

**BEFORE THE  
PUBLIC UTILITIES COMMISSION  
OF RHODE ISLAND**

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**CITY OF NEWPORT                    )                    DOCKET NO. 4355**

**SURREBUTTAL TESTIMONY**

**OF**

**JEROME D. MIERZWA**

**ON BEHALF OF THE**

**DIVISION OF PUBLIC UTILITIES AND CARRIERS**

**FEBRUARY 7, 2013**

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**EXETER**

**ASSOCIATES, INC.  
10480 Little Patuxent Parkway  
Suite 300  
Columbia, Maryland 21044**

BEFORE THE  
PUBLIC UTILITIES COMMISSION  
OF RHODE ISLAND

CITY OF NEWPORT                    )                    DOCKET NO. 4355

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REBUTTAL TESTIMONY OF JEROME D. MIERZWA

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**I. Introduction**

Q.            WOULD YOU PLEASE STATE YOUR NAME AND BUSINESS ADDRESS?

A.    My name is Jerome D. Mierzwa. I am a principal and Vice President of Exeter Associates, Inc. My business address is 10480 Little Patuxent Parkway, Suite 300, Columbia, Maryland 21044. Exeter specializes in providing public utility-related consulting services.

Q.            WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?

A.    The primary purpose of my rebuttal testimony is to address the rebuttal testimony of City of Newport witness Harold J. Smith and the direct testimony of Portsmouth Water & Fire District ("PWFD") witness Christopher P.N. Woodcock. I also briefly discuss Newport's December 28, 2012 compliance filing in Docket No. 4243.

**II. Docket No. 4243 Compliance Filing**

Q.            BEFORE ADDRESSING THE TESTIMONY OF WITNESSES SMITH AND WOODCOCK, PLEASE DISCUSS NEWPORT'S COMPLIANCE FILING IN DOCKET NO. 4243.

1 A. As explained in my direct testimony, in Docket No. 4243, the Commission  
2 approved a multi-year rate plan for Newport to reflect increases in debt  
3 service associated with the design and construction of a new Lawton Valley  
4 Water Treatment Plant and improvements to the Station One Water  
5 Treatment Facility (collectively "Treatment Plant Projects"). The cost of  
6 service study filed by Newport in Docket 4355 reflected \$1,986,710 in  
7 additional debt service costs related to the Treatment Plant Projects as an  
8 estimate for the next phase of its approved multi-year rate plan. The actual  
9 amount of the requested increase in debt service costs was to be made  
10 through a compliance filing in the near future. On December 28, 2012,  
11 Newport made its compliance filing in Docket No. 4243, seeking an increase  
12 in debt service of \$2,145,647.

13  
14 **III. Production Demand Factors**

15 Q. WHAT IS THE FIRST COST OF SERVICE STUDY ISSUE THAT YOU  
16 WILL ADDRESS?

17 A. First, I will address the Water Production Peaking Analyses presented in  
18 Schedule B-7 which develops production demand factors that are used to  
19 determine Newport's average day, maximum day and maximum hour costs  
20 (collectively "base-extra capacity costs") in the cost of service study.

21 Q. PLEASE EXPLAIN HOW NEWPORT INITIALLY DETERMINED THE  
22 PRODUCTION DEMAND FACTORS IN SCHEDULE B-7.

23 A. Witness Smith initially determined average day and maximum day production  
24 demand factors based on an average of FY 2008-FY 2010 production  
25 volumes, and the maximum hour production demand factor based on an

1 average of FY 2010-FY 2012 production volumes. In my direct testimony I  
2 recommended that each production demand factor should be determined  
3 based on FY 2008-FY 2010 production volumes and noted that Newport had  
4 conceptually agreed to this change.

5 Q. WHAT IS WITNESS WOODCOCK'S CONCERN WITH NEWPORT'S  
6 SCHEDULE B-7 AND THE CALCULATION OF PRODUCTION  
7 DEMAND FACTORS?

8 A. Witness Woodcock also notes that the Company used the period FY 2008-FY  
9 2010 to calculate average day and maximum day production demand factors,  
10 but used the period FY 2010-FY 2012 to calculate the maximum hour  
11 production demand factor. He claims that it is inappropriate to mix time  
12 periods as Newport has done, and recommends that a three-year average of  
13 production volumes for the period FY 2010-FY 2012 be used to calculate  
14 each production demand factor.

15 Q. WHAT HAS WITNESS SMITH PROPOSED IN HIS REBUTTAL  
16 TESTIMONY WITH RESPECT TO PRODUCTION DEMAND  
17 FACTORS?

18 A. Under the base-extra capacity cost of service study method used by Newport,  
19 costs are initially allocated to the average day, maximum day and maximum  
20 hour cost categories based on production demand factors. The costs  
21 allocated to these functional base-extra capacity categories are subsequently  
22 assigned to each customer class based on the relative average day,  
23 maximum day and maximum hour demands of each class ("class demand  
24 factors"). These class demand factors were developed based on a sampling  
25 of customer usage data collected during the summers of 2011 and 2012.

1 Because base-extra capacity costs have been assigned to class based on  
2 2011 and 2012 usage data, witness Smith recommends that the production  
3 demand factors used in the cost of service study should be determined based  
4 on an average of FY 2011 and FY 2012 production volumes.

5 Q. IS WITNESS SMITH'S PROPOSAL TO BASE PRODUCTION  
6 DEMAND FACTORS BASED ON AN AVERAGE OF FY 2011 AND FY  
7 2012 PRODUCTION VOLUMES REASONABLE?

8 A. Yes.

9  
10 **IV. Allocation of Treatment Plant Project Costs**

11 Q. HOW IS NEWPORT PROPOSING TO ALLOCATE TREATMENT  
12 PLANT PROJECT COSTS IN THE COST OF SERVICE STUDY?

13 A. Newport is proposing to allocate the costs associated with the Treatment  
14 Plant Projects based on the projected peak demands provided to Newport by  
15 the Navy and PWFD.

16 Q. IN YOUR DIRECT TESTIMONY, DID THE DIVISION AGREE WITH  
17 NEWPORT'S PROPOSAL TO ALLOCATE TREATMENT PLANT  
18 PROJECT COSTS BASED ON PROJECTED PEAK DEMANDS?

19 A. No. In my direct testimony I noted that the Treatment Plant Project facilities  
20 are not anticipated to be in service until at least 2015, and recommended that  
21 any potential change to the allocation of treatment capital costs be deferred  
22 until a time closer to the in-service date of the Treatment Plant Projects.

1 Q. DOES NEWPORT WITNESS SMITH CONTINUE TO SUPPORT AN  
2 ALLOCATION OF TREATMENT PLANT PROJECT COSTS BASED  
3 ON PROJECTED PEAK DEMANDS IN HIS REBUTTAL TESTIMONY?

4 A. Yes. Witness Smith claims that Newport is simply asking that the Navy and  
5 PWFD pay for the capacity they claimed they needed when Newport was in  
6 the planning stages for the Treatment Plant Projects. He claims Newport  
7 sized the capacity of the Treatment Plant Projects according to the stated  
8 needs of the Navy and PWFD. He further claims that under the existing cost  
9 allocation procedures which were agreed upon in Docket No. 4128, the Navy  
10 and PWFD will only pay for the capacity they requested if they use it. If the  
11 actual demands of the Navy and PWFD are less than the requested capacity,  
12 then the Navy and PWFD will only pay for a portion of the capacity they  
13 requested.

14 Q. SHOULD NEWPORT'S PROPOSED CHANGE TO THE  
15 ALLOCATION OF TREATMENT PLANT BE ADOPTED?

16 A. No. Witness Smith notes that the capacity requested by the Navy and the  
17 PWFD are less than their current capacity needs. The Navy and PWFD are  
18 projected to require 27 percent of the capacity of the Treatment Plant Project  
19 facilities, while Newport will require the remaining 73 percent. Under the cost  
20 allocation procedures agreed upon in Docket No. 4128, treatment costs are  
21 allocated based on actual use. The Treatment Plant Projects will be in  
22 service for at least 20 years. While in service, the treatment capacity needs  
23 of Newport, the Navy and PWFD are likely to differ from current projections.  
24 For example, Newport's treatment capacity needs may increase beyond  
25 current projections and the needs of the Navy and PWFD may decrease

1 below current projections. Newport's proposal to allocate Treatment Plant  
2 Project costs based on projected capacity needs is incomplete because it fails  
3 to address the important cost allocation inequities that could result. For  
4 example, say in 15 years, treatment plant capacity paid for by one party  
5 (Party A) is not required by Party A, but is needed to serve another party  
6 (Party B). Under these circumstances, Party A could claim that it should be  
7 compensated by Party B for the 15-year period during which Party A paid for  
8 capacity that is now required to serve Party B. Because Newport's proposal  
9 does not address how differences between projected and actual capacity  
10 requirements will be resolved, it should not be adopted.

11 Q. HAVE YOU PREPARED A REVISED COST OF SERVICE STUDY TO  
12 REFLECT NEWPORT'S ACTUAL FILED INCREASE IN DEBT  
13 SERVICE COSTS AND YOUR RECOMMENDATION WITH  
14 RESPECT TO THE ALLOCATION OF TREATMENT COSTS?

15 A. Yes. I have attached a revised cost of service study to my testimony. This  
16 revised study also incorporates the revised asset listing provided by Newport  
17 in the supplemental response to PWFD 2-1.

18 Q. DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?

19 A. Yes, it does.

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Newport Water Cost of Service Model

Index of Model Schedules

**Summary Schedules**

- JDM Schedule Surrebuttal A-1 Revenue Requirements
- JDM Schedule Surrebuttal A-2 Cost of Service Rates and Charges
- JDM Schedule Surrebuttal A-3 Bill Impacts
- JDM Schedule Surrebuttal A-4 Revenue Proof

**COS Model Schedules**

- JDM Schedule Surrebuttal B-1 Base Extra Capacity Cost Allocations
- JDM Schedule Surrebuttal B-2 Allocation of Costs to Water Rate Classes
- JDM Schedule Surrebuttal B-3 Cost Allocation Bases
- JDM Schedule Surrebuttal B-4 Allocation Analyses
- JDM Schedule Surrebuttal B-5 Capital Functionalization
- JDM Schedule Surrebuttal B-6 Water Demand History
- JDM Schedule Surrebuttal B-7 Water Production Peaking Analysis
- JDM Schedule Surrebuttal B-8 Billed Demand Peaking Analysis: Determination of Customer Class Peak
- JDM Schedule Surrebuttal B-9 System Demands Imposed by Each Customer Class' Peaking Behavior
- JDM Schedule Surrebuttal B-10 Summary of Peak Load Distributions (by Rate Class and Base/Extra-Capac
- JDM Schedule Surrebuttal B-11 Fire Protection Demand Analysis

**Supporting Data**

- JDM Schedule Surrebuttal D-1 Water Accounts, by Size and Class
- JDM Schedule Surrebuttal D-2 Fire Protection Accounts
- JDM Schedule Surrebuttal D-3 Production Summary
- JDM Schedule Surrebuttal D-4 Demand Summary
- JDM Schedule Surrebuttal D-5 Development of Pumping Costs
- JDM Schedule Surrebuttal D-6 Debt Service Restricted Account Cashflow
- JDM Schedule Surrebuttal D-7 Demand Factor Calculations

|                                   | Rate Year<br>Approved in<br>Docket 4243 | Test Year<br>FY 2013<br>Approved in<br>Docket 4243 | Adjustments<br>To Test Year | Proposed Rate<br>Year |
|-----------------------------------|---|--|-----------------------------|-----------------------|
| <b>O&amp;M COSTS</b>              |   |  |                             |                       |
| <b>Administration</b>             |   |  |                             |                       |
| Salaries & Wages                  | \$ 273,889                              | \$ 273,889   |                             | \$ 273,889            |
| AFSCME retro                      | -                                       | -  |                             | -                     |
| NEA retro                         | -                                       | -  |                             | -                     |
| AFSCME benefits on retro pay      | -                                       | -  |                             | -                     |
| NEA benefits on retro pay         | -                                       | -  |                             | -                     |
| Standby Salaries                  | 12,500                                  | 12,500   |                             | 12,500                |
| Accrued Benefits Buyout           | 175,000                                 | 175,000  |                             | 175,000               |
| Employee Benefits                 | 128,202                                 | 128,202  |                             | 128,202               |
| Retiree Insurance Coverage        | 514,000                                 | 514,000  |                             | 514,000               |
| Workers Compensation              | 85,000                                  | 85,000   |                             | 85,000                |
| Annual Leave Buyback              | 2,400                                   | 2,400  |                             | 2,400                 |
| Advertisement                     | 9,000                                   | 9,000  |                             | 9,000                 |
| Membership Dues & Subscriptions   | 2,500                                   | 2,500  |                             | 2,500                 |
| Conferences & Training            | 4,000                                   | 4,000  |                             | 4,000                 |
| Tuition Reimbursement             | 2,000                                   | 2,000  |                             | 2,000                 |
| Consultant Fees                   | 233,033                                 | 233,033  |                             | 233,033               |
| Postage                           | 1,000                                   | 1,000  |                             | 1,000                 |
| Fire & Liability Insurance        | 76,468                                  | 76,468   |                             | 76,468                |
| Telephone & Communication         | 5,500                                   | 5,500  |                             | 5,500                 |
| Water                             | 1,942                                   | 1,942  |                             | 1,942                 |
| Electricity                       | 5,805                                   | 5,805  |                             | 5,805                 |
| Natural Gas                       | 7,252                                   | 7,252  |                             | 7,252                 |
| Property Taxes                    | 226,774                                 | 226,774  |                             | 226,774               |
| <b>Legal &amp; Administrative</b> |   |  |                             |                       |
| Audit Fees                        | 4,349                                   | 4,349  |                             | 4,349                 |
| OPEB Contribution                 | -                                       | -  |                             | -                     |
| City Counsel                      | 4,649                                   | 4,649  |                             | 4,649                 |
| Citizens Survey                   | -                                       | -  |                             | -                     |
| City Clerk                        | 3,381                                   | 3,381  |                             | 3,381                 |
| City Manager                      | 54,131                                  | 54,131   |                             | 54,131                |
| Human Resources                   | 30,121                                  | 30,121   |                             | 30,121                |
| City Solicitor                    | 20,459                                  | 20,459   |                             | 20,459                |
| Finance Adimistrative 80%         | 19,822                                  | 19,822   |                             | 19,822                |
| Finance Adimistrative 5%          | 7,020                                   | 7,020  |                             | 7,020                 |
| Purchasing                        | 18,314                                  | 18,314   |                             | 18,314                |
| Assessment                        | 5,973                                   | 5,973  |                             | 5,973                 |
| Collections                       | 46,979                                  | 46,979   |                             | 46,979                |
| Accounting 5%                     | 10,679                                  | 10,679   |                             | 10,679                |
| Accounting                        | 70,516                                  | 70,516   |                             | 70,516                |
| Public Safety                     | -                                       | -  |                             | -                     |
| Facilities Maintenance            | 13,266                                  | 13,266   |                             | 13,266                |
| Data Processing                   | 143,888                                 | 143,888  |                             | 143,888               |
| Mileage Allowance                 | 2,000                                   | 2,000  |                             | 2,000                 |
| Gasoline & Vehicle Allowance      | 7,508                                   | 7,508  |                             | 7,508                 |
| Repairs & Maintenance             | 1,200                                   | 1,200  |                             | 1,200                 |
| Regulatory Expense                | 10,000                                  | 10,000   |                             | 10,000                |
| Regulatory Assessment             | 48,096                                  | 48,096   |                             | 48,096                |
| Office Supplies                   | 20,000                                  | 20,000   |                             | 20,000                |
| Self Insurance                    | 10,000                                  | 10,000   |                             | 10,000                |
| Unemployment Claims               | 12,000                                  | 12,000   |                             | 12,000                |
| <b>Subtotal:</b>                  | <b>\$ 2,330,614</b>                     | <b>\$ 2,330,614</b>                                | <b>\$ -</b>                 | <b>\$ 2,330,614</b>   |

|                                    | Rate Year<br>Approved in<br>Docket 4243 | Test Year<br>FY 2013<br>Approved in<br>Docket 4243 | Adjustments<br>To Test Year | Proposed Rate<br>Year |
|------------------------------------|---|--|-----------------------------|-----------------------|
| <b>Customer Service</b>            |   |  |                             |                       |
| Salaries & Wages                   | \$ 256,335                              | \$ 256,335   |                             | \$ 256,335            |
| Overtime                           | 10,200                                  | 10,200   |                             | 10,200                |
| Collections                        | -                                       | -  |                             | -                     |
| Temp Salaries                      | 10,200                                  | 10,200   |                             | 10,200                |
| Injury Pay                         | -                                       | -  |                             | -                     |
| Employee Benefits                  | 168,793                                 | 168,793  |                             | 168,793               |
| Annual Leave Buyback               | 5,000                                   | 5,000  |                             | 5,000                 |
| Copying & binding                  | 500                                     | 500  |                             | 500                   |
| Conferences & Training             | 5,000                                   | 5,000  |                             | 5,000                 |
| Support Services                   | 26,002                                  | 26,002   |                             | 26,002                |
| Postage                            | 31,706                                  | 31,706   |                             | 31,706                |
| Gasoline & Vehicle Allowance       | 33,421                                  | 33,421   |                             | 33,421                |
| Repairs & Maintenance              | 40,000                                  | 40,000   |                             | 40,000                |
| Meter Maintenance                  | 10,000                                  | 10,000   |                             | 10,000                |
| Operating Supplies                 | 5,000                                   | 5,000  |                             | 5,000                 |
| Uniforms & protective Gear         | 1,000                                   | 1,000  |                             | 1,000                 |
| Customer Service Supplies          | 10,343                                  | 10,343   |                             | 10,343                |
| <b>Subtotal:</b>                   | <b>\$ 613,500</b>                       | <b>\$ 613,500</b>                                  | <b>\$ -</b>                 | <b>\$ 613,500</b>     |
| <b>Source of Supply - Island</b>   |   |  |                             |                       |
| Salaries & Wages                   | \$ 258,897                              | \$ 258,897   |                             | \$ 258,897            |
| Overtime                           | 28,903                                  | 28,903   |                             | 28,903                |
| Temp Salaries                      | 10,000                                  | 10,000   |                             | 10,000                |
| Injury Pay                         | -                                       | -  |                             | -                     |
| Employee Benefits                  | 134,334                                 | 134,334  |                             | 134,334               |
| Annual Leave Buyback               | 6,300                                   | 6,300  |                             | 6,300                 |
| Electricity                        | 42,108                                  | 42,108   |                             | 42,108                |
| Gas/Vehicle Maintenance            | 58,648                                  | 58,648   |                             | 58,648                |
| Repairs & Maintenance              | 7,425                                   | 7,425  |                             | 7,425                 |
| Reservoir Maintenance              | 16,000                                  | 16,000   |                             | 16,000                |
| Operating Supplies                 | 7,750                                   | 7,750  |                             | 7,750                 |
| Uniforms & protective Gear         | 700                                     | 700  |                             | 700                   |
| Chemicals                          | 72,735                                  | 72,735   |                             | 72,735                |
| <b>Subtotal:</b>                   | <b>\$ 643,800</b>                       | <b>\$ 643,800</b>                                  | <b>\$ -</b>                 | <b>\$ 643,800</b>     |
| <b>Source of Supply - Mainland</b> |   |  |                             |                       |
| Overtime                           | \$ 4,617                                | \$ 4,617   |                             | \$ 4,617              |
| Temp Salaries                      | 13,000                                  | 13,000   |                             | 13,000                |
| Permanent Part time                | 15,264                                  | 15,264   |                             | 15,264                |
| Employee Benefits                  | 2,525                                   | 2,525  |                             | 2,525                 |
| Electricity                        | 120,189                                 | 120,189  |                             | 120,189               |
| Repairs & Maintenance              | 7,200                                   | 7,200  |                             | 7,200                 |
| Reservoir Maintenance              | 4,500                                   | 4,500  |                             | 4,500                 |
| Operating Supplies                 | 630                                     | 630  |                             | 630                   |
| <b>Subtotal:</b>                   | <b>\$ 167,925</b>                       | <b>\$ 167,925</b>                                  | <b>\$ -</b>                 | <b>\$ 167,925</b>     |

