2 [4] - 2:9, 5:22, 5:24, 6:1
package [2] - 9:1, 9:5

PAGE [2] - 2:2, 2:6
paid [2] - 11:2, 11:17
Park [2] - 5:19, 14:14
part [4] - 7:20, 7:21, 11:2, 15:13
participants [1] - 17:7
parties [11] - 4:6, 4:10, 4:14, 4:18, 5:18, 13:24, 14:8, 14:21, 17:1, 19:8, 19:11
party [1] - 15:4
PATTERSON [1] - 1:16
Patterson [1] - 3:14
pAUL [1] - 1:18
Paul [1] - 3:19
pay [1] - 12:6
payment [1] - 10:10
payments [3] - 10:3, 10:6, 10:9
per [19] - 9:17, 9:19, 9:22, 9:24, 10:25, 11:8, 11:13, 11:14, 11:21, 11:25, 12:12, 12:15, 12:18, 12:19, 12:21, 12:22
percent [11] - 7:3, 7:15, 9:20, 10:8, 10:11, 10:12, 10:16, 10:20, 12:7, 12:8
performed [1] - 8:18
period [4] - 15:15, 15:24, 17:10, 17:19
permitted [1] - 15:21
plant [1] - 8:6
Plant [5] - 7:5, 7:11, 7:13, 8:4, 9:14
portion [1] - 10:15
portions [1] - 9:6
posted [1] - 13:10
pre [7] - 4:17, 4:19, 4:22, 4:24, 14:1, 14:3, 14:8
Pre [5] - 2:7, 5:1, 5:4, 14:13, 14:18
pre-public [7] - 4:17, 4:19, 4:22, 4:24, 14:1, 14:3, 14:8
Pre-Public [5] - 2:7, 5:1, 5:4, 14:13, 14:18
prepare [1] - 17:12
prepared [3] - 15:8, 16:3, 16:24
present [6] - 3:13, 3:22, 5:11, 6:5, 10:17, 17:7
presented [2] - 14:1, 17:17
press [1] - 5:15

Press [2] - 5:19, 14:14
print [1] - 3:24
procedure [1] - 12:23
procedures [4] - 4:2, 4:7, 13:1, 13:23
proceedings [3] - 16:2, 17:13, 17:15
proceeds [1] - 10:18
program [1] - 12:3
Program [1] - 12:9
projected [1] - 9:15
Projects [1] - 3:6
projects [1] - 7:13
property [1] - 8:7
proposal [6] - 4:6, 8:25, 9:5, 14:2, 16:4, 17:18
proposed [14] - 3:8, 4:12, 6:12, 7:20, 9:6, 12:16, 12:19, 13:3, 13:5, 13:7, 14:5, 14:15, 16:13, 17:22
PROPOSED [1] - 1:3
proposes [1] - 12:11
protect [1] - 11:21
Protection [3] - 9:11, 11:20, 11:24
provide [6] - 4:4, 8:15, 12:2, 13:23, 14:24, 15:1
provided [3] - 8:20, 13:24, 15:10
provides [1] - 8:9
providing [1] - 4:10
Public [11] - 2:7, 5:1, 5:4, 5:16, 14:5, 14:13, 14:18, 15:11, 15:20, 17:24
public [24] - 3:7, 4:9, 4:17, 4:19, 4:22, 4:24, 5:10, 5:13, 14:1, 14:3, 14:8, 14:16, 14:19, 14:23, 15:6, 15:8, 16:2, 16:9, 17:4, 17:7, 17:19
publication [2] - 5:9, 13:7
published [2] - 4:15, 14:14
Pumps [1] - 12:10
purchase [5] - 7:7, 9:25, 10:25, 11:2, 11:5
Purchase [2] - 11:13, 12:20
Purchasers [1] - 5:17
purpose [1] - 11:5

Q

quality [1] - 11:22
quantity [1] - 11:22
questions [9] - 14:21, 14:25, 15:1, 15:5, 16:1, 16:18, 16:21, 17:7, 17:15

R

raise [1] - 6:15
raised [4] - 7:15, 16:2, 16:18, 17:15
Raritan [3] - 3:20, 8:2, 9:14
RARTAN [1] - 1:18
Rate [1] - 6:20
rate [26] - 4:1, 4:7, 4:12, 6:17, 7:2, 7:4, 7:19, 7:22, 8:25, 9:4, 9:17, 10:3, 10:7, 10:11, 11:3, 12:1, 12:11, 12:16, 12:19, 12:23, 13:1, 13:3, 13:7, 13:22, 14:5, 14:16
Ratepayer [4] - 4:5, 5:15, 15:11, 15:19
RATES [1] - 1:3
Rates [5] - 3:8, 6:13, 6:19, 16:14, 17:22
RE [1] - 1:2
receipt [1] - 15:18
received [14] - 2:8, 2:9, 2:11, 5:5, 6:2, 13:19, 15:1, 15:14, 16:8, 16:20, 17:5
recommendations [1] - 9:3
recommending [1] - 12:4
record [17] - 4:25, 5:11, 5:21, 13:13, 14:22, 15:4, 15:14, 15:16, 15:22, 15:23, 16:10, 17:2, 17:3, 17:6, 17:10, 17:13, 19:5
reduced [3] - 10:8, 10:12, 11:24
reflect [2] - 17:3, 17:6
refunded [1] - 10:14
Register [5] - 4:15, 14:18, 15:15, 15:24, 17:9
regular [2] - 13:8, 17:22

regulations [1] - 14:20
Regulations" [1] - 13:1
rehabilitation [1] - 7:13
related [1] - 19:7
relative [1] - 19:10
relatively [1] - 6:25
remain [1] - 10:20
remained [1] - 6:25
renewal [2] - 9:23, 9:25
renewals [2] - 7:8, 7:10
report [4] - 8:23, 15:25, 17:12, 17:16
REPORTER [2] - 1:22, 19:18
Reporter [1] - 19:4
represents [1] - 9:19
request [1] - 13:12
requested [1] - 3:22
requesting [1] - 15:12
require [1] - 13:2
required [2] - 4:16, 9:18
requirement [1] - 7:16
Reserve [1] - 10:19
RESERVOIR [2] - 1:5, 1:8
Reservoir [7] - 6:15, 6:24, 7:5, 7:11, 8:3, 11:23, 14:11
resolutions [1] - 7:16
respectively [2] - 10:24, 14:10
respond [1] - 15:21
response [5] - 15:1, 15:6, 15:7, 15:9, 15:13
responses [2] - 16:1, 17:14
result [2] - 7:12, 12:14
results [1] - 11:9
revenue [4] - 6:16, 7:1, 8:2, 12:2
revised [1] - 12:1
risk [1] - 9:4
River [1] - 12:3
ROAD [1] - 1:9
ROOM [1] - 1:9
roster [1] - 3:23
rosters [2] - 3:24, 17:5
Rule [1] - 16:13

S

S-1 [4] - 2:10, 13:14, 13:16, 13:18

SALE [1] - 1:4
Sale [1] - 6:14
sales [11] - 7:6, 7:9, 7:17, 7:20, 7:23, 9:21, 9:23, 9:24, 11:10, 11:16, 12:14
savings [1] - 10:17
Schedule [4] - 3:8, 6:13, 6:19, 6:20
SCHEDULE [1] - 1:3
schedule [2] - 11:12, 14:16
scheduled [2] - 14:3, 14:9
Screens [1] - 12:11
Secretary [1] - 5:14
sent [1] - 14:5
Service [10] - 3:9, 6:14, 7:22, 9:10, 10:2, 10:5, 10:19, 11:3, 11:6, 11:12
service [9] - 6:18, 7:15, 8:10, 10:6, 10:20, 11:1, 11:12, 11:17, 12:6
SERVICE [1] - 1:4
servicing [1] - 3:6
Several [1] - 3:12
shall [5] - 15:7, 15:9, 15:13, 15:25, 17:13
shift [1] - 7:10
shifting [1] - 7:4
SHORTHAND [1] - 1:22
showing [1] - 9:5
sign [1] - 3:22
six [1] - 13:4
solely [2] - 7:23, 17:12
Source [3] - 9:11, 11:19, 11:24
source [1] - 12:2
Southeast [1] - 8:5
specific [2] - 16:1, 17:14
stable [1] - 6:25
staff [6] - 3:12, 8:8, 13:25, 14:24, 15:5, 15:22, 16:18, 17:8
Star [2] - 5:19, 14:15
starting [1] - 9:18
State [6] - 4:5, 5:14, 5:16, 10:15, 10:23, 19:4
state [1] - 14:20
STATEMENT [2] - 2:3, 6:8
Statement [1] - 13:10
statement [3] - 3:23, 6:6, 16:6
statements [2] - 16:25

stenographically [1] - 19:6
stream [1] - 8:2
structure [1] - 12:10
submit [2] - 3:25, 14:21
submitted [4] - 14:22, 16:3, 17:16, 17:19
subsequent [1] - 15:2
subsequently [1] - 10:8
subsidies [1] - 7:18
subsidized [1] - 7:14
sufficient [2] - 6:16, 12:2
summary [1] - 9:5
Summer [1] - 7:18
SUPPLY [2] - 1:1, 1:5
Supply [8] - 3:2, 3:4, 3:10, 6:12, 6:15, 7:24, 8:3, 11:23
supply [3] - 3:9, 8:4, 9:8
support [1] - 8:9
supporting [1] - 17:1
Susan [1] - 3:16
SUSAN [1] - 1:17
swear [1] - 19:4
system [4] - 8:11, 8:14, 9:1, 9:3
SYSTEM [3] - 1:5, 1:8, 1:18
System [15] - 3:10, 3:20, 6:15, 6:23, 6:24, 7:5, 7:11, 8:2, 8:3, 8:5, 9:10, 9:14, 9:15, 10:4, 11:23
systems [4] - 8:1, 8:4, 8:10, 9:7