|                            | Rate Year<br>Approved in<br>Docket 4243 | Test Year<br>FY 2013<br>Approved in<br>Docket 4243 | Adjustments<br>To Test Year | Proposed Rate<br>Year |
|----------------------------|---|--|-----------------------------|-----------------------|
| <b>Station One</b>         |   |  |                             |                       |
| Salaries & Wages           | \$446,983                               | \$446,983  |                             | \$446,983             |
| Overtime                   | 60,021                                  | 60,021   |                             | 60,021                |
| Holiday Pay                | 17,045                                  | 17,045   |                             | 17,045                |
| Employee Benefits          | \$278,523                               | \$278,523  |                             | \$278,523             |
| Annual Leave Buyback       | 5,000                                   | 5,000  |                             | 5,000                 |
| Conferences & Training     | 4,500                                   | 4,500  |                             | 4,500                 |
| Fire & Liability Insurance | 12,687                                  | 12,687   |                             | 12,687                |
| Electricity                | \$252,674                               | \$252,674  |                             | \$252,674             |
| Natural Gas                | 24,250                                  | 24,250   |                             | 24,250                |
| Rental of Equipment        | 600                                     | 600  |                             | 600                   |
| Sewer Charge               | 293,020                                 | 293,020  |                             | 293,020               |
| Gas/Vehicle Maintenance    | 7,583                                   | 7,583  |                             | 7,583                 |
| Repairs & Maintenance      | \$25,000                                | \$25,000   |                             | \$25,000              |
| Operating Supplies         | \$25,210                                | \$25,210   |                             | \$25,210              |
| Uniforms & protective Gear | 1,062                                   | 1,062  |                             | 1,062                 |
| Station One Pumping        | \$22,428                                | \$22,428   |                             | \$22,428              |
| Chemicals                  | 354,210                                 | 354,210  |                             | 354,210               |
| <b>Subtotal:</b>           | <b>\$ 1,830,796</b>                     | <b>\$ 1,830,796</b>                                | <b>\$ -</b>                 | <b>\$ 1,830,796</b>   |
| <b>Lawton Valley</b>       |   |  |                             |                       |
| Salaries & Wages           | \$459,704                               | \$459,704  |                             | \$459,704             |
| Overtime                   | 37,657                                  | 37,657   |                             | 37,657                |
| Holiday Pay                | 16,760                                  | 16,760   |                             | 16,760                |
| Employee Benefits          | \$287,143                               | \$287,143  |                             | \$287,143             |
| Annual Leave Buyback       | 3,966                                   | 3,966  |                             | 3,966                 |
| Conferences & Training     | 3,000                                   | 3,000  |                             | 3,000                 |
| Fire & Liability Insurance | 18,614                                  | 18,614   |                             | 18,614                |
| Electricity                | \$132,551                               | \$132,551  |                             | \$132,551             |
| Natural Gas                | 29,909                                  | 29,909   |                             | 29,909                |
| Rental of Equipment        | 500                                     | 500  |                             | 500                   |
| Sewer Charge               | 360,640                                 | 360,640  |                             | 360,640               |
| Gas/Vehicle Maintenance    | 7,882                                   | 7,882  |                             | 7,882                 |
| Repairs & Maintenance      | \$34,048                                | \$34,048   |                             | \$34,048              |
| Operating Supplies         | \$18,475                                | \$18,475   |                             | \$18,475              |
| Uniforms & protective Gear | 1,542                                   | 1,542  |                             | 1,542                 |
| LV Pumping                 | \$31,646                                | \$31,646   |                             | \$31,646              |
| Chemicals                  | 169,977                                 | 169,977  |                             | 169,977               |
| <b>Subtotal:</b>           | <b>\$ 1,614,015</b>                     | <b>\$ 1,614,015</b>                                | <b>\$ -</b>                 | <b>\$ 1,614,015</b>   |
| <b>Laboratory</b>          |   |  |                             |                       |
| Salaries & Wages           | \$ 104,358                              | \$ 104,358   |                             | \$ 104,358            |
| Employee Benefits          | 64,208                                  | 64,208   |                             | 64,208                |
| Annual Leave Buyback       | 2,750                                   | 2,750  |                             | 2,750                 |
| Repairs & Maintenance      | 1,700                                   | 1,700  |                             | 1,700                 |
| Regulatory Assessment      | 32,000                                  | 32,000   |                             | 32,000                |
| Laboratory Supplies        | 18,684                                  | 18,684   |                             | 18,684                |
| <b>Subtotal:</b>           | <b>\$ 223,700</b>                       | <b>\$ 223,700</b>                                  | <b>\$ -</b>                 | <b>\$ 223,700</b>     |

|  | Rate Year<br>Approved in<br>Docket 4243 | Test Year<br>FY 2013<br>Approved in<br>Docket 4243 | Adjustments<br>To Test Year | Proposed Rate<br>Year |
|--|---|--|-----------------------------|-----------------------|
| <b>Transmission &amp; Distribution</b> |   |  |                             |                       |
| Salaries & Wages                       | \$ 418,161                              | \$ 418,161   |                             | \$ 418,161            |
| Overtime                               | 52,364                                  | 52,364   |                             | 52,364                |
| Temp Salaries                          | 10,000                                  | 10,000   |                             | 10,000                |
| Injury Pay                             | -                                       | -  |                             | -                     |
| Employee Benefits                      | 251,514                                 | 251,514  |                             | 251,514               |
| Annual Leave Buyback                   | 10,943                                  | 10,943   |                             | 10,943                |
| Conferences & Training                 | 4,000                                   | 4,000  |                             | 4,000                 |
| Contract Services                      | 12,430                                  | 12,430   |                             | 12,430                |
| Fire & Liability Insurance             | 18,748                                  | 18,748   |                             | 18,748                |
| Electricity                            | 18,762                                  | 18,762   |                             | 18,762                |
| Heavy Equipment Rental                 | 8,260                                   | 8,260  |                             | 8,260                 |
| Gas/Vehicle Maintenance                | 110,305                                 | 110,305  |                             | 110,305               |
| Repairs & Maintenance                  | 26,000                                  | 26,000   |                             | 26,000                |
| Main Maintenance                       | 35,000                                  | 35,000   |                             | 35,000                |
| Hydrant Maintenance                    | 35,000                                  | 35,000   |                             | 35,000                |
| Service Maintenance                    | 30,000                                  | 30,000   |                             | 30,000                |
| Operating Supplies                     | 10,000                                  | 10,000   |                             | 10,000                |
| Uniforms & protective Gear             | 1,761                                   | 1,761  |                             | 1,761                 |
| <b>Subtotal:</b>                       | <b>\$ 1,053,248</b>                     | <b>\$ 1,053,248</b>                                | <b>\$ -</b>                 | <b>\$ 1,053,248</b>   |
| <b>Fire Protection</b>                 |   |  |                             |                       |
| Repair & Maintenance - Equipment       | \$ 13,500                               | \$ 13,500  |                             | \$ 13,500             |
| <b>Subtotal:</b>                       | <b>\$ 13,500</b>                        | <b>\$ 13,500</b>                                   | <b>\$ -</b>                 | <b>\$ 13,500</b>      |
| <b>Total O&amp;M Costs</b>             | <b>\$ 8,491,098</b>                     | <b>\$ 8,491,098</b>                                | <b>\$ -</b>                 | <b>\$ 8,491,098</b>   |

|  | Rate Year<br>Approved in<br>Docket 4243 | Test Year<br>FY 2013<br>Approved in<br>Docket 4243 | Adjustments<br>To Test Year | Proposed Rate<br>Year |
|--|---|--|-----------------------------|-----------------------|
| <b>CAPITAL COSTS</b>                           |   |  |                             |                       |
| Contribution to Capital Spending Acct.         | \$ 2,500,000                            | \$ 2,500,000                                       |                             | \$ 2,500,000          |
| Contribution to Debt Service Acct.             | \$1,589,369                             | \$5,861,869  | (\$2,126,853)               | \$3,735,016           |
| <b>Total Capital Costs</b>                     | <b>\$ 4,089,369</b>                     | <b>\$ 8,361,869</b>                                | <b>\$ (2,126,853)</b>       | <b>\$ 6,235,016</b>   |
| <br>   |   |  |                             |                       |
| <b>Operating Revenue Allowance</b>             | \$ 254,733                              | \$ 254,733   |                             | \$ 254,733            |
| <br>   |   |  |                             |                       |
| <b>Total Costs before Offsets</b>              | <b>\$ 12,835,200</b>                    | <b>\$17,107,700</b>                                | <b>\$ (2,126,853)</b>       | <b>\$ 14,980,847</b>  |
| <b>OFFSETS</b>                                 |   |  |                             |                       |
| <b>Nonrate Revenues</b>                        |   |  |                             |                       |
| Sundry charges                                 | \$ 104,000                              | \$ 104,000   |                             | \$ 104,000            |
| WPC cost share on customer service             | 296,856                                 | 296,856  |                             | 296,856               |
| Middletown cost share on customer service      | 143,506                                 | 143,506  |                             | 143,506               |
| Rental of Property                             | 108,167                                 | 108,167  |                             | 108,167               |
| Water Penalty                                  | 47,500                                  | 47,500   |                             | 47,500                |
| Miscellaneous                                  | 8,600                                   | 8,600  |                             | 8,600                 |
| Investment Interest Income                     | 3,900                                   | 3,900  |                             | 3,900                 |
| Water Quality Protection Fees                  | 22,500                                  | 22,500   |                             | 22,500                |
| <b>Total Nonrate Revenues</b>                  | <b>\$ 735,029</b>                       | <b>\$ 735,029</b>                                  | <b>\$ -</b>                 | <b>\$ 735,029</b>     |
| <br>   |   |  |                             |                       |
| <b>Net Costs to Be Recovered through Rates</b> | <b>\$ 12,100,171</b>                    | <b>\$16,372,671</b>                                | <b>\$ (2,126,853)</b>       | <b>\$ 14,245,818</b>  |

Rate Year O&M costs are those approved in Docket No. 4243.

Newport Water  
 Cost Of Service Analysis  
 JDM Schedule Surrebuttal A-2  
 Cost of Service Rates and Charges

|  |        | (1)         |                 |                |          |                      |
|--|--------|-------------|-----------------|----------------|----------|----------------------|
|  |        | Docket 4243 |                 |                |          |                      |
|  |        | Rates       | Cost of Service | Proposed Rates | % Change | Projected Revenues   |
| <b>Base Charge (per bill)</b>            |        |             |                 |                |          |                      |
| Monthly                                  |        |             |                 |                |          |                      |
| 5/8                                      | \$     | 18.75       | \$ 7.7374       | \$ 7.74        | -59%     | \$10,213             |
| 3/4                                      | \$     | 18.75       | 7.8252          | 7.83           | -58%     | 6,010                |
| 1  | \$     | 18.75       | 8.5521          | 8.55           | -54%     | 16,933               |
| 1.5                                      | \$     | 18.75       | 10.3958         | 10.40          | -45%     | 22,206               |
| 2  | \$     | 18.75       | 12.1812         | 12.18          | -35%     | 31,428               |
| 3  | \$     | 18.75       | 21.9433         | 21.94          | 17%      | 13,166               |
| 4  | \$     | 18.75       | 24.5792         | 24.58          | 31%      | 3,539                |
| 5  | \$     | 18.75       | 28.0938         | 28.09          | 50%      | 337                  |
| 6  | \$     | 18.75       | 30.7297         | 30.73          | 64%      | 7,375                |
| 8  | \$     | 18.75       | 37.7588         | 37.76          | 101%     | 453                  |
| 10                                       | \$     | 18.75       | 50.4990         | 50.50          | 169%     | 606                  |
|  |        |             |                 |                |          | 112,266              |
| Quarterly                                |        |             |                 |                |          |                      |
| 5/8                                      | \$     | 18.75       | \$ 10.5721      | 10.57          | -44%     | 450,582              |
| 3/4                                      | \$     | 18.75       | 10.8357         | 10.84          | -42%     | 104,629              |
| 1  | \$     | 18.75       | 13.0164         | 13.02          | -31%     | 20,358               |
| 1.5                                      | \$     | 18.75       | 18.5476         | 18.55          | -1%      | 13,799               |
| 2  | \$     | 18.75       | 23.9037         | 23.90          | 27%      | 5,641                |
| 3  | \$     | 18.75       | 53.1900         | 53.19          | 184%     | 3,617                |
| 4  | \$     | 18.75       | 61.0977         | 61.10          | 226%     | 733                  |
| 5  | \$     | 18.75       | 71.6414         | 71.64          | 282%     | 0                    |
| 6  | \$     | 18.75       | 79.5491         | 79.55          | 324%     | 1,273                |
| 8  | \$     | 18.75       | 100.6364        | 100.64         | 437%     | 0                    |
| 10                                       | \$     | 18.75       | 138.8571        | 138.86         | 641%     | 0                    |
|  |        |             |                 |                |          | \$ 712,899           |
| <b>Volume Charge (per 1,000 gallons)</b> |        |             |                 |                |          | \$825,165            |
| Retail                                   |        |             |                 |                |          |                      |
| Residential                              | \$     | 6.43        | \$ 8.2230       | 8.22           | 28%      | 5,181,579            |
| Non-Residential                          | \$     | 6.43        | \$ 9.1703       | 9.17           | 43%      | 4,581,899            |
|  |        |             |                 |                |          | \$ 9,763,479         |
| Wholesale                                |        |             |                 |                |          |                      |
| Navy                                     | \$     | 3.9540      | \$ 5.2750       | 5.28           | 33%      | 944,078              |
| Portsmouth Water & Fire District         | \$     | 3.152       | \$ 4.1811       | 4.18           | 33%      | 1,791,691            |
|  |        |             |                 |                |          | \$ 2,735,769         |
| <b>Fire Protection</b>                   |        |             |                 |                |          |                      |
| Public (per hydrant)                     | \$     | 1,065.00    | \$ 720.03       | 720.03         | -32%     | \$ 745,236           |
| Private (by Connection Size) (2)         |        |             |                 |                |          |                      |
|  |        |             | Existing Charge |                |          |                      |
| Connection Size                          |        |             | Differential    |                |          |                      |
| <2                                       |        | \$21.00     | \$ 19.37        | \$ 19.37       | -8%      |                      |
| 2  | 6.19   | \$88.00     | \$ 81.17        | \$ 81.17       | -8%      | 325                  |
| 4  | 38.32  | \$541.00    | \$ 295.04       | \$ 295.04      | -45%     | 18,292               |
| 6  | 111.31 | \$1,083.00  | \$ 708.79       | \$ 708.79      | -35%     | 173,655              |
| 8  | 237.21 | \$2,478.00  | \$ 1,422.44     | \$ 1,422.44    | -43%     | 88,191               |
| 10                                       | 426.58 | \$4,091.00  | \$ 2,495.92     | \$ 2,495.92    | -39%     | -                    |
| 12                                       | 689.04 | \$6,568.00  | \$ 3,983.72     | \$ 3,983.72    | -39%     | 7,967                |
|  |        |             |                 |                |          | \$ 288,430           |
| <b>Total Projected Rate Revenues</b>     |        |             |                 |                |          | <b>\$ 14,245,813</b> |

(1) From JDM Schedule Surrebuttal B-2, 'Allocation of Costs to Water Rate Classes'.  
 (2) From JDM Schedule Surrebuttal D-2, 'Fire Protection Accounts'.

| Customer Class                | Proposed                    |                  |                   | Proposed                     |                  |                   | Proposed                     |                  |                   | Proposed                     |                  |                   | Proposed                     |                  |                   |                              |                  |                   |         |        |
|-------------------------------|-----------------------------|------------------|-------------------|------------------------------|------------------|-------------------|------------------------------|------------------|-------------------|------------------------------|------------------|-------------------|------------------------------|------------------|-------------------|------------------------------|------------------|-------------------|---------|--------|
|                               | 5/8 Inch Meter              |                  |                   | 3/4 Inch Meter               |                  |                   | 1 Inch Meter                 |                  |                   | 1.5 Inch Meter               |                  |                   | 2 Inch Meter                 |                  |                   | 3 Inch Meter                 |                  |                   |         |        |
|                               | Bill at<br>Current<br>Rates | Dollar<br>Change | Percent<br>Change | Bill at<br>Proposed<br>Rates | Dollar<br>Change | Percent<br>Change |         |        |
| Monthly Consumption (gallons) | 1,000                       | \$25.18          | \$15.96           | -\$9.22                      | -36.6%           | \$16.05           | -\$9.13                      | -36.3%           | \$16.78           | -\$8.40                      | -33.4%           | \$18.62           | -\$6.56                      | -26.1%           | \$20.40           | -\$4.78                      | -19.0%           | \$30.17           | -\$4.99 | -19.3% |
|                               | 2,000                       | \$31.61          | \$24.18           | -\$7.43                      | -23.5%           | \$24.27           | -\$7.34                      | -23.2%           | \$25.00           | -\$6.61                      | -20.9%           | \$26.84           | -\$4.77                      | -15.1%           | \$28.63           | -\$2.98                      | -9.4%            | \$38.39           | -\$6.78 | -21.4% |
|                               | 4,000                       | \$44.47          | \$40.63           | -\$3.84                      | -8.6%            | \$40.72           | -\$3.75                      | -8.4%            | \$41.44           | -\$3.03                      | -6.8%            | \$43.29           | -\$1.18                      | -2.7%            | \$45.07           | \$0.60                       | 1.4%             | \$54.84           | \$10.37 | 23.3%  |
|                               | 5,000                       | \$50.90          | \$48.85           | -\$2.05                      | -4.0%            | \$48.94           | -\$1.96                      | -3.9%            | \$49.67           | -\$1.23                      | -2.4%            | \$51.51           | \$0.61                       | 1.2%             | \$53.30           | \$2.40                       | 4.7%             | \$63.06           | \$12.16 | 23.9%  |
|                               | 7,500                       | \$66.98          | \$69.41           | \$2.43                       | 3.6%             | \$69.50           | \$2.52                       | 3.8%             | \$70.22           | \$3.25                       | 4.9%             | \$72.07           | \$5.09                       | 7.6%             | \$73.85           | \$6.88                       | 10.3%            | \$83.62           | \$16.64 | 24.8%  |
|                               | 10,000                      | \$83.05          | \$89.97           | \$6.92                       | 8.3%             | \$90.06           | \$7.01                       | 8.4%             | \$90.78           | \$7.73                       | 9.3%             | \$92.63           | \$9.58                       | 11.1%            | \$94.41           | \$11.36                      | 13.7%            | \$104.17          | \$21.12 | 25.4%  |
|                               | 15,000                      | \$115.20         | \$131.08          | \$15.88                      | 13.8%            | \$131.17          | \$15.97                      | 13.9%            | \$131.90          | \$16.70                      | 14.5%            | \$133.74          | \$18.54                      | 16.1%            | \$135.53          | \$20.33                      | 17.6%            | \$145.29          | \$30.09 | 26.1%  |
|                               | 20,000                      | \$147.35         | \$172.20          | \$24.85                      | 16.9%            | \$172.29          | \$24.94                      | 16.9%            | \$173.01          | \$25.66                      | 17.4%            | \$174.86          | \$27.51                      | 18.7%            | \$176.64          | \$28.29                      | 19.9%            | \$186.40          | \$39.05 | 26.5%  |
|                               | 25,000                      | \$179.50         | \$213.31          | \$33.81                      | 18.8%            | \$213.40          | \$33.90                      | 18.9%            | \$214.13          | \$34.63                      | 19.3%            | \$215.97          | \$36.47                      | 20.3%            | \$217.76          | \$38.26                      | 21.3%            | \$227.52          | \$48.02 | 26.8%  |
|                               | 30,000                      | \$211.65         | \$254.43          | \$42.78                      | 20.2%            | \$254.52          | \$42.87                      | 20.3%            | \$255.24          | \$43.59                      | 20.6%            | \$257.09          | \$45.44                      | 21.5%            | \$258.87          | \$47.22                      | 22.3%            | \$268.63          | \$56.98 | 26.9%  |

Residential(Quarterly)

|        |          |          |          |        |          |          |        |          |          |        |          |          |       |          |          |       |          |          |        |
|--------|----------|----------|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|-------|----------|----------|-------|----------|----------|--------|
| 1,000  | \$25.18  | \$18.80  | -\$6.38  | -25.4% | \$19.06  | -\$6.12  | -24.3% | \$21.24  | -\$3.94  | -15.6% | \$26.77  | \$1.59   | 6.3%  | \$32.13  | \$6.95   | 27.6% | \$61.41  | \$36.23  | 143.9% |
| 2,000  | \$31.61  | \$27.02  | -\$4.59  | -14.5% | \$27.28  | -\$4.33  | -13.7% | \$29.46  | -\$2.15  | -6.8%  | \$34.99  | \$3.38   | 10.7% | \$40.35  | \$8.74   | 27.6% | \$69.64  | \$38.03  | 120.3% |
| 3,000  | \$38.04  | \$35.24  | -\$2.80  | -7.4%  | \$35.50  | -\$2.54  | -6.7%  | \$37.69  | -\$0.35  | -0.9%  | \$43.22  | \$5.18   | 13.6% | \$48.57  | \$10.53  | 27.7% | \$77.86  | \$39.82  | 104.7% |
| 4,000  | \$44.47  | \$43.46  | -\$1.01  | -2.3%  | \$43.73  | -\$0.74  | -1.7%  | \$45.91  | \$1.44   | 3.2%   | \$51.44  | \$6.97   | 15.7% | \$56.80  | \$12.33  | 27.7% | \$86.08  | \$41.61  | 93.6%  |
| 5,000  | \$50.90  | \$51.69  | \$0.79   | 1.5%   | \$51.95  | \$1.05   | 2.1%   | \$54.13  | \$3.23   | 6.3%   | \$59.66  | \$8.76   | 17.2% | \$65.02  | \$14.12  | 27.7% | \$94.31  | \$43.41  | 85.3%  |
| 10,000 | \$115.20 | \$133.92 | \$18.72  | 16.2%  | \$134.18 | \$18.98  | 16.5%  | \$136.36 | \$2.16   | 1.8%   | \$141.89 | \$26.69  | 23.2% | \$147.25 | \$32.05  | 27.8% | \$176.54 | \$61.34  | 53.2%  |
| 15,000 | \$147.35 | \$199.40 | \$52.05  | 35.3%  | \$199.67 | \$52.32  | 35.4%  | \$201.85 | \$25.18  | 12.5%  | \$211.93 | \$107.38 | 26.5% | \$217.28 | \$112.73 | 27.9% | \$246.57 | \$142.02 | 35.1%  |
| 20,000 | \$179.50 | \$243.15 | \$65.65  | 36.6%  | \$243.41 | \$66.91  | 36.7%  | \$245.86 | \$137.71 | 25.8%  | \$267.39 | \$143.24 | 26.9% | \$268.74 | \$148.59 | 27.9% | \$311.03 | \$177.88 | 33.4%  |
| 25,000 | \$211.65 | \$297.33 | \$85.68  | 40.5%  | \$297.60 | \$86.95  | 40.6%  | \$300.07 | \$173.57 | 26.2%  | \$325.32 | \$179.10 | 27.1% | \$326.66 | \$184.45 | 27.9% | \$375.49 | \$213.74 | 32.3%  |
| 30,000 | \$254.43 | \$354.43 | \$100.00 | 39.3%  | \$354.43 | \$100.00 | 39.3%  | \$354.43 | \$100.00 | 39.3%  | \$354.43 | \$100.00 | 39.3% | \$354.43 | \$100.00 | 39.3% | \$354.43 | \$100.00 | 39.3%  |

Commercial (Monthly)

| Customer Class                | Proposed                    |                  |                   | Proposed                     |                  |                   | Proposed                     |                  |                   | Proposed                     |                  |                   | Proposed                     |                  |                   | Proposed                     |                  |                   |          |        |
|-------------------------------|-----------------------------|------------------|-------------------|------------------------------|------------------|-------------------|------------------------------|------------------|-------------------|------------------------------|------------------|-------------------|------------------------------|------------------|-------------------|------------------------------|------------------|-------------------|----------|--------|
|                               | 5/8 Inch Meter              |                  |                   | 3/4 Inch Meter               |                  |                   | 1 Inch Meter                 |                  |                   | 1.5 Inch Meter               |                  |                   | 2 Inch Meter                 |                  |                   | 3 Inch Meter                 |                  |                   |          |        |
|                               | Bill at<br>Current<br>Rates | Dollar<br>Change | Percent<br>Change | Bill at<br>Proposed<br>Rates | Dollar<br>Change | Percent<br>Change |          |        |
| Monthly Consumption (gallons) | 2,000                       | \$31.61          | \$26.08           | -\$5.53                      | -17.5%           | \$26.17           | -\$5.44                      | -17.2%           | \$26.89           | -\$4.72                      | -14.9%           | \$28.74           | -\$2.87                      | -9.1%            | \$30.52           | -\$1.09                      | -3.4%            | \$40.28           | -\$8.67  | -27.4% |
|                               | 5,000                       | \$50.90          | \$53.59           | \$2.69                       | 5.3%             | \$53.68           | \$2.78                       | 5.5%             | \$54.40           | \$3.50                       | 6.9%             | \$56.25           | \$5.35                       | 10.5%            | \$58.03           | \$7.13                       | 14.0%            | \$67.79           | \$16.89  | 33.2%  |
|                               | 10,000                      | \$83.05          | \$99.44           | \$16.39                      | 19.7%            | \$99.53           | \$16.48                      | 19.8%            | \$100.25          | \$17.20                      | 20.7%            | \$102.10          | \$19.05                      | 22.9%            | \$103.88          | \$20.83                      | 25.1%            | \$113.65          | \$30.60  | 36.8%  |
|                               | 25,000                      | \$179.50         | \$236.99          | \$57.49                      | 32.0%            | \$237.08          | \$57.58                      | 32.1%            | \$237.81          | \$58.31                      | 32.5%            | \$239.65          | \$60.15                      | 33.5%            | \$241.44          | \$61.94                      | 34.5%            | \$251.20          | \$71.70  | 39.9%  |
|                               | 30,000                      | \$211.65         | \$282.85          | \$71.20                      | 33.6%            | \$282.93          | \$71.28                      | 33.7%            | \$283.66          | \$72.01                      | 34.0%            | \$285.50          | \$73.85                      | 34.9%            | \$287.29          | \$75.64                      | 35.7%            | \$297.05          | \$85.40  | 40.4%  |
|                               | 40,000                      | \$275.95         | \$374.55          | \$98.60                      | 35.7%            | \$374.64          | \$98.69                      | 35.8%            | \$375.36          | \$99.41                      | 36.0%            | \$377.21          | \$101.26                     | 36.7%            | \$378.99          | \$103.04                     | 37.3%            | \$388.75          | \$112.80 | 40.9%  |
|                               | 50,000                      | \$340.25         | \$466.25          | \$126.00                     | 37.0%            | \$466.34          | \$126.09                     | 37.1%            | \$467.07          | \$126.82                     | 37.3%            | \$468.91          | \$128.66                     | 37.8%            | \$470.69          | \$130.44                     | 38.3%            | \$480.46          | \$140.21 | 41.2%  |
|                               | 75,000                      | \$501.00         | \$695.51          | \$194.51                     | 38.8%            | \$695.60          | \$194.60                     | 38.8%            | \$696.32          | \$195.32                     | 39.0%            | \$698.17          | \$197.17                     | 39.4%            | \$699.95          | \$198.95                     | 39.7%            | \$709.71          | \$208.71 | 41.7%  |
|                               | 100,000                     | \$661.75         | \$924.76          | \$263.01                     | 39.7%            | \$924.85          | \$263.10                     | 39.8%            | \$925.58          | \$263.83                     | 39.9%            | \$927.42          | \$265.67                     | 40.1%            | \$929.21          | \$267.46                     | 40.4%            | \$938.97          | \$277.22 | 41.9%  |

Commercial with 6" Fire Connection(Monthly Account)

|                              |            |            |            |           |            |            |           |            |            |           |            |            |           |            |            |           |            |            |           |        |
|------------------------------|------------|------------|------------|-----------|------------|------------|-----------|------------|------------|-----------|------------|------------|-----------|------------|------------|-----------|------------|------------|-----------|--------|
| Annual Consumption (gallons) | 120,000    | \$996.60   | \$1,193.28 | \$196.68  | 19.7%      | \$1,194.34 | \$197.74  | 19.8%      | \$1,203.06 | \$206.46  | 20.7%      | \$1,225.18 | \$228.58  | 22.9%      | \$1,246.61 | \$250.01  | 25.1%      | \$1,363.75 | \$367.15  | 36.8%  |
|                              |            | \$1,083.00 | \$708.79   | -\$374.21 | -34.6%     | \$708.79   | -\$374.21 | -34.6%     | \$708.79   | -\$374.21 | -34.6%     | \$708.79   | -\$374.21 | -34.6%     | \$708.79   | -\$374.21 | -34.6%     | \$708.79   | -\$374.21 | -34.6% |
| Total Annual Charges         | \$2,079.60 | \$1,902.08 | -\$177.52  | -8.5%     | \$1,903.13 | -\$176.47  | -8.5%     | \$1,911.85 | -\$167.75  | -8.1%     | \$1,933.98 | -\$145.62  | -7.0%     | \$1,955.40 | -\$124.20  | -6.0%     | \$2,072.55 | -\$7.05    | -0.3%     |        |

| Customer Class              | Monthly Consumption (gallons) | Bill at Current Rates | Proposed               |               |                |
|-----------------------------|-------------------------------|-----------------------|------------------------|---------------|----------------|
|                             |                               |                       | Bill at Proposed Rates | Dollar Change | Percent Change |
| <b>Portsmouth (Monthly)</b> |                               |                       |                        |               |                |
|                             | 10,000,000                    | \$31,539              | \$41,836               | \$10,297      | 32.6%          |
|                             | 20,000,000                    | \$63,059              | \$83,647               | \$20,588      | 32.6%          |
|                             | 38,000,000                    | \$119,795             | \$158,907              | \$39,113      | 32.6%          |
|                             | 40,000,000                    | \$126,099             | \$167,270              | \$41,171      | 32.6%          |
|                             | 75,000,000                    | \$236,419             | \$313,609              | \$77,190      | 32.6%          |
|                             | 100,000,000                   | \$315,219             | \$418,137              | \$102,918     | 32.6%          |
|                             | 150,000,000                   | \$472,819             | \$627,193              | \$154,374     | 32.6%          |
| <b>Navy (Monthly)</b>       |                               |                       |                        |               |                |
|                             | 10,000,000                    | \$39,559              | \$53,054               | \$13,496      | 34.1%          |
|                             | 20,000,000                    | \$79,099              | \$105,805              | \$26,706      | 33.8%          |
|                             | 38,000,000                    | \$150,252             | \$200,755              | \$50,503      | 33.6%          |
|                             | 50,000,000                    | \$197,719             | \$264,056              | \$66,337      | 33.6%          |
|                             | 75,000,000                    | \$296,569             | \$395,932              | \$99,363      | 33.5%          |
|                             | 100,000,000                   | \$395,419             | \$527,807              | \$132,389     | 33.5%          |

Newport Water Division  
 Cost Of Service Analysis  
 JDM Schedule Surrebuttal A-4  
 Revenue Proof

|   | Rate Year Revenue      |                        |
|---|------------------------|------------------------|
|   | Existing Rates         | Proposed Rates         |
| <b>REVENUES</b>                           |                        |                        |
| <b>Water Rates</b>                        |                        |                        |
| Base Charge (Billing Charge)              | \$ 1,213,500           | \$ 712,899             |
| Volume Charge                             |                        |                        |
| Residential                               | 4,051,749              | 5,181,579              |
| Commercial                                | 3,212,730              | 4,581,899              |
| Navy                                      | 707,651                | 944,078                |
| Portsmouth Water & Fire District          | 1,350,692              | 1,791,691              |
| Fire Protection                           |                        |                        |
| Public                                    | 1,102,275              | 745,236                |
| Private                                   | 466,001                | 288,430                |
| Total Rate Revenues                       | \$ 12,104,598          | \$ 14,245,813          |
| <b>Other Operating Revenues</b>           |                        |                        |
| Sundry charges                            | \$ 104,000             | 104,000                |
| WPC cost share on customer service        | \$ 296,856             | 296,856                |
| Middletown cost share on customer service | \$ 143,506             | 143,506                |
| Rental of Property                        | \$ 108,167             | 108,167                |
| Total Other Operating Revenues            | \$ 652,529             | 652,529                |
| <b>Total Operating Revenues</b>           | <b>\$ 12,757,127</b>   | <b>\$ 14,898,342</b>   |
| Add: Non-Operating Revenues               |                        |                        |
| Water Penalty                             | 47,500                 | 47,500                 |
| Miscellaneous                             | 8,600                  | 8,600                  |
| Investment Interest Income                | 3,900                  | 3,900                  |
| Water Quality Protection Fees             | 22,500                 | 22,500                 |
| <b>Total Non Operating Revenues</b>       | <b>\$ 82,500</b>       | <b>\$ 82,500</b>       |
| <b>Total Revenues</b>                     | <b>\$ 12,839,627</b>   | <b>\$ 14,980,842</b>   |
| <b>COSTS</b>                              |                        |                        |
| <b>Departmental O&amp;M</b>               | <b>\$ (8,491,098)</b>  | <b>(8,491,098)</b>     |
| <b>Capital Costs</b>                      |                        |                        |
| Contribution to Capital Spending Acct.    | (2,500,000)            | (2,500,000)            |
| Contribution to Debt Service Acct.        | (3,735,016)            | (\$3,735,016)          |
| <b>Total Capital Costs</b>                | <b>\$ (6,235,016)</b>  | <b>(6,235,016)</b>     |
| <b>Operating Revenue Allowance</b>        | <b>(254,733)</b>       | <b>(254,733)</b>       |
| <b>Total Costs</b>                        | <b>\$ (14,980,847)</b> | <b>\$ (14,980,847)</b> |
| <b>Revenue Surplus (Deficit)</b>          | <b>\$ (2,141,220)</b>  | <b>(5)</b>             |

| Rate Year    | Allocation Notes                       | Base | Max Day | Max Hour | Metering | Billing | Services | Fire | Total % Allocated |
|--------------|--|------|---------|----------|----------|---------|----------|------|-------------------|
| \$ 273,889   | Non Admin less electricity & chemicals | 64%  | 20%     | 3%       | 5%       | 5%      | 2%       | 1%   | 100%              |
| \$ -         | Non Admin less electricity & chemicals | 64%  | 20%     | 3%       | 5%       | 5%      | 2%       | 1%   | 100%              |
| \$ -         | Non Admin less electricity & chemicals | 64%  | 20%     | 3%       | 5%       | 5%      | 2%       | 1%   | 100%              |
| \$ -         | Non Admin less electricity & chemicals | 64%  | 20%     | 3%       | 5%       | 5%      | 2%       | 1%   | 100%              |
| \$ -         | Non Admin less electricity & chemicals | 64%  | 20%     | 3%       | 5%       | 5%      | 2%       | 1%   | 100%              |
| \$ 12,500    | Non Admin less electricity & chemicals | 64%  | 20%     | 3%       | 5%       | 5%      | 2%       | 1%   | 100%              |
| \$ 175,000   | Non-Administrative Wages & Salaries    | 59%  | 25%     | 4%       | 6%       | 5%      | 2%       | 0%   | 100%              |
| \$ 128,202   | Non Admin less electricity & chemicals | 64%  | 20%     | 3%       | 5%       | 5%      | 2%       | 1%   | 100%              |
| \$ 514,000   | Non-Administrative Wages & Salaries    | 59%  | 25%     | 4%       | 6%       | 5%      | 2%       | 0%   | 100%              |
| \$ 85,000    | Non-Administrative Wages & Salaries    | 59%  | 25%     | 4%       | 6%       | 5%      | 2%       | 0%   | 100%              |
| \$ 2,400     | Non Admin less electricity & chemicals | 64%  | 20%     | 3%       | 5%       | 5%      | 2%       | 1%   | 100%              |
| \$ 1,190,991 |  |      |         |          |          |         |          |      |                   |

**Operation & Maintenance Costs**

- Administration
- Salaries, Wages, & Benefits
- Salaries & Wages
- AFSCME retro
- NEA retro
- AFSCME benefits on retro pay
- NEA benefits on retro pay
- Standby Salaries
- Accrued Benefits Buyout
- Employee Benefits
- Retiree Insurance Coverage
- Workers Compensation
- Annual Leave Buyback
- Subtotal

| Rate Year | Allocation Notes                       | Base      | Max Day | Max Hour | Metering | Billing | Services | Fire | Total % Allocated |
|-----------|--|-----------|---------|----------|----------|---------|----------|------|-------------------|
|           | All Other Administrative Costs         |           |         |          |          |         |          |      |                   |
|           | Advertisement                          | 9,000     |         |          |          |         |          |      |                   |
|           | Membership Dues & Subscriptions        | 2,500     |         |          |          |         |          |      |                   |
|           | Conferences & Training                 | 4,000     |         |          |          |         |          |      |                   |
|           | Tuition Reimbursement                  | 2,000     |         |          |          |         |          |      |                   |
|           | Consultant Fees                        | 233,033   |         |          |          |         |          |      |                   |
|           | Postage                                | 1,000     |         |          |          |         |          |      |                   |
|           | Fire & Liability Insurance             | 76,468    |         |          |          |         |          |      |                   |
|           | Telephone & Communication              | 5,500     |         |          |          |         |          |      |                   |
|           | Water                                  | 1,942     |         |          |          |         |          |      |                   |
|           | Electricity                            | 5,805     |         |          |          |         |          |      |                   |
|           | Natural Gas                            | 7,252     |         |          |          |         |          |      |                   |
|           | Property Taxes                         | 226,774   |         |          |          |         |          |      |                   |
|           | Legal & Administrative                 | -         |         |          |          |         |          |      |                   |
|           | Audit Fees                             | 4,349     |         |          |          |         |          |      |                   |
|           | OPEB Contribution                      | -         |         |          |          |         |          |      |                   |
|           | City Counsel                           | 4,649     |         |          |          |         |          |      |                   |
|           | Citizens Survey                        | -         |         |          |          |         |          |      |                   |
|           | City Clerk                             | 3,381     |         |          |          |         |          |      |                   |
|           | City Manager                           | 54,131    |         |          |          |         |          |      |                   |
|           | Human Resources                        | 30,121    |         |          |          |         |          |      |                   |
|           | City Solicitor                         | 20,459    |         |          |          |         |          |      |                   |
|           | Finance Administrative 80%             | 19,822    |         |          |          |         |          |      |                   |
|           | Finance Administrative 5%              | 7,020     |         |          |          |         |          |      |                   |
|           | Purchasing                             | 18,314    |         |          |          |         |          |      |                   |
|           | Assessment                             | 5,973     |         |          |          |         |          |      |                   |
|           | Collections                            | 46,979    |         |          |          |         |          |      |                   |
|           | Accounting 5%                          | 10,679    |         |          |          |         |          |      |                   |
|           | Accounting                             | 70,516    |         |          |          |         |          |      |                   |
|           | Public Safety                          | -         |         |          |          |         |          |      |                   |
|           | Facilities Maintenance                 |           |         |          |          |         |          |      |                   |
|           | Data Processing                        | 13,266    |         |          |          |         |          |      |                   |
|           | Mileage Allowance                      | 143,888   |         |          |          |         |          |      |                   |
|           | Gasoline & Vehicle Allowance           | 2,000     |         |          |          |         |          |      |                   |
|           | Repairs & Maintenance                  | 7,508     |         |          |          |         |          |      |                   |
|           | Regulatory Expense                     | 1,200     |         |          |          |         |          |      |                   |
|           | Regulatory Assessment                  | 10,000    |         |          |          |         |          |      |                   |
|           | Office Supplies                        | 48,096    |         |          |          |         |          |      |                   |
|           | Self Insurance                         | 20,000    |         |          |          |         |          |      |                   |
|           | Unemployment Claims                    | 12,000    |         |          |          |         |          |      |                   |
|           | Subtotal                               | 1,139,623 |         |          |          |         |          |      |                   |
|           | Non Admin less electricity & chemicals | 64%       | 20%     | 3%       | 5%       | 5%      | 2%       | 1%   | 100%              |
|           | Non Admin less electricity & chemicals | 64%       | 20%     | 3%       | 5%       | 5%      | 2%       | 1%   | 100%              |
|           | Non Admin less electricity & chemicals | 64%       | 20%     | 3%       | 5%       | 5%      | 2%       | 1%   | 100%              |
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|           | Non Admin less electricity & chemicals | 64%       | 20%     | 3%       | 5%       | 5%      | 2%       | 1%   | 100%              |
|           | Non Admin less electricity & chemicals | 64%       | 20%     | 3%       | 5%       | 5%      | 2%       | 1%   | 100%              |
|           | Total Non-Admin Costs Before Offsets   | 67%       | 22%     | 4%       | 2%       | 4%      | 1%       | 1%   | 100%              |
|           | Total Non-Admin Costs Before Offsets   | 67%       | 22%     | 4%       | 2%       | 4%      | 1%       | 1%   | 100%              |
|           | Total Non-Admin Costs Before Offsets   | 67%       | 22%     | 4%       | 2%       | 4%      | 1%       | 1%   | 100%              |
|           | Total Non-Admin Costs Before Offsets   | 67%       | 22%     | 4%       | 2%       | 4%      | 1%       | 1%   | 100%              |
|           | Total Non-Admin Costs Before Offsets   | 67%       | 22%     | 4%       | 2%       | 4%      | 1%       | 1%   | 100%              |
|           | Non-Administrative Wages & Salaries    | 59%       | 25%     | 4%       | 6%       | 5%      | 2%       | 0%   | 100%              |
|           | Total Non-Admin Costs Before Offsets   | 67%       | 22%     | 4%       | 2%       | 4%      | 1%       | 1%   | 100%              |
|           | Total Non-Admin Costs Before Offsets   | 67%       | 22%     | 4%       | 2%       | 4%      | 1%       | 1%   | 100%              |
|           | Total Non-Admin Costs Before Offsets   | 67%       | 22%     | 4%       | 2%       | 4%      | 1%       | 1%   | 100%              |
|           | Total Non-Admin Costs Before Offsets   | 67%       | 22%     | 4%       | 2%       | 4%      | 1%       | 1%   | 100%              |
|           | Capital Costs                          | 64%       | 27%     | 5%       | 0%       | 3%      | 0%       | 1%   | 100%              |
|           | 100% Billing                           | 0%        | 0%      | 0%       | 0%       | 100%    | 0%       | 0%   | 100%              |
|           | Total Non-Admin Costs Before Offsets   | 67%       | 22%     | 4%       | 2%       | 4%      | 1%       | 1%   | 100%              |
|           | Non-Administrative Wages & Salaries    | 59%       | 25%     | 4%       | 6%       | 5%      | 2%       | 0%   | 100%              |
|           | Total Non-Admin Costs Before Offsets   | 67%       | 22%     | 4%       | 2%       | 4%      | 1%       | 1%   | 100%              |
|           | Total Non-Admin Costs Before Offsets   | 67%       | 22%     | 4%       | 2%       | 4%      | 1%       | 1%   | 100%              |
|           | Total Non-Admin Costs Before Offsets   | 64%       | 20%     | 3%       | 5%       | 5%      | 2%       | 1%   | 100%              |
|           | Total Non-Admin Costs Before Offsets   | 64%       | 20%     | 3%       | 5%       | 5%      | 2%       | 1%   | 100%              |
|           | Non Admin less electricity & chemicals | 64%       | 20%     | 3%       | 5%       | 5%      | 2%       | 1%   | 100%              |
|           | Non Admin less electricity & chemicals | 64%       | 20%     | 3%       | 5%       | 5%      | 2%       | 1%   | 100%              |
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|           | Non Admin less electricity & chemicals | 64%       | 20%     | 3%       | 5%       | 5%      | 2%       | 1%   | 100%              |

| Rate Year           | Allocation Notes                                    | Base | Max Day | Max Hour | Metering | Billing | Services | Fire | Total % Allocated |
|---------------------|---|------|---------|----------|----------|---------|----------|------|-------------------|
| <b>2,330,614</b> x  |   |      |         |          |          |         |          |      |                   |
|                     | Customer Service                                    |      |         |          |          |         |          |      |                   |
|                     | Salaries & Wages                                    | 0%   | 0%      | 0%       | 46%      | 41%     | 13%      | 0%   | 100%              |
| 281,735             | Customer Service Salaries and Wages                 |      |         |          |          |         |          |      |                   |
| 168,793             | Customer Service Salaries and Wages                 | 0%   | 0%      | 0%       | 46%      | 41%     | 13%      | 0%   | 100%              |
| 500                 | 100% billing (based on budget analysis)             |      |         |          |          | 100%    |          |      | 100%              |
| 5,000               | 100% billing (based on budget analysis)             |      |         |          |          | 100%    |          |      | 100%              |
| 26,002              | 100% billing (software support & printing/mailling) |      |         |          |          | 100%    |          |      | 100%              |
| 31,706              | 100% billing (based on budget analysis)             |      |         |          |          | 100%    |          |      | 100%              |
| 33,421              | Customer Service Salaries and Wages                 | 0%   | 0%      | 0%       | 46%      | 41%     | 13%      | 0%   | 100%              |
| 40,000              | 100% metering (meter repairs)                       |      |         |          | 100%     |         |          |      | 100%              |
| 10,000              | 100% metering (based on budget analysis)            |      |         |          | 100%     |         |          |      | 100%              |
| 5,000               | 100% metering (based on budget analysis)            |      |         |          | 100%     |         |          |      | 100%              |
| 1,000               | 100% metering (based on budget analysis)            |      |         |          | 100%     |         |          |      | 100%              |
| 10,343              | 100% billing (based on budget analysis)             |      |         |          |          | 100%    |          |      | 100%              |
| <b>613,500</b> x    |   |      |         |          |          |         |          |      |                   |
|                     | Source of Supply - Island                           |      |         |          |          |         |          |      |                   |
|                     | Salaries & Wages                                    | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 258,897          | Average Day Demand Patterns                         |      |         |          |          |         |          |      |                   |
| \$ 28,903           | Average Day Demand Patterns                         | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 10,000           | Average Day Demand Patterns                         | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ -                | Average Day Demand Patterns                         | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 134,334          | Average Day Demand Patterns                         | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 6,300            | Average Day Demand Patterns                         | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 42,108           | Average Day Demand Patterns                         | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 58,648           | Average Day Demand Patterns                         | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 7,425            | Average Day Demand Patterns                         | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 16,000           | Average Day Demand Patterns                         | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 7,750            | Average Day Demand Patterns                         | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 700              | Average Day Demand Patterns                         | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 72,735           | Average Day Demand Patterns                         | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| <b>\$ 643,800</b> x |   |      |         |          |          |         |          |      |                   |
|                     | Source of Supply - Mainland                         |      |         |          |          |         |          |      |                   |
|                     | Overtime  | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 4,617            | Average Day Demand Patterns                         |      |         |          |          |         |          |      |                   |
| \$ 13,000           | Average Day Demand Patterns                         | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 15,264           | Average Day Demand Patterns                         | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 2,525            | Average Day Demand Patterns                         | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 120,189          | Average Day Demand Patterns                         | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 7,200            | Average Day Demand Patterns                         | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 4,500            | Average Day Demand Patterns                         | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 630              | Average Day Demand Patterns                         | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| <b>\$ 167,925</b> x |   |      |         |          |          |         |          |      |                   |

| Rate Year    | Allocation Notes             | Base | Max Day | Max Hour | Metering | Billing | Services | Fire | Total % Allocated |
|--------------|------------------------------|------|---------|----------|----------|---------|----------|------|-------------------|
| \$ 446,983   | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 60,021    | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 17,045    | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 278,523   | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 5,000     | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 4,500     | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 12,687    | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 252,674   | 100% Base                    | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 24,250    | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 600       | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 293,020   | 100% Base                    | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 7,583     | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 25,000    | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 25,210    | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 1,062     | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 22,428    | Maximum Hour Demand Patterns | 50%  | 33%     | 18%      | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 354,210   | 100% Base                    | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 1,830,796 |                              |      |         |          |          |         |          |      |                   |
| \$ 459,704   | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 37,657    | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 16,760    | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 287,143   | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 3,966     | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 3,000     | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 18,614    | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 132,551   | 100% Base                    | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 29,909    | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 500       | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 360,640   | 100% Base                    | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 7,882     | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 34,048    | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 18,475    | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 1,542     | Maximum Day Demand Patterns  | 60%  | 40%     | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 31,646    | Maximum Hour Demand Patterns | 50%  | 33%     | 18%      | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 169,977   | 100% Base                    | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 1,614,015 |                              |      |         |          |          |         |          |      |                   |