T

table [1] - 9:5
ten [2] - 15:8, 15:17
term [2] - 7:7, 10:18
testimony [1] - 19:6
THE [3] - 1:3, 1:4
thereafter [1] - 12:25
therefore [1] - 17:5
three [3] - 7:25, 8:10, 9:7
TO [2] - 1:3, 1:6
today [3] - 3:13, 3:24, 15:7
today's [1] - 16:18
today's [2] - 14:24, 16:21
total [4] - 9:8, 10:2, 12:16, 12:19

<p>TRAINOR [1] - 1:21 Transmission [2] - 8:5, 9:15 Traveling [1] - 12:10 Treatment [5] - 7:5, 7:11, 7:13, 8:4, 9:14 Trenton [2] - 5:20, 14:15 true [1] - 19:5 twelve [1] - 9:25</p>	Y
U	<p>Year [15] - 4:13, 6:16, 6:23, 6:25, 8:19, 8:21, 8:22, 9:16, 10:9, 10:12, 11:15, 11:20, 12:1, 12:13, 13:8 year [8] - 7:3, 8:14, 8:17, 9:20, 10:3, 11:9 yearend [1] - 7:17 years [1] - 10:18</p>
<p>untreated [1] - 8:3 up [3] - 9:23, 15:2, 15:5 users [1] - 4:14 Utilities [4] - 5:17, 8:6, 15:12, 15:20</p>	Z
V	<p>zero [1] - 12:7</p>
<p>value [1] - 10:17 various [1] - 13:4 verbal [1] - 16:9 volumes [1] - 7:7</p>	<p>“</p>
W	<p>“Notice [1] - 14:5</p>
<p>WALL [1] - 1:10 Water [19] - 3:1, 3:4, 3:10, 5:17, 6:12, 6:14, 6:15, 7:5, 7:24, 8:3, 8:4, 9:11, 9:14, 11:13, 11:19, 11:23, 11:24, 12:10, 12:20 water [16] - 3:9, 4:4, 4:14, 4:17, 7:7, 8:4, 9:8, 9:25, 10:24, 11:2, 11:5, 11:10, 13:24, 14:7, 15:10, 15:18 WATER [3] - 1:1, 1:4, 1:5 waters [1] - 11:22 Watershed [1] - 12:3 Website [1] - 13:11 welcome [1] - 3:2 welcoming [1] - 4:9 WITNESS [1] - 2:2 writing [1] - 15:21 written [5] - 14:21, 15:7, 15:9, 16:8, 16:25 Written [1] - 17:18</p>	

Correspondence and Testimony

Exhibit G

There are no items of correspondence or testimony received during the public comment period for the FY2017 rate making process.

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

MEMORANDUM

TO: Mr. Louis C. Mai
Hearing Officer

FROM: Henry S. 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. 7:11-4.1, et seq.)

Please be advised that no additional comments or inquiries on the Manasquan Reservoir System FY2017 rate proposal were received by the Authority subsequent to the public hearing of February 4, 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 four recommended revisions to the original proposed rate package as presented at the Authority meeting held on December 7, 2015, and adopted by resolution 2210, 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. There will be a reduction in the Initial Debt Service Cost Component from \$669.79 as proposed to \$636.61 per million gallons and a reduction in the Delayed Water Purchasers Debt Service Cost Component from \$772.99 as proposed to \$770.07 per million gallons.

The total rate (O&M plus Debt Service, NJEIFP Debt Component, and Source Water Protection Component) of \$1,104.58 per million gallons will apply to all Initial water purchase customers in FY2017 (starting July 1, 2016) and results in an increase of \$47.18 per million gallons over FY2016 or 4.46 percent.

The total rate (O&M plus Debt Service, NJEIFP Debt Component, and Source Water Protection Component) of \$1,238.04 per million gallons will apply to all Delayed water purchase customers in FY2017 (starting July 1, 2016) and results in an increase of \$47.18 per million gallons over FY2016 or 3.96 percent.

EXHIBIT A

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM
FISCAL YEAR 2017 (7/1/16-6/30/17)

REVISIONS TO ORIGINAL RATE PACKAGE

1.	Original Insurance Expense	\$279,818
	Revised Insurance Expense	\$227,527
2.	Original Unanticipated Revenue	\$1,047,600
	Revised Unanticipated Revenue	\$995,300
3.	Original Initial Debt Service	\$3,207,552
	Revised Initial Debt Service	\$2,906,105
4.	Original Delayed Water Purchase Debt Service	\$1,046,652
	Revised Delayed Water Purchase Debt Service	\$1,038,815

PART II – DETAILED SUPPORTING INFORMATION

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Table 1 - Summary Of Proposed Fiscal Year 2017 Adjustments

BASED ON PRESENT USAGE

The rates, charges and debt service assessments listed below shall be paid for raw water allocated by contract from the Manasquan Reservoir System for the **base contracts effective as of July 1, 2015 (14.980mgd), and Shorelands (.028mgd) delayed water contract effective July 1, 2006:**

I. July 1, 2016 to June 30, 2017

Rate Component	Current	Original Proposal 12/07/15	Difference	Recommended 06/06/16	Percentage Increase (Decrease)
Operations & Maintenance Expense Component	\$386.00	\$432.87	↑ \$46.87	\$432.87	12.14%
Source Water Protection Fund Component	\$10.00	\$10.00	→ \$0.00	\$10.00	0.00%
Debt Service Cost Component	\$636.61	\$669.79	↑ \$33.18	\$636.61	0.00%
NJEIFP Debt Component	\$24.79	\$25.10	↑ \$0.31	\$25.10	1.24%
Total Rate	\$1,057.40/mg	\$1,137.76/mg	↑ \$80.36	\$1,104.58/mg	4.46%

The rates, charges and debt service assessments listed below shall be paid for raw water allocated by contract from the Manasquan Reservoir System for all **New Jersey American Water delayed water purchase contracts effective: July 1, 2001 (1mgd), October 1, 2002 (1.935mgd), January 1, 2005 (1.500mgd):**

II. July 1, 2016 to June 30, 2017

Rate Component	Current	Original Proposal 12/07/15	Difference	Recommended 06/06/16	Percentage Increase (Decrease)
Operations & Maintenance Expense Component	\$386.00	\$432.87	↑ \$46.87	\$432.87	12.14%
Source Water Protection Fund Component	\$10.00	\$10.00	→ \$0.00	\$10.00	0.00%
Debt Service Cost Component	\$770.07	\$772.99	↑ \$2.92	\$770.07	0.00%
NJEIFP Debt Component	\$24.79	\$25.10	↑ \$0.31	\$25.10	1.24%
Total Rate	\$1,190.86/mg	\$1,240.96/mg	↑ \$50.10	\$1,238.04/mg	3.96%

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Table 2 - Rate History of Water Charges per Million Gallons of Raw Water - Initial
FY1997-FY2017

Initial Water Purchaser 14.980 mgd July 1, 2015
Shorelands .028 mgd July 1, 2006

<u>Effective Date</u>	<u>O&M Charge</u>	<u>Source Water Protection</u>	<u>Debt Repayment 2/1/91-8/01/20</u>	<u>NJEIFP Debt Component</u>	<u>Total Charge per MG</u>	<u>Percent Increase (Decrease)</u>
July 1, 1996	316.58		748.57		\$1,065.15	-3.65%
July 1, 1997	284.09		654.83		\$938.92	-11.85%
July 1, 1998	263.56		569.36		\$832.92	-11.29%
July 1, 1999	114.13		581.18		\$695.31	-16.52%
July 1, 2000	145.81		583		\$728.81	4.82%
July 1, 2001	212.29		585.63		\$797.92	9.48%
July 1, 2002	212.35		582.62		\$794.97	-0.37%
July 1, 2003	201.14	15	578.83		\$794.97	0.00%
July 1, 2004	321.69	15	584.95		\$921.64	15.93%
July 1, 2005	295.41	15	584.6		\$895.01	-2.89%
July 1, 2006	295.41	15	522.86		\$833.27	-6.90%
July 1, 2007	302.52	15	528.54		\$846.06	1.53%
July 1, 2008	302.52	15	566.59		\$884.11	4.50%
July 1, 2009	396.79	15	568.26		\$980.05	10.85%
July 1, 2010	396.79	15	568.69		\$980.48	0.04%
July 1, 2011	347.39	15	618.09	35.42	\$1,015.90	3.61%
July 1, 2012	345.95	15	619.53	35.42	\$1,015.90	0.00%
July 1, 2013	356.61	15	619.87	24.42	\$1,015.90	0.00%
July 1, 2014	356.61	15	619.87	24.42	\$1,015.90	0.00%
July 1, 2015	386.00	10.00	636.61	24.79	\$1,057.40	4.09%
July 1, 2016	432.87	10.00	636.61	25.10	\$1,104.58	4.46%

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Table 3 - Rate History of Water Charges per Million Gallons of Raw Water - Delayed
FY2002-FY2017

Delayed Water Purchaser NJ-American 1 mgd July 1, 2001
1.935 mgd October 1, 2002
1.500 mgd January 1, 2005

Effective Date	O&M Charge	Source Water Protection	Debt Repayment <u>2/1/02-8/01/31</u>	NJEIFP Debt Component	Total Charge per MG	Percent Increase (Decrease)
July 1, 2001	199.88		835.62		\$1,035.50	
July 1, 2002	212.35		835.61		\$1,047.96	1.20%
July 1, 2003	201.14	15.00	849.31		\$1,065.45	1.67%
July 1, 2004	321.69	15.00	849.31		\$1,186.00	11.31%
July 1, 2005	295.41	15.00	853.85		\$1,164.26	-1.83%
July 1, 2006	295.41	15.00	763.61		\$1,074.02	-7.75%
July 1, 2007	302.52	15.00	764.44		\$1,081.96	0.74%
July 1, 2008	302.52	15.00	762.28		\$1,079.80	-0.20%
July 1, 2009	396.79	15.00	763.24		\$1,175.03	8.82%
July 1, 2010	396.79	15.00	756.19		\$1,167.98	-0.60%
July 1, 2011	347.39	15.00	770.90	35.42	\$1,168.71	0.06%
July 1, 2012	345.95	15.00	772.12	35.42	\$1,168.49	-0.02%
July 1, 2013	356.61	15.00	772.46	24.42	\$1,168.49	0.00%
July 1, 2014	356.61	15.00	772.46	24.42	\$1,168.49	0.00%
July 1, 2015	386.00	10.00	770.07	24.79	\$1,190.86	1.91%
July 1, 2016	432.87	10.00	770.07	25.10	\$1,238.04	3.96%

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule of Events

(N.J.A.C. 7:11-4.1 et.seq.)
To become effective July 1, 2016

2015

- SEPTEMBER 18 Advise Water Users of informal meeting.
- NOVEMBER 5 Informal meeting with Water Users – 11:00 AM.
- DECEMBER 7 Board reviews and approves proposed Rates.
- 17 Mail Official Notice to water customers, Rate Payer Advocate, interested parties and advertise in newspapers.

2016

- JANUARY 4 Publication in the New Jersey Register.
- 7 Pre-Public Hearing – 11:00 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 4 Public Hearing Meeting. (SR Administration Building) – 11:00 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.

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Proposed Fiscal Year 2017 Budget Summary

(07/01/16-06/30/17)

	ADOPTED F/Y2016 <u>Reservoir Budget</u>	PROPOSED F/Y2017 <u>Reservoir Budget</u>
Proposed Operating Expense Budget (Schedule 1)	\$ 2,619,460	\$ 2,677,270
Allocation of Headquarters General & Administrative Expenses to the Manasquan Reservoir System (Schedule 13)	<u>\$ 640,000</u>	<u>\$ 640,000</u>
Proposed Total Expense Budget	\$ 3,259,460	\$ 3,317,270
Proposed Capital Equipment Budget (Schedule 14)	\$ 96,100	\$ 71,600
Contribution to Reserve Funds		
- Sediment Reserve	\$ 10,000	\$ 10,000
- Formal Dam Inspection Reserve	\$ 5,000	\$ 5,000
- Renewal & Replacement Fund	\$ 120,000	\$ 120,000
- High Voltage Testing Reserve	\$ 15,000	\$ 15,000
- Other Post Employment Benefits Reserve	\$ -	\$ 35,000
- Supplemental Renewal & Replacement	\$ -	\$ 350,000
Adjustment for F/Y15 Salary and Fringe Expenses to be paid (from)/to WTP/TS Account (Schedule 15)	\$ -	\$ 69,578
Adjustment for F/Y14 Salary and Fringe Expenses to be paid (from)/to WTP/TS Account	<u>\$ (51,292)</u>	
Total Budget Requirements	<u>\$ 3,454,268</u>	<u>\$ 3,993,448</u>
Interest Earnings on Funds (Except Renewal and Replacement and Depreciation Reserve Fund) (Schedule 16)	\$ (11,200)	\$ (11,200)
Unanticipated Revenue (Schedule 17)	<u>\$ (640,000)</u>	<u>\$ (995,300)</u>
Total Miscellaneous Revenue & Interest Income	<u>\$ (651,200)</u>	<u>\$ (1,006,500)</u>
Net Amount to be paid for O & M Component	<u>\$ 2,803,068</u>	<u>\$ 2,986,948</u>

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 1 - Total Operations & Maintenance Budget

Fiscal Year 2017

	F/Y2015 Reservoir Actual	F/Y2016 Reservoir Adopted	F/Y2017 Reservoir Proposed
Salaries & Fringe Benefits (Schedule 2)	\$1,317,662	\$1,432,000	\$1,556,900
O & M Direct Expense (Schedule 3)	902,749	1,072,500	1,018,478
G&A Expenses (Schedule 5)	<u>109,267</u>	<u>114,960</u>	<u>101,890</u>
Total Operations & Maintenance Budget	<u>\$2,329,678</u>	<u>\$2,619,460</u>	<u>\$2,677,268</u>
Estimate		<u>\$2,619,460</u>	<u>\$2,677,270</u>

Summary of O & M Expenses for Reservoir and Treatment Plant/Transmission System

	F/Y2015 Actual		F/Y2016 Adopted		F/Y2017 Proposed	
	<u>Reservoir</u>	<u>WTP/TS</u>	<u>Reservoir</u>	<u>WTP/TS</u>	<u>Reservoir</u>	<u>WTP/TS</u>
Salaries/Fringe	\$1,317,662	\$1,347,486	\$1,432,000	\$1,604,350	\$1,556,900	\$1,602,011
O & M Direct Expense	902,749	878,791	1,072,500	1,094,200	1,018,478	1,059,546
G & A Expense	<u>109,267</u>	<u>80,008</u>	<u>114,960</u>	<u>85,540</u>	<u>101,890</u>	<u>87,360</u>
Total	\$2,329,678	\$2,306,285	\$2,619,460	\$2,784,090	\$2,677,268	\$2,748,917

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 2 - Labor Projection
Fiscal Year 2017 (7/01/16-6/30/17)

TITLES	RANGE	SALARY	FRINGE BENEFITS	OVERTIME	CLOTHING ALLOWANCE	SHIFT DIFFERENTIAL	TOTAL	ALLOCATION RESERVOIR %	AMOUNT RESERVOIR	ALLOCATION WTP/TS %	AMOUNT WTP/TS
Manager	34	117,000.00	75,281.00	0.00	0.00	0.00	192,281.00	60%	115,400.00	40%	76,881.00
Project Engineer II	26	92,500.00	59,517.00	0.00	0.00	0.00	152,017.00	50%	76,100.00	50%	75,917.00
Water Supply Tech.	14	51,800.00	33,986.00	470.00	550.00	0.00	86,806.00	58%	50,400.00	42%	36,406.00
Administrative Assistant	18	65,300.00	42,016.00	0.00	0.00	0.00	107,316.00	54%	58,000.00	46%	49,316.00
Supervisor Technical Facilities Maint	23	82,200.00	63,614.00	16,117.00	550.00	0.00	162,481.00	42%	68,300.00	58%	94,181.00
Sr. Water Supply Tech.	20	71,600.00	47,613.00	1,849.00	550.00	0.00	121,612.00	48%	58,400.00	52%	63,212.00
Maintenance Worker I	10	45,000.00	29,308.00	0.00	550.00	0.00	74,858.00	94%	70,300.00	6%	4,558.00
Supervisor Operations	28	94,000.00	60,482.00	0.00	0.00	0.00	154,482.00	25%	38,600.00	75%	115,882.00
Equipment Operator	12	49,200.00	32,010.00	0.00	550.00	0.00	81,760.00	90%	73,600.00	10%	8,160.00
Foreman Bldg & Grounds Maint	19	68,400.00	45,408.00	1,622.00	550.00	0.00	115,980.00	89%	103,200.00	11%	12,780.00
Foreman Facilities Maintenance	20	68,100.00	44,497.00	507.00	550.00	0.00	113,654.00	47%	53,400.00	53%	60,254.00
Facilities Mechanic (3 Positions)	18	193,500.00	126,414.00	1,321.00	1,650.00	0.00	322,885.00	47%	151,700.00	53%	171,185.00
Supervisor Plant Operator	22	78,500.00	53,903.00	4,655.00	550.00	70.00	137,678.00	36%	49,600.00	64%	88,078.00
Maintenance Worker I Operations	10		29,640.00	516.00	550.00	0.00	75,706.00	92%	69,700.00	8%	6,006.00
Reservoir System Operator (5 Positions)	15	267,500.00	194,614.00	30,385.00	2,750.00	1,830.00	497,079.00	97%	482,200.00	3%	14,879.00
Plant Operator (2 Positions)	20	141,600.00	102,419.00	16,477.00	1,100.00	0.00	261,596.00	5%	13,000.00	95%	248,596.00
Plant Operator (4 Positions)	19	<u>270,400.00</u>	<u>196,039.00</u>	<u>32,081.00</u>	<u>2,200.00</u>	0.00	500,720.00	5%	<u>25,000.00</u>	95%	<u>475,720.00</u>
TOTAL:		<u>1,801,600.00</u>	<u>1,236,760.00</u>	<u>106,000.00</u>	<u>12,650.00</u>	<u>1,900.00</u>	<u>3,158,911.00</u>		<u>1,556,900.00</u>		<u>1,602,011.00</u>
TOTAL = 27 Positions		1,803,500.00	1,249,410.00	0.6928							