Station One (Excludes pumping and chemicals)

|                            |              |
|----------------------------|--------------|
| Salaries & Wages           | \$ 446,983   |
| Overtime                   | \$ 60,021    |
| Holiday Pay                | \$ 17,045    |
| Employee Benefits          | \$ 278,523   |
| Annual Leave Buyback       | \$ 5,000     |
| Conferences & Training     | \$ 4,500     |
| Fire & Liability Insurance | \$ 12,687    |
| Electricity                | \$ 252,674   |
| Natural Gas                | \$ 24,250    |
| Rental of Equipment        | \$ 600       |
| Sewer Charge               | \$ 293,020   |
| Gas/Vehicle Maintenance    | \$ 7,583     |
| Repairs & Maintenance      | \$ 25,000    |
| Operating Supplies         | \$ 25,210    |
| Uniforms & protective Gear | \$ 1,062     |
| Station One Pumping        | \$ 22,428    |
| Station One Chemicals      | \$ 354,210   |
| Subtotal                   | \$ 1,830,796 |

Lawton Valley (Excludes pumping and chemicals)

|                            |              |
|----------------------------|--------------|
| Salaries & Wages           | \$ 459,704   |
| Overtime                   | \$ 37,657    |
| Holiday Pay                | \$ 16,760    |
| Employee Benefits          | \$ 287,143   |
| Annual Leave Buyback       | \$ 3,966     |
| Conferences & Training     | \$ 3,000     |
| Fire & Liability Insurance | \$ 18,614    |
| Electricity                | \$ 132,551   |
| Natural Gas                | \$ 29,909    |
| Rental of Equipment        | \$ 500       |
| Sewer Charge               | \$ 360,640   |
| Gas/Vehicle Maintenance    | \$ 7,882     |
| Repairs & Maintenance      | \$ 34,048    |
| Operating Supplies         | \$ 18,475    |
| Uniforms & protective Gear | \$ 1,542     |
| Lawton Valley Pumping      | \$ 31,646    |
| Lawton Valley Chemicals    | \$ 169,977   |
| Subtotal                   | \$ 1,614,015 |

| Rate Year             | Allocation Notes             | Base | Max Day | Max Hour | Metering | Billing | Services | Fire | Total % Allocated |
|-----------------------|------------------------------|------|---------|----------|----------|---------|----------|------|-------------------|
| \$ 104,358            | 100% Base                    | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 64,208             | 100% Base                    | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 2,750              | 100% Base                    | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 1,700              | 100% Base                    | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 32,000             | 100% Base                    | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 18,684             | 100% Base                    | 100% | 0%      | 0%       | 0%       | 0%      | 0%       | 0%   | 100%              |
| <b>\$ 223,700</b> x   |                              |      |         |          |          |         |          |      |                   |
| \$ 418,161            | Maximum Hour Demand Patterns | 50%  | 33%     | 18%      | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 52,364             | Maximum Hour Demand Patterns | 50%  | 33%     | 18%      | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 10,000             | Maximum Hour Demand Patterns | 50%  | 33%     | 18%      | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ -                  | Maximum Hour Demand Patterns | 50%  | 33%     | 18%      | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 251,514            | Maximum Hour Demand Patterns | 50%  | 33%     | 18%      | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 10,943             | Maximum Hour Demand Patterns | 50%  | 33%     | 18%      | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 4,000              | Maximum Hour Demand Patterns | 50%  | 33%     | 18%      | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 12,430             | Maximum Hour Demand Patterns | 50%  | 33%     | 18%      | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 18,748             | Maximum Hour Demand Patterns | 50%  | 33%     | 18%      | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 18,762             | Maximum Hour Demand Patterns | 50%  | 33%     | 18%      | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 8,260              | Maximum Hour Demand Patterns | 50%  | 33%     | 18%      | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 110,305            | Maximum Hour Demand Patterns | 50%  | 33%     | 18%      | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 26,000             | Maximum Hour Demand Patterns | 50%  | 33%     | 18%      | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 35,000             | Maximum Hour Demand Patterns | 50%  | 33%     | 18%      | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 35,000             | 100% Fire                    | 0%   | 0%      | 0%       | 0%       | 0%      | 0%       | 100% | 100%              |
| \$ 30,000             | 100% Services                | 0%   | 0%      | 0%       | 0%       | 0%      | 100%     | 0%   | 100%              |
| \$ 10,000             | Maximum Hour Demand Patterns | 50%  | 33%     | 18%      | 0%       | 0%      | 0%       | 0%   | 100%              |
| \$ 1,761              | Maximum Hour Demand Patterns | 50%  | 33%     | 18%      | 0%       | 0%      | 0%       | 0%   | 100%              |
| <b>\$ 1,053,248</b> x |                              |      |         |          |          |         |          |      |                   |
| \$ 13,500             | 100% Fire                    | 0%   | 0%      | 0%       | 0%       | 0%      | 0%       | 100% | 100%              |
| <b>\$ 8,491,098</b>   |                              |      |         |          |          |         |          |      |                   |

Laboratory

Salaries & Wages  
 Employee Benefits  
 Annual Leave Buyback  
 Repairs & Maintenance  
 Regulatory Assessment  
 Laboratory Supplies  
 Subtotal

Transmission and Distribution

Salaries & Wages  
 Overtime  
 Temp Salaries  
 Injury Pay  
 Employee Benefits  
 Annual Leave Buyback  
 Conferences & Training  
 Contract Services  
 Fire & Liability Insurance  
 Electricity  
 Heavy Equipment Rental  
 Gas/Vehicle Maintenance  
 Repairs & Maintenance  
 Main Maintenance  
 Hydrant Maintenance  
 Service Maintenance  
 Operating Supplies  
 Uniforms & protective Gear  
 Subtotal

Fire Protection

**Total O&M Costs**

| Rate Year         |
|-------------------|
| 1,414,794         |
| 1,631,101         |
| 515,507           |
| 663,631           |
| 65,728            |
| 1,655,458         |
| 32,997            |
| 22,787            |
| 22,787            |
| 210,227           |
| <b>6,235,016</b>  |
| 254,733           |
| <b>14,980,847</b> |

**CAPITAL COSTS**

Water Supply  
 Treatment Station 1  
 Treatment Lawton Valley  
 Treatment Both Plants  
 T&D Pumping  
 T&D  
 Fire  
 Meters  
 Services  
 Billing

**Total Capital Costs**

**Revenue Allowance**

**Total Costs before Offsets**

**OFFSETS**

**Nonrate Revenues**

Sundry charges  
 WPC cost share on customer service  
 Middletown cost share on customer service  
 Rental of Property  
 Water Penalty  
 Miscellaneous  
 Investment Interest Income  
 Water Quality Protection Fees

**Total Nonrate Revenues**

**Net Costs To Recover Through Rates**

| Allocation Notes             | Base |      | Max Day |         | Max Hour |          | Metering |          | Billing |         | Services |          | Fire |      | Total % Allocated |                   |
|------------------------------|------|------|---------|---------|----------|----------|----------|----------|---------|---------|----------|----------|------|------|-------------------|-------------------|
|                              | Base | 100% | Max Day | Max Day | Max Hour | Max Hour | Metering | Metering | Billing | Billing | Services | Services | Fire | Fire | Total % Allocated | Total % Allocated |
| 100% Base                    | 100% | 100% | 0%      | 0%      | 0%       | 0%       | 0%       | 0%       | 0%      | 0%      | 0%       | 0%       | 0%   | 0%   | 100%              | 100%              |
| Maximum Day Demand Patterns  | 60%  | 60%  | 40%     | 40%     | 0%       | 0%       | 0%       | 0%       | 0%      | 0%      | 0%       | 0%       | 0%   | 0%   | 100%              | 100%              |
| Maximum Day Demand Patterns  | 60%  | 60%  | 40%     | 40%     | 0%       | 0%       | 0%       | 0%       | 0%      | 0%      | 0%       | 0%       | 0%   | 0%   | 100%              | 100%              |
| Maximum Day Demand Patterns  | 50%  | 50%  | 33%     | 33%     | 18%      | 18%      | 0%       | 0%       | 0%      | 0%      | 0%       | 0%       | 0%   | 0%   | 100%              | 100%              |
| Maximum Hour Demand Patterns | 50%  | 50%  | 33%     | 33%     | 18%      | 18%      | 0%       | 0%       | 0%      | 0%      | 0%       | 0%       | 0%   | 0%   | 100%              | 100%              |
| 100% Fire                    | 0%   | 0%   | 0%      | 0%      | 0%       | 0%       | 0%       | 0%       | 0%      | 0%      | 0%       | 0%       | 100% | 0%   | 100%              | 100%              |
| 100% Meters                  | 0%   | 0%   | 0%      | 0%      | 0%       | 0%       | 100%     | 0%       | 0%      | 0%      | 0%       | 0%       | 0%   | 0%   | 100%              | 100%              |
| 100 % Services               | 0%   | 0%   | 0%      | 0%      | 0%       | 0%       | 0%       | 0%       | 0%      | 100%    | 0%       | 0%       | 0%   | 0%   | 100%              | 100%              |
| 100% Billing                 | 0%   | 0%   | 0%      | 0%      | 0%       | 0%       | 0%       | 0%       | 100%    | 0%      | 0%       | 0%       | 0%   | 0%   | 100%              | 100%              |
| 100% base                    | 100% | 100% | 0%      | 0%      | 0%       | 0%       | 0%       | 0%       | 0%      | 0%      | 0%       | 0%       | 0%   | 0%   | 100%              | 100%              |

|                      |
|----------------------|
| 104,000              |
| 296,856              |
| 143,506              |
| 108,167              |
| 47,500               |
| 8,600                |
| 3,900                |
| 22,500               |
| <b>735,029</b>       |
| <b>\$ 14,245,818</b> |

|                              | Base    | Max Day | Max Hour | Metering | Billing | Services | Fire  | Total \$ Allocated |
|------------------------------|---------|---------|----------|----------|---------|----------|-------|--------------------|
| Administration               |         |         |          |          |         |          |       |                    |
| Salaries, Wages, & Benefits  |         |         |          |          |         |          |       |                    |
| Salaries & Wages             | 175,537 | 53,981  | 9,280    | 14,025   | 13,881  | 4,725    | 2,459 | 273,889            |
| AFSCME retro                 | -       | -       | -        | -        | -       | -        | -     | -                  |
| NEA retro                    | -       | -       | -        | -        | -       | -        | -     | -                  |
| AFSCME benefits on retro pay | -       | -       | -        | -        | -       | -        | -     | -                  |
| NEA benefits on retro pay    | -       | -       | -        | -        | -       | -        | -     | -                  |
| Standby Salaries             | 8,011   | 2,464   | 424      | 640      | 634     | 216      | 112   | 12,500             |
| Accrued Benefits Buyout      | 103,052 | 43,446  | 6,601    | 9,839    | 9,014   | 2,869    | 178   | 175,000            |
| Employee Benefits            | 82,166  | 25,268  | 4,344    | 6,565    | 6,498   | 2,211    | 1,151 | 128,202            |
| Retiree Insurance Coverage   | 302,679 | 127,607 | 19,389   | 28,900   | 26,474  | 8,427    | 523   | 514,000            |
| Workers Compensation         | 50,054  | 21,102  | 3,206    | 4,779    | 4,378   | 1,394    | 87    | 85,000             |
| Annual Leave Buyback         | 1,538   | 473     | 81       | 123      | 122     | 41       | 22    | 2,400              |
| Subtotal                     | 723,037 | 274,341 | 43,326   | 64,871   | 61,000  | 19,883   | 4,532 | 1,190,991          |

|                                       | Base    | Max Day | Max Hour | Metering | Billing | Services | Fire  | Total \$ Allocated |
|---------------------------------------|---------|---------|----------|----------|---------|----------|-------|--------------------|
| <b>All Other Administrative Costs</b> |         |         |          |          |         |          |       |                    |
| Advertisement                         | 5,768   | 1,774   | 305      | 461      | 456     | 155      | 81    | 9,000              |
| Membership Dues & Subscriptions       | 1,602   | 493     | 85       | 128      | 127     | 43       | 22    | 2,500              |
| Conferences & Training                | 2,564   | 788     | 136      | 205      | 203     | 69       | 36    | 4,000              |
| Tuition Reimbursement                 | 1,282   | 394     | 68       | 102      | 101     | 34       | 18    | 2,000              |
| Consultant Fees                       | 149,353 | 45,929  | 7,896    | 11,933   | 11,811  | 4,020    | 2,092 | 233,033            |
| Postage                               | 641     | 197     | 34       | 51       | 51      | 17       | 9     | 1,000              |
| Fire & Liability Insurance            | 49,009  | 15,071  | 2,591    | 3,916    | 3,876   | 1,319    | 687   | 76,468             |
| Telephone & Communication             | 3,525   | 1,084   | 186      | 282      | 279     | 95       | 49    | 5,500              |
| Water                                 | 1,245   | 383     | 66       | 99       | 98      | 33       | 17    | 1,942              |
| Electricity                           | 3,720   | 1,144   | 197      | 297      | 294     | 100      | 52    | 5,805              |
| Natural Gas                           | 4,648   | 1,429   | 246      | 371      | 368     | 125      | 65    | 7,252              |
| Property Taxes                        | 145,341 | 44,695  | 7,684    | 11,612   | 11,493  | 3,912    | 2,036 | 226,774            |
| Legal & Administrative                |         |         |          |          |         |          |       |                    |
| Audit Fees                            | 2,903   | 942     | 167      | 103      | 166     | 40       | 28    | 4,349              |
| OPEB Contribution                     | -       | -       | -        | -        | -       | -        | -     | -                  |
| City Counsel                          | 3,103   | 1,007   | 178      | 110      | 178     | 43       | 30    | 4,649              |
| Citizens Survey                       | -       | -       | -        | -        | -       | -        | -     | -                  |
| City Clerk                            | 2,257   | 732     | 130      | 80       | 129     | 31       | 22    | 3,381              |
| City Manager                          | 36,133  | 11,725  | 2,076    | 1,281    | 2,071   | 496      | 349   | 54,131             |
| Human Resources                       | 17,737  | 7,478   | 1,136    | 1,694    | 1,551   | 494      | 31    | 30,121             |
| City Solicitor                        | 13,657  | 4,432   | 785      | 484      | 783     | 188      | 132   | 20,459             |
| Finance Adimistrative 80%             | 13,231  | 4,294   | 760      | 469      | 758     | 182      | 128   | 19,822             |
| Finance Adimistrative 5%              | 4,686   | 1,521   | 269      | 166      | 269     | 64       | 45    | 7,020              |
| Purchasing                            | 12,225  | 3,967   | 702      | 433      | 701     | 168      | 118   | 18,314             |
| Assessment                            | 3,802   | 1,605   | 290      | 22       | 201     | 22       | 32    | 5,973              |
| Collections                           | -       | -       | -        | -        | 46,979  | -        | -     | 46,979             |
| Accounting 5%                         | 7,128   | 2,313   | 410      | 253      | 409     | 98       | 69    | 10,679             |
| Accounting                            | 41,525  | 17,506  | 2,660    | 3,965    | 3,632   | 1,156    | 72    | 70,516             |
| Public Safety                         | -       | -       | -        | -        | -       | -        | -     | -                  |
| Facilities Maintenance                | 8,855   | 2,873   | 509      | 314      | 508     | 122      | 85    | 13,266             |
| Data Processing                       | 92,219  | 28,359  | 4,875    | 7,368    | 7,293   | 2,482    | 1,292 | 143,888            |
| Mileage Allowance                     | 1,282   | 394     | 68       | 102      | 101     | 34       | 18    | 2,000              |
| Gasoline & Vehicle Allowance          | 4,812   | 1,480   | 254      | 384      | 381     | 130      | 67    | 7,508              |
| Repairs & Maintenance                 | 769     | 237     | 41       | 61       | 61      | 21       | 11    | 1,200              |
| Regulatory Expense                    | 6,409   | 1,971   | 339      | 512      | 507     | 172      | 90    | 10,000             |
| Regulatory Assessment                 | 30,825  | 9,479   | 1,630    | 2,463    | 2,438   | 830      | 432   | 48,096             |
| Office Supplies                       | 12,818  | 3,942   | 678      | 1,024    | 1,014   | 345      | 180   | 20,000             |
| Self Insurance                        | 6,409   | 1,971   | 339      | 512      | 507     | 172      | 90    | 10,000             |
| Unemployment Claims                   | 7,691   | 2,365   | 407      | 614      | 608     | 207      | 108   | 12,000             |
| Subtotal                              | 699,172 | 223,974 | 38,194   | 51,873   | 100,399 | 17,419   | 8,592 | 1,139,623          |

|                                    | Base    | Max Day | Max Hour | Metering | Billing | Services | Fire | Total \$ Allocated |
|------------------------------------|---------|---------|----------|----------|---------|----------|------|--------------------|
| <b>Customer Service</b>            |         |         |          |          |         |          |      |                    |
| Salaries & Wages                   | -       | -       | -        | 128,413  | 116,547 | 36,776   | -    | 281,735            |
| Benefits                           | -       | -       | -        | 76,935   | 69,825  | 22,033   | -    | 168,793            |
| Copying & binding                  | -       | -       | -        | -        | 500     | -        | -    | 500                |
| Conferences & Training             | -       | -       | -        | -        | 5,000   | -        | -    | 5,000              |
| Support Services                   | -       | -       | -        | -        | 26,002  | -        | -    | 26,002             |
| Postage                            | -       | -       | -        | -        | 31,706  | -        | -    | 31,706             |
| Gasoline & Vehicle Allowance       | -       | -       | -        | 15,233   | 13,825  | 4,363    | -    | 33,421             |
| Repairs & Maintenance              | -       | -       | -        | 40,000   | -       | -        | -    | 40,000             |
| Meter Maintenance                  | -       | -       | -        | 10,000   | -       | -        | -    | 10,000             |
| Operating Supplies                 | -       | -       | -        | 5,000    | -       | -        | -    | 5,000              |
| Uniforms & protective Gear         | -       | -       | -        | 1,000    | -       | -        | -    | 1,000              |
| Customer Service Supplies          | -       | -       | -        | -        | 10,343  | -        | -    | 10,343             |
| <b>Subtotal</b>                    |         |         |          |          |         |          |      |                    |
| <b>Source of Supply - Island</b>   |         |         |          |          |         |          |      |                    |
| Salaries & Wages                   | 258,897 | -       | -        | -        | -       | -        | -    | 258,897            |
| Overtime                           | 28,903  | -       | -        | -        | -       | -        | -    | 28,903             |
| Temp Salaries                      | 10,000  | -       | -        | -        | -       | -        | -    | 10,000             |
| Injury Pay                         | -       | -       | -        | -        | -       | -        | -    | -                  |
| Employee Benefits                  | 134,334 | -       | -        | -        | -       | -        | -    | 134,334            |
| Annual Leave Buyback               | 6,300   | -       | -        | -        | -       | -        | -    | 6,300              |
| Electricity                        | 42,108  | -       | -        | -        | -       | -        | -    | 42,108             |
| Gas/Vehicle Maintenance            | 58,648  | -       | -        | -        | -       | -        | -    | 58,648             |
| Repairs & Maintenance              | 7,425   | -       | -        | -        | -       | -        | -    | 7,425              |
| Reservoir Maintenance              | 16,000  | -       | -        | -        | -       | -        | -    | 16,000             |
| Operating Supplies                 | 7,750   | -       | -        | -        | -       | -        | -    | 7,750              |
| Uniforms & protective Gear         | 700     | -       | -        | -        | -       | -        | -    | 700                |
| Chemicals                          | 72,735  | -       | -        | -        | -       | -        | -    | 72,735             |
| <b>Subtotal</b>                    |         |         |          |          |         |          |      |                    |
| <b>Source of Supply - Mainland</b> |         |         |          |          |         |          |      |                    |
| Overtime                           | 4,617   | -       | -        | -        | -       | -        | -    | 4,617              |
| Temp Salaries                      | 13,000  | -       | -        | -        | -       | -        | -    | 13,000             |
| Permanent Part time                | 15,264  | -       | -        | -        | -       | -        | -    | 15,264             |
| Employee Benefits                  | 2,525   | -       | -        | -        | -       | -        | -    | 2,525              |
| Electricity                        | 120,189 | -       | -        | -        | -       | -        | -    | 120,189            |
| Repairs & Maintenance              | 7,200   | -       | -        | -        | -       | -        | -    | 7,200              |
| Reservoir Maintenance              | 4,500   | -       | -        | -        | -       | -        | -    | 4,500              |
| Operating Supplies                 | 630     | -       | -        | -        | -       | -        | -    | 630                |
| <b>Subtotal</b>                    |         |         |          |          |         |          |      |                    |

|   | Base    | Max Day | Max Hour | Metering | Billing | Services | Fire | Total \$ Allocated |
|---|---------|---------|----------|----------|---------|----------|------|--------------------|
| <b>Station One (Excludes pumping and chemicals)</b>   |         |         |          |          |         |          |      |                    |
| Salaries & Wages                                      | 269,894 | 177,089 | -        | -        | -       | -        | -    | 446,983            |
| Overtime  | 36,241  | 23,780  | -        | -        | -       | -        | -    | 60,021             |
| Holiday Pay   | 10,292  | 6,753   | -        | -        | -       | -        | -    | 17,045             |
| Employee Benefits                                     | 168,176 | 110,347 | -        | -        | -       | -        | -    | 278,523            |
| Annual Leave Buyback                                  | 3,019   | 1,981   | -        | -        | -       | -        | -    | 5,000              |
| Conferences & Training                                | 2,717   | 1,783   | -        | -        | -       | -        | -    | 4,500              |
| Fire & Liability Insurance                            | 7,661   | 5,026   | -        | -        | -       | -        | -    | 12,687             |
| Electricity   | 252,674 | -       | -        | -        | -       | -        | -    | 252,674            |
| Natural Gas   | 14,642  | 9,608   | -        | -        | -       | -        | -    | 24,250             |
| Rental of Equipment                                   | 362     | 238     | -        | -        | -       | -        | -    | 600                |
| Sewer Charge  | 293,020 | -       | -        | -        | -       | -        | -    | 293,020            |
| Gas/Vehicle Maintenance                               | 4,579   | 3,004   | -        | -        | -       | -        | -    | 7,583              |
| Repairs & Maintenance                                 | 15,095  | 9,905   | -        | -        | -       | -        | -    | 25,000             |
| Operating Supplies                                    | 15,222  | 9,988   | -        | -        | -       | -        | -    | 25,210             |
| Uniforms & protective Gear                            | 641     | 421     | -        | -        | -       | -        | -    | 1,062              |
| Station One Pumping                                   | 11,165  | 7,326   | 3,938    | -        | -       | -        | -    | 22,428             |
| Station One Chemicals                                 | 354,210 | -       | -        | -        | -       | -        | -    | 354,210            |
| Subtotal  |         |         |          |          |         |          |      |                    |
| <b>Lawton Valley (Excludes pumping and chemicals)</b> |         |         |          |          |         |          |      |                    |
| Salaries & Wages                                      | 277,575 | 182,129 | -        | -        | -       | -        | -    | 459,704            |
| Overtime  | 22,738  | 14,919  | -        | -        | -       | -        | -    | 37,657             |
| Holiday Pay   | 10,120  | 6,640   | -        | -        | -       | -        | -    | 16,760             |
| Employee Benefits                                     | 173,381 | 113,762 | -        | -        | -       | -        | -    | 287,143            |
| Annual Leave Buyback                                  | 2,395   | 1,571   | -        | -        | -       | -        | -    | 3,966              |
| Conferences & Training                                | 1,811   | 1,189   | -        | -        | -       | -        | -    | 3,000              |
| Fire & Liability Insurance                            | 11,239  | 7,375   | -        | -        | -       | -        | -    | 18,614             |
| Electricity   | 132,551 | -       | -        | -        | -       | -        | -    | 132,551            |
| Natural Gas   | 18,059  | 11,850  | -        | -        | -       | -        | -    | 29,909             |
| Rental of Equipment                                   | 302     | 198     | -        | -        | -       | -        | -    | 500                |
| Sewer Charge  | 360,640 | -       | -        | -        | -       | -        | -    | 360,640            |
| Gas/Vehicle Maintenance                               | 4,759   | 3,123   | -        | -        | -       | -        | -    | 7,882              |
| Repairs & Maintenance                                 | 20,559  | 13,489  | -        | -        | -       | -        | -    | 34,048             |
| Operating Supplies                                    | 11,155  | 7,320   | -        | -        | -       | -        | -    | 18,475             |
| Uniforms & protective Gear                            | 931     | 611     | -        | -        | -       | -        | -    | 1,542              |
| Lawton Valley Pumping                                 | 15,753  | 10,336  | 5,556    | -        | -       | -        | -    | 31,646             |
| Lawton Valley Chemicals                               | 169,977 | -       | -        | -        | -       | -        | -    | 169,977            |
| Subtotal  |         |         |          |          |         |          |      |                    |

|                                      | Base             | Max Day          | Max Hour       | Metering       | Billing        | Services      | Fire          | Total \$ Allocated |
|--------------------------------------|------------------|------------------|----------------|----------------|----------------|---------------|---------------|--------------------|
| <b>Laboratory</b>                    |                  |                  |                |                |                |               |               |                    |
| Salaries & Wages                     | 104,358          | -                | -              | -              | -              | -             | -             | 104,358            |
| Employee Benefits                    | 64,208           | -                | -              | -              | -              | -             | -             | 64,208             |
| Annual Leave Buyback                 | 2,750            | -                | -              | -              | -              | -             | -             | 2,750              |
| Repairs & Maintenance                | 1,700            | -                | -              | -              | -              | -             | -             | 1,700              |
| Regulatory Assessment                | 32,000           | -                | -              | -              | -              | -             | -             | 32,000             |
| Laboratory Supplies                  | 18,684           | -                | -              | -              | -              | -             | -             | 18,684             |
| Subtotal                             |                  |                  |                |                |                |               |               |                    |
| <b>Transmission and Distribution</b> |                  |                  |                |                |                |               |               |                    |
| Salaries & Wages                     | 208,159          | 136,582          | 73,420         | -              | -              | -             | -             | 418,161            |
| Overtime                             | 26,067           | 17,103           | 9,194          | -              | -              | -             | -             | 52,364             |
| Temp Salaries                        | 4,978            | 3,266            | 1,756          | -              | -              | -             | -             | 10,000             |
| Injury Pay                           | -                | -                | -              | -              | -              | -             | -             | -                  |
| Employee Benefits                    | 125,203          | 82,151           | 44,161         | -              | -              | -             | -             | 251,514            |
| Annual Leave Buyback                 | 5,447            | 3,574            | 1,921          | -              | -              | -             | -             | 10,943             |
| Conferences & Training               | 1,991            | 1,306            | 702            | -              | -              | -             | -             | 4,000              |
| Contract Services                    | 6,188            | 4,060            | 2,182          | -              | -              | -             | -             | 12,430             |
| Fire & Liability Insurance           | 9,333            | 6,124            | 3,292          | -              | -              | -             | -             | 18,748             |
| Electricity                          | 9,340            | 6,128            | 3,294          | -              | -              | -             | -             | 18,762             |
| Heavy Equipment Rental               | 4,112            | 2,698            | 1,450          | -              | -              | -             | -             | 8,260              |
| Gas/Vehicle Maintenance              | 54,909           | 36,028           | 19,367         | -              | -              | -             | -             | 110,305            |
| Repairs & Maintenance                | 12,943           | 8,492            | 4,565          | -              | -              | -             | -             | 26,000             |
| Main Maintenance                     | 17,423           | 11,432           | 6,145          | -              | -              | -             | -             | 35,000             |
| Hydrant Maintenance                  | -                | -                | -              | -              | -              | -             | 35,000        | 35,000             |
| Service Maintenance                  | -                | -                | -              | -              | -              | 30,000        | -             | 30,000             |
| Operating Supplies                   | 4,978            | 3,266            | 1,756          | -              | -              | -             | -             | 10,000             |
| Uniforms & protective Gear           | 877              | 575              | 309            | -              | -              | -             | -             | 1,761              |
| Subtotal                             |                  |                  |                |                |                |               |               |                    |
| Fire Protection                      | -                | -                | -              | -              | -              | -             | 13,500        | 13,500             |
| <b>Total O&amp;M Costs</b>           | <b>4,220,929</b> | <b>1,064,545</b> | <b>183,010</b> | <b>276,580</b> | <b>273,749</b> | <b>93,171</b> | <b>48,500</b> | <b>6,160,484</b>   |
| Non-Administrative O&M               |                  |                  |                |                |                |               |               |                    |

|   | Base                |                     | Max Day           |                  | Max Hour          |                   | Metering         |                   | Billing          |                   | Services         |                   | Fire             |                   | Total \$          |                      |
|---|---------------------|---------------------|-------------------|------------------|-------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|-------------------|----------------------|
|   |                     |                     |                   |                  |                   |                   |                  |                   |                  |                   |                  |                   |                  |                   |                   |                      |
| <b>CAPITAL COSTS</b>                      |                     |                     |                   |                  |                   |                   |                  |                   |                  |                   |                  |                   |                  |                   |                   |                      |
| Water Supply                              | 1,414,794           | -                   | -                 | -                | -                 | -                 | -                | -                 | -                | -                 | -                | -                 | -                | -                 | -                 | 1,414,794            |
| Treatment Station 1                       | 984,880             | 646,221             | -                 | -                | -                 | -                 | -                | -                 | -                | -                 | -                | -                 | -                | -                 | -                 | 1,631,101            |
| Treatment Lawton Valley                   | 311,270             | 204,237             | -                 | -                | -                 | -                 | -                | -                 | -                | -                 | -                | -                 | -                | -                 | -                 | 515,507              |
| Treatment Both Plants                     | 400,709             | 262,922             | -                 | -                | -                 | -                 | -                | -                 | -                | -                 | -                | -                 | -                | -                 | -                 | 663,631              |
| T&D Pumping                               | 32,719              | 21,468              | 11,540            | -                | -                 | -                 | -                | -                 | -                | -                 | -                | -                 | -                | -                 | -                 | 65,728               |
| T&D                                       | 824,080             | 540,713             | 290,664           | -                | -                 | -                 | -                | -                 | -                | -                 | -                | -                 | -                | -                 | -                 | 1,655,458            |
| Fire                                      | -                   | -                   | -                 | -                | -                 | -                 | -                | -                 | -                | -                 | -                | -                 | 32,997           | -                 | -                 | 32,997               |
| Meters                                    | -                   | -                   | -                 | 22,787           | -                 | -                 | -                | -                 | -                | -                 | -                | -                 | -                | -                 | -                 | 22,787               |
| Services                                  | -                   | -                   | -                 | -                | -                 | -                 | -                | -                 | -                | -                 | 22,787           | -                 | -                | -                 | -                 | 22,787               |
| Billing                                   | -                   | -                   | -                 | -                | -                 | -                 | -                | -                 | 210,227          | -                 | -                | -                 | -                | -                 | -                 | 210,227              |
| <b>Total Capital Costs</b>                | <b>3,968,452</b>    | <b>1,675,561</b>    | <b>302,205</b>    | <b>22,787</b>    | <b>22,787</b>     | <b>0%</b>         | <b>0%</b>        | <b>2%</b>         | <b>210,227</b>   | <b>3%</b>         | <b>0%</b>        | <b>0%</b>         | <b>1%</b>        | <b>1%</b>         | <b>100%</b>       | <b>6,235,016</b>     |
| <b>Revenue Allowance</b>                  | 254,733             | -                   | -                 | -                | -                 | -                 | -                | -                 | -                | -                 | -                | -                 | -                | -                 | -                 | 254,733              |
| <b>Total Costs before Offsets</b>         | <b>8,444,114</b>    | <b>2,740,106</b>    | <b>485,215</b>    | <b>299,368</b>   | <b>483,976</b>    | <b>4%</b>         | <b>2%</b>        | <b>2%</b>         | <b>483,976</b>   | <b>4%</b>         | <b>1%</b>        | <b>1%</b>         | <b>1%</b>        | <b>1%</b>         | <b>100%</b>       | <b>12,650,233</b>    |
| <b>OFFSETS</b>                            |                     |                     |                   |                  |                   |                   |                  |                   |                  |                   |                  |                   |                  |                   |                   |                      |
| <b>Nonrate Revenues</b>                   |                     |                     |                   |                  |                   |                   |                  |                   |                  |                   |                  |                   |                  |                   |                   |                      |
| Sundry charges                            | 66,654              | 20,498              | 3,524             | 5,325            | 5,271             | -                 | 148,428          | 1,794             | 934              | 104,000           | -                | -                 | -                | -                 | -                 | 296,856              |
| WPC cost share on customer service        | -                   | -                   | -                 | 148,428          | 148,428           | -                 | -                | -                 | -                | -                 | -                | -                 | -                | -                 | -                 | 296,856              |
| Middletown cost share on customer service | -                   | -                   | -                 | 71,753           | 71,753            | -                 | -                | -                 | -                | -                 | -                | -                 | -                | -                 | -                 | 143,506              |
| Rental of Property                        | 69,325              | 21,319              | 3,665             | 5,539            | 5,482             | -                 | 1,866            | 1,866             | 971              | 108,167           | -                | -                 | -                | -                 | -                 | 143,506              |
| Water Penalty                             | 30,443              | 9,362               | 1,609             | 2,432            | 2,407             | -                 | 819              | 819               | 427              | 47,500            | -                | -                 | -                | -                 | -                 | 108,167              |
| Miscellaneous                             | 5,512               | 1,695               | 291               | 440              | 436               | -                 | 148              | 148               | 77               | 8,600             | -                | -                 | -                | -                 | -                 | 47,500               |
| Investment Interest Income                | 2,500               | 769                 | 132               | 200              | 198               | -                 | 67               | 67                | 35               | 3,900             | -                | -                 | -                | -                 | -                 | 8,600                |
| Water Quality Protection Fees             | 22,500              | -                   | -                 | -                | -                 | -                 | -                | -                 | -                | -                 | -                | -                 | -                | -                 | -                 | 22,500               |
| <b>Total Nonrate Revenues</b>             | <b>196,934</b>      | <b>53,642</b>       | <b>9,222</b>      | <b>234,118</b>   | <b>233,975</b>    | <b>4%</b>         | <b>2%</b>        | <b>2%</b>         | <b>233,975</b>   | <b>4%</b>         | <b>1%</b>        | <b>1%</b>         | <b>1%</b>        | <b>1%</b>         | <b>100%</b>       | <b>735,029</b>       |
| <b>Net Costs To Recover Through Rates</b> | <b>\$ 8,247,180</b> | <b>\$ 2,686,464</b> | <b>\$ 475,993</b> | <b>\$ 65,250</b> | <b>\$ 250,001</b> | <b>\$ 111,264</b> | <b>\$ 79,053</b> | <b>\$ 111,264</b> | <b>\$ 111,264</b> | <b>\$ 11,915,204</b> |

|                                | Base         | Max Day      | Max Hour   | Metering   | Billing    | Services  | Fire      | Total \$ Allocated |
|--------------------------------|--------------|--------------|------------|------------|------------|-----------|-----------|--------------------|
| <b>Non-Admin O&amp;M Costs</b> |              |              |            |            |            |           |           |                    |
| Less: Chemicals                | \$ 4,220,929 | \$ 1,064,545 | \$ 183,010 | \$ 276,580 | \$ 273,749 | \$ 93,171 | \$ 48,500 | \$ 6,160,484       |
| Station One                    | (354,210)    |              |            |            |            |           |           | \$ -               |
| Lawton Valley                  | (169,977)    |              |            |            |            |           |           | \$ (354,210)       |
| Source Supply                  | (72,735)     |              |            |            |            |           |           | \$ (169,977)       |
| Electricity                    |              |              |            |            |            |           |           | \$ (72,735)        |
| Source Supply                  | (162,297)    |              |            |            |            |           |           | \$ -               |
| Station One                    | -            | \$ -         |            |            |            |           |           | \$ (162,297)       |
| Lawton Valley                  | -            | \$ -         |            |            |            |           |           | \$ -               |
| Costs Adjusted                 | \$ 3,461,710 | \$ 1,064,545 | \$ 183,010 | \$ 276,580 | \$ 273,749 | \$ 93,171 | \$ 48,500 | \$ 5,401,265       |
|                                | <b>64%</b>   | <b>20%</b>   | <b>3%</b>  | <b>5%</b>  | <b>5%</b>  | <b>2%</b> | <b>1%</b> | <b>100%</b>        |

**Non-Administrative Labor**

|                             | Base      | Max Day | Max Hour | Metering | Billing | Services | Fire  | Total \$ Allocated |
|-----------------------------|-----------|---------|----------|----------|---------|----------|-------|--------------------|
| Administration              | 185,087   | 56,918  | 9,785    | 14,788   | 14,637  | 4,982    | 2,593 | 288,789            |
| Customer Service            | 0         | 0       | 0        | 128,413  | 116,547 | 36,776   | 0     | 281,735            |
| Source of Supply - Island   | 297,800   | 0       | 0        | 0        | 0       | 0        | 0     | 297,800            |
| Source of Supply - Mainland | 32,881    | 0       | 0        | 0        | 0       | 0        | 0     | 32,881             |
| Station One                 | 319,446   | 209,602 | 0        | 0        | 0       | 0        | 0     | 529,049            |
| Lawton Valley               | 312,828   | 205,259 | 0        | 0        | 0       | 0        | 0     | 518,087            |
| Laboratory                  | 107,108   | 0       | 0        | 0        | 0       | 0        | 0     | 107,108            |
| Transmission/Distribution   | 244,651   | 160,526 | 86,292   | 0        | 0       | 0        | 0     | 491,468            |
| Total                       | 1,499,801 | 632,305 | 96,077   | 143,200  | 131,183 | 41,757   | 2,593 | 2,546,917          |
| Percent                     | 59%       | 25%     | 4%       | 6%       | 5%      | 2%       | 0%    | 100%               |

| ALLOCATION PERCENTAGES<br>Cost Category | Allocation Basis                   | Commodity Charges |             |                 |      |            | Total % Allocated |      |
|---|------------------------------------|-------------------|-------------|-----------------|------|------------|-------------------|------|
|   |                                    | Base Charge       | Retail      |                 | Navy | Portsmouth |                   | Fire |
|   |                                    |                   | Residential | Non-Residential |      |            |                   |      |
| Base                                    | Average annual demand              | 41%               | 32%         | 9%              | 18%  | 0%         | 100%              |      |
| Base Excluding PWFD                     |                                    | 50%               | 40%         | 10%             | 0%   | 0%         | 100%              |      |
| Base Excluding PWFD & 50% Navy          |                                    | 53%               | 42%         | 6%              | 0%   | 0%         | 100%              |      |
| Water Quality Protection Fees           |                                    | 56%               | 44%         | 0%              | 0%   | 0%         | 100%              |      |
| Total Base to Class                     |                                    | 43%               | 34%         | 8%              | 15%  | 0%         | 100%              |      |
| Max Day                                 | Estimated customer peaking factors | 28%               | 34%         | 5%              | 15%  | 18%        | 100%              |      |
| Base Excluding PWFD                     |                                    | 33%               | 40%         | 6%              | 0%   | 22%        | 100%              |      |
| Max Day Excluding PWFD & 50% Navy       |                                    | 34%               | 41%         | 3%              | 0%   | 22%        | 100%              |      |
| Total Max Day to Class                  |                                    | 30%               | 36%         | 5%              | 10%  | 20%        | 100%              |      |
| Max Hour                                | Estimated customer peaking factors | 17%               | 25%         | 3%              | 8%   | 46%        | 100%              |      |
| Base Excluding PWFD                     |                                    | 19%               | 27%         | 4%              | 0%   | 50%        | 100%              |      |
| Max Hour Excluding PWFD & 50% Navy      |                                    | 19%               | 28%         | 2%              | 0%   | 51%        | 100%              |      |
| Total Max Hour to Class                 |                                    | 19%               | 28%         | 2%              | 0%   | 51%        | 100%              |      |
| Metering                                | Direct Assignment                  | 100%              |             |                 |      |            | 100%              |      |
| Billing                                 | Direct Assignment                  | 100%              |             |                 |      |            | 100%              |      |
| Services                                | Direct Assignment                  | 100%              |             |                 |      |            | 100%              |      |
| Fire                                    | Direct Assignment                  |                   |             |                 |      | 100%       | 100%              |      |