NOTE: A. PERCENTAGES ARE FROM THE AVERAGE OF FISCAL YEARS 2012 THROUGH 2015 BASED ON ACTUAL TIME RECORDS.
B. PLANT OPERATOR TIME STUDY PERCENTAGES WERE ADJUSTED TO ACCOUNT FOR THE VALUE OF THE SHIFT DIFFERENTIAL PROVIDED TO THE RESERVOIR

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 3 - Reservoir System Operations and Maintenance Direct Expense Budget

Proposed F/Y 2017, Adopted F/Y 2016, and Actual F/Y 2013-2015

Cost Center: Reservoir Direct
(40)

MANASQUAN WATER SUPPLY SYSTEM
RESERVOIR SYSTEM
O & M DIRECT EXPENSE BUDGET

CODE	ACCOUNT	FY '13 ACTUAL	FY '14 ACTUAL	FY '15 ACTUAL	FY '16 ADOPTED	FY '17 PROPOSED
5110	Regular Salaries & Wages					
5120	Overtime-Salaries & Wages					
5130	New positions-Salaries & Wages					
5140	Seasonal Help-Salaries & Wages					
5150	Fringe Benefits					
5160	Retiree Health Benefits					
	Total Salary, Wages & Fringe					
5200	Residences					
5211	Heating Fuel					
5220	Utilities -Electrical Service	65,558	94,189	113,344	80,500	90,500
5230	-Gas Service	5,032	5,586	6,629	8,000	8,000
5240	-Propane					
5250	Electricity for Pumping Station	267,525	260,176	258,651	346,900	336,300
5260	Fuel - Vehicular					
5270	Oil & Grease					
5280	Tires					
5290	Maintenance Supplies	105	114	1,750	2,000	2,000
5300	Maint. Supplies - Vehicular					
5310	Major Vehicle Service & Repair					
5320	Agricultural Supplies					
5330	Maintenance Equipment	67,724	17,426	43,693	45,500	51,500
5340	Serv. & Maintenance Contracts	6,001	32,021	49,225	33,000	39,750
5350	Equipment Rental	664	1,789	5,700	6,500	6,500
5360	Household - Safety Supplies	460		692	500	500
5370	Uniforms					
5380	Special & Professional Services	67,009	56,293	84,861	124,900	112,700
5390	Protective Services	228,063	249,353	257,277	285,300	227,528
5400	Telephone	5,689	6,020	6,571	5,000	5,000
5410	Postage & Freight Out					
5420	Data Processing					
5430	Printing & Office Supplies	710	882	1,662	1,500	1,500
5440	Scientific & Photographic	5,060	2,171	1,615	5,000	5,000
5450	Dues & Subscriptions					
5460	Advertising & Promotional	506	321	1,330	1,500	2,000
5470	Travel & Subsistence					
5480	Staff Training & Tuition Aid					
5490	Fees & Permits	31,696	31,255	32,618	33,600	33,900
5500	In - Lieu Taxes	36,756	36,755	36,756	36,800	36,800
5510	Sediment Removal	23,947	36,102	375	56,000	59,000
5520	Chemicals					
5525	Carbon Filter Replacement					
	Total Other Expenses	\$812,505	\$830,453	\$902,749	\$1,072,500	\$1,018,478
	Total Operating Expenses	\$812,505	\$830,453	\$902,749	\$1,072,500	\$1,018,478
	ANNUAL BUDGET	\$946,400	\$934,700	\$963,900	\$1,072,500	\$1,070,768

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 4 - Treatment Plant/Transmission System Operations and Maintenance Direct

Expense Budget

Proposed F/Y 2017, Adopted F/Y 2016, and Actual F/Y 2013-2015

Cost Center: Treat/Trans Direct
(50)

MANASQUAN WATER SUPPLY SYSTEM
WATER TREATMENT PLANT/TRANSMISSION SYSTEM
O & M DIRECT EXPENSE BUDGET

CODE	ACCOUNT	FY '13 ACTUAL	FY '14 ACTUAL	FY '15 ACTUAL	FY '16 ADOPTED	FY '17 PROPOSED
5110	Regular Salaries & Wages					
5120	Overtime-Salaries & Wages					
5130	New positions-Salaries & Wages					
5140	Seasonal Help-Salaries & Wages					
5150	Fringe Benefits					
5160	Retiree Health Benefits					
	Total Salary, Wages & Fringe					
5200	Residences					
5211	Heating Fuel	26,041	1,298	3,971	11,500	9,540
5220	Utilities -Electrical Service	403,869	383,124	369,880	520,500	476,500
5230	-Gas Service	34,998	42,188	31,655	40,000	40,000
5240	-Propane					
5250	Electricity for Pumping Station					
5260	Fuel - Vehicular					
5270	Oil & Grease		204			
5280	Tires					
5290	Maintenance Supplies	0	819	4,696	5,000	6,000
5300	Maint. Supplies - Vehicular					
5310	Major Vehicle Service & Repair		57			
5320	Agricultural Supplies					
5330	Maintenance Equipment	96,290	56,385	80,783	90,500	90,500
5340	Serv. & Maintenance Contracts	20,028	12,941	34,602	28,800	31,300
5350	Equipment Rental	9,250	4,203	1,389	4,800	4,800
5360	Household - Safety Supplies	585	209	794	1,000	1,000
5370	Uniforms					
5380	Special & Professional Services	27,942	44,950	28,409	34,100	45,600
5390	Protective Services	74,207	79,708	84,013	77,300	91,406
5400	Telephone	358	403	405	1,000	1,000
5410	Postage & Freight Out					
5420	Data Processing					
5430	Printing & Office Supplies	4,235	1,729	2,654	6,800	6,800
5440	Scientific & Photographic	11,087	10,120	13,930	14,500	14,500
5450	Dues & Subscriptions					
5460	Advertising & Promotional	750	1,531	1,675	1,000	1,000
5470	Travel & Subsistence					
5480	Staff Training & Tuition Aid			0	4,000	5,200
5490	Fees & Permits	6,533	5,726	11,220	8,000	8,000
5500	In - Lieu Taxes	140	140	140	400	400
5510	Residual Removal	23,884	23,226	19,205	41,000	41,000
5520	Water Treatment Chemicals	126,551	120,475	112,523	145,000	126,000
5525	GAC Replacement	49,700	461	50,621	59,000	59,000
5528	Reimb of O&M Capital Expenditures	10,025	31,004	26,226		
	Total Other Expenses	\$926,473	\$820,901	\$878,791	\$1,094,200	\$1,059,546
	Total Operating Expenses	\$926,473	\$820,901	\$878,791	\$1,094,200	\$1,059,546
	ANNUAL BUDGET	\$1,103,300	\$1,070,800	\$1,086,600	\$1,094,200	\$1,059,546

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 5 - Reservoir System General and Administrative Operations and Maintenance

Direct Expense Budget

Proposed F/Y 2017, Adopted F/Y 2016, and Actual F/Y 2013-2015

Cost Center: G & A
(60)

MANASQUAN WATER SUPPLY SYSTEM
GENERAL & ADMINISTRATIVE
EXPENSE BUDGET

CODE	ACCOUNT	FY '13 ACTUAL	FY '14 ACTUAL	FY '15 ACTUAL	FY '16 ADOPTED	FY '17 PROPOSED
5110	Regular Salaries & Wages	\$1,516,318	\$1,580,123	\$1,611,361	\$1,720,850	\$1,816,150
5120	Overtime-Salaries & Wages	104,865	88,137	78,338	106,000	106,000
5130	New positions-Salaries & Wages					
5140	Seasonal Help-Salaries & Wages					
5150	Fringe Benefits	790,546	813,180	798,599	1,003,000	1,036,961
5160	Retiree Health Benefits	95,307	100,479	105,824	201,500	194,800
5168	Workers Comp. (Self-Insured)	1,544	730	1,015	5,000	5,000
	Total Salary, Wages & Fringe	\$2,508,580	\$2,582,649	\$2,595,137	\$3,036,350	\$3,158,911
	Budget - salary and fringe					
5200	Residences					
5211	Heating Fuel					
5220	Utilities -Electrical Service					
5230	-Gas Service					
5240	-Propane					
5250	Electricity for Pumping Station					
5260	Fuel- Vehicular	35,036	32,447	23,159	35,000	22,450
5270	Oil & Grease	3,971	484	6,965	5,900	6,900
5280	Tires	7,442	2,500	4,490	6,000	6,000
5290	Maintenance Supplies	12,783	14,597	34,978	27,300	27,300
5300	Maint. Supplies - Vehicular	5,045	3,505	6,598	7,100	8,800
5310	Major Vehicle Service & Repair	26,761	28,487	45,077	29,000	29,000
5320	Agricultural Supplies	2,244	4,889	5,002	5,200	6,200
5330	Maintenance Equipment	5,641	2,566	5,441	10,000	7,500
5340	Serv. & Maintenance Contracts	11,871	9,308	8,787	12,500	13,100
5350	Equipment Rental	1,726	2,122	2,087	3,400	3,000
5360	Household - Safety Supplies	9,110	4,423	7,592	8,500	7,500
5370	Uniforms					
5380	Special & Professional Services	1,668	2,035	1,928	3,600	3,600
5390	Protective Services					
5400	Telephone	5,302	5,613	5,775	6,500	7,000
5410	Postage & Freight Out	708	311	449	1,000	500
5420	Data Processing	8,793	8,639	8,363	9,000	8,500
5430	Printing & Office Supplies	5,681	3,182	12,382	7,300	7,300
5440	Scientific & Photographic	1,080		0	300	300
5450	Dues & Subscriptions		229	83	2,500	3,000
5460	Advertising & Promotional	163	108	3,091	1,500	1,500
5470	Travel & Subsistence	345	648	240	500	700
5480	Staff Training & Tuition Aid	5,479	3,989	3,435	11,400	11,400
5490	Fees & Permits	2,566	8,041	3,354	7,000	7,700
5500	In - Lieu Taxes					
5510	Residual Removal					
5520	Water Treatment Chemicals					
5525	GAC Replacement					
	Total Other Expenses	\$153,415	\$138,123	\$189,275	\$200,500	\$189,250
	Total Operating Expenses	\$2,661,995	\$2,720,772	\$2,784,412	\$3,236,850	\$3,348,161
	Budget- other expenses	\$182,500				
	TOTAL ANNUAL BUDGET	\$2,761,900				
	Reservoir System	\$89,732	\$79,995	\$109,267	\$114,960	\$101,890
	Treatment/Transmission System	\$63,683	\$58,128	\$80,008	\$85,540	\$87,360