| ALLOCATION RESULTS<br>Cost Category   | Rate Year            | Commodity Charges |                     |                     |                   |                     | Total \$ Allocated  |                      |
|---------------------------------------|----------------------|-------------------|---------------------|---------------------|-------------------|---------------------|---------------------|----------------------|
|                                       |                      | Base Charge       | Retail              |                     | Navy              | Portsmouth          |                     | Fire                 |
|                                       |                      |                   | Residential         | Commercial          |                   |                     |                     |                      |
| <b>Base</b>                           |                      |                   |                     |                     |                   |                     |                     |                      |
| Base excluding T&D&WQPF & Pumping     | 7,068,451            | 2,887,509         | 2,289,576           | 607,259             | 1,284,107         | -                   | 7,068,451           |                      |
| Transmission & Distribution           | 1,316,026            | 693,347           | 549,772             | 72,907              | -                 | -                   | 1,316,026           |                      |
| Pumping                               | 59,637               | 29,770            | 23,606              | 6,261               | -                 | -                   | 59,637              |                      |
| Water Quality Protection Fees         | (22,500)             | (12,549)          | (9,951)             | -                   | -                 | -                   | (22,500)            |                      |
| Revenue Offsets                       | (174,434)            | (74,586)          | (59,141)            | (14,180)            | (26,526)          | -                   | (174,434)           |                      |
| Administrative Charges                | 1,422,209            | 608,124           | 482,196             | 115,612             | 216,277           | -                   | 1,422,209           |                      |
| <b>Max Day</b>                        |                      |                   |                     |                     |                   |                     |                     |                      |
| Max Day Except T&D & Pumping          | 1,837,476            | 509,318           | 620,551             | 95,356              | 273,456           | 338,796             | 1,837,476           |                      |
| Transmission & Distribution           | 863,499              | 290,037           | 353,380             | 27,151              | -                 | 192,931             | 863,499             |                      |
| Pumping                               | 39,130               | 12,743            | 15,526              | 2,386               | -                 | 8,476               | 39,130              |                      |
| Revenue Offsets                       | (53,642)             | (15,898)          | (19,370)            | (2,445)             | (5,353)           | (10,575)            | (53,642)            |                      |
| Administrative Charges                | 498,315              | 147,688           | 179,942             | 22,713              | 49,731            | 98,241              | 498,315             |                      |
| <b>Max Hour</b>                       |                      |                   |                     |                     |                   |                     |                     |                      |
| Max Hr. Except T&D & Pumping          | -                    | -                 | -                   | -                   | -                 | -                   | -                   |                      |
| Transmission & Distribution           | 464,180              | 88,391            | 129,834             | 8,837               | -                 | 237,117             | 464,180             |                      |
| Pumping                               | 21,035               | 3,931             | 5,774               | 786                 | -                 | 10,544              | 21,035              |                      |
| Revenue Offsets                       | (9,222)              | (1,755)           | (2,577)             | (183)               | -                 | (4,707)             | (9,222)             |                      |
| Administrative Charges                | 81,520               | 15,511            | 22,783              | 1,617               | -                 | 41,609              | 81,520              |                      |
| <b>Metering</b>                       |                      |                   |                     |                     |                   |                     |                     |                      |
| Metering                              | 299,368              | 299,368           | -                   | -                   | -                 | -                   | 299,368             |                      |
| Revenue Offsets                       | (234,118)            | (234,118)         | -                   | -                   | -                 | -                   | (234,118)           |                      |
| Administrative Charges                | 116,744              | 116,744           | -                   | -                   | -                 | -                   | 116,744             |                      |
| <b>Services</b>                       |                      |                   |                     |                     |                   |                     |                     |                      |
| Services                              | 115,959              | 115,959           | -                   | -                   | -                 | -                   | 115,959             |                      |
| Revenue Offsets                       | (4,695)              | (4,695)           | -                   | -                   | -                 | -                   | (4,695)             |                      |
| Administrative Charges                | 37,302               | 37,302            | -                   | -                   | -                 | -                   | 37,302              |                      |
| <b>Billing</b>                        |                      |                   |                     |                     |                   |                     |                     |                      |
| Billing                               | 483,976              | 483,976           | -                   | -                   | -                 | -                   | 483,976             |                      |
| Revenue Offsets                       | (233,975)            | (233,975)         | -                   | -                   | -                 | -                   | (233,975)           |                      |
| Administrative Charges                | 161,399              | 161,399           | -                   | -                   | -                 | -                   | 161,399             |                      |
| <b>Fire</b>                           |                      |                   |                     |                     |                   |                     |                     |                      |
| Fire                                  | 81,497               | -                 | -                   | -                   | -                 | 81,497              | 81,497              |                      |
| Revenue Offsets                       | (2,444)              | -                 | -                   | -                   | -                 | (2,444)             | (2,444)             |                      |
| Administrative Charges                | 13,124               | -                 | -                   | -                   | -                 | 13,124              | 13,124              |                      |
|                                       | -                    | -                 | -                   | -                   | -                 | -                   | -                   |                      |
|                                       | -                    | -                 | -                   | -                   | -                 | -                   | -                   |                      |
| <b>Total To Recover through Rates</b> | <b>\$ 14,245,818</b> | <b>\$ 741,960</b> | <b>\$ 5,181,579</b> | <b>\$ 4,581,899</b> | <b>\$ 944,078</b> | <b>\$ 1,791,691</b> | <b>\$ 1,004,611</b> | <b>\$ 14,245,818</b> |

**COST OF SERVICE PER UNIT**

| Description of Billing Units    | Metering                   |                            |                            |                            |                            |                        | Total         |
|---------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|------------------------|---------------|
|                                 | (1)                        | (2)                        | (2)                        | (2)                        | (2)                        | (3)                    |               |
| equivalent meters x 12 months   | 1000's of gallons annually | Equivalent Connections |               |
| Percentage of Dollars Allocated | 1.3%                       | 36.4%                      | 32.2%                      | 6.6%                       | 12.6%                      | 6.4%                   | 100.0%        |
| Allocated Cost                  | \$ 181,994                 | \$ 5,181,579               | \$ 4,581,899               | \$ 944,078                 | \$ 1,791,691               | \$ 912,433             | \$ 14,245,818 |
| Divided by: Number of Units     | 207,132                    | 630,132                    | 499,647                    | 178,971                    | 428,519                    | 160,963                |               |
| <b>Unit Cost of Service</b>     | <b>\$0.8786</b>            | <b>\$8.22</b>              | <b>\$9.17</b>              | <b>\$5.28</b>              | <b>\$4.18</b>              | <b>\$5.67</b>          |               |
|                                 | per equiv per month        | per 1000 gallons           | per 1000 gallons           | per 1000 gallons           | per 1000 gallons           | Equivalent connections |               |

| Description of Billing Units    | Services              |                        | Hydrants         |  |
|---------------------------------|-----------------------|------------------------|------------------|--|
|                                 | No. of bills per year | Equivalent Connections | No. of Hydrants  |  |
| Percentage of Dollars Allocated | 2.9%                  | 1.0%                   | 0.6%             |  |
| Allocated Cost                  | \$ 411,400            | \$ 148,566             | \$ 92,177        |  |
| Divided by: Number of Units     | 65,095                | 275,772                | 1,035            |  |
| <b>Unit Cost of Service</b>     | <b>\$6.3200</b>       | <b>\$0.5387</b>        | <b>\$89.0603</b> |  |
|                                 | per bill              | per equiv              | per Hydrant      |  |

(1) From JDM Schedule Surrebuttal D-1, 'Water Accounts, by Size and Class'.  
 (2) From JDM Schedule Surrebuttal B-6, 'Water Demand History'.  
 (3) From JDM Schedule Surrebuttal D-2, 'Fire Protection Accounts'.

Newport Water Division  
 Cost Of Service Analysis  
 JDM Schedule Surrebuttal B-3  
 Cost Allocation Bases

| Allocation Basis                       | Used to allocate the following cost categories | Source Schedule | Base | Max Day | Max Hour | Metering | Billing | Services | Direct Fire Protection | Total % Allocated |
|--|--|-----------------|------|---------|----------|----------|---------|----------|------------------------|-------------------|
| Average Day Demand Patterns            | Supply, Laboratory                             | N/A             | 100% |         |          |          |         |          |                        | 100%              |
| Maximum Day Demand Patterns            | Treatment                                      | B-1             | 60%  | 40%     | 0%       |          |         |          |                        | 100%              |
| Maximum Hour Demand Patterns           | Pumping, Transmission/Distribution, Storage    | B-1             | 50%  | 33%     | 18%      |          |         |          |                        | 100%              |
| Fire Protection                        | Public/Private Fire Protection Costs           | D-2             |      |         |          |          |         |          | 100%                   |                   |
| Non Admin less electricity & chemicals | Administration Salaries, Wages, & Benefits     | B-1             | 64%  | 20%     | 3%       | 5%       | 5%      | 2%       | 1%                     | 100%              |
| Customer Service Salaries and Wages    | Customer Service Salaries, Wages, & Benefits   | B-4             | 0%   | 0%      | 0%       | 46%      | 41%     | 13%      | 0%                     | 100%              |
| Non-Administrative Wages & Salaries    | Administrative Labor Related                   | B-1             | 59%  | 25%     | 4%       | 6%       | 5%      | 2%       | 0%                     | 100%              |
| Capital Costs                          | Certain Legal and Administrative               | B-1             | 64%  | 27%     | 5%       | 0%       | 3%      | 0%       | 1%                     | 0%                |
| Total Non-Admin Costs before Offsets   | Certain Legal and Administrative               | B-1             | 67%  | 22%     | 4%       | 2%       | 4%      | 1%       | 1%                     | 100%              |
| Other Costs                            | Administration Non-Salary Costs                | B-1             | 64%  | 20%     | 3%       | 5%       | 5%      | 2%       | 1%                     | 100%              |
| Treatment Plant Capital                |  |                 |      |         |          |          |         |          |                        |                   |

Newport Water Division  
 Cost Of Service Analysis  
 JDM Schedule Surrebuttal B-4  
 Allocation Analyses

**Administration 15-500-2200**

|                                     |                   |
|-------------------------------------|-------------------|
| Salaries by Staff Position          |                   |
| Director of Utilities               | \$ 63,851         |
| Administrative Secretary            | \$ 27,753         |
| Deputy Director - Finance           | \$ 58,372         |
| Deputy Director - Engineering       | \$ 55,027         |
| Financial Analyst                   | \$ 68,886         |
| <b>Salary \$ Allocation Results</b> | <b>\$ 273,889</b> |

**Resulting % Allocation of Administration Salaries, Wages, & Benefits**

| Allocation of Salary Costs |                  |                 |                  |                  |                 |                        | Total Allocated   |
|----------------------------|------------------|-----------------|------------------|------------------|-----------------|------------------------|-------------------|
| Base                       | Max Day          | Max Hour        | Metering         | Billing          | Services        | Direct Fire Protection |                   |
| 64%                        | 20%              | 3%              | 5%               | 5%               | 2%              | 1%                     | 100%              |
| 64%                        | 20%              | 3%              | 5%               | 5%               | 2%              | 1%                     | 100%              |
| 64%                        | 20%              | 3%              | 5%               | 5%               | 2%              | 1%                     | 100%              |
| 64%                        | 20%              | 3%              | 5%               | 5%               | 2%              | 1%                     | 100%              |
| 64%                        | 20%              | 3%              | 5%               | 5%               | 2%              | 1%                     | 100%              |
| <b>\$ 175,537</b>          | <b>\$ 53,981</b> | <b>\$ 9,280</b> | <b>\$ 14,025</b> | <b>\$ 13,881</b> | <b>\$ 4,725</b> | <b>\$ 2,459</b>        | <b>\$ 273,889</b> |
| <b>64%</b>                 | <b>20%</b>       | <b>3%</b>       | <b>5%</b>        | <b>5%</b>        | <b>2%</b>       | <b>1%</b>              | <b>100%</b>       |

**Customer Service 15-500-2209**

|                                     |                   |
|-------------------------------------|-------------------|
| Salaries by Staff Position          |                   |
| Meter Repairman/Reader              | \$ 36,757         |
| Meter Repairman/Reader              | \$ 38,996         |
| Principal Account Clerk             | \$ 35,687         |
| Meter Repairman/Reader              | \$ 46,483         |
| Maintenance Mechanic                | \$ 45,889         |
| SAE - Sr. Maintenance Mechanic      | \$ -              |
| Water Meter Foreman                 | \$ 52,523         |
| <b>Salary \$ Allocation Results</b> | <b>\$ 256,335</b> |

**Resulting % Allocation of Customer Service Salaries, Wages, & Benefits**

|             |                   |                   |                  |             |             |             |                   |
|-------------|-------------------|-------------------|------------------|-------------|-------------|-------------|-------------------|
|             | 50%               |                   |                  |             |             |             | 100%              |
|             | 50%               |                   |                  |             |             |             | 100%              |
|             | 100%              |                   |                  |             |             |             | 100%              |
|             | 33%               |                   |                  |             | 34%         |             | 100%              |
|             | 100%              |                   |                  |             |             |             | 100%              |
|             | 33%               |                   |                  |             | 34%         |             | 100%              |
| <b>\$ -</b> | <b>\$ 116,835</b> | <b>\$ 106,039</b> | <b>\$ 33,460</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ 256,335</b> |
| <b>0%</b>   | <b>46%</b>        | <b>0%</b>         | <b>41%</b>       | <b>13%</b>  | <b>0%</b>   | <b>0%</b>   | <b>100%</b>       |

**Treatment Plant Capital**

|                         | Base (Avg. Day) | Max Day      | Total        |
|-------------------------|-----------------|--------------|--------------|
| Treatment Station 1     | \$ 1,631,101    | \$ 646,221   | \$ 1,631,101 |
| Treatment Lawton Valley | \$ 515,507      | \$ 204,237   | \$ 515,507   |
| Treatment Both Plants   | \$ 663,631      | \$ 262,922   | \$ 663,631   |
|                         | \$ 2,810,239    | \$ 1,113,380 | \$ 2,810,239 |

|  | Residential | Non-Residential | Navy  | PWFD   | Fire  | Treatment Plant Capacity |
|--|-------------|-----------------|-------|--------|-------|--------------------------|
| Capacity Reserved for Avg. Day Demand (MGD) <sup>1</sup> | 3.02        | 2.39            | 0.95  | 1.64   | N/A   | 8                        |
| % of Avg. Day Treatment Capacity                         | 37.7%       | 29.9%           | 11.9% | 20.5%  | N/A   | 100%                     |
| Capacity Reserved for Max. Day Demand (MGD) <sup>1</sup> | 5.12        | 5.04            | 1.395 | 3.00   | 1.44  | 16                       |
| % of Max. Day Treatment Capacity                         | 32.01%      | 31.52%          | 8.72% | 18.75% | 9.00% | 100%                     |

# Per Demand study to determine required treatment capacity after DB treatment plant projects

Newport Water Division  
 Cost Of Service Analysis  
 JDM Schedule Surrebuttal B-5  
 Capital Functionalization

Functional Break Down of Existing Fixed Assets

|                           | Supply               | Treatment Station 1 | Treatment Lawton Valley | Treatment Both Plants | T&D  | T&D Pump | Fire | Meters | Services | Billing |      |
|---------------------------|----------------------|---------------------|-------------------------|-----------------------|------|----------|------|--------|----------|---------|------|
| TRANSMISSION/DISTRIBUTION | \$ 21,792,121        |                     |                         |                       | 100% |          |      |        |          |         | 100% |
| LAWTON VALLEY             | \$ 7,116,282         |                     |                         |                       |      |          |      |        |          |         | 100% |
| STATION 1                 | \$ 22,516,441        | 100%                |                         |                       |      |          |      |        |          |         | 100% |
| TREATMENT BOTH            | \$ 9,161,055         |                     | 100%                    |                       |      |          |      |        |          |         | 100% |
| STORAGE                   | \$ 1,060,548         |                     |                         |                       | 100% |          |      |        |          |         | 100% |
| SOURCE OF SUPPLY          | \$ 19,453,649        |                     |                         |                       |      |          |      |        |          |         | 100% |
| METERS/SERVICES           | \$ 629,135           |                     |                         |                       |      |          |      | 50%    | 50%      |         | 100% |
| T&D PUMPING               | \$ 907,332           |                     |                         |                       | 100% |          |      |        |          |         | 100% |
| BILLING                   | \$ 2,902,066         |                     |                         |                       |      |          |      |        |          | 100%    | 100% |
| FIRE                      | \$ 455,504           |                     |                         |                       |      |          | 100% |        |          |         | 100% |
| WORK IN PROGRESS          | \$ -                 |                     |                         |                       |      |          |      |        |          |         | 100% |
| Total                     | \$ 85,994,134        |                     |                         |                       |      |          |      |        |          |         | 100% |
| LABORATORY                | \$ 80,000            |                     |                         |                       |      |          |      |        |          |         | 100% |
| LAND AND ROW              | \$ 3,594,491         | 23%                 | 8%                      | 0%                    | 0%   | 0%       | 0%   | 0%     | 0%       | 0%      | 100% |
| Total                     | \$ 3,674,491         |                     |                         |                       |      |          |      |        |          |         | 100% |
| <b>Total Fixed Assets</b> | <b>\$ 89,668,625</b> |                     |                         |                       |      |          |      |        |          |         |      |

Total Fixed Assets \$ 89,668,625

|                           | Supply        | Treatment Station 1 | Treatment Lawton Valley | Treatment Both Plants | T&D           | T&D Pump | Fire    | Meters  | Services | Billing   | Total         |
|---------------------------|---------------|---------------------|-------------------------|-----------------------|---------------|----------|---------|---------|----------|-----------|---------------|
| TRANSMISSION/DISTRIBUTION | \$ 21,792,121 |                     |                         |                       | \$ 21,792,121 |          |         |         |          |           | \$ 21,792,121 |
| LAWTON VALLEY             | \$ 7,116,282  |                     | 7,116,282               |                       |               |          |         |         |          |           | 7,116,282     |
| STATION 1                 | \$ 22,516,441 | 22,516,441          |                         |                       |               |          |         |         |          |           | 22,516,441    |
| TREATMENT BOTH            | \$ 9,161,055  |                     |                         | 9,161,055             |               |          |         |         |          |           | 9,161,055     |
| STORAGE                   | \$ 1,060,548  |                     |                         |                       | 1,060,548     |          |         |         |          |           | 1,060,548     |
| SOURCE OF SUPPLY          | \$ 19,453,649 |                     |                         |                       |               |          |         |         |          |           | 19,453,649    |
| METERS/SERVICES           | \$ 629,135    |                     |                         |                       |               |          |         | 314,568 | 314,568  |           | 629,135       |
| T&D PUMPING               | \$ 907,332    |                     |                         |                       |               | 907,332  |         |         |          |           | 907,332       |
| BILLING                   | \$ 2,902,066  |                     |                         |                       |               |          |         |         |          | 2,902,066 | 2,902,066     |
| FIRE                      | \$ 455,504    |                     |                         |                       |               |          | 455,504 |         |          |           | 455,504       |
| WORK IN PROGRESS          | \$ -          |                     |                         |                       |               |          |         |         |          |           | -             |
| Total                     | \$ 85,994,134 |                     |                         |                       |               |          |         |         |          |           | \$ 85,994,134 |
| LABORATORY                | \$ 80,000     |                     |                         |                       |               |          |         |         |          |           | 80,000        |
| LAND AND ROW              | \$ 3,594,491  | 26.18%              | 8.28%                   | 10.65%                | 26.57%        | 1.06%    | 0.53%   | 0.37%   | 0.37%    | 3.37%     | 3,594,491     |
| Total Allocated           | \$ 20,346,797 | 24%                 | 8%                      | 10%                   | 26%           | 1%       | 1%      | 0%      | 0%       | 3%        | \$ 20,346,797 |
| Total                     | \$ 20,346,797 | 26.16%              | 8.27%                   | 10.64%                | 26.55%        | 1.05%    | 0.53%   | 0.37%   | 0.37%    | 3.37%     | \$ 20,346,797 |

Newport Water Division  
 Cost Of Service Analysis  
 JDM Schedule Surrebuttal B-5  
 Capital Functionalization

Functionalization of Capital Costs

|                                     | Supply       | Treatment Station 1 | Treatment Lawton Valley | Treatment Both Plants | T&D | T&D Pump | Fire | Meters | Services | Billing |      |
|-------------------------------------|--------------|---------------------|-------------------------|-----------------------|-----|----------|------|--------|----------|---------|------|
| Capital Spending Restricted Account | \$ 2,500,000 |                     |                         |                       |     |          |      |        |          |         | 100% |
| Debt Service                        | \$ 3,735,016 |                     |                         |                       |     |          |      |        |          |         | 100% |
|                                     | \$ 6,235,016 |                     |                         |                       |     |          |      |        |          |         |      |

|                                     | Supply       | Treatment Station 1 | Treatment Lawton Valley | Treatment Both Plants | T&D          | T&D Pump  | Fire      | Meters    | Services  | Billing    | Total        |
|-------------------------------------|--------------|---------------------|-------------------------|-----------------------|--------------|-----------|-----------|-----------|-----------|------------|--------------|
| Capital Spending Restricted Account | \$ 2,500,000 | \$ 654,008          | \$ 205,698              | \$ 266,090            | \$ 663,774   | \$ 26,354 | \$ 13,230 | \$ 9,137  | \$ 9,137  | \$ 84,293  | \$ 2,500,000 |
| Debt Service                        | \$ 3,735,016 | \$ 847,516          | \$ 977,093              | \$ 397,541            | \$ 991,683   | \$ 39,373 | \$ 19,766 | \$ 13,651 | \$ 13,651 | \$ 125,934 | \$ 3,735,016 |
|                                     | \$ 1,414,794 | \$ 1,631,101        | \$ 515,507              | \$ 663,631            | \$ 1,655,458 | \$ 65,728 | \$ 32,997 | \$ 22,787 | \$ 22,787 | \$ 210,227 | \$ 6,235,016 |

|           | Annual Demand in 1000s Gallons |           |           |           |           |           |           |           |           |           | Baseline  | Rate Year      |
|-----------|--------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|
|           | FY 2002                        | FY 2003   | FY 2004   | FY 2005   | FY 2006   | FY 2007   | FY 2008   | FY 2009   | FY 2010   | FY 2011   | FY 2012   | 3-Year Average |
| 773,872   | 780,666                        | 736,577   | 716,037   | 749,409   | 734,137   | 780,264   | 690,544   | 644,285   | 640,966   | 618,574   | 634,608   | 630,132        |
| 580,798   | 583,184                        | 663,766   | 573,711   | 493,539   | 456,486   | 505,014   | 519,521   | 457,376   | 502,475   | 472,437   | 477,429   | 499,647        |
| 307,051   | 348,222                        | 511,299   | 417,869   | 373,306   | 278,441   | 247,728   | 225,392   | 173,790   | 137,731   | 222,858   | 178,126   | 178,971        |
| 455,142   | 451,723                        | 422,944   | 429,465   | 463,253   | 445,232   | 473,338   | 444,777   | 412,324   | 398,827   | 407,837   | 406,329   | 428,519        |
| 2,116,863 | 2,163,795                      | 2,334,586 | 2,137,082 | 2,079,508 | 1,914,297 | 2,006,344 | 1,880,234 | 1,687,775 | 1,679,999 | 1,721,705 | 1,696,493 | 1,737,269      |
|           | 2.2%                           | 7.9%      | -8.5%     | -2.7%     | -7.9%     | -4.8%     | -6.3%     | -10.2%    | -0.5%     | 2.5%      |           |                |