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 6 - List Of Category 5340 Items Recommended Service & Maintenance Contracts

For Reservoir (40)

Fiscal Year 2017

		Adopted F/Y16	Proposed F/Y17
1	HVAC/Dehumidifier Service	\$ 500.00	\$ 500
2	Instrumentation & Control System Service/Upgrade	2,000	3,000
3	Electrical Upgrade & Repair	12,000	14,000
4	overhead Crane Service & Inspection	2,000	2,000
5	Fire & Intrusion Alarm Service	1,500	1,500
6	Potable Well/Septic Service	1,500	1,500
7	Fertilization-Dam Dike	3,000	3,750
8	Roadway Crack Sealing	1,500	1,500
9	Wood Debris Removal	2,500	2,500
10	Access Roadway Repairs	2,500	2,500
11	Roofing System Maintenance & Repair	4,000	4,000
12	Reservoir Transmission Line Clearing	-	3,000
	Total Service & Maintenance Contracts	\$ 33,000	\$ 39,750

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 7 - List Of Category 5340 Items Recommended Service & Maintenance Contracts

For WTP/TS (50)

Fiscal Year 2017

		<u>Adopted</u> <u>F/Y16</u>	<u>Proposed</u> <u>F/Y17</u>
1	HVAC Service	\$1,000.00	\$ 1,000
2	Electrical Service Contract	1,000	1,000
3	Instrumentation & Control System Service & Upgrade	1,000	8,000
4	Electrical Upgrade & Repair	2,000	4,000
5	Overhead Crane Service	1,000	1,000
6	UST Monitors Service and Upgrade	1,000	1,000
7	Fire & Intrusion Alarm Service	1,200	1,200
8	Air Compressor Service	1,200	1,200
9	Boiler Service	1,500	1,500
10	Auxiliary Generator Service	2,500	3,000
11	Lab Equipment Service	2,000	2,000
12	Backflow Preventor Service	500	500
13	Gas-Fired Hot Water Heater Service	500	500
14	Instrumentation & Control System Service & Upgrade (Transmission System)	5,000	-
15	Electrical Upgrade & Repair (Transmission System)	2,000	-
16	Meter Vault Internet Service (Transmission System)	5,400	5,400
Total Service & Maintenance Contracts		<u>\$ 28,800</u>	<u>\$ 31,300</u>

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 8 - List Of Category 5340 Items Recommended Service & Maintenance Contracts

For G & A (60)

Fiscal Year 2017

		Adopted <u>F/Y16</u>	Proposed <u>F/Y17</u>
1	Refuse & Waste Disposal	\$ 1,700.00	\$ 2,000
2	Office Equipment/Computers	1,600	1,800
3	Waste Oil Disposal	1,100	200
4	Fire Extinguisher Service	1,100	1,100
5	UST Monitor Service	750	750
6	Building Maintenance	750	750
7	Internet Service	2,000	2,000
8	Janitorial Service	2,100	2,100
9	Vehicle Lift Inspection	400	400
10	Generator Service & Maintenance	<u>1,000</u>	<u>2,000</u>
	Total Service & Maintenance Contracts	<u>\$ 12,500</u>	<u>\$ 13,100</u>

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 9 - List Of Category 5380 Items Recommended Special & Professional Service

For Reservoir (40)

Fiscal Year 2017

		Adopted F/Y15	Proposed F/Y16
1	Laboratory Services - Water Quality Sampling	\$ 2,000.00	\$ 2,000
2	Consultant Services	15,000	15,000
3	Services-USGS Cooperative Agreement	31,700	31,700
4	Annual Trustee Fund	9,500	9,500
5	Dam Management-Surveying	2,500	2,500
6	Wetland Monitoring Management	1,200	4,000
7	Lake Management Consultants	19,500	19,500
8	Engineering Services	2,500	2,500
9	Financial Advisory Services	1,000	1,000
11	USGS Gaging Station Squankum	40,000	25,000
	Total Special & Professional Services	\$ 124,900	\$ 112,700

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 10 - List Of Category 5380 Items Recommended Special & Professional Services
For WTP/TS (50)
Fiscal Year 2017

		Adopted F/Y16	Proposed F/Y17
1	Water Quality Sampling	\$ 17,200.00	\$ 17,200
2	Residual Quality Analysis	800	800
3	Consultant Services	4,000	4,000
4	USGA Allenwood Gage-Parameters	10,500	11,000
5	Underground Markout Service (Transmission System)	1,600	1,600
6	Water Quality Sampling and Analysis for LT2	-	11,000
	Total Special & Professional Services	\$ 34,100	\$ 45,600

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 11 - List Of Category 5380 Items Recommended Special & Professional Services

For G & A (60)

Fiscal Year 2017

	<u>Adopted</u> <u>F/Y16</u>	<u>Proposed</u> <u>F/Y17</u>
1 Pulmonary Testing	\$ 1,500.00	\$ 1,500
2 CDL Medical Testing	500	500
3 EAS Service	1,200	1,200
4 Pre-Employment Physicals	<u>400</u>	<u>400</u>
Total Special & Professional Services	<u>\$ 3,600</u>	<u>\$ 3,600</u>

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 12 - 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 Cyber Risk Fidelity & Crime Limit \$5 million/\$1million/\$1 million Deduct: \$100k/\$10k/\$50k	\$40,232 \$5,092 \$45,324	\$3,761 \$476 \$4,237	\$781 \$99 \$3,531 \$4,411	\$44,774 \$5,667 \$3,531 \$53,972
Travel Accident Limit \$2 million	\$876	\$82	\$17	\$975
TOTAL:	\$1,105,215	\$227,527	\$76,318	\$1,409,060

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

**Schedule 13 - Recap Of Allocation Of Headquarters General And Administrative Expenses
Charged To The Manasquan Reservoir Water Supply System**

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

	<u>Total Headquarters Charge</u>	<u>Manasquan Reservoir System</u>	<u>Manasquan WTP/TS</u>
Budgeted-Appendix I, amount to be charged to 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
Actual allocation based upon audited expenditures F/Y15 (7/1/14-6/30/15) - Appendix II	<u>\$702,080</u>	<u>\$609,319</u>	<u>\$92,761</u>
Adjustments F/Y15	<u>(\$79,269)</u>	<u>(\$68,795)</u>	<u>(\$10,474)</u>
Net Allocation for F/Y2017 Budget	<u><u>\$744,060</u></u>	<u><u>\$640,370</u></u>	<u><u>\$103,690</u></u>
Estimate	<u>\$744,000</u>	<u>\$640,000</u>	<u>\$104,000</u>

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 14 - Proposed Capital Equipment Budget

Fiscal Year 2017

Description	(A)Addition (R)Replacement	Year of Purchase Vehicle/Equipment	Dollar Value	%	Manasquan Reservoir	Manasquan WTP/TS	Reservoir Depreciation Reserve	WTP/TS Depreciation Reserve
(I) REPLACE ELECTRIC GATE OPERATOR ADMIN BLDG	(R)	Original	4,000	100/0	4,000	0		
(I) REPLACE HEAT PUMP WITH AC UNIT FRONT AREA OF ADM	(R)	Original	20,000	100/0	20,000	0		
(I) REPLACE HEAT PUMP WITH AC UNIT SHOP AREA OF ADMIN	(R)	Original	15,000	100/0	15,000	0		
(I) REPLACE MOHAWK VEHICLE LIFT W/8 TON UNIT	(R) PE287	1994	18,000	100/0	18,000	0	7,889	
(I) NJWA29 - RSO VEHICLE	(R) TR516	2013	35,000	95/5	33,250	1,750	5,869	309
(I) 4-INCH TRASH PUMP - (#454)	(R) EQ454	2007	4,000	44/56	1,760	2,240	1,705	1,705
(I) POWERTRAC SLOPE TRACTOR - (#332)	(R) PE332	1997	46,000	100/0	46,000	0	35,429	
TOTAL			142,000		138,010	3,990		
*Per Resolution #861, dated 7/12/93 Asset Definition minimum is \$1,000.						0		
Less Amount charged to Reservoir Depreciation Reserve						50,892		
Less Amount charged to WTP/TS Depreciation Reserve							2,014	
Total						87,118	1,976	
Additional Depreciation Reserve						(15,551)	0	
Estimate						\$71,600	\$1,976	