Annual Demand by Class

Residential  
 Commercial  
 Navy  
 Portsmouth

Total (in 1000's Gallons)

|                                     | Combined Station #1 and LV WTP<br>Production Volumes in 1,000 gals |           |           |           |           | Peaking Comparison |                  |   |                            |
|-------------------------------------|--|-----------|-----------|-----------|-----------|--------------------|------------------|---|----------------------------|
|                                     | FY 2007  | FY 2008   | FY 2009   | FY 2010   | FY 2011   | FY 2012            | Production Peaks | System Peaks Estimated from Daily Demand Data | System Diversity Ratio (1) |
| Annual Production                   | 2,456,363  | 2,524,784 | 2,437,440 | 2,440,630 | 2,304,024 | 2,165,686          | 2,234,855        |   |                            |
| Average Day Production              | 6,730  | 6,917     | 6,678     | 6,687     | 6,312     | 5,933              | 6,123            |   |                            |
| Maximum Month Production            | 256,796  | 269,819   | 280,875   | 254,088   | 268,468   | 256,324            | 262,396          |   |                            |
| Maximum Day Production              | 10,165   | 10,724    | 12,100    | 9,800     | 10,163    | 10,118             | 10,140           |   |                            |
| Max Day Date                        | 6/28/2007  | 8/4/2007  | 7/18/2008 | 8/23/2010 | 7/23/2011 | 7/7/2012           |                  |   |                            |
| Maximum Day Peaking Factor          | 1.51   | 1.55      | 1.81      | 1.47      | 1.61      | 1.71               | 1.66             | 1.99  | 1.20                       |
| Max-Day to Avg. Day/Max-Month Ratio | 1.19   | 1.23      | 1.34      | 1.20      | 1.17      | 1.22               | 1.20             | 1.20  |                            |
| Maximum Hour                        | 13,800   | 15,200    | 13,250    | 10,700    | 12,100    | 12,500             | 12,300           |   |                            |
| Maximum Hour Peaking Factor         | 2.05   | 2.20      | 1.98      | 1.60      | 1.92      | 2.11               | 2.01             | 2.77  | 1.38                       |

Coincident Noncoincident  
 Excluding Fire Protection

(1) Calculated according to AWWA M-1 Guidelines

Estimation of Each Customer Class' Peaking Factors

| Customer Class                    | Max Day Demand Factor From Daily Read Demand Study | Max Hour Demand Factor From Daily Read Demand Study |
|-----------------------------------|--|---|
| Residential                       | 1.82   | 2.43  |
| Commercial                        | 2.26   | 3.39  |
| Navy                              | 1.73   | 2.31  |
| Portsmouth                        | 1.99   | 2.65  |
| Fire                              | 1.99   | 2.77  |
| <b>Estimated Systemwide Peaks</b> |  |   |

(5)

(5) Fire peaking behavior is estimated using a separate methodology demonstrated in JDM Schedule Surrebuttal B-11, 'Fire Protection Demand Analysis'.

| Rate Year Demand (1,000 gallons) |                  |                      |                       |                               |   |
|----------------------------------|------------------|----------------------|-----------------------|-------------------------------|---|
| Customer Class                   | Annual Demand    | Average Daily Demand | Lost Water Adjustment | Adjusted Average Daily Demand | % Average Demand Ex Demand Ex Demand Ex |
| Residential                      | 630,132          | 1,726                | 914                   | 2,640                         | 53%                                     |
| Commercial                       | 499,647          | 1,369                | 724                   | 2,093                         | 42%                                     |
| Navy                             | 178,971          | 490                  | 65                    | 555                           | 10%                                     |
| Portsmouth                       | 428,519          | 1,174                | -                     | 1,174                         | 0%                                      |
| Fire                             |                  |                      |                       |                               | N/A                                     |
| <b>Total, w Fire Prot.</b>       | <b>1,737,269</b> | <b>4,760</b>         | <b>25%</b>            | <b>6,462</b>                  | <b>100%</b>                             |

Allocation of UAW for Demand Analysis  
 53.7%  
 42.5%  
 3.8%

Production (1)  
 2,358,811 6,462 26.35%

| Customer Class                        | Max Day Calculations   |                             |                         | Max Hour Calculations   |                             |                         | % of Daily Peaks      |                     |                       | % of Hourly Peaks   |                       |                     |
|---------------------------------------|------------------------|-----------------------------|-------------------------|-------------------------|-----------------------------|-------------------------|-----------------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|
|                                       | Max Day Peaking Factor | Demand x Peaking Factor (3) | Incremental Peak Demand | Max Hour Peaking Factor | Demand x Peaking Factor (3) | Incremental Peak Demand | With Full PWFD & Navy | Without PWFD & Navy | With Full PWFD & Navy | Without PWFD & Navy | With Full PWFD & Navy | Without PWFD & Navy |
| Residential                           | 1.82                   | 4,805                       | 2,165                   | 2.43                    | 6,415                       | 1,610                   | 27.7%                 | 33.6%               | 17.1%                 | 19.0%               | 17.1%                 | 18.7%               |
| Commercial                            | 2.26                   | 4,731                       | 2,638                   | 3.39                    | 7,096                       | 2,365                   | 33.8%                 | 40.9%               | 25.2%                 | 28.0%               | 25.2%                 | 27.4%               |
| Navy                                  | 1.73                   | 960                         | 405                     | 2.31                    | 1,283                       | 322                     | 5.2%                  | 3.1%                | 3.4%                  | 1.9%                | 3.4%                  | 3.7%                |
| Portsmouth                            | 1.99                   | 2,336                       | 1,162                   | 2.65                    | 3,111                       | 775                     | 14.9%                 | 0.0%                | 8.2%                  | 0.0%                | 8.2%                  | 0.0%                |
| Fire                                  |                        | 1,440                       | 1,440                   |                         | 5,760                       | 4,320                   | 18.4%                 | 22.3%               | 46.0%                 | 51.1%               | 46.0%                 | 50.1%               |
| <b>Total, w Fire Prot.</b>            |                        | <b>14,272</b>               | <b>7,810</b>            |                         | <b>23,665</b>               | <b>9,393</b>            | <b>100.0%</b>         | <b>100.0%</b>       | <b>100.0%</b>         | <b>100.0%</b>       | <b>100.0%</b>         | <b>100.0%</b>       |
| <b>Total, without Fire Protection</b> |                        | <b>12,832</b>               | <b>6,370</b>            |                         | <b>17,905</b>               | <b>5,073</b>            |                       |                     |                       |                     |                       |                     |

(demand is in thousands of gallons)

(1) From JDM Schedule Surrebuttal D-4. The lost water adjustment is made to the peaking analysis so that Portsmouth will not share in that portion of certain operating costs. Navy allocation is reduced to 25%.

(2) From JDM Schedule Surrebuttal B-11, Fire Protection Demand Analysis.

Summary of Peak Load Distributions (by Rate Class and Base/Extra-Capacity Categories)

**EACH RATE CLASS' SHARE OF SYSTEM PEAKS**

| Rate Class    | Average Demand | Daily Peaks | Hourly Peaks |
|---------------|----------------|-------------|--------------|
| <b>Retail</b> |                |             |              |
| 7 Residential | 41%            | 28%         | 17%          |
| Commercial    | 32%            | 34%         | 25%          |
| Navy          | 9%             | 5%          | 3%           |
| Portsmouth    | 18%            | 15%         | 8%           |
| Fire          | N/A            | 18%         | 46%          |
|               | <b>100%</b>    | <b>100%</b> | <b>100%</b>  |

Percentages are from JDM Schedule Surrebuttal B-9, 'System Demands Imposed by Each Customer Class' Peaking Behavior'.

**BASE/EXTRA-CAPACITY DISTRIBUTION OF SYSTEM PEAKS**

|                             | Incremental Demand | % Distribution for Max Day | % Distribution for Max Hour |
|-----------------------------|--------------------|----------------------------|-----------------------------|
| Base                        | 6,123              | 60.4%                      | 49.8%                       |
| Extra Capacity              |                    |                            |                             |
| Max Day                     | 4,017              | 39.6%                      | 32.7%                       |
| Max Hour                    | 2,160              |                            | 17.6%                       |
| Fire Protection             |                    |                            |                             |
| Max Day                     | -                  | 0.0%                       | 0.0%                        |
| Max Hour                    | -                  |                            | 0.0%                        |
| <b>Total %</b>              |                    | <b>100.0%</b>              | <b>100.0%</b>               |
| <b>Total 1000's Gallons</b> |                    | <b>10,140</b>              | <b>12,300</b>               |

Incremental demand data is from JDM Schedule Surrebuttal B-11, 'Fire Protection Demand Analysis', and from JDM Schedule Surrebuttal B-9, 'System Demands Imposed by Each Customer Class' Peaking Behavior'.

**FIRE PROTECTION ASSUMPTIONS**

|   |       |
|---|-------|
| Fire Protection Flow (gals per minute)          | 4,000 |
| Hourly Fire Protection Flow (1000's of gallons) | 240   |
| Length of Fire Event (in hours)                 | 6     |

Newport Water Division  
 Cost Of Service Analysis  
 JDM Schedule Surrebuttal D-1  
 Water Accounts, by Size and Class

| Connection Size | Meter Factors | COMMERCIAL           |            |                   |              |                      |               | RESIDENTIAL |               |           |                   |           |                      | WHOLESALE (Monthly) |           |            |                   |            |                   |            |                   |
|-----------------|---------------|----------------------|------------|-------------------|--------------|----------------------|---------------|-------------|---------------|-----------|-------------------|-----------|----------------------|---------------------|-----------|------------|-------------------|------------|-------------------|------------|-------------------|
|                 |               | Meter Read Frequency |            | Equivalent Meters |              | Meter Read Frequency | Monthly       | Quarterly   | Monthly       | Quarterly | Equivalent Meters |           | Meter Read Frequency | Monthly             | Quarterly | Meters     | Equivalent Meters | Meters     | Equivalent Meters | Meters     | Equivalent Meters |
|                 |               | Monthly              | Quarterly  | Monthly           | Quarterly    |                      |               |             |               |           | Monthly           | Quarterly |                      |                     |           |            |                   |            |                   |            |                   |
| 5/8             | 1.0           | 98                   | 576        | 98                | 576          | 12                   | 10,079        | 12          | 10,079        | 0         | 0                 | 0         | 0                    | 10079               | 0         | 0          | 0                 | 0          | 0                 | 0          | 0                 |
| 3/4             | 1.1           | 53                   | 173        | 58                | 190          | 10                   | 2,241         | 11          | 2,465         | 1         | 1                 | 1         | 1                    | 2465                | 1         | 1          | 1                 | 1          | 1                 | 1          | 1                 |
| 1               | 1.4           | 141                  | 42         | 197               | 59           | 24                   | 349           | 34          | 489           | 0         | 0                 | 0         | 0                    | 489                 | 0         | 0          | 0                 | 0          | 0                 | 0          | 0                 |
| 1.5             | 1.8           | 145                  | 29         | 261               | 52           | 30                   | 157           | 54          | 283           | 3         | 5                 | 3         | 5                    | 283                 | 3         | 5          | 3                 | 5          | 3                 | 5          | 3                 |
| 2               | 2.9           | 173                  | 16         | 502               | 46           | 42                   | 43            | 122         | 125           | 0         | 0                 | 0         | 0                    | 125                 | 0         | 0          | 0                 | 0          | 0                 | 0          | 0                 |
| 3               | 11.0          | 38                   | 6          | 418               | 66           | 12                   | 11            | 132         | 121           | 0         | 0                 | 0         | 0                    | 121                 | 0         | 0          | 0                 | 0          | 0                 | 0          | 0                 |
| 4               | 14.0          | 10                   | 3          | 140               | 42           | 1                    | 0             | 14          | 0             | 0         | 0                 | 0         | 0                    | 0                   | 0         | 0          | 0                 | 0          | 0                 | 1          | 14                |
| 5               | 18.0          | 1                    | 0          | 18                | 0            | 0                    | 0             | 0           | 0             | 0         | 0                 | 0         | 0                    | 0                   | 0         | 0          | 0                 | 0          | 0                 | 0          | 0                 |
| 6               | 21.0          | 11                   | 1          | 231               | 21           | 1                    | 3             | 21          | 63            | 8         | 168               | 8         | 168                  | 63                  | 8         | 168        | 8                 | 168        | 8                 | 168        | 8                 |
| 8               | 29.0          | 0                    | 0          | 0                 | 0            | 1                    | 0             | 29          | 0             | 0         | 0                 | 0         | 0                    | 0                   | 0         | 0          | 0                 | 0          | 0                 | 0          | 0                 |
| 10              | 43.5          | 0                    | 0          | 0                 | 0            | 0                    | 0             | 0           | 0             | 1         | 44                | 1         | 44                   | 0                   | 1         | 44         | 1                 | 44         | 1                 | 44         | 1                 |
| <b>Total</b>    | <b>14,546</b> | <b>670</b>           | <b>846</b> | <b>1,923</b>      | <b>1,052</b> | <b>133</b>           | <b>12,883</b> | <b>429</b>  | <b>13,625</b> | <b>13</b> | <b>218</b>        | <b>13</b> | <b>218</b>           | <b>13,625</b>       | <b>13</b> | <b>218</b> | <b>13</b>         | <b>218</b> | <b>13</b>         | <b>218</b> | <b>13</b>         |

| Equivalent Meter Units |                |
|------------------------|----------------|
| Billed Monthly         | 2,584          |
| Billed Quarterly       | 31,008         |
| Billed Annually        | 176,124        |
| <b>Total</b>           | <b>207,132</b> |

| Equivalent Billing Units |               |
|--------------------------|---------------|
| Billed Monthly           | 817           |
| Billed Quarterly         | 9,804         |
| Billed Annually          | 54,916        |
| <b>Total</b>             | <b>65,095</b> |

Newport Water Division  
 Cost Of Service Analysis  
 JDM Schedule Surrebuttal D-2  
 Fire Protection Accounts

| Connection Size                  | Existing Differential | Number of Connections | Equivalent Connections |                        |
|----------------------------------|-----------------------|-----------------------|------------------------|------------------------|
|                                  |                       |                       | (1)                    | (2)                    |
| 6                                | 111.31                | 618                   | 68,790                 |                        |
| 6                                | 111.31                | 408                   | 45,415                 | % of Equiv Connections |
| 6                                | 111.31                | 9                     | 1,002                  |                        |
| <b>Subtotal: Public Hydrants</b> |                       |                       | <b>1035</b>            | <b>115,207</b>         |
|                                  |                       |                       |                        | <b>72%</b>             |

**Private Fire Connections**

|   |        |     |              |                        |
|---|--------|-----|--------------|------------------------|
| 2   | 6.19   | 4   | 25           |                        |
| 4   | 38.32  | 62  | 2,376        |                        |
| 6   | 111.31 | 245 | 27,271       |                        |
| 8   | 237.21 | 62  | 14,707       |                        |
| 10  | 426.58 | 0   | -            | % of Equiv Connections |
| 12  | 689.04 | 2   | 1,378        |                        |
| <b>Subtotal: Private Fire Connections</b> |        |     | <b>375</b>   | <b>45,757</b>          |
| <b>Total Fire Connections</b>             |        |     | <b>1,410</b> | <b>160,963</b>         |
|   |        |     |              | <b>28%</b>             |
|   |        |     |              | <b>100%</b>            |

(1) Demand factors are based on the principles of the Hazen-Williams equation for flow through pressure conduits. For more information, see the AWWA M1 rate manual chapter on fire protection charges.

(2) Equivalent connections are arrived at by multiplying the number of connections by the demand factor.

**General Water Service**

| Connection Size                 | Service Cost | No. of Services | Equivalent Connections |                        |
|---------------------------------|--------------|-----------------|------------------------|------------------------|
|                                 |              |                 | (1)                    | (2)                    |
| 5/8                             | 1.000        | 10,765          | 10,765                 |                        |
| 3/4                             | 1.000        | 2,478           | 2,478                  |                        |
| 1                               | 1.860        | 556             | 1,034                  |                        |
| 1.5                             | 4.630        | 364             | 1,685                  |                        |
| 2                               | 6.150        | 274             | 1,685                  |                        |
| 3                               | 11.060       | 67              | 741                    |                        |
| 4                               | 11.060       | 15              | 166                    |                        |
| 5                               | 11.060       | 1               | 11                     |                        |
| 6                               | 11.060       | 24              | 265                    | % of Equiv Connections |
| 8                               | 11.060       | 1               | 11                     |                        |
| 10                              | 11.060       | 1               | 11                     |                        |
| <b>Subtotal General Service</b> |              |                 | <b>14,546</b>          | <b>18,853</b>          |
|                                 |              |                 |                        | <b>82%</b>             |

**Subtotal General Service**

**Private Fire Connections**

|   |        |     |            |                        |
|---|--------|-----|------------|------------------------|
| 2   | 6.150  | 4   | 25         |                        |
| 4   | 11.060 | 62  | 686        |                        |
| 6   | 11.060 | 245 | 2,710      |                        |
| 8   | 11.060 | 62  | 686        |                        |
| 10  | 11.060 | 0   | -          | % of Equiv Connections |
| 12  | 11.060 | 2   | 22         |                        |
| <b>Subtotal: Private Fire Connections</b> |        |     | <b>375</b> | <b>4,128</b>           |
|   |        |     |            | <b>18%</b>             |

**Subtotal: Private Fire Connections**

**Annualized**

**Total Retail & Private Fire Connections**

|           |               |                |             |
|-----------|---------------|----------------|-------------|
| <b>12</b> | <b>14,921</b> | <b>275,772</b> | <b>100%</b> |
|-----------|---------------|----------------|-------------|

Newport Water Division  
 Cost Of Service Analysis  
 JDM Schedule Surrebuttal D-3  
 Production Summary

|                                    | Station #1    |           | Lawton Valley |           | Combined      |           |
|------------------------------------|---------------|-----------|---------------|-----------|---------------|-----------|
|                                    | In Gallons    | In 1000's | In Gallons    | In 1000's | In Gallons    | In 1000's |
| <b>FY 07 JULY 2006 - JUNE 2007</b> | 1,176,356,210 | 1,176,356 | 1,280,006,852 | 1,280,007 | 2,456,363,062 | 2,456,363 |
| Max. Month June                    | 116,724,700   | 116,725   | 140,288,300   | 140,288   | 256,795,580   | 256,796   |
| <b>FY 08 JULY 2007 - JUNE 2008</b> | 1,268,356,660 | 1,268,357 | 1,256,427,700 | 1,256,428 | 2,524,784,360 | 2,524,784 |
| Max. Month August                  | 141,803,530   | 141,804   | 144,557,900   | 144,558   | 269,819,450   | 269,819   |
| <b>FY 09 JULY 2008 - JUNE 2009</b> | 1,152,697,400 | 1,152,697 | 1,284,742,500 | 1,284,743 | 2,437,439,900 | 2,437,440 |
| Max. Month March                   | 110,288,000   | 110,288   | 177,163,200   | 177,163   | 280,874,500   | 280,875   |
| <b>FY 10 JULY 2009 - JUNE 2010</b> | 1,333,422,150 | 1,333,422 | 1,107,207,665 | 1,107,208 | 2,440,629,815 | 2,440,630 |
| Max. Month October                 | 121,112,610   | 121,113   | 139,731,200   | 139,731   | 254,088,090   | 254,088   |
| <b>FY 11 JULY 2010 - JUNE 2011</b> | 1,242,460,000 | 1,242,460 | 1,061,564,200 | 1,061,564 | 2,304,024,200 | 2,304,024 |
| Max. Month July                    | 136,103,000   | 136,103   | 133,325,700   | 133,326   | 268,467,600   | 268,468   |
| <b>FY 12 JULY 2011 - JUNE 2012</b> | 981,876,000   | 981,876   | 1,183,810,000 | 1,183,810 | 2,165,685,750 | 2,165,686 |
| Max. Month July                    | 110,561,700   | 110,562   | 145,762,000   | 145,762   | 256,323,700   | 256,324   |

MAX DAY PRODUCTION AVAILABLE FOR SALE

| Date       | Station #1                                  |           | Lawton Valley |           | Combined   |           |
|------------|---|-----------|---------------|-----------|------------|-----------|
|            | In Gallons                                  | In 1000's | In Gallons    | In 1000's | In Gallons | In 1000's |
| 8/2/2006   | 5,114,940                                   | 5,115     | 5,958,100     | 5,958     | 10,165,100 | 10,165    |
|            | includes booster to LV at 1,256,000 Gallons |           |               |           |            |           |
| 8/25/2007  | 6,179,670                                   | 6,180     | 6,805,400     | 6,805     | 10,723,620 | 10,724    |
|            | includes booster to LV at 2,251,000 Gallons |           |               |           |            |           |
| 7/20/2008  | 4,341,000                                   | 4,341     | 7,845,700     | 7,846     | 12,100,100 | 12,100    |
|            | includes booster to LV at 324,000 Gallons   |           |               |           |            |           |
| 10/10/2009 | 4,664,000                                   | 4,664     | 6,168,500     | 6,169     | 9,800,400  | 9,800     |
| 7/4/2011   | 5,729,355                                   | 5,729     | 5,654,800     | 5,655     | 10,162,555 | 10,163    |
| 7/6/2012   | 4,624,292                                   | 4,624     | 5,869,900     | 5,870     | 10,118,190 | 10,118    |

PEAK HOURLY FLOW

| Date       | Station #1 | Lawton Valley |
|------------|------------|---------------|
| 7/6/2006   | 5.8 MGD    | 8.0 MGD       |
| 8/26/2007  | 7.2 MGD    | 8.0 MGD       |
| 7/18/2008  | 5.25 MGD   | 8.0 MGD       |
| 9/2/2009   | 4.70 MGD   | 6.0 MGD       |
| 10/15/2010 | 6.10 MGD   | 6.0 MGD       |
| 7/5/2011   | 6.50 MGD   | 6.0 MGD       |