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 15 - July, 2014 – June, 2015 Fiscal Year 2015 G&A Expenses Split

EMPLOYEE NUMBER	TOTAL	BUDGETED %		ACTUAL % (Timesheets)		VARIANCE UNDER (OVER)		
		(40)	(50)	(40)	(50)	(40)	(50)	
		RESERVOIR	WTP/TS	RESERVOIR	WTP/TS	RESERVOIR	WTP/TS	
4 6738 PLANT OPERATOR	TIME SPLIT		5%	95%	5%	95%		
	REGULAR	65,982.24	3,299.12	62,683.12	3,299.11	62,683.13	0.01	(0.01)
	CLOTH.	550.00	27.50	522.50	27.50	522.50	0.00	0.00
	O.T.	4,659.53	232.99	4,426.54	232.98	4,426.55	0.01	(0.01)
	FRINGE	37,918.42	1,895.92	36,022.50	1,895.92	36,022.50	0.00	0.00
21 7335 RESERVOIR SYSTEM OPERATOR	TIME SPLIT		96%	4%	100%	0%		
	REGULAR	52,678.80	50,571.66	2,107.14	52,678.80	0.00	(2,107.14)	2,107.14
	CLOTH.	550.00	528.00	22.00	550.00	0.00	(22.00)	22.00
	O.T.	5,594.82	5,371.01	223.81	5,594.82	0.00	(223.81)	223.81
	FRINGE	31,844.80	30,571.00	1,273.80	31,844.80	0.00	(1,273.80)	1,273.80
20 7933 PLANT OPERATOR	TIME SPLIT		5%	95%	6%	94%		
	REGULAR	67,185.44	3,359.28	63,826.16	4,031.13	63,154.31	(671.85)	671.85
	CLOTH.	550.00	27.50	522.50	33.00	517.00	(5.50)	5.50
	O.T.	4,649.57	232.49	4,417.08	278.97	4,370.60	(46.48)	46.48
	FRINGE	38,953.59	1,947.69	37,005.90	2,337.22	36,616.37	(389.53)	389.53
7 8172 RESERVOIR SYSTEM OPERATOR	TIME SPLIT		96%	4%	96%	4%		
	REGULAR	54,952.00	52,753.92	2,198.08	52,753.92	2,198.08	0.00	0.00
	CLOTH.	550.00	528.00	22.00	528.00	22.00	0.00	0.00
	O.T.	2,807.83	2,695.52	112.31	2,695.52	112.31	0.00	0.00
	FRINGE	30,997.38	29,757.49	1,239.89	29,757.48	1,239.90	0.01	(0.01)
9 12976 FAC MECHANIC II	TIME SPLIT		47%	53%	47%	53%		
	REGULAR	60,764.80	28,559.45	32,205.35	28,559.46	32,205.34	(0.01)	0.01
	CLOTH.	550.00	258.50	291.50	258.50	291.50	0.00	0.00
	O.T.	748.55	351.83	396.72	351.82	396.73	0.01	(0.01)
	FRINGE	33,296.64	15,649.42	17,647.22	15,649.42	17,647.22	0.00	0.00
16 16220 FOREMAN BLDG. & GROUNDS MAINT.	TIME SPLIT		77%	23%	95%	5%		
	REGULAR	65,160.56	50,173.64	14,986.92	61,902.53	3,258.03	(11,728.89)	11,728.89
	CLOTH.	550.00	423.50	126.50	522.50	27.50	(99.00)	99.00
	O.T.	1,198.76	923.04	275.72	1,138.82	59.94	(215.78)	215.78
	FRINGE	35,934.24	27,669.35	8,264.89	34,137.53	1,796.71	(6,468.18)	6,468.18
12 23959 FAC. MECHANIC II	TIME SPLIT		47%	53%	47%	53%		
	REGULAR	60,764.80	28,559.45	32,205.35	28,559.46	32,205.34	(0.01)	0.01
	CLOTH.	550.00	258.50	291.50	258.50	291.50	0.00	0.00
	O.T.	374.51	176.03	198.48	176.02	198.49	0.01	(0.01)
	FRINGE	33,083.49	15,549.24	17,534.25	15,549.24	17,534.25	0.00	0.00
8 23970 RESERVOIR SYS OPERATOR	TIME SPLIT		96%	4%	94%	6%		
	REGULAR	51,120.60	49,075.77	2,044.83	48,053.36	3,067.24	1,022.41	(1,022.41)
	CLOTH.	550.00	528.00	22.00	517.00	33.00	11.00	(11.00)
	O.T.	6,314.94	6,062.36	252.58	5,936.04	378.90	126.32	(126.32)
	FRINGE	30,995.08	29,755.27	1,239.81	29,135.38	1,859.70	619.89	(619.89)
14 26529 FOREMAN FACILITIES MAINT.	TIME SPLIT		46%	54%	48%	52%		
	REGULAR	67,358.24	30,984.81	36,373.43	32,331.96	35,026.28	(1,347.15)	1,347.15
	CLOTH.	550.00	253.00	297.00	264.00	286.00	(11.00)	11.00
	O.T.	1,366.49	628.59	737.90	655.92	710.57	(27.33)	27.33
	FRINGE	37,107.18	17,069.31	20,037.87	17,811.45	19,295.73	(742.14)	742.14

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 15 (Continued) July, 2014 – June, 2015 Fiscal Year 2015 G&A Expenses Split

EMPLOYEE NUMBER	TOTAL	BUDGETED %		ACTUAL % (Timesheets)		VARIANCE UNDER (OVER)		
		(40)	(50)	(40)	(50)	(40)	(50)	
		RESERVOIR	WTP/TS	RESERVOIR	WTP/TS	RESERVOIR	WTP/TS	
5 36810 MAINT. WORKER I			89%	11%	94%	6%		
REGULAR	38,695.04	34,438.59	4,256.45	36,373.34	2,321.70	(1,934.75)	1,934.75	
CLOTH.	550.00	489.50	60.50	517.00	33.00	(27.50)	27.50	
O.T.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
FRINGE	21,782.26	19,386.20	2,396.06	20,475.32	1,306.94	(1,089.12)	1,089.12	
17 41950 PLANT OPERATOR			5%	95%	5%	95%		
REGULAR	65,235.84	3,261.79	61,974.05	3,261.79	61,974.05	0.00	0.00	
CLOTH.	550.00	27.50	522.50	27.50	522.50	0.00	0.00	
O.T.	5,186.87	259.35	4,927.52	259.34	4,927.53	0.01	(0.01)	
FRINGE	37,645.33	1,882.28	35,763.05	1,882.27	35,763.06	0.01	(0.01)	
18 47397 SUPERVISOR			39%	61%	44%	56%		
TECHINICAL ASST.								
FACILITIES MAINT.								
REGULAR	80,005.90	31,202.32	48,803.58	35,202.60	44,803.30	(4,000.28)	4,000.28	
CLOTH.	550.00	214.50	335.50	242.00	308.00	(27.50)	27.50	
O.T.	11,910.82	4,645.23	7,265.59	5,240.76	6,670.06	(595.53)	595.53	
FRINGE	50,328.89	19,628.27	30,700.62	22,144.71	28,184.18	(2,516.44)	2,516.44	
11 50121 SUPERVISING PLANT OPERATOR			35%	65%	25%	75%		
REGULAR	93,605.79	32,762.03	60,843.76	23,401.45	70,204.34	9,360.58	(9,360.58)	
CLOTH.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
O.T.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
FRINGE	49,981.86	17,493.65	32,488.21	12,495.47	37,486.39	4,998.18	(4,998.18)	
1 50461 MANAGER, MWSS			55%	45%	69%	31%		
REGULAR	111,067.00	61,086.85	49,980.15	76,636.23	34,430.77	(15,549.38)	15,549.38	
CLOTH.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
O.T.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
FRINGE	60,155.19	33,085.35	27,069.84	41,507.08	18,648.11	(8,421.73)	8,421.73	
2 50802 ADMIN. ASSISTANT			55%	45%	69%	31%		
REGULAR	59,882.73	32,935.50	26,947.23	41,319.08	18,563.65	(8,383.58)	8,383.58	
CLOTH.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
O.T.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
FRINGE	32,286.62	17,757.64	14,528.98	22,277.77	10,008.85	(4,520.13)	4,520.13	
10 51483 EQUIP OPERATOR			80%	20%	93%	7%		
REGULAR	47,085.28	37,668.22	9,417.06	43,789.31	3,295.97	(6,121.09)	6,121.09	
CLOTH.	550.00	440.00	110.00	511.50	38.50	(71.50)	71.50	
O.T.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
FRINGE	25,570.45	20,456.37	5,114.08	23,780.52	1,789.93	(3,324.15)	3,324.15	
19 63738 PLANT OPERATOR			5%	95%	5%	95%		
REGULAR	64,988.16	3,249.40	61,738.76	3,249.41	61,738.75	(0.01)	0.01	
CLOTH.	550.00	27.50	522.50	27.50	522.50	0.00	0.00	
O.T.	5,598.32	279.92	5,318.40	279.92	5,318.40	0.00	0.00	
FRINGE	37,625.33	1,881.26	35,744.07	1,881.27	35,744.06	(0.01)	0.01	
6 69555 MAINT WORKER I - OPERATIONS			89%	11%	90%	10%		
REGULAR	43,779.04	38,963.35	4,815.69	39,401.14	4,377.90	(437.79)	437.79	
CLOTH.	550.00	489.50	60.50	495.00	55.00	(5.50)	5.50	
O.T.	381.16	339.23	41.93	343.04	38.12	(3.81)	3.81	
FRINGE	23,892.32	21,264.17	2,628.15	21,503.09	2,389.23	(238.92)	238.92	

**NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM**

Schedule 15 (Continued) July, 2014 – June, 2015 Fiscal Year 2015 G&A Expenses Split

EMPLOYEE NUMBER	TOTAL	BUDGETED %		ACTUAL % (Timesheets)		VARIANCE UNDER (OVER)		
		(40)	(50)	(40)	(50)	(40)	(50)	
		RESERVOIR	WIP/TS	RESERVOIR	WIP/TS	RESERVOIR	WIP/TS	
22 75370 FAC MECHANIC -WSA	TIME SPLIT		47%	53%	48%	52%		
	REGULAR	62,789.44	29,511.05	33,278.39	30,138.93	32,650.51	(627.88)	627.88
	CLOTH.	550.00	258.50	291.50	264.00	286.00	(5.50)	5.50
	O.T.	227.68	107.00	120.68	109.29	118.39	(2.29)	2.29
	FRINGE	34,152.89	16,051.86	18,101.03	16,393.39	17,759.50	(341.53)	341.53
28 81185 RESERVOIR SYSTEM OPERATIONS	TIME SPLIT		96%	4%	97%	3%		
	REGULAR	39,571.62	37,988.78	1,582.84	38,384.47	1,187.15	(395.69)	395.69
	CLOTH.	550.00	528.00	22.00	533.50	16.50	(5.50)	5.50
	O.T.	2,829.11	2,715.95	113.16	2,744.24	84.87	(28.29)	28.29
	FRINGE	22,923.76	22,006.82	916.94	22,236.05	687.71	(229.23)	229.23
23 87000 PLANT OPERATOR	TIME SPLIT		5%	95%	5%	95%		
	REGULAR	66,233.28	3,311.67	62,921.61	3,311.66	62,921.62	0.01	(0.01)
	CLOTH.	550.00	27.50	522.50	27.50	522.50	0.00	0.00
	O.T.	7,527.98	376.40	7,151.58	376.40	7,151.58	0.00	0.00
	FRINGE	39,354.09	1,967.71	37,386.38	1,967.70	37,386.39	0.01	(0.01)
24 87750 RESERVOIR SYSTEM OPERATOR	TIME SPLIT		96%	4%	100%	0%		
	REGULAR	55,588.40	53,364.87	2,223.53	55,588.40	0.00	(2,223.53)	2,223.53
	CLOTH.	550.00	528.00	22.00	550.00	0.00	(22.00)	22.00
	O.T.	4,909.06	4,712.70	196.36	4,909.06	0.00	(196.36)	196.36
	FRINGE	32,612.92	31,308.40	1,304.52	32,612.92	0.00	(1,304.52)	1,304.52
27 72463 PROJECT ENGINEER II	TIME SPLIT		50%	50%	39%	61%		
	REGULAR	40,811.44	20,405.72	20,405.72	15,916.46	24,894.98	4,489.26	(4,489.26)
	CLOTH.	550.00	275.00	275.00	214.50	335.50	60.50	(60.50)
	O.T.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	FRINGE	21,236.26	10,618.15	10,618.11	8,282.14	12,954.12	2,336.01	(2,336.01)
15 88875 WATER SUPPLY TECH OPERATOR	TIME SPLIT		58%	42%	61%	39%		
	REGULAR	47,617.36	27,618.06	19,999.30	29,046.59	18,570.77	(1,428.53)	1,428.53
	CLOTH.	550.00	319.00	231.00	335.50	214.50	(16.50)	16.50
	O.T.	347.70	201.66	146.04	212.10	135.60	(10.44)	10.44
	FRINGE	26,004.43	15,082.58	10,921.85	15,862.70	10,141.73	(780.12)	780.12
25 90000 SUPERVISING PLANT OPERATOR	TIME SPLIT		35%	65%	37%	63%		
	REGULAR	71,950.24	25,182.58	46,767.66	26,621.59	45,328.65	(1,439.01)	1,439.01
	CLOTH.	550.00	192.50	357.50	203.50	346.50	(11.00)	11.00
	O.T.	3,440.33	1,204.10	2,236.23	1,272.92	2,167.41	(68.82)	68.82
	FRINGE	40,845.83	14,296.04	26,549.79	15,112.96	25,732.87	(816.92)	816.92
26 93000 PLANT OPERATOR	TIME SPLIT		5%	95%	5%	95%		
	REGULAR	63,837.00	3,191.85	60,645.15	3,191.85	60,645.15	0.00	0.00
	CLOTH.	550.00	27.50	522.50	27.50	522.50	0.00	0.00
	O.T.	8,264.45	413.24	7,851.21	413.22	7,851.23	0.02	(0.02)
	FRINGE	39,341.14	1,967.06	37,374.08	1,967.06	37,374.08	0.00	0.00
VACANT WATER SUPPLY TECH	TIME SPLIT		58%	42%	58%	42%		
	REGULAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	CLOTH.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	O.T.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	FRINGE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		(60)	(40)	(50)	(40)	(50)	(40)	(50)
	REGULAR	1,598,711.04	773,479.73	825,231.31	817,004.03	781,707.01	(43,524.30)	43,524.30
	CLOTH.	12,650.00	6,677.00	5,973.00	6,935.50	5,714.50	(258.50)	258.50
	O.T.	78,338.48	31,928.64	46,409.84	33,221.20	45,117.28	(1,292.56)	1,292.56
	FRINGE	905,870.39	435,998.50	469,871.89	460,500.86	445,369.53	(24,502.36)	24,502.36
	GRAND TOTAL	<u>2,595,569.91</u>	<u>1,248,083.87</u>	<u>1,347,486.04</u>	<u>1,317,661.59</u>	<u>1,277,908.32</u>	<u>(69,577.72)</u>	<u>69,577.72</u>

*PLANT OPERATORS ADJUSTED TO ACTUAL %'S OF 5%/95%
ORIGINAL %'S AS FOLLOWS:
C. BENNETT 2%/98%
R. KARECKY 1%/99%
J. TESTA 2%/98%
C. ZIEGLER 3%/97%

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 16 - Estimate Of Interest Income

Fiscal Year 2017 Budget

Fund/Reserve	TD Bank Funds	Long-Term Investments
Operating	\$300,000	\$0
Reserve for O & M	\$400,000	\$400,000
General Reserve (Rate Stabilization Fund)	\$250,000	\$0
Pumping Reserve	\$125,000	\$35,000
Self-Insurance Reserve	\$50,000	\$200,000
Sediment Reserve	\$60,000	\$0
 Estimated Total	 \$1,185,000	 \$635,000
	 \$1,185,000 x .25% =	 \$2,963
	\$635,000 x 1.30% =	\$8,255
	Total	\$11,218
	Estimate	\$11,200

Short-Investments

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

Long-Term Investments

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

NEW JERSEY WATER SUPPLY AUTHORITY
 MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 17 - Unanticipated Revenue

Funds to be Appropriated into Rate Stabilization fund for Fiscal Year 2017

	<u>Amount</u>								
F/Y2015 Net Year-End Balance	\$327,740.50								
Excess D/S Coverage FY2016	\$600,000.00								
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%; border-bottom: 1px solid black;"><u>Overdraft</u></th> <th style="width: 25%; border-bottom: 1px solid black;"><u>Invoice No.</u></th> <th style="width: 25%; border-bottom: 1px solid black;"><u>Received</u></th> <th style="width: 25%; border-bottom: 1px solid black;"><u>Amount</u></th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	<u>Overdraft</u>	<u>Invoice No.</u>	<u>Received</u>	<u>Amount</u>					
<u>Overdraft</u>	<u>Invoice No.</u>	<u>Received</u>	<u>Amount</u>						

Additional Sources

Source Water Protection Fund	\$40,000.00
New Jersey American Overdrafts April-August 2015	\$27,609.00
Total Available	<u>\$995,349.50</u>
Estimate for FY/17	<u><u>\$995,300.00</u></u>

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 18 - Fund Balances as of 6/30/15

Final

	REVENUE FUND	OPERATING ACCOUNT	OPERATING FUND	O & M RESERVE	INVESTMENTS O & M RESERVE	TOTAL
BALANCE 6/30/15 (Does not include Debt Service payment)	\$171,096	\$312,836	\$3,610,830	\$1,244,939	\$469,908	\$5,809,609
Add: Adjustment for uncollected water revenues at 6/30/15			0			0
Add: NJ-American, JCP&L expenses for June 2015			33400			33,400
Deduct: Accrued expenses to be paid as of 6/30/15			-168271			(168,271)
Deduct: June 10th billing, received			-252331.78			(252,332)
Adjusted Balances 6/30/15	\$171,096	\$312,836	\$3,223,627	\$1,244,939	\$469,908	\$5,422,406
INCOME						
Operating Transfer	-100000		100,000			0
Receipt of WTP/TS G&A expenses for the month of June 2015, 7/31/15 billing			163335.8			163,336
						0
						0
EXPENSES						
O & M Expenses - (A/P-6/30/15) includes accrued payroll and pension thru 6/30/15			-295458			(295,458)
Capital items to be purchased by 6/30/15			-11377			(11,377)
Payment of Headquarters overhead expenses - to be paid 7/01			(169,000)			(169,000)
Contributions to Various Reserves- 7/15			(37,000)			(37,000)
ADJUSTED BALANCE AT 6/30/15	\$171,096	\$312,836	\$2,974,128	\$1,244,939	\$469,908	\$5,072,907