Newport Water Division  
 Cost Of Service Analysis  
 JDM Schedule Surrebuttal D-4  
 Demand Summary

|                                    | FY 2009          | FY 2010          | FY 2011          | FY 2012          |
|------------------------------------|------------------|------------------|------------------|------------------|
| <b>Fiscal Year Annual Demand</b>   |                  |                  |                  |                  |
| Residential                        | 690,544          | 644,285          | 640,966          | 618,574          |
| Commercial (includes governmental) | 519,521          | 457,376          | 502,475          | 472,437          |
| Navy                               | 225,392          | 173,790          | 137,731          | 222,858          |
| Portsmouth                         | 444,777          | 412,324          | 398,827          | 407,837          |
| Total 1000's Gallons               | <b>1,880,234</b> | <b>1,687,775</b> | <b>1,679,999</b> | <b>1,721,705</b> |
|                                    | -6.3%            | -10.2%           | -0.5%            | 2.5%             |

Newport Water Division  
 Cost Of Service Analysis  
 JDM Schedule Surrebuttal D-5  
 Development of Pumping Costs

**Pumping Labor and Benefits**

| Station One               |            | Lawton Valley               |            |
|---------------------------|------------|-----------------------------|------------|
| Labor hours per day pump  | 0.5000     | Labor hours per day pumping | 0.2500     |
| Days per year             | 365        | Days per year               | 365        |
| Total Hours               | 182.5000   | Total Hours                 | 91.2500    |
| Average per hour pay      | \$23.06    | Average per hour pay        | \$22.07    |
| Average per hour benefits | \$10.82    | Average per hour benefits   | \$11.69    |
| Pumping Salaries          | \$4,208.45 | Pumping Salaries            | \$2,013.89 |
| Pumping Benefits          | \$1,974.65 | Pumping Benefits            | \$1,066.71 |

**Pumping Repairs and Supplies**

| Station One                            |            | Lawton Valley                      |            |
|--|------------|------------------------------------|------------|
| 50275 Repair & Maintenance - Equipment |            | Repair & Maintenance - Equipment   |            |
| None                                   | \$0.00     | Vendor                             | amount     |
| Total Repair & Maintenance Pumping     | \$0.00     | NAPA Auto Partd                    | \$622.90   |
|  |            | Ralco Electric                     | \$328.83   |
|  |            | Total Repair & Maintenance Pumping | \$951.73   |
| 50311 Operating Supplies               |            | Operating Supplies                 |            |
| Vendor                                 | amount     | Vendor                             | amount     |
| National Electric Testing              | \$60.00    | National Electric Testing          | \$300.00   |
| ABB Inc.                               | \$1,122.00 | Ralco Electric                     | \$525.00   |
| RE Erickson                            | \$1,140.00 | Harbor Controls                    | \$1,000.00 |
| Ralco                                  | \$268.00   |                                    |            |
| Total - Operating Supplies - Pumping   | \$2,590.00 | Total Operating Supplies Pumping   | \$1,825.00 |

**Pumping Electricity**

| Station One          |          | Lawton Valley        |          |
|----------------------|----------|----------------------|----------|
| Annual Pumping Power | \$13,655 | Annual Pumping Power | \$25,789 |

**Total Pumping Costs**

| Station One                          |                 | Lawton Valley                      |                 |
|--------------------------------------|-----------------|------------------------------------|-----------------|
| Pumping Salaries                     | \$4,208         | Pumping Salaries                   | \$2,014         |
| Pumping Benefits                     | \$1,975         | Pumping Benefits                   | \$1,067         |
| Total Repair & Maintenance Pumping   | \$0             | Total Repair & Maintenance Pumping | \$952           |
| Total - Operating Supplies - Pumping | \$2,590         | Total Operating Supplies Pumping   | \$1,825         |
| Annual Pumping Power                 | \$13,655        | Annual Pumping Power               | \$25,789        |
| <b>Total Annual Pumping Costs</b>    | <b>\$22,428</b> | <b>Total Annual Pumping Costs</b>  | <b>\$31,646</b> |

Newport Water Division  
 Cost Of Service Analysis  
 JDM Schedule Surrebital D-6  
 Debt Service Restricted Account Cashflow

|                             | July         | August       | September    | October      | November     | December     | January      | February     | March        | April        | May          | June         |
|-----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| FY 2012                     |              |              |              |              |              |              |              |              |              |              |              |              |
| <b>Debt Service Account</b> |              |              |              |              |              |              |              |              |              |              |              |              |
| Beginning Cash Balance      | \$ 1,989,949 | \$ 1,989,964 | \$ 2,325,118 | \$ 1,789,176 | \$ 1,952,744 | \$ 1,555,935 | \$ 1,688,396 | \$ 1,820,952 | \$ 1,953,399 | \$ 1,795,553 | \$ 1,928,001 | \$ 2,042,962 |
| Additions                   |              | \$335,137    | \$167,509    | \$167,509    | \$167,509    | \$132,447    | \$132,447    | \$132,447    | \$132,447    | \$132,447    | \$132,447    | \$132,447    |
| From Rates                  |              |              |              |              |              |              |              |              |              |              |              |              |
| Interest Income             | 15           | 17           | 18           | 14           | 15           | 14           | 108          | 108          | 132,447      | 132,447      | 132,447      | 132,447      |
| Deductions                  |              | \$ 335,154   | \$ 167,567   | \$ 167,563   | \$ 167,584   | \$ 132,461   | \$ 132,556   | \$ 132,447   | \$ 132,447   | \$ 132,447   | \$ 132,447   | \$ 132,447   |
| Existing Debt Service       |              |              | 703,529      | 4,015        | 564,393      |              |              |              | 290,293      |              | 17,486       | 400          |
| Proposed Debt Service       |              |              |              | 4,015        | 564,393      |              |              |              | 290,293      |              | 17,486       | 400          |
| <b>Total Deductions</b>     | \$ -         | \$ -         | \$ 703,529   | \$ 4,015     | \$ 564,393   | \$ -         | \$ -         | \$ -         | \$ 290,293   | \$ -         | \$ 17,486    | \$ 400       |
| <b>Ending Cash Balance</b>  | \$ 1,989,964 | \$ 2,325,118 | \$ 1,789,176 | \$ 1,952,744 | \$ 1,555,935 | \$ 1,688,396 | \$ 1,820,952 | \$ 1,953,399 | \$ 1,795,553 | \$ 1,928,001 | \$ 2,042,962 | \$ 2,175,010 |

Annual Contribution From Rates  
\$1,764,974

Annual Debt Service Payments  
\$ 1,580,115

|                             | July         | August       | September    | October      | November     | December     | January      | February     | March        | April        | May          | June         |
|-----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| FY 2013                     |              |              |              |              |              |              |              |              |              |              |              |              |
| <b>Debt Service Account</b> |              |              |              |              |              |              |              |              |              |              |              |              |
| Beginning Cash Balance      | \$ 2,175,010 | \$ 2,307,457 | \$ 2,439,904 | \$ 1,334,238 | \$ 1,466,685 | \$ 1,599,133 | \$ 1,731,580 | \$ 1,864,027 | \$ 1,996,475 | \$ 1,426,606 | \$ 1,737,857 | \$ 2,049,109 |
| Additions                   |              | \$132,447    | \$132,447    | \$132,447    | \$132,447    | \$132,447    | \$132,447    | \$132,447    | \$132,447    | \$311,251    | \$311,251    | \$311,251    |
| From Rates                  |              |              |              |              |              |              |              |              |              |              |              |              |
| Interest Income             |              |              |              |              |              |              |              |              |              |              |              |              |
| Deductions                  | \$ 132,447   | \$ 132,447   | \$ 132,447   | \$ 132,447   | \$ 132,447   | \$ 132,447   | \$ 132,447   | \$ 132,447   | \$ 132,447   | \$ 311,251   | \$ 311,251   | \$ 311,251   |
| Existing Debt Service       |              |              | 1,238,114    |              |              |              |              |              | 702,316      |              |              |              |
| <b>Total Deductions</b>     | \$ -         | \$ -         | \$ 1,238,114 | \$ -         | \$ -         | \$ -         | \$ -         | \$ -         | \$ 702,316   | \$ -         | \$ -         | \$ -         |
| <b>Ending Cash Balance</b>  | \$ 2,307,457 | \$ 2,439,904 | \$ 1,334,238 | \$ 1,466,685 | \$ 1,599,133 | \$ 1,731,580 | \$ 1,864,027 | \$ 1,996,475 | \$ 1,426,606 | \$ 1,737,857 | \$ 2,049,109 | \$ 2,360,360 |

% increase in DS Allowance  
135%

Annual Contribution From Rates  
\$2,125,780

Annual Debt Service  
\$ 1,940,430

Newport Water Division  
 Cost Of Service Analysis  
 JDM Schedule Surrebuttal D-6  
 Debt Service Restricted Account Cashflow

| FY 2014                             |              |              |              |              |              |              |              |              |              |              |              |              |
|-------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                     | July         | August       | September    | October      | November     | December     | January      | February     | March        | April        | May          | June         |
| 0% increase in DS Allowance         |              |              |              |              |              |              |              |              |              |              |              |              |
| <b>Debt Service Account</b>         |              |              |              |              |              |              |              |              |              |              |              |              |
| Beginning Cash Balance              | \$ 2,360,360 | \$ 2,671,611 | \$ 2,982,863 | \$ 1,159,928 | \$ 1,471,179 | \$ 1,782,431 | \$ 2,093,682 | \$ 2,404,933 | \$ 2,716,185 | \$ 1,615,829 | \$ 1,927,080 | \$ 2,238,332 |
| Additions                           |              |              |              |              |              |              |              |              |              |              |              |              |
| From Rates                          | \$311,251    | \$311,251    | \$311,251    | \$311,251    | \$311,251    | \$311,251    | \$311,251    | \$311,251    | \$311,251    | \$311,251    | \$311,251    | \$311,251    |
| Interest Income                     |              |              |              |              |              |              |              |              |              |              |              |              |
| <b>Total Additions</b>              | \$ 311,251   | \$ 311,251   | \$ 311,251   | \$ 311,251   | \$ 311,251   | \$ 311,251   | \$ 311,251   | \$ 311,251   | \$ 311,251   | \$ 311,251   | \$ 311,251   | \$ 311,251   |
| Deductions                          |              |              |              |              |              |              |              |              |              |              |              |              |
| To Capital Restricted Acct.         |              |              | 1,794,436    |              |              |              |              |              | 1,061,357    |              |              |              |
| Existing Debt Service               |              |              | 346,750      |              |              |              |              |              | 350,250      |              |              |              |
| Proposed Debt Service (\$31 M Loan) |              |              |              |              |              |              |              |              |              |              |              |              |
| <b>Total Deductions</b>             | \$ -         | \$ -         | \$ 2,134,186 | \$ -         | \$ -         | \$ -         | \$ -         | \$ -         | \$ 1,411,607 | \$ -         | \$ -         | \$ -         |
| <b>Ending Cash Balance</b>          | \$ 2,671,611 | \$ 2,982,863 | \$ 1,159,928 | \$ 1,471,179 | \$ 1,782,431 | \$ 2,093,682 | \$ 2,404,933 | \$ 2,716,185 | \$ 1,615,829 | \$ 1,927,080 | \$ 2,238,332 | \$ 2,549,583 |

Annual Contribution From Rates  
\$3,735,016

Annual Debt Service  
\$ 3,545,793

| FY 2015                             |              |              |              |            |              |              |              |              |              |              |              |              |
|-------------------------------------|--------------|--------------|--------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                     | July         | August       | September    | October    | November     | December     | January      | February     | March        | April        | May          | June         |
| 110% increase in DS Allowance       |              |              |              |            |              |              |              |              |              |              |              |              |
| <b>Debt Service Account</b>         |              |              |              |            |              |              |              |              |              |              |              |              |
| Beginning Cash Balance              | \$ 2,549,583 | \$ 3,203,226 | \$ 3,856,871 | \$ 17,644  | \$ 671,286   | \$ 1,324,929 | \$ 1,978,570 | \$ 2,632,306 | \$ 3,285,949 | \$ 2,227,319 | \$ 2,880,961 | \$ 3,534,604 |
| Additions                           |              |              |              |            |              |              |              |              |              |              |              |              |
| From Rates                          | \$653,628    | \$653,628    | \$653,628    | \$653,628  | \$653,628    | \$653,628    | \$653,628    | \$653,628    | \$653,628    | \$653,628    | \$653,628    | \$653,628    |
| Interest Income                     | 15           | 17           | 18           | 14         | 15           | 14           | 108          | 15           | 15           | 15           | 15           | 15           |
| <b>Total Additions</b>              | \$ 653,643   | \$ 653,645   | \$ 653,646   | \$ 653,642 | \$ 653,643   | \$ 653,641   | \$ 653,736   | \$ 653,643   | \$ 653,643   | \$ 653,643   | \$ 653,643   | \$ 653,643   |
| Deductions                          |              |              |              |            |              |              |              |              |              |              |              |              |
| Existing Debt Service               |              |              | 3,813,586    |            |              |              |              |              | 1,033,986    |              |              |              |
| Proposed Debt Service (\$31 M Loan) |              |              | 679,287      |            |              |              |              |              | 678,287      |              |              |              |
| <b>Total Deductions</b>             | \$ -         | \$ -         | \$ 4,492,873 | \$ -       | \$ -         | \$ -         | \$ -         | \$ -         | \$ 1,712,273 | \$ -         | \$ -         | \$ -         |
| <b>Ending Cash Balance</b>          | \$ 3,203,226 | \$ 3,856,871 | \$ 17,644    | \$ 671,286 | \$ 1,324,929 | \$ 1,978,570 | \$ 2,632,306 | \$ 3,285,949 | \$ 2,227,319 | \$ 2,880,961 | \$ 3,534,604 | \$ 4,188,247 |

Annual Contribution From Rates  
\$7,843,534

Annual Debt Service  
\$ 6,205,146

Newport Water Division  
 Cost Of Service Analysis  
 JDM Schedule Surrebuttal D-7  
 Demand Factor Calculations

| <b>Demand Factors For COS Model</b>             | <b>Residential</b> | <b>Non-Residential</b> | <b>Navy</b> | <b>PWFD</b> |
|---|--------------------|------------------------|-------------|-------------|
| Summer 2011 Max. Day Demand Factor              | 1.78               | 2.18                   | 1.49        | 1.91        |
| Summer 2012 Max. Day Demand Factor              | 1.86               | 2.35                   | 1.97        | 2.07        |
| <b>Two Year Average Max. Day Demand Factor</b>  | <b>1.82</b>        | <b>2.26</b>            | <b>1.73</b> | <b>1.99</b> |
| Summer 2011 Max. Hour Demand Factor             | 2.37               | 3.27                   | 1.99        | 2.54        |
| Summer 2012 Max. Hour Demand Factor             | 2.49               | 3.52                   | 2.62        | 2.75        |
| <b>Two Year Average Max. Hour Demand Factor</b> | <b>2.43</b>        | <b>3.39</b>            | <b>2.31</b> | <b>2.65</b> |

Newport Water Division  
 Cost Of Service Analysis  
 HJS Schedule D-7  
 Demand Factor Calculations

**Summer 2011**

|                                     | Residential | Commercial | Navy    | PWFD      |
|-------------------------------------|-------------|------------|---------|-----------|
| Annual Average Day <sup>1</sup>     | 16,973      | 58,419     | 421,795 | 1,128,293 |
| Daily Read Maximum Day <sup>2</sup> | 30,139      | 127,359    | 630,462 | 2,153,297 |
| Maximum Day Demand Factor           | 1.78        | 2.18       | 1.49    | 1.91      |

1-Total Consumption by Daily Read Accounts for 12 Mo. Including Daily Sample Period/365

2 - Class maximum day from daily read data

| <b>Max Day Diversity Factor Calculation</b>  |  | Residential | Commercial | Navy        | PWFD     |                        |
|--|--|-------------|------------|-------------|----------|------------------------|
| Class Average Day (mgd)                      |  | 2.60        | 1.94       | 0.51        | 1.13     |                        |
| Class MD Demand Factor                       |  | 1.78        | 2.18       | 1.49        | 1.91     | <b>Total MD Demand</b> |
| Max Day Demand (Avg. Day X MD Demand Factor) |  | 4.62        | 4.23       | 0.76        | 2.15     | <b>11.8</b>            |
| System Average Day (mgd)                     |  | 6.2         |            |             |          |                        |
| System Maximum Day (mgd)                     |  | 10.2        |            |             |          |                        |
| System Maximum Hour (mgd)                    |  | 12.1        |            |             |          |                        |
| Noncoincident MD Capacity Factor             |  | 11.8        | /          | 6.2         | =        | 1.90                   |
| Coincident MD Capacity Factor                |  | 10.2        | /          | 6.2         | =        | 1.65                   |
| <b>System MD Diversity</b>                   |  | <b>1.90</b> | <b>/</b>   | <b>1.65</b> | <b>=</b> | <b>1.16</b>            |

**Maximum Hour Demand Factor Calculation**

|   | Residential | Commercial | Navy | PWFD |
|---|-------------|------------|------|------|
| MD Capacity Factor                                | 1.78        | 2.18       | 1.49 | 1.91 |
| Estimated Maximum-Hour (MH)/MD Ratio <sup>3</sup> | 1.33        | 1.50       | 1.33 | 1.33 |
| Calculated MH Capacity Factor                     | 2.37        | 3.27       | 1.99 | 2.54 |

**Max Hour Diversity Factor Calculation**

|   | Residential | Commercial | Navy        | PWFD     |                        |
|---|-------------|------------|-------------|----------|------------------------|
| Class Average Day (mgd)                       | 2.60        | 1.94       | 0.51        | 1.13     |                        |
| Class MH Demand Factor                        | 2.37        | 3.27       | 1.99        | 2.54     | <b>Total MH Demand</b> |
| Max Hour Demand (Avg. Day X MH Demand Factor) | 6.2         | 6.3        | 1.0         | 2.9      | <b>16.38</b>           |
| System Average Day (mgd)                      | 6.2         |            |             |          |                        |
| System Maximum Day (mgd)                      | 10.2        |            |             |          |                        |
| System Maximum Hour (mgd)                     | 12.1        |            |             |          |                        |
| Noncoincident MH Capacity Factor              | 16.4        | /          | 6.2         | =        | 2.65                   |
| Coincident MH Capacity Factor                 | 12.1        | /          | 6.2         | =        | 1.96                   |
| <b>System MH Diversity</b>                    | <b>2.65</b> | <b>/</b>   | <b>1.96</b> | <b>=</b> | <b>1.35</b>            |

3- MH/MD Ratio Assumptions:

Residential =24 hr. / 18 hr.  
 Commercial =24 hr. / 16 hr.  
 Navy =24 hr. / 18 hr.  
 PWFD =24 hr. / 18 hr.

Newport Water Division  
 Cost Of Service Analysis  
 HJS Schedule D-7  
 Demand Factor Calculations

**Summer 2012**

|                                     | Residential | Commercial | Navy      | PWFD      |
|-------------------------------------|-------------|------------|-----------|-----------|
| Annual Average Day <sup>1</sup>     | 16,366      | 57,808     | 616,576   | 1,127,654 |
| Daily Read Maximum Day <sup>2</sup> | 30,513      | 135,620    | 1,213,663 | 2,329,051 |
| Maximum Day Demand Factor           | 1.86        | 2.35       | 1.97      | 2.07      |

1-Total Consumption by Daily Read Accounts for 12 Mo. Including Daily Sample Period/365

2 - Class maximum day from daily read data

| <b>Max Day Diversity Factor Calculation</b>  |             |            |             |          |                        |
|--|-------------|------------|-------------|----------|------------------------|
|  | Residential | Commercial | Navy        | PWFD     |                        |
| Class Average Day (mgd)                      | 2.37        | 1.76       | 0.66        | 1.13     |                        |
| Class MD Demand Factor                       | 1.86        | 2.35       | 1.97        | 2.07     | <b>Total MD Demand</b> |
| Max Day Demand (Avg. Day X MD Demand Factor) | 4.42        | 4.12       | 1.29        | 2.33     | <b>12.2</b>            |
| System Average Day (mgd)                     | 5.9         |            |             |          |                        |
| System Maximum Day (mgd)                     | 10.1        |            |             |          |                        |
| System Maximum Hour (mgd)                    | 12.6        |            |             |          |                        |
| Noncoincident MD Capacity Factor             | 12.2        | /          | 5.9         | =        | 2.06                   |
| Coincident MD Capacity Factor                | 10.1        | /          | 5.9         | =        | 1.71                   |
| <b>System MD Diversity</b>                   | <b>2.06</b> | <b>/</b>   | <b>1.71</b> | <b>=</b> | <b>1.20</b>            |

**Maximum Hour Demand Factor Calculation**

|   | Residential | Commercial | Navy | PWFD |
|---|-------------|------------|------|------|
| MD Capacity Factor                                | 1.86        | 2.35       | 1.97 | 2.07 |
| Estimated Maximum-Hour (MH)/MD Ratio <sup>3</sup> | 1.33        | 1.50       | 1.33 | 1.33 |
| Calculated MH Capacity Factor                     | 2.49        | 3.52       | 2.62 | 2.75 |

| <b>Max Hour Diversity Factor Calculation</b>  |             |            |             |          |                        |
|---|-------------|------------|-------------|----------|------------------------|
|   | Residential | Commercial | Navy        | PWFD     |                        |
| Class Average Day (mgd)                       | 2.37        | 1.76       | 0.66        | 1.13     |                        |
| Class MH Demand Factor                        | 2.49        | 3.52       | 2.62        | 2.75     | <b>Total MH Demand</b> |
| Max Hour Demand (Avg. Day X MH Demand Factor) | 5.90        | 6.19       | 1.72        | 3.11     | <b>16.91</b>           |
| System Average Day (mgd)                      | 5.9         |            |             |          |                        |
| System Maximum Day (mgd)                      | 10.1        |            |             |          |                        |
| System Maximum Hour (mgd)                     | 12.6        |            |             |          |                        |
| Noncoincident MH Capacity Factor              | 16.91       | /          | 5.9         | =        | 2.86                   |
| Coincident MH Capacity Factor                 | 12.6        | /          | 5.9         | =        | 2.13                   |
| <b>System MH Diversity</b>                    | <b>2.86</b> | <b>/</b>   | <b>2.13</b> | <b>=</b> | <b>1.34</b>            |

3- MH/MD Ratio Assumptions:

- Residential =24 hr. / 18 hr.
- Commercial =24 hr. / 16 hr.
- Navy =24 hr. / 18 hr.
- PWFD =24 hr. / 18 hr.