Less: O & M Reserve Balance (Goal is 3 months O & M Expenses as dictated by Bond Resolution) -838890

Balance of projected funds available \$4,234,017

Use of Available Funds

Unanticipated revenues (overdrafts in FY15 to be available to the General Fund for FY17)
NJ American Water -3840

Appropriate FY16 net fund balance into the General Fund (Rate Stabilization) to be used for rate stabilization -640000

Balance of fund to be used for future years \$3,590,177

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 19 - Operations & Maintenance Expense Component and Debt Service Cost
Component Sales Base
Projected Fiscal Year 2017

USER	ALLOCATION (mgd)
Avon, Borough of	0.126
Belmar, Borough of	0.288
Brielle, Borough of	0.450
Keyport, Borough of	0.356
Matawan, Borough of	0.332
New Jersey American Water	12.500
Red Bank, Borough of	0.548
Sea Girt, Borough of	0.040
Shorelands Water Company	2.007
Lake Como, Borough of	0.100
Spring Lake, Borough of	0.310
Spring Lake Heights, Borough of	0.386
Wall Township	2.000
OPERATIONS & MAINTENANCE/DEBT SERVICE SALES BASE	19.443 mgd

NEW JERSEY WATER SUPPLY AUTHORITY
 MANASQUAN RESERVOIR WATER SUPPLY AUTHORITY

Schedule 20 - Operations And Maintenance Rate Component (19.443mgd)

Fiscal Year 2017

Funds Required for F/Y2017 Budget

Total Budget Requirements		\$3,993,448
Miscellaneous Revenues		(\$1,006,500)
Net Budget Requirement		\$2,986,948
Less - Quarterly O&M payment on July 10, 2016 (cash received in July for water used in April, May and June of 2016 based on \$386.00/mg)		(\$682,955)
Additional Revenue required from last three (3) Quarterly payments in F/Y2017 to cover Operations & Maintenance expenses through 6/30/17		\$2,303,993

Computation of Operations & Maintenance Rate for Fiscal Year 2017

Required Operations & Maintenance Rate F/Y2017	\$2,303,993			
	5,322.52*	=		\$432.87/mg

* Four (4) Quarters Sales =

	19.443 mgd x 365			
		=		7,096.70mg/yr

Rate Calculation for Required revenues due for payment on
10/10/16, 1/10/17 and 4/10/17:

Sales Base =

	7,096.70 x 3/4			
		=		5,322.52/mg

The same rate will apply to the payment due 7/10/17 and this
payment will be reflected in the calculation of the F/Y2018 rate.

NEW JERSEY WATER SUPPLY AUTHORITY
 MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 21 - Computation Of Base Debt Service Rates

Initial Water Purchasers (14.980MGD) – 7/01/15
 Shorelands Delayed Purchase Contract (.028MGD) – 7/01/06

Debt Service for Fiscal Year 2017	\$2,906,105	
Debt Service Fund Interest Income and Other Available Resources		\$0
Net Debt Service Obligation	\$2,906,105	
Coverage Requirement = Net Debt Service Obligation x 20%		\$581,221
Total to be Recovered by Rates	\$3,487,326	
Debt Service Rate Effective 7/01/16 365 x 15.008/mgd = 5,477.92mg	\$3,487,326 5,477.92mg	= \$636.61mg

NEW JERSEY WATER SUPPLY AUTHORITY
 MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

Schedule 22 - Computation Of Delayed Water Purchase Debt Service Rates

NJAW – 1.000MGD CONTRACT - 07/01/01
 1.935MGD CONTRACT – 10/01/02
 1.500MGD CONTRACT – 01/01/05

Debt Service for Fiscal Year 2017	\$1,038,815	
Debt Service Fund Interest Income and Other Available Resources	\$0	
Net Debt Service Obligation	\$1,038,815	
Coverage Requirement = Net Debt Service Obligation x 20%	\$207,763	
Total to be Recovered by Rates	\$1,246,578	
Debt Service Rate Effective 7/01/16 365 x 4.435/mgd =1,618.78mg	\$1,246,578 1,618.78mg	= \$770.07mg

NEW JERSEY WATER SUPPLY AUTHORITY
MANASQUAN RESERVOIR SYSTEM

Schedule 24 - 2005 Bond Debt Service Coverage

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

	<u>Budgeted F/Y2017</u>
<u>Revenues</u>	
Uninterruptible Water Sales	\$8,054,944
Interest Income	<u>\$11,200</u>
Total Revenues	<u><u>\$8,066,144</u></u>
Prior Years Surplus/Other	\$995,300
Less Projected Rev for Use in FY2018	<u>(\$400,000)</u>
<u>Expenses</u>	
O&M Costs	\$2,677,270
Overhead Allocation	<u>\$640,000</u>
Total O&M	<u><u>\$3,317,270</u></u>
Cash Available for Debt Service - A	\$5,344,174
Net Debt Service Expense	\$3,944,920
Debt Service Coverage Calculation - A/B	1.35
Cash After Debt Service A-B	\$1,399,254

**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 Manasquan Reservoir System, to become effective July 1, 2016 (regulations found at N.J.A.C. 7:11-4.1 et seq.)

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 fiscal year beginning on July 1, 2016; and

WHEREAS, by Resolution No. 2210 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 Manasquan Reservoir System, to become effective July 1, 2016 (regulations found at N.J.A.C. 7:11-4.1 et seq.); and

WHEREAS, the proposal was mailed to all contractual water purchasers in December 2015, and published in the Asbury Park Press, the Star Ledger and the Times (Trenton) on December 24, 2015, and also 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 7, 2016; and

WHEREAS, the Authority conducted a public hearing on the proposed amendments on February 4, 2016 with the 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 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 Manasquan Reservoir System;" and

BE IT FURTHER RESOLVED, that the Authority adopts the following amendments to the Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Manasquan Reservoir System, found at N.J.A.C. 7:11-4.1 et seq. to become effective on July 1, 2016:

1. Amend N.J.A.C. 7:11-4.3(c) to decrease the sales base from 20.158 million gallons per day to 19.443 million gallons per day and increase the Operations and Maintenance Expense Component Rate from \$386.00 per million gallons to \$432.87 per million gallons, no change from the Initial Proposal, for the period of July 1, 2016 through June 30, 2017; and
2. Amend N.J.A.C. 7:11-4.4(b) to decrease the sales base from 15.723 million gallons per day to 15.008 million gallons per

day and maintain the Debt Service Assessment Rate of \$636.61 per million gallons, a decrease of \$33.18 per million gallons from the Initial proposal of \$ \$669.79 per million gallons, for the period of July 1, 2016 through June 30, 2017(coverage 120%); and

3. Amend N.J.A.C. 7:11-4.4(c) of the Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Manasquan Reservoir System to maintain the sales base and maintain the Debt Service Assessment Rate for water purchasers who entered into water purchase contracts effective July 1, 2001, October 1, 2002, and January 1, 2005 (Delayed Water Purchase Contract) of \$770.07 per million gallons, a decrease of \$2.92 per million gallons from the Initial proposal of \$772.99 per million gallons, for the period of July 1, 2016 to June 30, 2017 (coverage 120%); and

4. Amend N.J.A.C. 7:11-4.5(b) of the Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Manasquan Reservoir System to maintain the Source Water Protection Fund Component of \$10.00 per million gallons consistent with the Initial Proposal for the period July 1, 2016 to June 30, 2017; and

5. Amend N.J.A.C. 7:11-4.6(b) of the Schedule of Rates, Charges and Debt Service Assessments for the Sale of Water from the Manasquan Reservoir System to increase the New Jersey Environmental Infrastructure Financing Program debt component from \$24.79 per million gallons to \$25.10 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 authorized:

1. Appropriate \$327,700 in undesignated fund balance from the Fiscal Year ending June 30, 2015 into the General Fund (Rate Stabilization).
2. Appropriate \$600,000 derived from excess debt service coverage in FY2016 into the General Fund (Rate Stabilization).
3. Transfer \$40,000 from the Source Water Protection Fund into the General Fund (Rate Stabilization).
4. Transfer from the Operating Fund \$27,600 in Overdraft Revenue billed for overdrafts from April through August 2015 into the General Fund (Rate Stabilization)
5. Apply \$995,300 appropriated into the General Fund (Rate Stabilization) as a source of revenue to the Operating Fund for Fiscal Year 2017 to offset the Fiscal Year 2017 O&M Component of the Rate.
6. Appropriate \$_____ in excess revenue above the required debt service payments, derived from the FY2017 Initial and Delayed Debt Service Components of the rate into the Renewal and Replacement Fund.

Draft Resolution Adopting FY2017
Budget

Exhibit J

NO.: _____

DATE OF ADOPTION: _____

TITLE: Resolution approving the Authority's Manasquan Reservoir 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 6, 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 \$8,976,436 including required debt service coverage.

NOW THEREFORE, be it resolved that the Authority approves a budget of \$8,976,436 for the Fiscal Year beginning July 1, 2016 through June 30, 2017.